

June 29, 2018

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

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

Dear Mr. Batka:

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

EGT is providing all of the attached information in the same sequence as required by both subject permits, i.e. Part II.D.1 (a-i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

EGT accepted F039 waste in May, 2018 so attached are the outside laboratory analyses documenting compliance with the conditions of Page A-3 of 3 of EGT's EPA two UIC permits which are necessary to be submitted as part of this MR.

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

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

Sincerely,



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

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

att.

rjp062918/EGTEPAMonthlyReport-Mau, 2018



290 South Wagner Road
Ann Arbor, Michigan 48103
Tel. 734/995-0995 Fax. 734/995-3731
Michigan Laboratory ID: 9504
Wisconsin Laboratory ID: 998321720

Semivolatile Organic Compound Data Summary Sheet

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

ATS Project: Environmental Geo-Technologies, Inc. #E008-0
Report Date: 6/28/18
ATS SRF: 0607181

Sample Identification: Injection Composite May 2018

Sample Date: 6/7/18
Laboratory Receipt Date: 6/7/18
Preparation Date: 6/12/18, 6/12/18
Analysis Date: 6/28/18, 6/28/18

QC Batch Number: QCORG0612181-E
1801245
Sample Matrix: Wastewater
Dilution Factor: 500

Parameter (CAS)	Method	Units	Result	Reporting Limit
Aldrin (309-00-2)	EPA 8270 Mod	mg/mL	<0.0001	0.0001*
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	<0.00000000005	0.00000000005
Tetrachlorodibenzo-p-dioxins	EPA 1613B	mg/mL	<0.00000000004	0.00000000004

Surrogates / Labeled Standards:	Method	Percent Recovery	Recovery Limits
2-Fluorobiphenyl	EPA 8270 Mod	107.9	(50 - 150)
Nitrobenzene-d5	EPA 8270 Mod	101.7	(50 - 150)
p-Terphenyl-d14	EPA 8270 Mod	107.1	(50 - 150)
Tetrachloro-m-xylene (TCMX)	EPA 8270 Mod	107.9	(50 - 150)
13C-1,2,3,4,7,8-HxCDD	EPA 1613B	69.2	(32 - 141)
13C-1,2,3,6,7,8-HxCDD	EPA 1613B	77.2	(28 - 130)
13C-1,2,3,7,8,9-HxCDD	EPA 1613B	44.7	(32 - 141)
13C-OCDF	EPA 1613B	46.8	(17 - 157)
13C-OCDD	EPA 1613B	61.2	(17 - 157)
13C-2,3,7,8-TCDD	EPA 1613B	80.1	(25 - 184)

Comments:

USEPA Analysis 1613B performed by Vista Analytical.

* Elevated reporting limit due to MS/MSD recovery for this analyte.

AVERAGE INJECTION RATE

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2018CURRENT REPORTING MONTH MAY

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	186,983	0	186,983
Since facility first injected			14,083,703
MI-163-1W-C011, Well #2-12			
Current Month	0	0	0
Since facility first injected			4,648,736
		Lifetime Combined	18,732,439

Conversion factors365.25 days per year \div 12 months per year = 30.4375 days per month30.4375 days per month \times 1440 minutes per day = 43,830 minutes per monthCalculationsWhole number of months of injection 53

53 lifetime number of months of injection \times 43,830 minutes/month
 = 2,322,990 minutes of injection

Lifetime combined injected volume 18,732,439 \div 2,322,990 minutes of injection
 = 8.1 gpm average injection rate

WELL 1 DATA

WELL 01 Monthly Data

Date	Min Injection Pressure (PSIG)	Max Injection Pressure (PSIG)	Min Sight Glass Level (in)	Max Sight Glass Level (in)	Min Annulus Pressure (PSIG)	Max Annulus Pressure (PSIG)	Min Injectate pH	Max Injectate pH	Min Flow Rate (GPM)	Max Flow Rate (GPM)	Min Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
5/1/2018	81.4	920.1	23.2	23.5	857.1	1269.0	0.3	0.3	9.1	39.9	297.0	816.9
5/2/2018	92.5	962.2	23.2	23.5	895.5	1295.9	0.3	0.3	10.4	33.4	281.9	816.5
5/3/2018	130.5	966.5	23.3	23.5	836.2	1261.8	0.3	0.3	6.0	28.0	225.3	775.3
5/4/2018	-6.7	820.5	23.3	26.2	426.9	1302.5	0.3	0.3	15.6	120.8	162.1	928.2
5/5/2018	7.1	8.9	24.2	24.4	604.8	607.3	0.2	0.2	0.0	0.0	596.0	600.1
5/6/2018	-10.0	776.4	24.2	24.4	604.6	1021.8	0.2	0.2	5.0	172.1	245.3	636.1
5/7/2018	15.7	887.3	23.5	24.4	650.5	1145.1	0.2	0.2	17.8	59.1	148.1	666.0
5/8/2018	-10.0	928.0	23.4	23.8	776.6	1245.6	0.2	0.2	3.3	44.1	199.5	841.9
5/9/2018	-10.0	935.9	23.5	23.8	804.6	1256.9	0.2	0.2	20.6	143.6	308.4	832.0
5/10/2018	-10.0	954.6	23.4	23.8	756.7	1230.3	0.2	0.2	10.8	86.9	162.4	839.0
5/11/2018	-9.0	42.2	23.4	23.6	796.8	845.3	7.8	8.9	0.0	67.7	798.3	827.2
5/12/2018	-1.9	-1.5	23.4	23.6	795.7	796.8	12.8	13.0	0.0	10.4	797.4	798.4
5/13/2018	-1.9	-1.3	23.3	23.6	795.2	795.9	12.7	13.0	0.0	0.0	796.6	797.6
5/14/2018	-10.0	561.7	23.3	23.7	786.1	1071.7	12.7	12.7	0.2	93.1	510.0	808.4
5/15/2018	-10.0	841.2	23.4	23.8	777.4	1206.6	12.7	12.7	85.2	260.0	355.7	856.5
5/16/2018	-10.0	840.8	23.4	23.8	778.3	1157.4	12.7	12.7	56.6	231.5	307.1	825.0
5/17/2018	-9.8	939.8	23.5	23.8	806.5	1220.1	12.7	12.7	14.7	61.1	264.6	816.5
5/18/2018	-10.0	949.1	23.5	23.8	745.2	1156.8	12.8	12.8	6.4	0.0	165.4	816.4
5/19/2018	-4.1	-1.9	23.5	23.8	792.0	795.1	0.5	12.8	0.0	0.0	793.9	799.2
5/20/2018	-5.3	-4.0	23.5	23.7	794.2	795.1	0.5	1.0	0.0	0.0	799.0	799.7
5/21/2018	-5.4	646.2	23.4	23.8	793.9	1218.8	1.0	1.0	13.5	68.6	482.6	872.1
5/22/2018	-3.2	846.6	23.5	23.7	791.7	1250.8	1.0	1.0	11.7	81.5	403.2	864.0
5/23/2018	6.7	759.7	23.5	23.8	759.9	1144.5	1.0	1.0	4.6	72.2	366.5	783.5
5/24/2018	42.1	536.1	23.5	23.8	733.5	979.1	1.0	1.6	2.3	41.0	422.9	723.6
5/25/2018	51.9	52.9	23.5	23.8	760.7	761.6	0.3	1.6	0.0	0.0	708.1	709.7
5/26/2018	51.1	52.0	23.5	23.8	760.6	761.5	0.3	0.3	0.0	0.0	708.9	709.7
5/27/2018	50.4	51.2	23.5	23.8	759.4	760.8	0.3	0.3	0.0	0.0	708.4	709.7
5/28/2018	49.9	50.6	23.5	23.8	758.8	760.1	0.3	7.0	0.0	0.0	708.3	709.6
5/29/2018	-10.0	495.9	23.5	23.8	677.7	1058.2	7.0	7.0	7.3	133.5	496.0	879.6
5/30/2018	-10.0	429.2	23.5	23.8	676.6	1042.0	7.0	7.0	3.4	159.5	611.6	863.4
5/31/2018	-10.0	923.3	23.5	23.8	678.2	1242.9	7.0	7.0	7.5	155.5	276.2	765.8

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

Black Pen – Temperature (chart value x 0)

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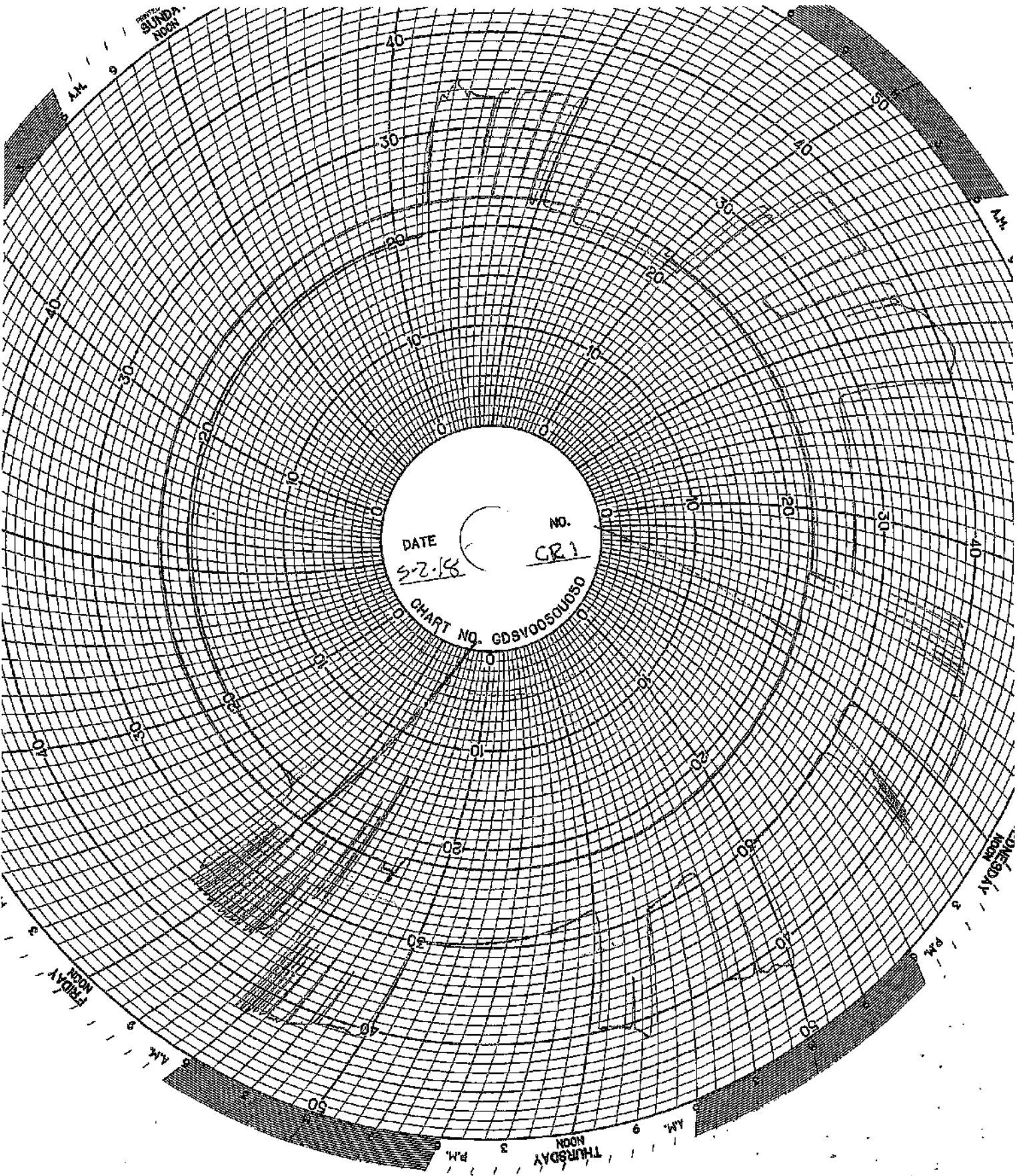
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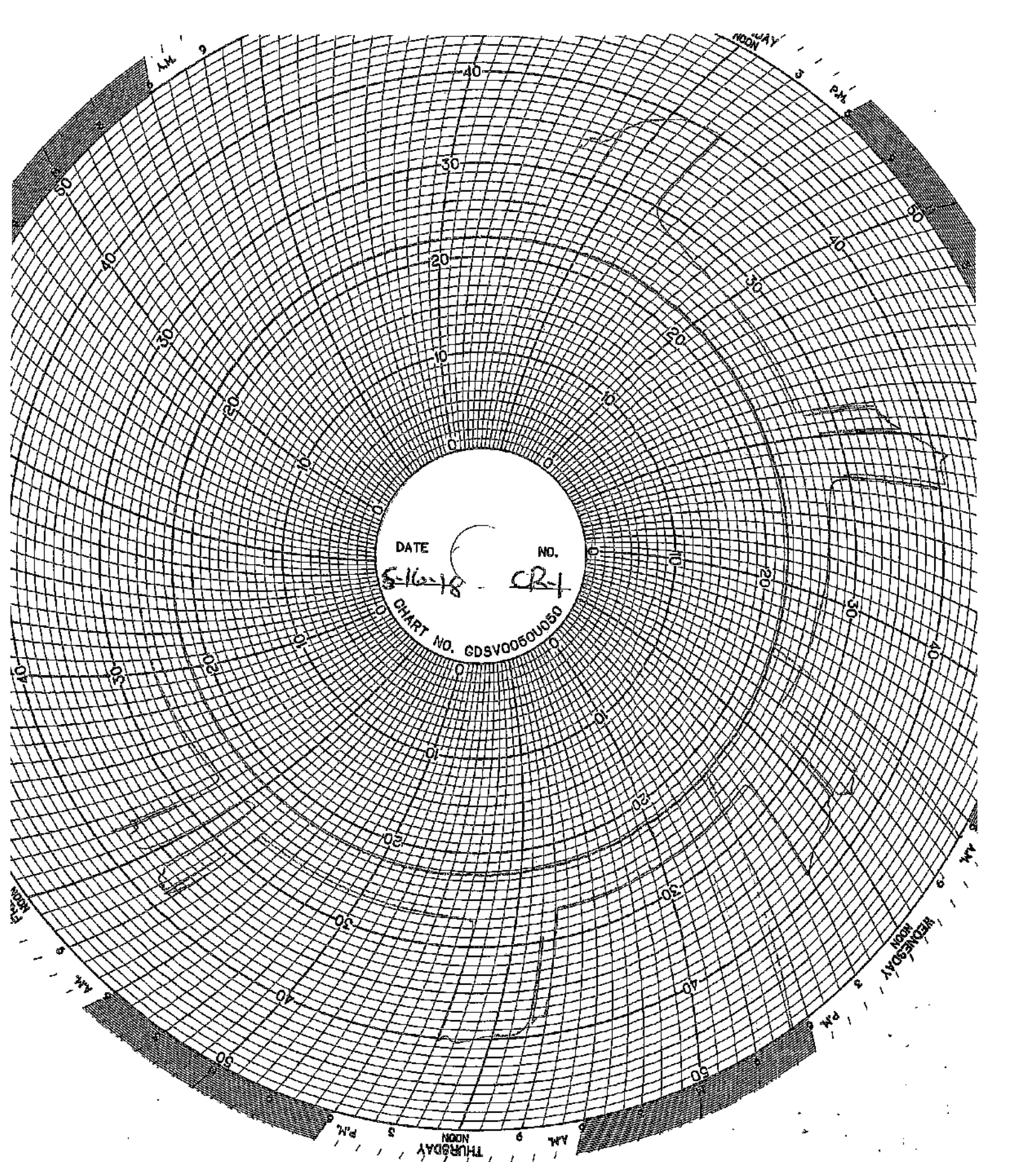
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CHART NO. GDSV0050U050

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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 Differential Pressure (PSIG)	Max Differential Pressure (PSIG)
5/1/2018	0.0	0.0	23.2	23.7	265.1	266.7	0.3	0.3	0.0	0.0	265.1	266.7
5/2/2018	0.0	0.0	23.3	23.4	264.8	266.4	0.3	0.3	0.0	0.0	264.8	266.4
5/3/2018	0.0	0.0	23.1	23.6	264.0	265.6	0.3	0.3	0.0	0.0	264.0	265.6
5/4/2018	0.0	0.0	23.0	23.7	263.9	265.2	0.3	0.3	0.0	0.0	263.9	265.2
5/5/2018	0.0	0.0	23.0	23.7	263.0	264.7	0.2	0.2	0.0	0.0	263.0	264.7
5/6/2018	0.0	0.0	23.0	23.7	261.5	263.8	0.2	0.2	0.0	0.0	261.5	263.8
5/7/2018	0.0	0.0	23.0	23.6	261.1	262.8	0.2	0.2	0.0	0.0	261.1	262.8
5/8/2018	0.0	0.0	23.0	23.6	261.0	262.7	0.2	0.2	0.0	0.0	261.0	262.7
5/9/2018	0.0	0.0	23.0	23.7	260.9	262.7	0.2	0.2	0.0	0.0	260.9	262.7
5/10/2018	0.0	0.0	22.9	23.5	260.3	262.0	0.2	0.2	0.0	0.0	260.3	262.0
5/11/2018	0.0	0.0	23.0	23.2	258.8	261.1	7.8	8.9	0.0	0.0	258.8	261.1
5/12/2018	0.0	0.0	22.9	23.2	257.8	259.5	12.8	13.0	0.0	0.0	257.8	259.5
5/13/2018	0.0	0.0	23.0	23.2	256.7	258.5	12.7	13.0	0.0	0.0	256.7	258.5
5/14/2018	0.0	0.0	23.0	23.5	256.1	257.5	12.7	12.7	0.0	0.0	256.1	257.5
5/15/2018	0.0	0.0	22.9	23.6	255.6	256.9	12.7	12.7	0.0	0.0	255.6	256.9
5/16/2018	0.0	0.0	23.0	23.6	255.5	256.9	12.7	12.7	0.0	0.0	255.5	256.9
5/17/2018	0.0	0.0	22.9	23.6	255.5	256.9	12.7	12.7	0.0	0.0	255.5	256.9
5/18/2018	0.0	0.0	23.0	23.6	254.9	256.4	12.8	12.8	0.0	0.0	254.9	256.4
5/19/2018	0.0	0.0	23.2	23.6	254.1	255.8	0.5	12.8	0.0	0.0	254.1	255.8
5/20/2018	0.0	0.0	22.9	23.6	252.9	254.8	0.5	1.0	0.0	0.0	252.9	254.8
5/21/2018	0.0	0.0	22.9	23.6	252.5	253.7	1.0	1.0	0.0	0.0	252.5	253.7
5/22/2018	0.0	0.0	23.0	23.6	252.2	253.5	1.0	1.0	0.0	0.0	252.2	253.5
5/23/2018	0.0	0.0	23.1	23.6	251.7	253.2	1.0	1.0	0.0	0.0	251.7	253.2
5/24/2018	0.0	0.0	22.9	23.6	250.9	252.9	1.0	1.6	0.0	0.0	250.9	252.9
5/25/2018	0.0	0.0	23.0	23.7	250.2	252.0	0.3	1.6	0.0	0.0	250.2	252.0
5/26/2018	0.0	0.0	23.2	23.4	249.1	251.0	0.3	0.3	0.0	0.0	249.4	251.0
5/27/2018	0.0	0.0	23.0	23.7	248.9	250.7	0.3	0.3	0.0	0.0	248.9	250.7
5/28/2018	0.0	0.0	23.1	23.7	248.2	250.0	0.3	7.0	0.0	0.0	248.2	250.0
5/29/2018	0.0	0.0	23.0	23.7	247.9	249.4	7.0	7.0	0.0	0.0	247.9	249.4
5/30/2018	0.0	0.0	23.0	23.7	247.5	248.9	7.0	7.0	0.0	0.0	247.5	248.9
5/31/2018	0.0	0.0	23.1	23.7	247.0	248.4	7.0	7.0	0.0	0.0	247.0	248.4

Circle Chart Index

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

Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

Chart Recorder #3

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

Black Pen - Temperature (chart value x 0)

PRINTED IN U.S.A.
SUNDAY
NOON

DATE 5-2-8
NO. CR-2
CHART NO. GDSV0050U050

THURSDAY
NOON

FRIDAY
NOON

PRINTED
SUNDAY
NOON

P.M.

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DATE
5-9-18

NO.
CR-2

CHART NO. GDSV00501050

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THURSDAY
NOON

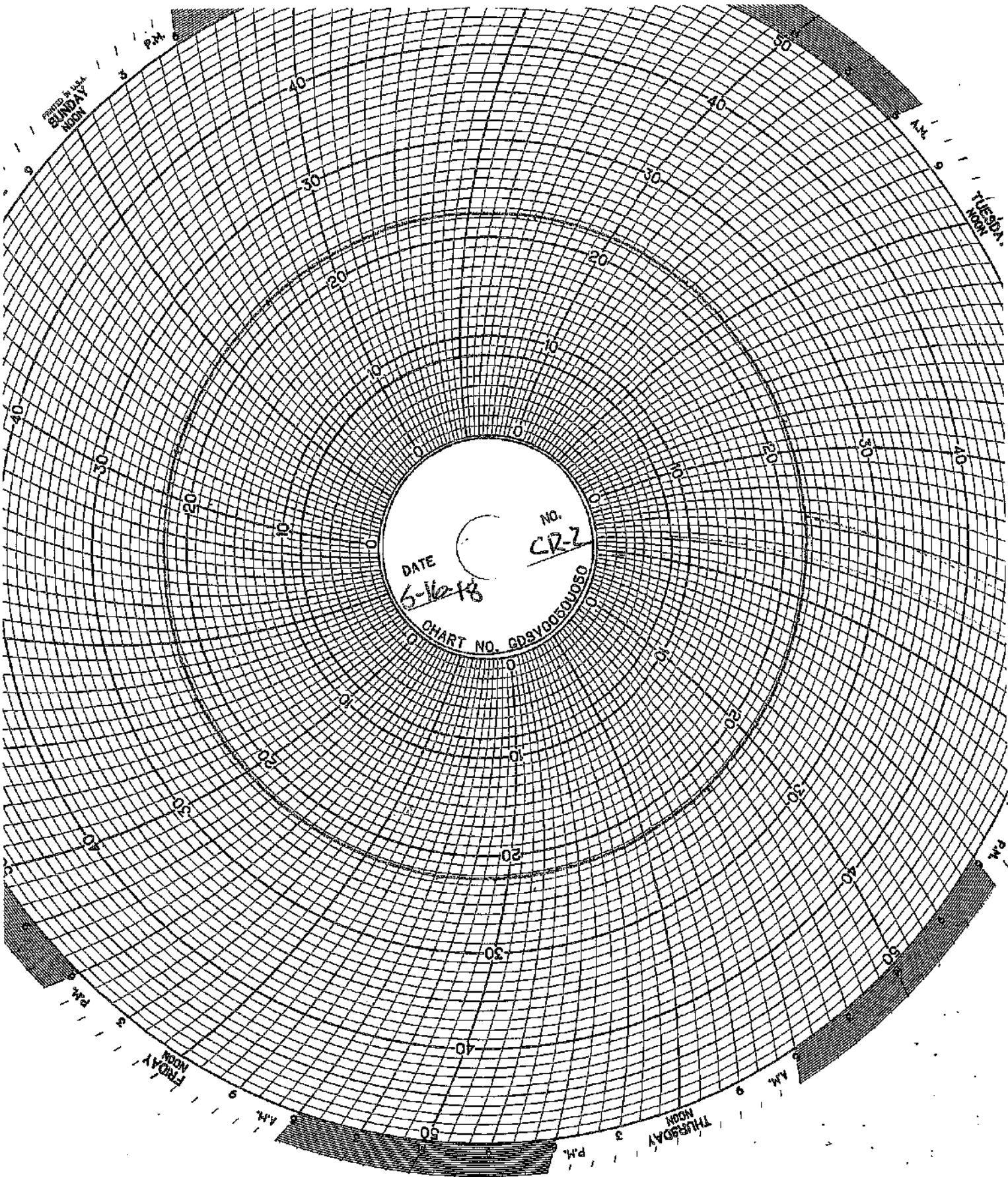
P.M.

P.M.

WEDNESDAY
NOON

FRIDAY
NOON

P.M.



UNITED STATES OF AMERICA
NAVY
SUNDAY
NOON

DATE

5-23-48

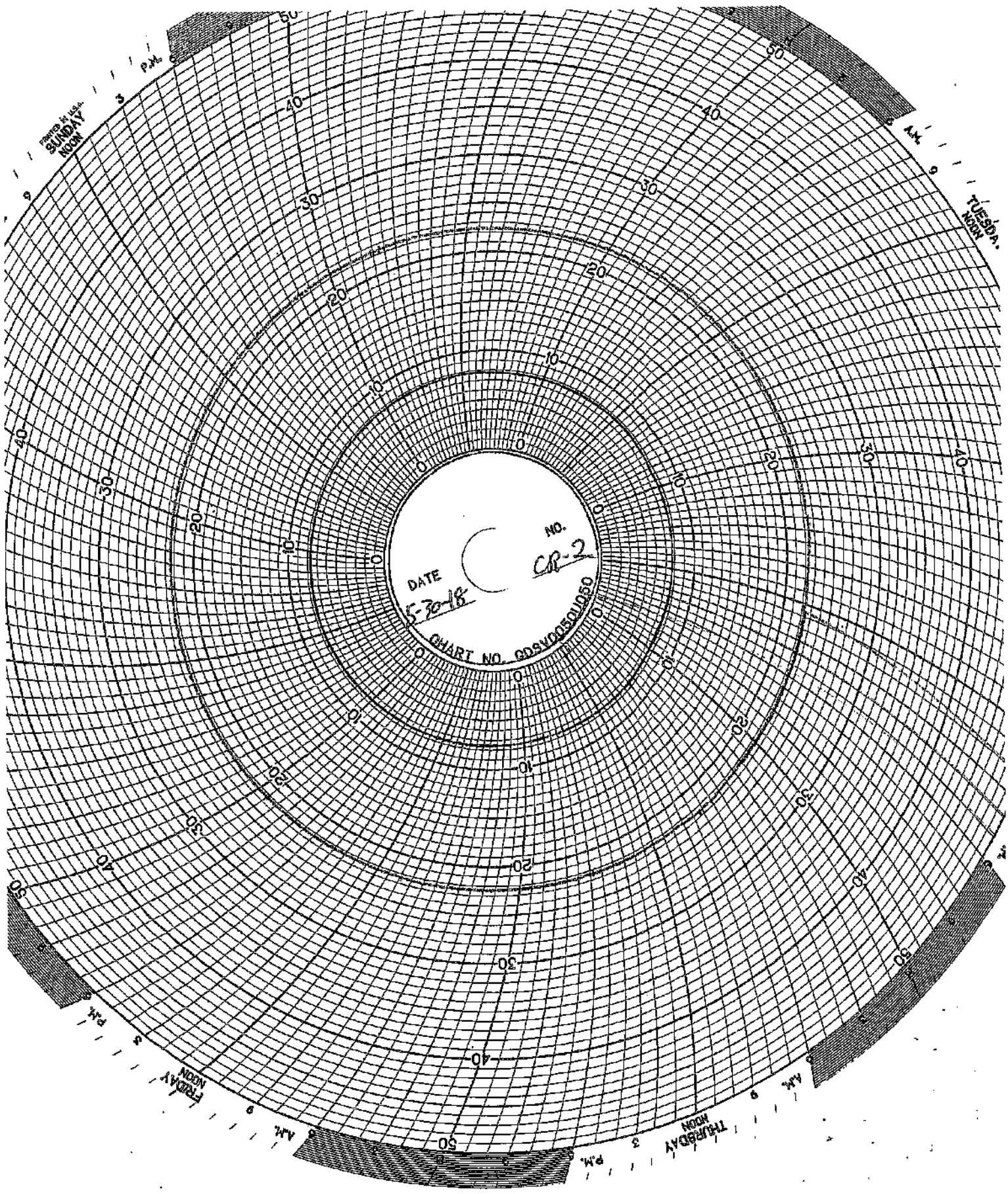
NO.

CR-2

CHART NO. 003V00501050

THURSDAY
NOON

FRIDAY
NOON



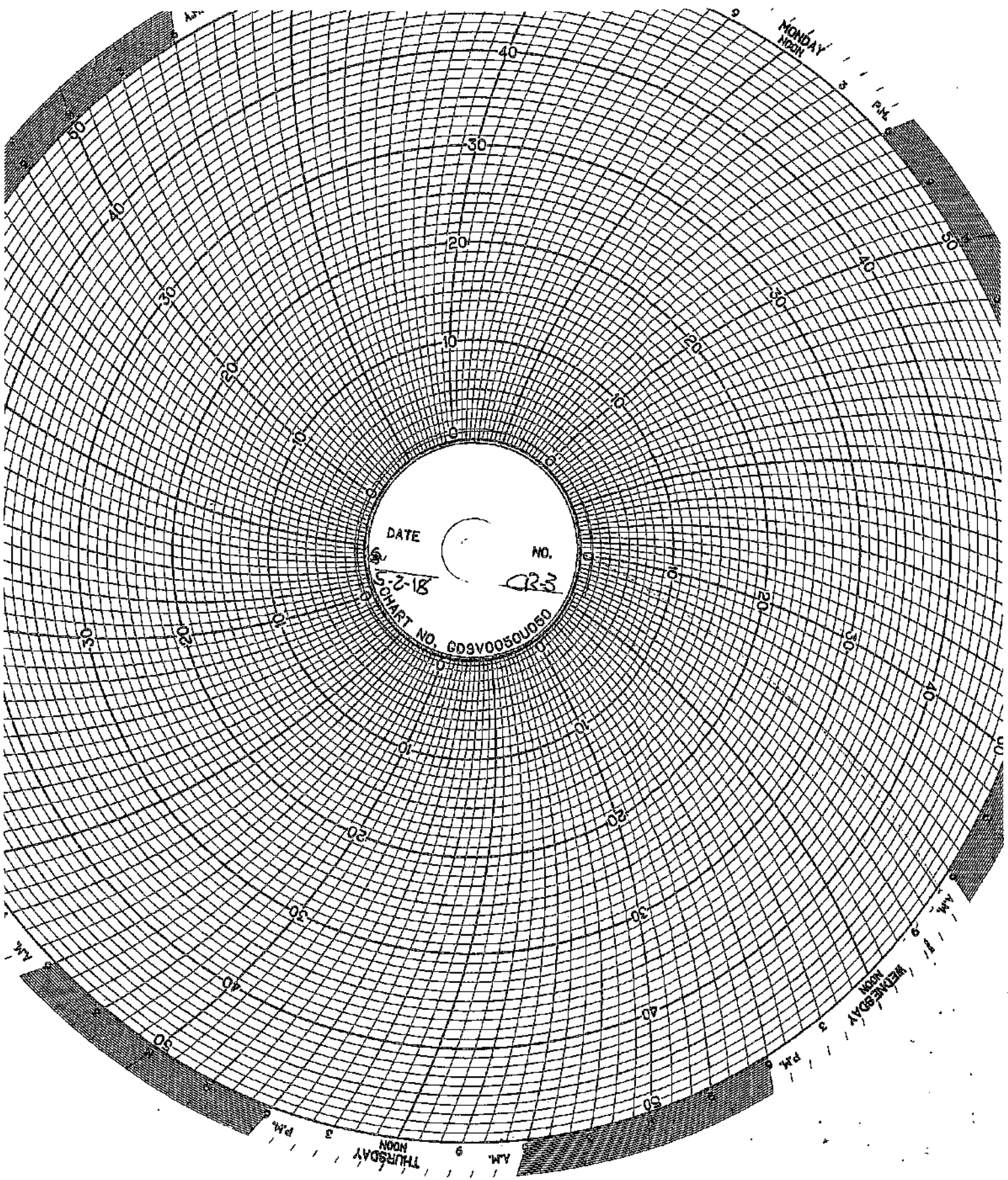
DATE

5-30-18

NO.

CR-2

CHART NO. 0050050150



MONDAY
NOON

P.M.

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THURSDAY

NOON

A.M.

9

P.M.

3

WEDNESDAY

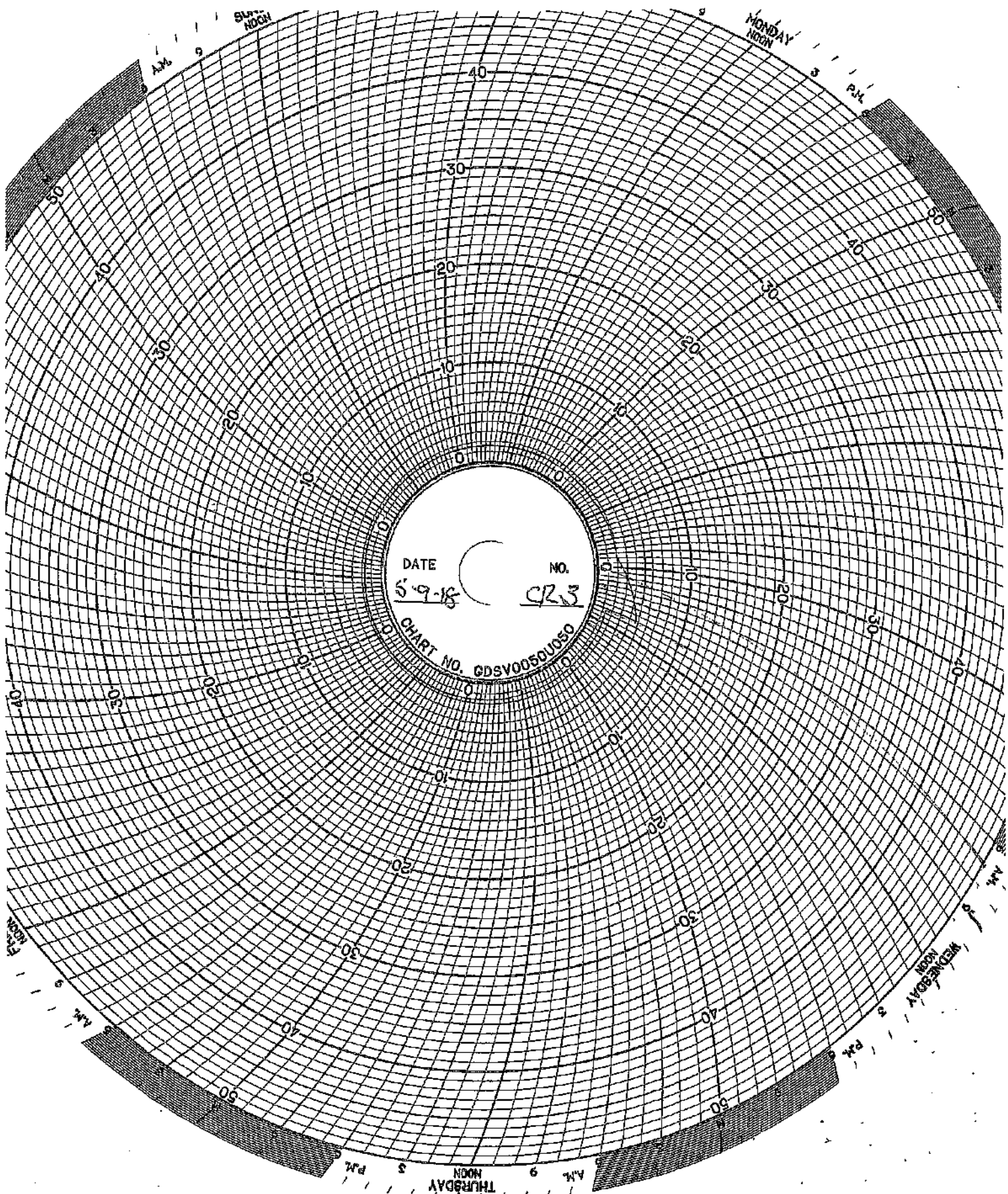
NOON

P.M.

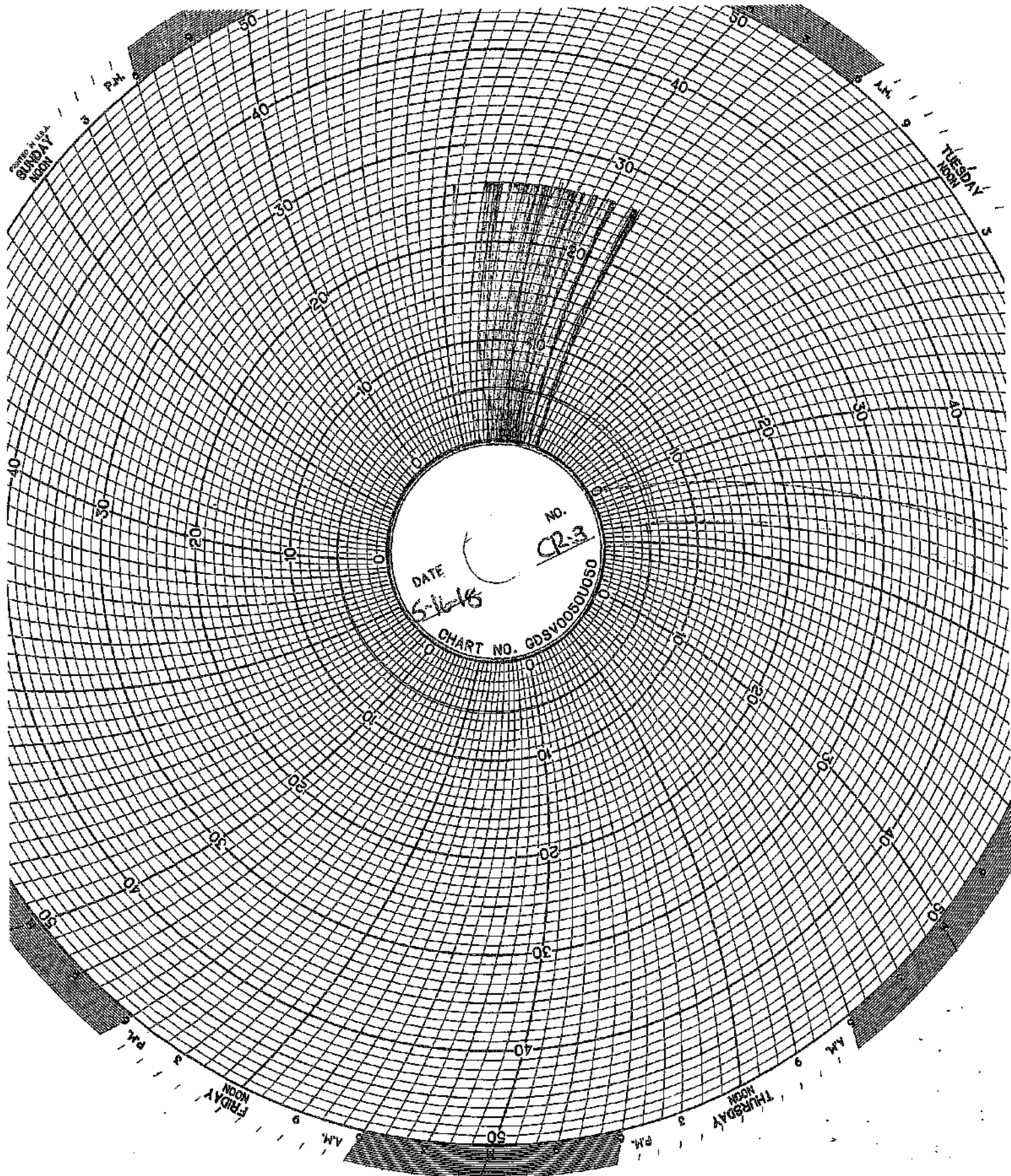
9

P.M.

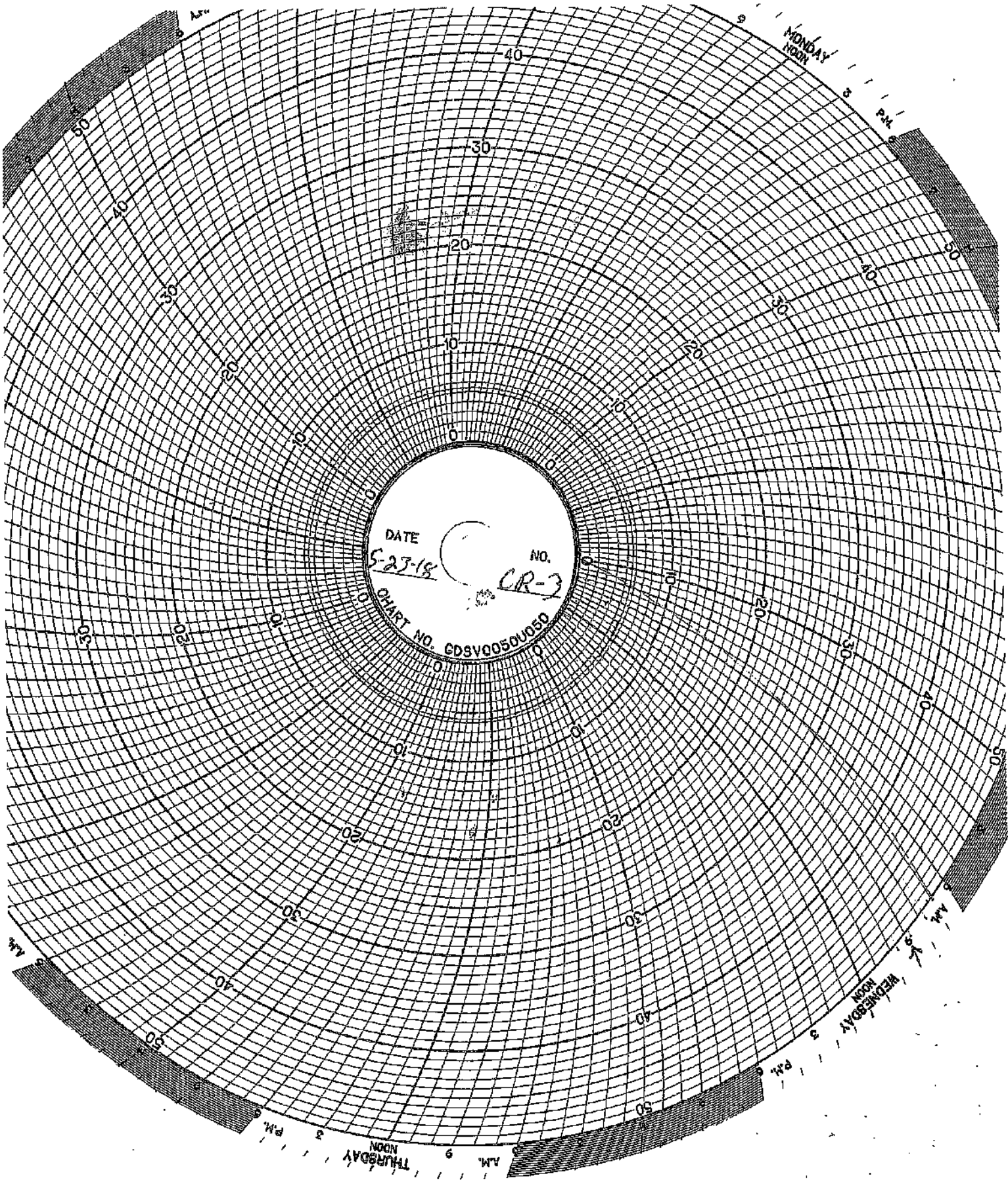
3



DATE 5-9-18 NO. 023
CHART NO. GDSV00500050



DATE 5-16-15
NO. CR-3
CHART NO. GDSVOOSDU050



DATE

5-23-18

NO.

CR-2

CHART NO.

GDSVQ050U050

PRINTED IN U.S.A.
SUNDAY
NOON

DATE

CR-3

NO.

5-30-18

CHART NO. GDSV00301050

THURSDAY
NOON

3 PM

THURSDAY
NOON

3 PM

FRIDAY
NOON

3 PM

MAINTENANCE LOG

UIC Monthly Maintenance Log

No Maintenance This Month

CORROSION MONITORING

CORROSION MONITORING COUPONS VISUAL DESCRIPTION

May, 2018

Fiberglass Coupon

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

Hastelloy Coupon

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

Stainless Steel Coupon

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

CORROSION MONITORING PLAN
COUPON SUMMARY

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

CORROSION MONITORING PLAN

COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass	
1/29/2018	13.326 g	10.930 g	18.027 g	New stainless steel coupon
2/9/2018	13.325 g	10.932 g	18.044 g	
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	
5/17/2018	13.325 g	10.858 g	18.037 g	

CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

Fiberglass

The fiberglass coupon is Red Box 2000 type and is 2-1/2 inches long by 1/2 inch wide and 1/4 inches thick. It is a dark orange (rust) in color with a glossy shine on one side a polished look on the opposite side and the cut edges look sanded.

Hastelloy

The hastelloy coupon is identified as C276 with serial number 1. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Stainless Steel

The stainless steel coupon is identified as 316L with serial number C1562. The dimensions of the coupon are 3 inches long by 1/2 inch wide and 1/4 inch thick. The coupon is silver in color with a lightly sandblasted surface.

Ghesquiere Plastic Testing, Inc.

20450 HARPER AVENUE
HARPER WOODS, MI 48225
PHONE (313) 885-3585
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

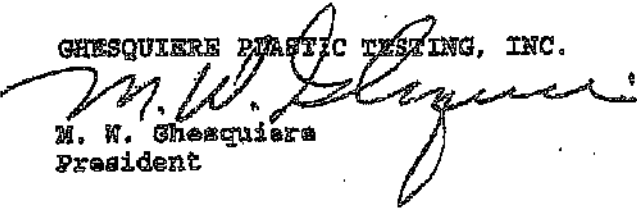
Hardness

Specimen 1

90

Specimen is being returned with this report for further evaluation.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

DWG/kml

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

20450 HARPER AVENUE
HARPER WOODS, MI 48226
PHONE (313) 886-8535
FAX (313) 885-4771

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.

NOTE: SEE ATTACHED

Ghesquiere Plastic Testing, Inc.

M. W. Ghesquiere
President

MWG/dm

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TOTAL 1 PAGES

Ghesquiere Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:


The following determination was made based upon the above test:

BARCOL HARDNESS

	<u>Hardness</u>
Specimen 1	85

Specimen was returned to the client June 16, 2014.

Ghesquiere Plastic Testing, Inc.


M. W. Ghesquiere
President

MWG/dm

Testing. Development. Problem Solving.



October 2, 2014

TEST REPORT

PN 118325

PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Missiea Martin
Sr. Project Technician

Approved By:

Jim Drummond
Physical & Plastics Testing, Manager



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

ISO 9001:2008
Registered

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www.ardl.com

2887 Gilchrist Rd. | Akron, Ohio 44305 | answers@ardl.com
Toll Free (800) 636-ARDL | Worldwide (330) 794-6600 | Fax (330) 794-6819



Testing. Development. Problem Solving.

October 2, 2014

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN118325

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

RECEIVED: One small section identified as; Fiberglass Coupon.


BARCOL HARDNESS ASTM D 2583-13a

Results

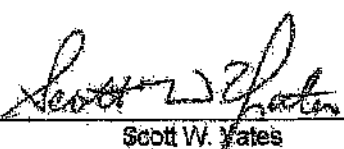
Barcol Hardness, Instant

97

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager

www.ardl.com

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



Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

• TEST REPORT •

PN 125322

PO 00154

PLASTICS TESTING DEPARTMENT

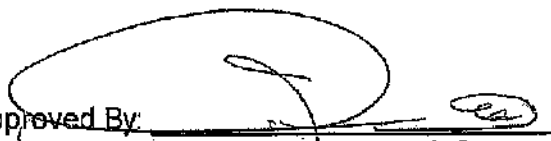
Prepared For:

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

Prepared By:


Melissa Martin
Sr. Project Technician

Approved By:


Jim Drummond, Sr.
Physical & Plastic Testing, Manager



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ISO 9001:2008 Registered

ISO 9001:2008
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Progress Through Innovation, Technology and Customer Satisfaction

October 22, 2015

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 125322

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant

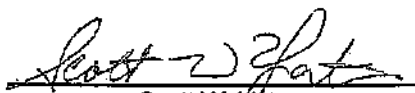
96

Prepared By:


Melissa Martin
Sr. Project Technician

tc

Approved By:


Scott W. Yates
Plastics Testing Assistant Manager



Progress Through Innovation, Technology and Customer Satisfaction

December 12, 2016

TEST REPORT

PN 132662
PO

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin
Senior Project Technician

Rev 041916

Approved By:

Jim Drummond
Physical Testing, Manager



An A2LA ISO 17026 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02
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ISO 9001:2008
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Progress Through Innovation, Technology and Customer Satisfaction

December 12, 2016

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 132662

SUBJECT: Barcol Hardness on one (1) material.

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

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

RESULTS

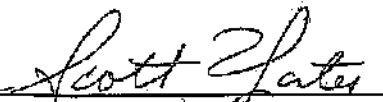
Barcol Hardness, Instant 96

Prepared By:


Melissa Martin
Senior Project Technician

wk

Approved By:


Scott Yates
Plastics Testing, Assistant Manager

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



Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

TEST REPORT

PN 139140
PO#

PLASTIC TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin
Sr Project Technician

Approved By:

Jim Drummond
Rubber & Plastic Testing, Manager

Rev 041916



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ISO 9001:2008 Registered

ISO 9001:2008
Registered

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Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

John Frost
Environmental Geo-Technologies, LLC

Page 2 of 2
PN 139140

SUBJECT: Barcol Hardness on one material.

RECEIVED: One small section identified as; Fiberglass Coupon.

BARCOL HARDNESS ASTM D 2583-13a
Instant Reading

Results

Barcol Hardness, Instant	96
--------------------------	----

Prepared By:

Melissa Martin
Sr Project Technician

Approved By:

Scott Yates
Plastics Testing, Assistant Manager

SC

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**INJECTION
FINGERPRINTS**

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12/15/18	05-31-18
Receiving ID#	205311801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	DW	

COPY

ANALYSIS INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?	x	Total Iron	
Flash Point (°F)	714005	Magnesium	
pH (S.U.)	5.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	2190
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	34ms		
% Solids	21%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8:20 AM 05-30-18
Receiving ID#	105301801
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	TE

COPY

ANALYSIS INFORMATION		ANALYSIS INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	2090
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	73°F		
Conductivity	84 mS		
% Solids	22%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:20 PM	05-29-13
Receiving ID#	105291401	
Manifest#	Line:	
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	DB	

COPY

ANALYSIS INFORMATION		OTHER INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7140°F	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.09	TDS	2890
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil In Sample	Yes No		
Temperature	73°F		
Conductivity	84mS		
% Solids	2890		
Turbidity	Yes No		
Color (visual)			
TSS (%)	4190		
Radiation Screen (as needed)			
Lab Signature	Pa		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	9:30am	08-24-18
Receiving ID#	208241801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	AS	
Sampled by	AW	

COPY

ANALYSIS INFORMATION		TEST RESULTS	
Compatible? (RT#)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	21400F	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	102
Physical Description		Resistivity	
Stream Consistency	Yes <input type="checkbox"/> No <input type="checkbox"/>	Sulfate	
Oil in Sample	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Temperature	70°F		
Conductivity	360 uS		
% Solids	11%		
Turbidity	Yes <input type="checkbox"/> No <input type="checkbox"/>		
Color (visual)			
TSS (%)	1%		
Radiation Screen (as needed)			
Lab Signature	Pun		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	11:00am	OS-23-18
Receiving ID#	Z0023 18 01	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

ANALYSIS INFORMATION		OTHER INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7140°F	Magnesium	
pH (S.U.)	0.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	19%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	70°F		
Conductivity	60-5		
% Solids	19%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Per		

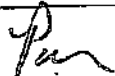
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	11:30 05 22 16
Receiving ID#	20322501
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AW

COPY

ANALYSIS INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	0.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	1070
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	203µS		
% Solids	11%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	1%		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	8/20/18	5-21-18
Receiving ID#	IOS211801	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	B	
Sampled by	James J.	

COPY

WASTE INFORMATION		ANALYSIS INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	5140°F	Magnesium	
pH (S.U.)	1.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.04	TDS	670
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	17mS		
% Solids	8%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2%		
Radiation Screen (as needed)			
Lab Signature	P		

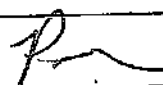
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	2:15 PM 05-17-18
Receiving ID#	105171802
Manifest#	Line:
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	T E

COPY

LAB INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	13.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	370
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66.0°F		
Conductivity	68mS		
% Solids	5%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	2%		
Radiation Screen (as needed)			
Lab Signature			


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9:30 am	05-17-18
Receiving ID#	E05171801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

Compatible? (RT#)	Yes	No	Barium	
PCBs (ppm)(Oily Waste Only)?			Calcium	
TOC (ppm)(CC Waste Only)?			Total Iron	
Flash Point (°F)	2140°F		Magnesium	
pH (S.U.)	11.0		Sodium Chloride	
Cyanides? (mg/L)			Bicarbonate	
Sulfides? (ppm)			Carbonate	
Specific Gravity	1.01		TDS	670
Physical Description			Resistivity	
Stream Consistency	Yes	No	Sulfate	
Oil in Sample	Yes	No		
Temperature	68°F			
Conductivity	10mS			
% Solids	6%			
Turbidity	Yes	No		
Color (visual)				
TSS (%)	21%			
Radiation Screen (as needed)				
Lab Signature				

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	7.30 pm	08.16.18
Receiving ID#	I 03161802	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

LAB INFORMATION		TEST RESULTS	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	8.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	990
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	68 µS		
% Solids	9%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	90% <1%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9:00	08.16.19
Receiving ID#	208161801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	4.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	22%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	149µS		
% Solids	22%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	41%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	1:50pm	2 05-15-14
Receiving ID#	Z051516.02	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

WASTE CHARACTERISTICS		CHEMICAL ANALYSIS	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7140°F	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	14%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	19mS		
% Solids	14%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	41%		
Radiation Screen (as needed)			
Lab Signature	[Signature]		


FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	8:50 AM	05/15/18
Receiving ID#	205151801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	TE	

COPY

ANALYSIS INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	1690
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	66°F		
Conductivity	101 mS		
% Solids	16%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	61%		
Radiation Screen (as needed)			
Lab Signature			

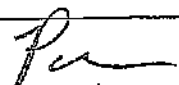
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date		2:00am	08-11-18
Receiving ID#		I 08111801	
Manifest#	Line:		
Land Ban Cert included	Yes	No	
EGT Approval #			
Generator			
Client			
Transporter			
Time in			
Time out			
Received by		PS	
Sampled by		PMV	

COPY

LAB INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	7140°F	Magnesium	
pH (S.U.)	0.4	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	10%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	63µS		
% Solids	18%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	8%		
Radiation Screen (as needed)			
Lab Signature			

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	11:30 am	5-9-18
Receiving ID#	105091801	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	DS	

COPY

LAB INFORMATION		OTHER INFORMATION	
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	13.6	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.08	TDS	10%
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	68°F		
Conductivity	128mS		
% Solids	10%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	P		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	9:00am 03-07-16
Receiving ID#	105001507
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	AM

COPY

LABORATORY INFORMATION		OIL FIELD INFORMATION	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	2140°F	Magnesium	
pH (S.U.)	13.5	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.10	TDS	1590
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	193µS		
% Solids	15%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Per		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:15 am	205/04/18
Receiving ID#	205041801	
Manifest#	Line:	
Land Ban Cert Included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

LAB INFORMATION		Other Elements	
All Waste Streams			
Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	> 140°F	Magnesium	
pH (S.U.)	0.1	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.06	TDS	2190
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	69°F		
Conductivity	149mS		
% Solids	21%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	21%		
Radiation Screen (as needed)			
Lab Signature	Pm		

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	12:05pm	05/03/18
Receiving ID#	F-05031601	
Manifest#	Line:	
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	RW	

COPY

ANALYSIS INFORMATION		ANALYSIS RESULTS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	10.2	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.00	TDS	290
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	67°F		
Conductivity	2mS		
% Solids	2%		
Turbidity	Yes No		
Color (visual)			
TSS (%)	<1%		
Radiation Screen (as needed)			
Lab Signature	Yan		

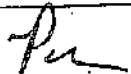
FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	7:30 AM	05/01/18
Receiving ID#	E05011801	
Manifest# Line:		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in		
Time out		
Received by	PS	
Sampled by	AW	

COPY

LAB INFORMATION		CHEMICAL ANALYSIS	
Compatible? (RT#)	Yes No	Barium	
PCBs (ppm)(Oily Waste Only)?		Calcium	
TOC (ppm)(CC Waste Only)?		Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	9.3	Sodium Chloride	
Cyanides? (mg/L)		Bicarbonate	
Sulfides? (ppm)		Carbonate	
Specific Gravity	1.02	TDS	370
Physical Description		Resistivity	
Stream Consistency	Yes No	Sulfate	
Oil in Sample	Yes No		
Temperature	65°F		
Conductivity	19mS		
% Solids	370		
Turbidity	Yes No		
Color (visual)			
TSS (%)	4170		
Radiation Screen (as needed)			
Lab Signature			

**WASTE STREAMS
CHARACTERIZATIONS**

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

28470 Cliff Dr. Farmington, MI 48174. Telephone 734 946 1000. Fax 734 946 1002

Generator Waste Profile

Profile # **01843**

GENERATOR INFORMATION

Name: [REDACTED] USEPA ID # [REDACTED]

Facility Address: [REDACTED] NAICS Code: **332** State Code: [REDACTED]

City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]

Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED]

BILLING INFORMATION

Company Name: [REDACTED]

Address: [REDACTED]

City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]

Attention: [REDACTED] Phone: [REDACTED] FAX: [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

PERSONAL PROTECTIVE EQUIPMENT TANK

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

Garage

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: **D004** **D007** **D008**

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input checked="" type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input type="checkbox"/> Other	Suspended Solids: <input checked="" type="checkbox"/> 0.1% <input type="checkbox"/> 1-5% <input type="checkbox"/> 1-5% <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> < 0.9 <input type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 1.3-1.4 <input type="checkbox"/> > 1.4 Each One
---	--	--	---

acc. 6/18/05
05.03.18

H: ☐ NA ☒ 1-2 ☐ 2-4 ☐ 4-6 ☐ 6-8 ☐ 8-10 ☐ 10-125 ☐ > 125

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

ACCUMULATION: **-0-** PH (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	88	96			
-------	----	----	--	--	--

Acetic Acid	1	1			
-------------	---	---	--	--	--

Acetic Acid	1	1			
-------------	---	---	--	--	--

EG7-28470 Citrus Drive - Romulus - MI - 48174

Waste Profile - Page 2

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

☐ Lab Analyst ☐ Generator Knowledge☐ TCLP ☐ TOTAL

Not Concentration			Not Concentration			Arsenic (As)			Barium (Ba)			Beryllium (Be)			Cadmium (Cd)			Chromium (Cr)			Lead (Pb)			Manganese (Mn)			Mercury (Hg)			Nickel (Ni)			Selenium (Se)			Silver (Ag)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

RECEIVING & APPROVAL FORM

Date	4/24/18
Receiving ID#	
Manifest#	Line#
Land Ban Get Included	Yes No
ECR Approval#	
Generated by	[REDACTED]
Client	NI Ruse
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

Compliance RT#	Yes/No	Barium
ECR (non) Oily Waste Only	N/A	Calcium
ECR (non) CC Waste Only	N/A	Total Iron
Fast Point (F)	SHORE	Magnesium
PHSD (F)	D/L	Sodium Chloride
Gravels (mm)	2.35	Bicarbonate
Sand (mm)	2.08	Carbonate
Specific Gravity	1.12	TDS
Physical Description	1.13	Resistivity
Stream Consistency	Yes No	Sulfate
Oily Sample	Yes NO	
Temperature	65 F	
Conductivity	186 uS	
% Solids	2.1%	
Flammability	Yes NO	
Color (Vial)	Clear Green	
TSS (%)	2.1%	
Radiation Screen (as needed)	None	
Lab Signature	[Signature]	

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste ProfileProfile # **01344****GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID # [REDACTED]
Facility Address: [REDACTED] SIC/NA/ICS Code [REDACTED] State Code [REDACTED]
City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED] Fax: [REDACTED]

BILLING INFORMATION

SAME AS ABOVE

Company Name: [REDACTED]
Address: [REDACTED]
City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
Attention: [REDACTED] Phone: [REDACTED] Fax: () [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Trilon A + BFA

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

Unused product.**USEPA / STATE WASTE IDENTIFICATION**

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

PHYSICAL CHARACTERISTICS OF WASTE

Color: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input checked="" type="checkbox"/> 1.3 - 1.4 Exact / Other	<u>acceptable</u> <u>057618</u>
--	---	---	--	------------------------------------

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

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Water	41	80	Trisodium nitrilotriacetate	0	40
Ammonium hydroxide	0	0.5	Sodium hydroxide	0	15
Formic Ammonium	50	80	Formaldehyde, trace	0	1
Ethylendiamine, tetraacetic	2	3	Sodium cyanide, trace	0	1
acid EDTA					

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

<input type="checkbox"/> Lab Analysis	<input checked="" type="checkbox"/> Generator Knowledge	<input type="checkbox"/> TCLP	<input type="checkbox"/> TOTAL
---------------------------------------	---	-------------------------------	--------------------------------

PCB	<input type="checkbox"/> Not Present	Concentration	ppm	Aromatic Amine	<input type="checkbox"/> Not Present	Concentration	ppm	Arsenic (As)	0004	<input type="checkbox"/> < 5	ppm	ppm
Dioxins	<input type="checkbox"/> Present	ppm		Pesticides	<input type="checkbox"/> Present	ppm		Barium (Ba)	0005	<input type="checkbox"/> < 100	ppm	ppm
Cyanides Reactive	<input type="checkbox"/> Present	ppm		Rodenticides	<input type="checkbox"/> Present	ppm		Cadmium (Cd)	0006	<input type="checkbox"/> < 1	ppm	ppm
Cyanides Total	<input type="checkbox"/> Present	ppm		Fungicides	<input type="checkbox"/> Present	ppm		Chromium (Cr)	0007	<input type="checkbox"/> < 5	ppm	ppm
Sulfides Reactive	<input type="checkbox"/> Present	ppm						Lead (Pb)	0008	<input type="checkbox"/> < 5	ppm	ppm
Sulfides Total	<input type="checkbox"/> Present	ppm						Mercury (Hg)	0009	<input type="checkbox"/> < 0.2	ppm	ppm
								Selenium (Se)	0010	<input type="checkbox"/> < 1	ppm	ppm
								Silver (Ag)	0011	<input type="checkbox"/> < 5	ppm	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No2. Reportable Quantity (RQ) in pounds 100 lbs D0023. DOT Shipping Name Waste Corrosive Liquid, basic, organic Hazard Class 8 UN/NA 1403267PG 12 ERG 153 Hazardous Constituents for "n.o.s." Acetic Ammonium ^{n.o.s.} EDTA, ammonium hydrate4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☐ Totes5. Number of Units to Ship Now: 8000 6. Anticipated Volume / Units per Year: 2-3 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.

Printed Name: _____

Title: _____

Generator's Signature: _____

Date: _____

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

1. _____ 2. _____
SAMPLING METHOD COLLECTION POINT3. _____
SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER4. Sample No. _____ Preservation: Yes ☐ No ☐

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

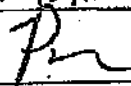
Relinquished by: (Signature)	Date	Time	Received by: (Signature)	Date	Time

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/3/18
Receiving ID#	
Manifest#	Line:
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	Tyson A
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

Compatible? (RT#)	base	(Yes)	No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A			Calcium	
TOC (ppm)(CC Waste Only)?	N/A			Total Iron	
Flash Point (°F)	>1400°			Magnesium	
pH (S.U.)	13.8			Sodium Chloride	
Cyanides? (mg/L)	230			Bicarbonate	
Sulfides? (ppm)	2000			Carbonate	
Specific Gravity	1.30			TDS	
Physical Description	liquid			Resistivity	
Stream Consistency	(Yes)	No		Sulfate	
Oil in Sample	Yes	(No)			
Temperature	68°F				
Conductivity	3mS				
% Solids	4.7%				
Turbidity	Yes	(No)			
Color (visual)	gold				
TSS (%)	21%				
Radiation Screen (as needed)	negative				
Lab Signature					

* Solubilizer mixed acid/base



We create chemistry

Safety Data Sheet

Trilon® A Liquid

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(30043430/SDS_GEN_US/EN)

1. Identification

Product identifier used on the label

Trilon® A Liquid

Recommended use of the chemical and restriction on use

Recommended use*: Chemical

*The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 245-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Chemical family: unspecified

Synonyms: Glycine, N,N-Bis(Carboxymethyl)-Trisodium Salt, Aqueous Sol.

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

Classification of the product

Met. Corr.	1	Corrosive to metals
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Carc.	2	Carcinogenicity
Aquatic Acute	3	Hazardous to the aquatic environment - acute

Label elements

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Signal Word:
Warning

Hazard Statement

H290	May be corrosive to metals.
H319	Causes serious eye irritation.
H351	Suspected of causing cancer.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P280	Wear protective gloves/protective clothing/eye protection/face protection.
P201	Obtain special instructions before use.
P202	Do not handle until all safety precautions have been read and understood.
P273	Avoid release to the environment.
P234	Keep only in original packaging.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P308 + P311	IF exposed or concerned: Call a POISON CENTER or doctor/physician.
P337 + P311	IF eye irritation persists: Call a POISON CENTER or doctor/physician.
P390	Absorb spillage to prevent material damage.

Precautionary Statements (Storage):

P405	Store locked up.
P406	Store in a corrosion-resistant/... container with a resistant inner liner.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 40 - 41 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 40 - 41 % Inhalation - mist

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard: 29 CFR Part 1910.1200

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<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
1310-73-2	>= 0.0 - < 1.0%	Sodium Hydroxide
5064-31-3	>= 25.0 - < 50.0%	trisodium nitrilotriacetate

4. First-Aid Measures

Description of first aid measures

General advice:

Remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash thoroughly with soap and water.

If in eyes:

Wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Immediately rinse mouth and then drink 200-300 ml of water, seek medical attention.

Most important symptoms and effects, both acute and delayed

Symptoms: Eye irritation, gastrointestinal complaints, kidney damage

Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment: Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours, nitrogen oxides, carbon oxides

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Firefighters should be equipped with self-contained breathing apparatus and turn-out gear.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations

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6. Accidental release measures

Further accidental release measures:

High risk of slipping due to leakage/spillage of product.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

No special measures necessary provided product is used correctly.

Protection against fire and explosion:

No special precautions necessary.

Conditions for safe storage, including any incompatibilities

Suitable materials for containers: Stainless steel 1.4401, Stainless steel 1.4301 (V2), High density polyethylene (HDPE), Low density polyethylene (LDPE), glass

Further information on storage conditions: Keep container tightly closed and in a cool place.

The packed product is not damaged by low temperatures or by frost.

Protect from temperatures above: 50 °C

8. Exposure Controls/Personal Protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Breathing protection if breathable aerosols/dust are formed.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

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Body protection:

Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Wear protective clothing as necessary to minimize contact. Handle in accordance with good industrial hygiene and safety practice. No eating, drinking, smoking or tobacco use at the place of work. Handle in accordance with good industrial hygiene and safety practice.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	product specific	
Colour:	yellowish	
pH value:	10.5 - 12.0 (10 g/l, 23 °C)	(DIN 19268)
solidification point:	approx. -30 °C	(DIN ISO 3013)
Boiling point:	approx. 100 °C (1,013 hPa)	
Flash point:	> 100 °C	(DIN 51758)
Flammability:	not flammable	
Lower explosion limit:	For liquids not relevant for classification and labelling.	
Upper explosion limit:	For liquids not relevant for classification and labelling.	
Autoignition:	> 200 °C	(DIN 51794)
Vapour pressure:	approx. 24 mbar (20 °C)	
Density:	contains water 1.307 g/cm ³ (20 °C) 1.287 g/cm ³ (55 °C)	
Relative density:	No data available.	
Vapour density:	not determined	
Partitioning coefficient n- octanol/water (log Pow):	-13.2 (20 °C)	(calculated)
Self-ignition temperature:	Based on the water content the product does not ignite.	
Thermal decomposition:	not determined	
Viscosity, dynamic:	20 mPa.s (23 °C)	
Particle size:	The substance / product is marketed or used in a non solid or granular form.	
Solubility in water:	miscible	
Miscibility with water:	miscible in all proportions	
Evaporation rate:	Value can be approximated from Henry's Law Constant or vapor pressure.	
Other Information:	If necessary, information on other physical and chemical parameters is indicated in this section.	

10. Stability and Reactivity

Reactivity

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Corrosion to metals:
Corrosive effect on: Aluminium

Oxidizing properties:
not fire-propagating

Chemical stability

Possibility of hazardous reactions

The product is chemically stable.
Reacts with aluminum, with evolution of hydrogen.

Conditions to avoid

See MSDS section 7 - Handling and storage.

Incompatible materials

oxidizing agents
amphoteric metals, light metals

Hazardous decomposition products

Decomposition products:
Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:
not determined

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Acute toxicity

Assessment of acute toxicity: Of low toxicity after single ingestion. Virtually nontoxic after a single skin contact. Virtually nontoxic by inhalation.

Oral

Type of value: LD50
Species: rat
Value: > 2,000 - < 5,000 mg/kg (Directive 84/449/EEC, B.1)

Inhalation

Type of value: LC0
Species: rat
Value: > 5 mg/l
Exposure time: 4 h
No mortality was observed.

Dermal

Type of value: LD50
Species: rabbit

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Value: > 5,000 mg/kg (similar to OECD guideline 402)

Assessment other acute effects

Assessment of STOT single:

Based on the available information there is no specific target organ toxicity to be expected after a single exposure.

Irritation / corrosion

Assessment of irritating effects: Eye contact causes irritation. Not irritating to the skin.

Skin

Species: rabbit

Result: non-irritant

Method: Draize test

Eye

Species: rabbit

Result: Irritant..

Method: Draize test

Sensitization

Buehler test

Species: guinea pig

Result: Non-sensitizing.

Method: OECD Guideline 406

No sensitizing effect.

Aspiration Hazard

No aspiration hazard expected.

Chronic Toxicity/Effects

Repeated dose toxicity

Assessment of repeated dose toxicity: The substance may cause damage to the kidney after repeated ingestion. Based on available Data, the classification criteria are not met.

Genetic toxicity

Assessment of mutagenicity: Most of the results from the available studies show no evidence of a mutagenic effect.

Genetic toxicity in vitro: Mutagenicity tests revealed no genotoxic potential.

Carcinogenicity

Information on: trisodium nitrilotriacetate

Assessment of carcinogenicity: Indication of possible carcinogenic effect in animal tests.

IARC (International Agency for Research on Cancer) has classified this substance as group 2B (The agent is possibly carcinogenic to humans).

Reproductive toxicity

Assessment of reproduction toxicity: The results of animal studies gave no indication of a fertility impairing effect.

Teratogenicity

Assessment of teratogenicity: No indications of a developmental toxic / teratogenic effect were seen in animal studies.

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Symptoms of Exposure

Eye irritation, gastrointestinal complaints, kidney damage

12. Ecological Information

Toxicity

Toxicity to fish

LC50 (96 h) > 100 mg/l, Pimephales promelas (APHA 1971, Flow through.)

Aquatic invertebrates

EC50 (96 h) > 10 - < 100 mg/l, Gammarus sp.

Literature data.

Aquatic plants

EC50 (72 h) > 10 - < 100 mg/l (growth rate), Scenedesmus subspicatus (Guideline 92/69/EEC, C.3)

Chronic toxicity to fish

No observed effect concentration (224 d) > 1 mg/l, Pimephales promelas (Flow through.)

Literature data.

Chronic toxicity to aquatic invertebrates

No observed effect concentration (147 d) > 1 mg/l, Gammarus sp. (Flow through.)

Literature data.

Microorganisms/Effect on activated sludge

Toxicity to microorganisms

static

bacterium/EC50 (8 h): > 100 mg/l

Inhibition of degradation activity in activated sludge is not to be anticipated during correct introduction of low concentrations.

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Readily biodegradable (according to OECD criteria).

Elimination Information

Information on: trisodium nitrilotriacetate

100 % DOC reduction (14 d) (Directive 84/449/EEC, C.3) (aerobic)

Bioaccumulative potential

Assessment bioaccumulation potential

Does not significantly accumulate in organisms.

Bioaccumulation potential

Information on: trisodium nitrilotriacetate

Bioaccumulation factor < 3 (96 h). Bioaccumulation ratio (measured)

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Mobility in soil

Assessment transport between environmental compartments

The substance will not evaporate into the atmosphere from the water surface.

Adsorption to solid soil phase is not expected.

Additional information

Sum parameter

Theoretical Oxygen Demand (ThOD): 228 mg/g

Adsorbable organically-bound halogen (AOX):

This product contains no organically-bound halogen.

Add. remarks environm. fate & pathway:

Treatment in biological waste water treatment plants has to be performed according to local and administrative regulations.

Other ecotoxicological advice:

The product has not been tested. The statements on ecotoxicology have been derived from the properties of the individual components. Do not release untreated into natural waters.

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in accordance with national, state and local regulations.

RCRA: D002

14. Transport Information

Land transport

USDOT

May be transported as non hazardous under USDOT in approved packaging.

Sea transport

IMDG

Hazard class: 8

Packing group: III

ID number: UN 3267

Hazard label: 8

Marine pollutant: NO

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains NITRILOTRIACETIC ACID NA3-SALT) CORROSIVE ON ALUMINIUM

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Air transport

IATA/ICAO

Hazard class: 8

Packing group: III

ID number: UN 3267

Hazard label: 8

Proper shipping name: CORROSIVE LIQUID, BASIC, ORGANIC, N.O.S. (contains NITRILOTRIACETIC ACID NA3-SALT) CORROSIVE ON ALUMINIUM

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Refer to SDS section 2 for GHS hazard classes applicable for this product.

<u>CERCLA RQ</u>	<u>CAS Number</u>	<u>Chemical name</u>
5000 LBS	67-56-1	Methanol
1000 LBS	75-07-0; 1310-73-2	acetaldehyde; Sodium Hydroxide
100 LBS	7664-41-7; 50-00-0	ammonia; Formaldehyde
10 LBS	143-33-9	Sodium Cyanide

State regulations

<u>State RTK</u>	<u>CAS Number</u>	<u>Chemical name</u>
NJ	1310-73-2	Sodium Hydroxide
PA	1310-73-2	Sodium Hydroxide

Safe Drinking Water & Toxic Enforcement Act, CA Prop. 65:

WARNING: This product can expose you to chemicals including FORMALDEHYDE (GAS), which is known to the State of California to cause cancer, and METHANOL, which is known to the State of California to cause birth defects or other reproductive harm. For more information, go to www.P65Warnings.ca.gov.

[Other Prop 65 components may be present in the product.]

NFPA Hazard codes:

Health: 2 Fire: 1 Reactivity: 0 Special:

HMIS III rating

Health: 2⁺ Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2018/02/05

Safety Data Sheet

Trilon® A Liquid

Revision date : 2018/02/05

Version: 3.0

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(30043430/SDS_GEN_US/EN)

We support worldwide Responsible Care® initiatives. We value the health and safety of our employees, customers, suppliers and neighbors, and the protection of the environment. Our commitment to Responsible Care is integral to conducting our business and operating our facilities in a safe and environmentally responsible fashion, supporting our customers and suppliers in ensuring the safe and environmentally sound handling of our products, and minimizing the impact of our operations on society and the environment during production, storage, transport, use and disposal of our products.

Trilon® A Liquid is a registered trademark of BASF Corporation or BASF SE

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END OF DATA SHEET



We create chemistry

Safety Data Sheet

Trilon® BFA Liquid

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(30235602/SDS_GEN_US/EN)

1. Identification

Product Identifier used on the label

Trilon® BFA Liquid

Recommended use of the chemical and restriction on use

Recommended use*: Chemical

* The "Recommended use" identified for this product is provided solely to comply with a Federal requirement and is not part of the seller's published specification. The terms of this Safety Data Sheet (SDS) do not create or infer any warranty, express or implied, including by incorporation into or reference in the seller's sales agreement.

Details of the supplier of the safety data sheet

Company:

BASF CORPORATION

100 Park Avenue

Florham Park, NJ 07932, USA

Telephone: +1 973 246-6000

Emergency telephone number

CHEMTREC: 1-800-424-9300

BASF HOTLINE: 1-800-832-HELP (4357)

Other means of identification

Synonyms: FERRIC AMMONIUM EDTA

2. Hazards Identification

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Classification of the product

Acute Tox.	4 (Inhalation - mist)	Acute toxicity
Skin Corr./Irrit.	2	Skin corrosion/irritation
Eye Dam./Irrit.	2A	Serious eye damage/eye irritation
Aquatic Acute	3	Hazardous to the aquatic environment - acute

Label elements

Pictogram:

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Signal Word:
Warning

Hazard Statement:

H319	Causes serious eye irritation.
H315	Causes skin irritation.
H332	Harmful if inhaled.
H402	Harmful to aquatic life.

Precautionary Statements (Prevention):

P271	Use only outdoors or in a well-ventilated area.
P280	Wear protective gloves and eye/face protection.
P261	Avoid breathing mist.
P260	Do not breathe mist or vapour.
P273	Avoid release to the environment.
P264	Wash with plenty of water and soap thoroughly after handling.

Precautionary Statements (Response):

P312	Call a POISON CENTER or doctor/physician if you feel unwell.
P305 + P351 + P338	IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing.
P304 + P340	IF INHALED: Remove person to fresh air and keep comfortable for breathing.
P303 + P362	IF ON SKIN (or hair): Wash with plenty of soap and water.
P332 + P313	If skin irritation occurs: Get medical advice/attention.
P337 + P311	If eye irritation persists: Call a POISON CENTER or doctor/physician.
P362 + P364	Take off contaminated clothing and wash before reuse.

Precautionary Statements (Disposal):

P501	Dispose of contents/container to hazardous or special waste collection point.
------	---

Hazards not otherwise classified

No specific dangers known, if the regulations/notes for storage and handling are considered.

Labeling of special preparations (GHS):

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % dermal

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % oral

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % Inhalation - vapour

The following percentage of the mixture consists of components(s) with unknown hazards regarding the acute toxicity: 0 - 1 % Inhalation - mist

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

Emergency overview

WARNING:
Causes eye irritation.

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Trilon® BFA Liquid

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(30235602/SDS_GEN_US/EN)

MAY BE HARMFUL IF SWALLOWED.
MAY CAUSE RESPIRATORY TRACT IRRITATION.
Use with local exhaust ventilation.
Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.
Wear NIOSH-certified chemical goggles.
Wear protective clothing.
Wear chemical resistant protective gloves.
Eye wash fountains and safety showers must be easily accessible.

3. Composition / Information on Ingredients

According to Regulation 2012 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
21265-50-9	50.0 - 51.0%	Ferric Ammonium EDTA
1336-21-6	0.1 - 0.3%	Ammonium hydroxide

According to Regulation 1994 OSHA Hazard Communication Standard; 29 CFR Part 1910.1200

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
21265-50-9	50.0 - 51.0%	Ferric Ammonium EDTA
1336-21-6	0.1 - 0.3%	Ammonium hydroxide

<u>CAS Number</u>	<u>Weight %</u>	<u>Chemical name</u>
5064-31-3	$\geq 0.0001 - \leq 0.09\%$	trisodium nitrilotriacetate

4. First-Aid Measures

Description of first aid measures

General advice:

Immediately remove contaminated clothing.

If inhaled:

Keep patient calm, remove to fresh air, seek medical attention.

If on skin:

Wash affected areas thoroughly with soap and water. Seek medical attention. Remove contaminated clothing.

If in eyes:

Immediately wash affected eyes for at least 15 minutes under running water with eyelids held open, consult an eye specialist.

If swallowed:

Rinse mouth and then drink plenty of water. Do not induce vomiting. Immediate medical attention required.

Most important symptoms and effects, both acute and delayed

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Indication of any immediate medical attention and special treatment needed

Note to physician

Treatment:

Treat according to symptoms (decontamination, vital functions), no known specific antidote.

5. Fire-Fighting Measures

Extinguishing media

Suitable extinguishing media:
water spray, dry powder, foam

Special hazards arising from the substance or mixture

Hazards during fire-fighting:

harmful vapours

Evolution of fumes/fog. The substances/groups of substances mentioned can be released in case of fire.

Advice for fire-fighters

Protective equipment for fire-fighting:

Wear a self-contained breathing apparatus in confined areas or when exposed to combustion products.

Further information:

Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Further accidental release measures:

Pack in tightly closed containers for disposal.

Personal precautions, protective equipment and emergency procedures

Use personal protective clothing. Information regarding personal protective measures see, section 8.

Environmental precautions

Do not discharge into drains/surface waters/groundwater.

Methods and material for containment and cleaning up

For small amounts: Pick up with absorbent material (e.g. sand, sawdust, general-purpose binder).

Dispose of absorbed material in accordance with regulations.

For large amounts: Pump off product.

Spills should be contained, solidified, and placed in suitable containers for disposal.

7. Handling and Storage

Precautions for safe handling

Keep container tightly closed. Protect from the effects of light.

Protection against fire and explosion:

No special precautions necessary

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Conditions for safe storage, including any incompatibilities

Segregate from acids and bases. Segregate from strong oxidizing agents.

Suitable materials for containers: High density polyethylene (HDPE), Low density polyethylene (LDPE)

Further information on storage conditions: Keep container tightly closed and in a cool place. Substance/product should be mixed and applied only in stainless steel, fiberglass, or plastic containers.

8. Exposure Controls/Personal Protection

Advice on system design:

Provide local exhaust ventilation to control vapours/mists.

Personal protective equipment

Respiratory protection:

Wear a NIOSH-certified (or equivalent) organic vapour/particulate respirator.

Hand protection:

Chemical resistant protective gloves

Eye protection:

Tightly fitting safety goggles (chemical goggles) and face shield.

Body protection:

Impermeable protective clothing

General safety and hygiene measures:

Handle in accordance with good industrial hygiene and safety practice. Keep away from food, drink and animal feeding stuffs. Avoid contact with skin and eyes. Remove contaminated clothing.

9. Physical and Chemical Properties

Form:	liquid	
Odour:	ammonia-like	
Colour:	dark red	
pH value:	7.5 - 8.5	
Boiling point:	> 300 °F	
Flash point:	> 100 °C	(ASTM D93)
	The product has not been tested. The statement has been derived from substances/products of a similar structure or composition.	
Vapour pressure:	< 0.35 mmHg	
	(20 °C)	
Density:	approx. 1.285 - 1.305 g/cm ³	
	(20 °C)	
Relative density:	1.270 - 1.305	
	(20 °C)	
Thermal decomposition:	No data available.	
Solubility in water:	soluble	
Molar mass:	397.15 g/mol	

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(30236602/SDS_GEN_US/EN)

10. Stability and Reactivity

Reactivity

Corrosion to metals:
carbon steel (iron)

Chemical stability

Possibility of hazardous reactions

No hazardous reactions when stored and handled according to instructions.
The product is chemically stable.

Conditions to avoid

No data available.

Incompatible materials

No data available.

Hazardous decomposition products

Decomposition products:

Hazardous decomposition products: No hazardous decomposition products if stored and handled as prescribed/indicated.

Thermal decomposition:

No data available.

11. Toxicological information

Primary routes of exposure

Routes of entry for solids and liquids are ingestion and inhalation, but may include eye or skin contact. Routes of entry for gases include inhalation and eye contact. Skin contact may be a route of entry for liquefied gases.

Acute Toxicity/Effects

Oral

Type of value: LD50

Species: rat

Value: > 5,000 mg/kg

Slightly toxic to practically nontoxic.

Inhalation

Type of value: ATE

Value: > 20,000 mg/l

Determined for vapor

Type of value: ATE

Value: > 5,000 mg/l

Determined for mist

Dermal

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Value: > 5,000 mg/kg

Skin

Species: rabbit

Result: Irritating.

Method: Primary skin irritation test

Eye

Species: rabbit

Result: Irritating.

Chronic Toxicity/Effects

Symptoms of Exposure

Medical conditions aggravated by overexposure

Data available do not indicate that there are medical conditions that are generally recognized as being aggravated by exposure to this substance/product. See MSDS section 11 - Toxicological information.

12. Ecological Information

Toxicity

Toxicity to fish

LC50 (96 h) 475 mg/l, *Lepomis macrochirus* (static)

Persistence and degradability

Assessment biodegradation and elimination (H2O)

Experience has shown that the product is difficult to eliminate in effluent treatment plants.

Additional information

Sum parameter

Biochemical oxygen demand (BOD) Incubation period 5 d: 0.01 mg/g

13. Disposal considerations

Waste disposal of substance:

Dispose of in accordance with national, state and local regulations. It is the waste generator's responsibility to determine if a particular waste is hazardous under RCRA.

Container disposal:

Dispose of in a licensed facility. Recommend crushing, puncturing or other means to prevent unauthorized use of used containers.

14. Transport Information

Land transport

USDOT

Not classified as a dangerous good under transport regulations

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Sea transport IMDG

Not classified as a dangerous good under transport regulations

Air transport IATA/ICAO

Not classified as a dangerous good under transport regulations

15. Regulatory Information

Federal Regulations

Registration status:

Chemical TSCA, US released / listed

EPCRA 311/312 (Hazard categories): Acute;

NFPA Hazard codes:

Health : 2 Fire : 1 Reactivity: 0 Special:

HMIS III rating

Health: 2 Flammability: 1 Physical hazard: 0

16. Other Information

SDS Prepared by:

BASF NA Product Regulations

SDS Prepared on: 2015/05/28

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PROCESSING OR APPLICATION/USE, WE RECOMMEND THAT YOU MAKE TESTS TO
DETERMINE THE SUITABILITY OF A PRODUCT FOR YOUR PARTICULAR PURPOSE PRIOR
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WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE
MADE REGARDING PRODUCTS DESCRIBED OR DESIGNS, DATA OR INFORMATION SET
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END OF DATA SHEET

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste ProfileProfile # **01351****GENERATOR INFORMATION**

Name: [REDACTED] USEPA ID # [REDACTED]
Facility Address: [REDACTED] SIC/NAICS Code: [REDACTED] State Code: [REDACTED]
City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
Contact: [REDACTED] Title: [REDACTED] Phone: [REDACTED] Fax: () [REDACTED]

BILLING INFORMATION☐ SAME AS ABOVE

Company Name: [REDACTED]
Address: [REDACTED]
City: [REDACTED] State: [REDACTED] Zip Code: [REDACTED]
Attention: [REDACTED] Phone: [REDACTED] Fax: () [REDACTED]

WASTE INFORMATION

Name of Waste/Common Chemical Name:

Ethylene Diamine + Water

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

TSE accumulation of tank and line cleaning from product tank.**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: <input type="checkbox"/> White/Clear <input type="checkbox"/> Black/Brown <input checked="" type="checkbox"/> Other <u>Yellow</u>	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<u>acceptable</u> <u>05.18.18</u>
--	--	---	--	--------------------------------------

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

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
EDA	15	25			
Water	75	75			

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

☐ Lab Analysis ☒ Generator Knowledge☐ TCLP ☐ TOTAL

	Not Present	Concentration		Not Present	Concentration
PCB	<input type="checkbox"/>	ppm	Aromatic Amine	<input type="checkbox"/>	ppm
Dioxins	<input type="checkbox"/>	ppm	Pesticides	<input type="checkbox"/>	ppm
Cyanides Reactive	<input type="checkbox"/>	ppm	Rodenticides	<input type="checkbox"/>	ppm
Cyanides Total	<input type="checkbox"/>	ppm	Fungicides	<input type="checkbox"/>	ppm
Sulfides Reactive	<input type="checkbox"/>	ppm			
Sulfides Total	<input type="checkbox"/>	ppm			

Arsenic (As)	D004	<input type="checkbox"/>	< 5	ppm	ppm
Barium (Ba)	D005	<input type="checkbox"/>	< 100	ppm	ppm
Cadmium (Cd)	D006	<input type="checkbox"/>	< 1	ppm	ppm
Chromium (Cr)	D007	<input type="checkbox"/>	< 5	ppm	ppm
Lead (Pb)	D008	<input type="checkbox"/>	< 5	ppm	ppm
Mercury (Hg)	D009	<input type="checkbox"/>	< 0.2	ppm	ppm
Selenium (Se)	D010	<input type="checkbox"/>	< 1	ppm	ppm
Silver (Ag)	D011	<input type="checkbox"/>	< 5	ppm	ppm

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

IS WASTE ANY OF THE FOLLOWING?

At Least One Box Must Be Checked.

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

SHIPPING INFORMATION

1. Is this a DOT Hazardous Material (49CFR 172.101 & 173 Subpart D)? ☒ Yes ☐ No2. Reportable Quantity (RQ) in pounds 100 lbs3. DOT Shipping Name Waste Corrosive liquid basic organic Hazard Class 8 UN/NA 413267PG 11 ERG 153 Hazardous Constituents for "n.o.s." Ethylbenzene, toluene, xylene4. Method of Shipment: ☒ Bulk Tanker ☐ Vac truck ☐ Rail Car ☐ Drums ☒ Totes5. Number of Units to Ship Now: 1-11 6. Anticipated Volume / Units per Year: 3000 gal 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: _____

Title: _____

Generator's Signature: _____

Date: _____

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

1. 2 SAMPLING METHOD COLLECTION POINT

3. SAMPLE COLLECTOR'S NAME, TITLE, EMPLOYER

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

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

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

FINGERPRINT FORM

01351

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/16/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	EDA-H ₂ O
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

Compatible? (RT#) <i>bas</i>	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	13.8	Sodium Chloride	
Cyanides? (mg/L)	230	Bicarbonate	
Sulfides? (ppm)	2200	Carbonate	
Specific Gravity	1.00	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	66°F		
Conductivity	1mS		
% Solids	6%		
Turbidity	Yes (No)		
Color (visual)	slight gold		
TSS (%)	20.1%		
Radiation Screen (as needed)	negative		
Lab Signature	<i>[Signature]</i>		

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC

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

Generator Waste Profile**Profile # 01352****GENERATOR INFORMATION**

Name: _____ USEPA ID# _____

Facility Address: _____ SIC/NAICS Code: _____ State Code: _____

City: _____ State: _____ Zip Code: _____

Contact: _____ Title: _____ 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:

Leachate & Gas well liquid/condensate

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

Facility is surface disposal facility and collect leachate by collection pipes. Additional landfill gas wells are installed with extractors to collect landfill gas by vacuum wells and latrine collection system. wells pumps are installed landfill gas wells to remove liquid and gas condensate is collected as by product of LFG collection

USEPA / STATE WASTE IDENTIFICATION1. This waste is considered to be: ☒ Non Hazardous Liquid Industrial Waste ☐ Hazardous Waste2. Regulated by TSCA? ☐ Yes ☒ No (PCBs, etc.)3. List ALL Applicable Waste Codes: 029L**PHYSICAL CHARACTERISTICS OF WASTE**

Color: <input type="checkbox"/> White/Clear <input checked="" type="checkbox"/> Black/Brown <input type="checkbox"/> Other _____	Suspended Solids <input checked="" type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5 %	Layers: <input type="checkbox"/> Multi-Layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity: <input type="checkbox"/> <0.8 <input checked="" type="checkbox"/> 1.0 - 1.2 <input type="checkbox"/> 0.8 - 1.0 <input type="checkbox"/> 1.3 - 1.4 Exact / Other _____	<u>acceptable</u> <u>10</u> <u>05/6/18</u>
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pH: ☐ NA ☐ ≤ 2 ☐ 2 - 4 ☒ 4 - 6 ☐ 6 - 8 ☐ 8 - 10 ☐ 10 - 12.5 ☐ ≥ 12.5Liquid Flash Point: ☐ <73°F ☐ 73 - 100°F ☐ 101 - 140°F ☐ 141 - 200°F ☒ >200°F ☐ None ☒ Closed Cup ☐ Open CupVOC CONCENTRATION - -0- PPM (MUST BE COMPLETED)

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

CONSTITUENT	MAX	MIN	CONSTITUENT	MAX	MIN
Leachate	100	99			%
Gases	1	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	<input checked="" type="checkbox"/>	ppm	Aromatic Amine	<input checked="" type="checkbox"/>	ppm
Dioxins	<input checked="" type="checkbox"/>	ppm	Pesticides	<input checked="" type="checkbox"/>	ppm
Cyanides Reactive	<input checked="" type="checkbox"/>	ppm	Rodenticides	<input checked="" type="checkbox"/>	ppm
Cyanides Total	<input checked="" type="checkbox"/>	ppm	Fungicides	<input checked="" type="checkbox"/>	ppm
Sulfides Reactive	<input checked="" type="checkbox"/>	ppm			
Sulfides Total	<input checked="" type="checkbox"/>	ppm			

Arsenic (As)	D004	<input checked="" type="checkbox"/>	< 5	ppm	3.21 ppm
Berium (Ba)	D005	<input checked="" type="checkbox"/>	< 100	ppm	0.34 ppm
Cadmium (Cd)	D006	<input checked="" type="checkbox"/>	< 1	ppm	0.009 ppm
Chromium (Cr)	D007	<input checked="" type="checkbox"/>	< 5	ppm	0.29 ppm
Lead (Pb)	D008	<input checked="" type="checkbox"/>	< 5	ppm	0.033 ppm
Mercury (Hg)	D009	<input checked="" type="checkbox"/>	< 0.2	ppm	0.06 ppm
Selenium (Se)	D010	<input checked="" type="checkbox"/>	< 1	ppm	0.01 ppm
Silver (Ag)	D011	<input checked="" type="checkbox"/>	< 5	ppm	0.05 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 Waste NON-RCRA, NON-DOT material Hazard Class UN/NAPG ERG Hazardous Constituents for "n.o.s." _____4. Method of Shipment: ☒ Bulk Tanker ☒ Vac truck ☒ Rail Car ☐ Drums ☐ Totes5. Number of Units to Ship Now: _____ 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: _____ Title: _____

Generator's Signature: _____ Date: _____

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

1. GRAB 2. NE FRAC TANK
 SAMPLING METHOD COLLECTION POINT

3. [REDACTED]
SAMPLE COLLECTOR'S NAME4. Sample No. _____ Preservation: Yes ☐ No ☒

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

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

FINGERPRINT FORM

ENVIRONMENTAL GEO-TECHNOLOGIES, LLC.

RECEIVING & APPROVAL FORM

Date	5/18/18
Receiving ID#	
Manifest# Line:	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	Leasdale
Transporter	
Time in	
Time out	
Received by	PS
Sampled by	

Compatible? (RT#)	(Yes) No	Barium	
PCBs (ppm)(Oily Waste Only)?	N/A	Calcium	
TOC (ppm)(CC Waste Only)?	N/A	Total Iron	
Flash Point (°F)	>140°F	Magnesium	
pH (S.U.)	6.5	Sodium Chloride	
Cyanides? (mg/L)	<30	Bicarbonate	
Sulfides? (ppm)	<200	Carbonate	
Specific Gravity	1.01	TDS	
Physical Description	liquid	Resistivity	
Stream Consistency	(Yes) No	Sulfate	
Oil in Sample	Yes (No)		
Temperature	69°F		
Conductivity	21 uS		
% Solids	1%		
Turbidity	(Yes) No		
Color (visual)	brown		
TSS (%)	<1%		
Radiation Screen (as needed)	negative		
Lab Signature	