

April 5th, 2023

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

Re: RIES Monthly Report

Dear Mr. Andrew Greenhagen:

Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the hundred and eighth Monthly Report ("MR") in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011). RIES is providing all the attached information in the same sequence as required by both subject permits, i.e. Part II. D.1 (a-i), Part III, Attachment A, and Part III, Attachment E.G.2 & E.I.

RIES accepted F039 waste in January of 2023 so as stated on page A-3 of 3 of RIES's two EPA UIC permits an analysis is required and is included in this report.

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

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

Sincerely,

John K∕Frost

co: Rick Sauve (Republic Services)



### Calculation of Average Injection Rate

CURRENT REPORTING YEAR	2023
CURRENT REPORTING MONTH	January _
Date (month, year) of the first injection	on into either well at the Citrin Road Facility
November 2013	

### CURRENT MONTH (all volumes in gallons)

	Injected Waste	Injected Non-Waste	Total injected
MI	-163-1W-C010, v	Well #1-12	
Current Month	607,420	0	607,420
Since facility first injected			51,366,460
M	Well #2-12		
Current Month	735,180	0	735,180
Since facility first injected			31,612,583
		Lifetime Combined	82,979,043

# 

WELL 1 DATA



					Injection	Injection Well 1, January 2023	y 2023				,	
	Injection Pro	Injection Pressure (psig)	Annulus Tan	Annulus Tank Level (inch)	Annulus Pressure (psig)	ssure (psig)	Injecti	Injection pH	Flow Ra	Flow Rate (gpm)	Differential P	Differential Pressure (psig)
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
1/1/2023	102.9	108.5	22.7	22.8	905.2	902.6	7.1	7.3	0.0	0.0	796.7	804.2
1/2/2023	99.5	103.1	22.7	22.8	901.7	0.706	7.0	7.1	0.0	0.0	801.9	804.3
1/3/2023	98.2	941.5	22.7	22.8	899.1	1,178.4	6.8	7.7	0.0	25.8	184.6	803.2
1/4/2023	106.3	940.2	22.8	22.9	856.4	1,164.1	6.2	10.4	0.0	25.9	192.9	770.1
1/5/2023	105.7	940.1	22.8	22.9	855.0	1,168.9	6.4	9.6	0:0	23.1	207.2	766.3
1/6/2023	93.5	940.4	22.0	22.8	850.6	1,274.8	5.1	6.7	0.0	64.1	150.2	821.8
1/7/2023	28.9	905.3	21.9	22.0	978.1	1,308.0	3.5	7.6	0.0	64.1	328.3	983.9
1/8/2023	29.4	42.7	21.9	22.0	991.1	1,014.6	5.5	7.0	0.0	0.0	948.6	985.1
1/9/2023	25.6	939.1	21.9	22.0	1004.3	1,304.0	4.4	7.7	0.0	42.3	306.7	8.786
1/10/2023	115.3	939.8	21.9	22.0	987.2	1,293.4	6.9	7.4	0.0	40.5	266.5	888.1
1/11/2023	129.0	940.1	21.9	22.0	963.6	1,267.6	2.4	7.3	0.0	61.1	254.3	847.8
1/12/2023	128.8	939.4	22.0	22.0	955.5	1,276.8	1.9	9.9	0.0	40.1	288.2	845.1
1/13/2023	141.6	940.1	21.9	22.0	972.0	1,331.7	1.8	6.9	0:0	40.1	335.4	844.6
1/14/2023	121.5	157.0	21.9	22.0	970.9	9.686	5.8	5.9	0.0	0.0	815.6	867.8
1/15/2023	113.5	121.8	21.8	21.9	983.8	989.3	5.9	6.3	0.0	0.0	866.6	871.2
1/16/2023	96.6	939.5	21.8	22.0	967.0	1,268.3	1.9	8.9	0.0	39.3	266.1	886.3
1/17/2023	105.8	940.1	21.9	22.1	908.7	1,226.9	1.7	6.4	0.0	41.7	257.8	831.3
1/18/2023	117.1	938.5	22.0	22.1	865.9	1,235.8	1.5	9.9	0.0	72.4	265.3	816.6
1/19/2023	6.9	877.1	22.0	22.1	817.3	1,175.6	1.1	7.3	0.0	72.1	298.3	831.0
1/20/2023	114.3	939.5	22.0	22.1	880.6	1,208.9	2.1	1.7	0.0	51.5	268.7	786.4
1/21/2023	124.2	142.0	21.9	22.0	904.3	935.5	5.3	6.5	0.0	0.0	762.3	811.2
1/22/2023	116.9	124.5	21.9	22.0	932.2	935.7	5.8	0.9	0.0	0.0	810.4	816.2
1/23/2023	110.1	939.8	21.9	22.0	882.3	1,211.3	2.1	7.4	0.0	49.7	240.4	822.3
1/24/2023	120.2	940.0	21.9	22.0	724.6	1,200.0	1.7	9.8	0.0	50.2	159.4	784.1
1/25/2023	149.6	940.0	21.9	22.0	751.0	1203.8	1.9	8.0	0.0	70.9	155.3	717.5
1/26/2023	144.6	940.0	20.7	22.0	849.7	1391.4	1.6	7.4	0.0	2.09	149.7	870.6
1/27/2023	145.5	940.0	20.8	20.9	1053.7	1376.8	1.6	7.4	0.0	61.0	413.2	8.796
1/28/2023	139.5	160.1	20.8	20.8	1083.4	1131.0	6.8	7.2	0.0	0.0	923.3	991.4
1/29/2023	129.6	139.8	20.8	20.8	1127.5	1131.5	6.7	6.8	0.0	0.0	990.7	998.5
1/30/2023	126.5	939.5	20.7	20.8	1039.0	1382.0	1.8	7.8	0.0	49.5	377.1	1001.0
1/31/2023	137.9	940.2	20.7	20.8	1010.8	1333.4	1.9	7.9	0.0	49.3	355.6	940.1

### Circle Chart Index

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

### Chart Recorder #1

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #2

Channel #1

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

Channel #2

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

Channel #3

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

Channel #4

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

### Chart Recorder #3

Channel #1

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

Channel #2

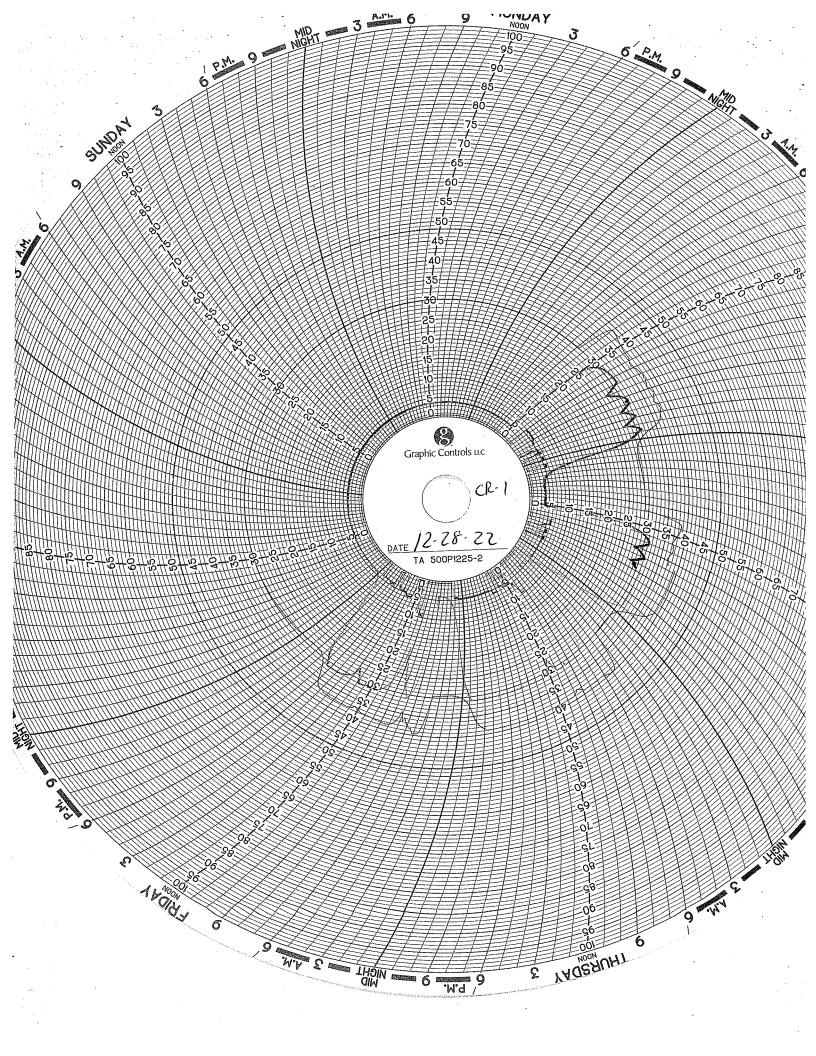
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

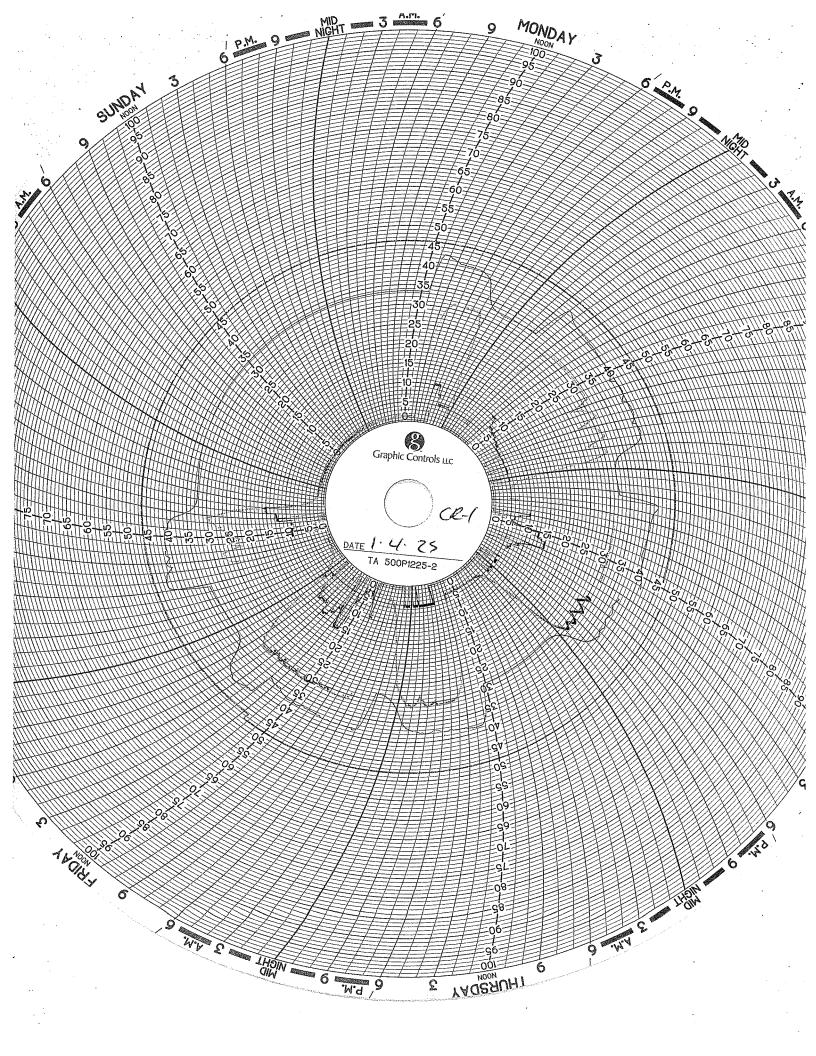
Channel #3

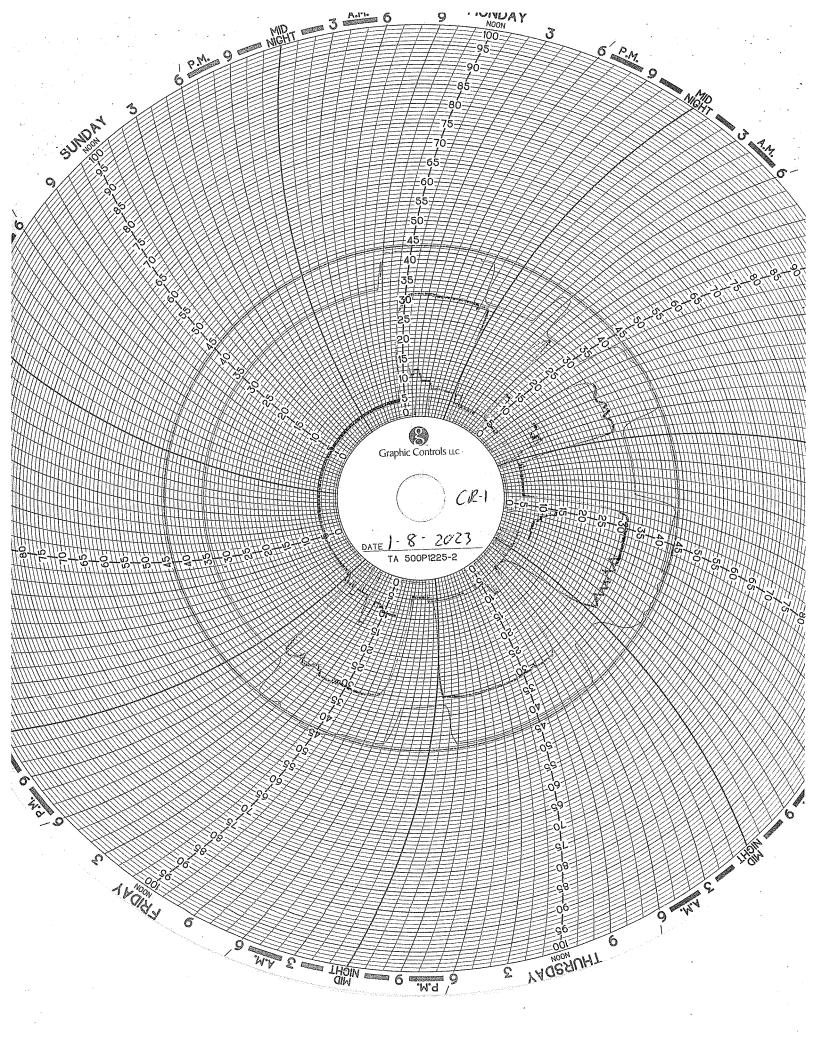
Green Pen – Well 2 Monthly Volume (chart value x 100,000)

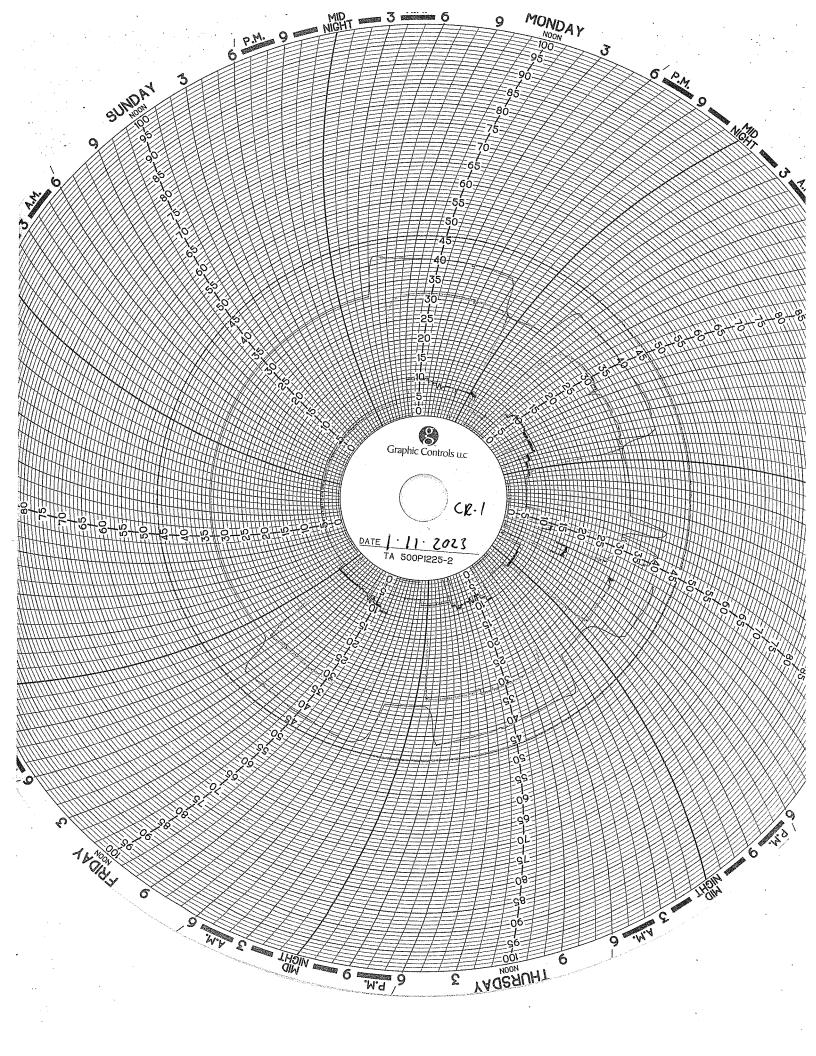
Channel #4

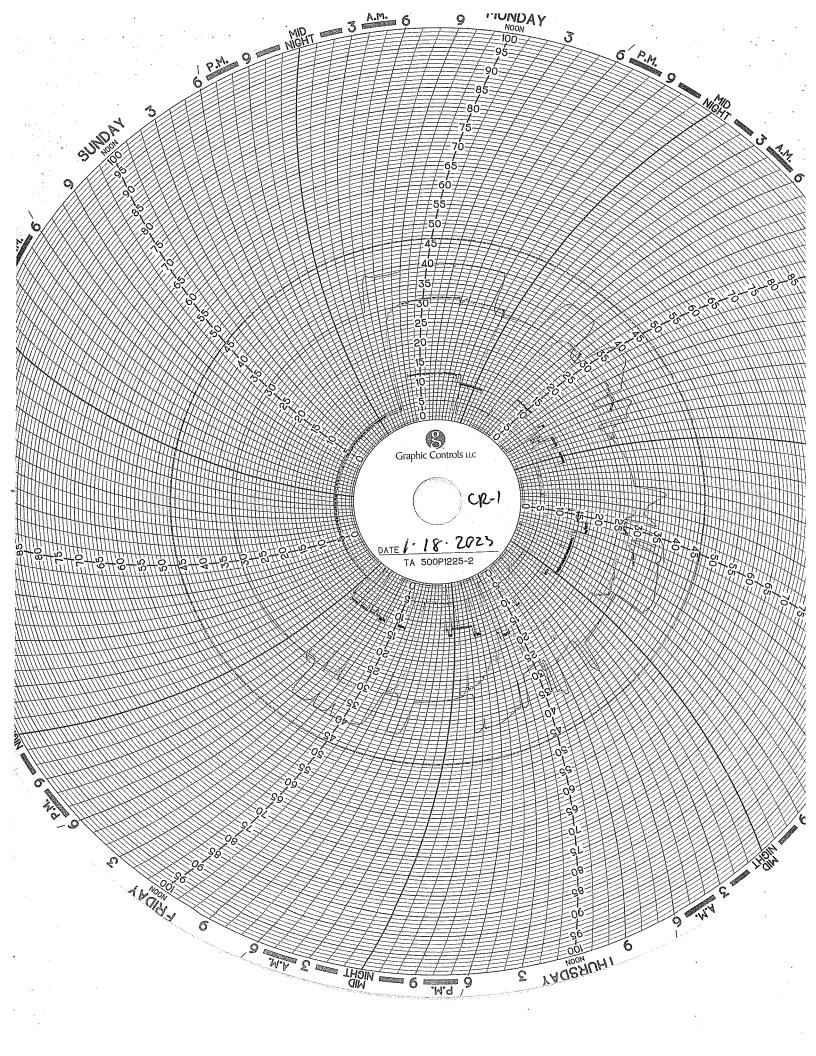
Black Pen – Temperature (chart value x 0)

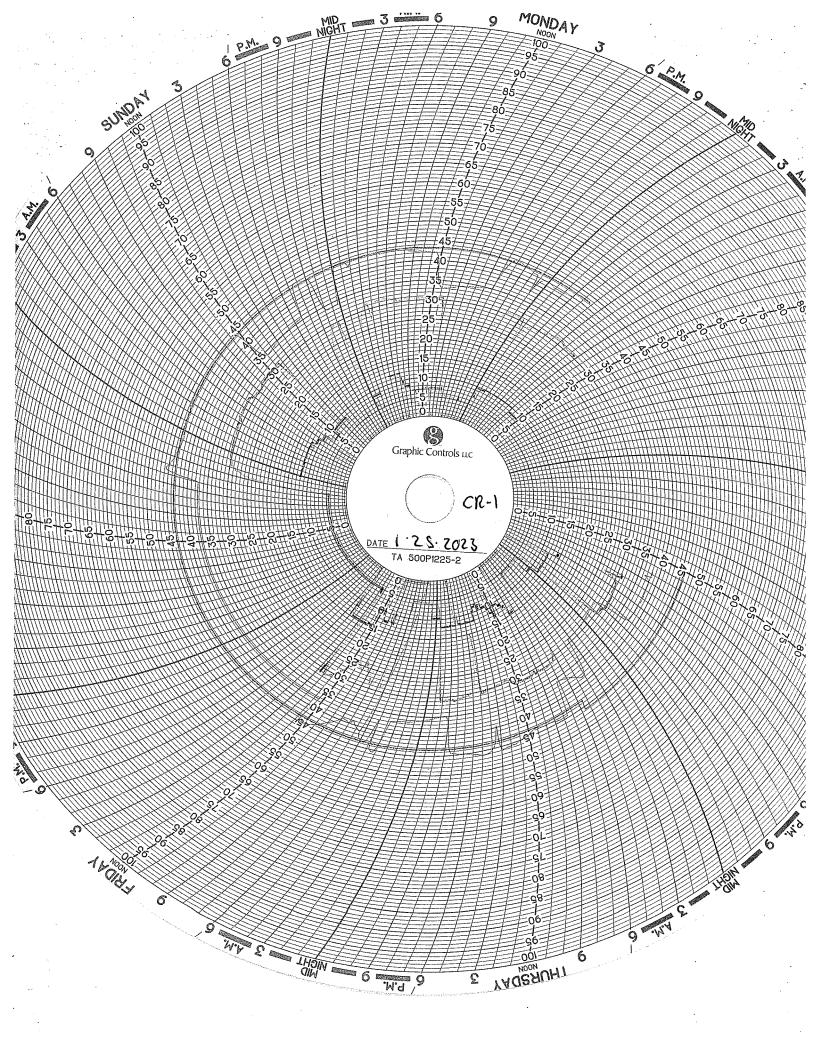












**WELL 2 DATA** 



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	essure (psig)	Max	965.6	972.5	975.0	934.6	937.2	901.5	983.1	996.1	1005.6	902.1	852.8	857.6	865.4	912.8	929.2	932.4	884.4	876.0	873.6	849.4	898.6	916.0	921.8	863.9	810.4	821.4	783.5	862.1	888.8	892.8	814.5
	Differential Pressure (psig)	Min	949.0	964.6	336.8	327.6	365.3	300.2	327.1	939.3	310.5	264.4	260.0	312.8	372.4	819.3	911.9	322.5	319.0	357.1	399.8	360.4	812.6	897.4	381.4	281.5	257.1	234.7	296.1	737.2	861.5	271.8	236.7
	e (gpm)	Max	0.0	0.0	27.4	27.9	27.1	68.8	63.4	0.0	41.4	41.1	61.0	44.8	51.1	0.0	0.0	52.9	51.5	72.1	72.9	62.2	0.0	0.0	52.7	62.5	72.1	66.4	62.2	0.0	0.0	61.5	51.5
	Flow Rate (gpm)	Min	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0:0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
	Injection pH	Max	7.3	7.1	7.7	10.4	9.6	7.9	7.6	7.0	7.5	7.4	7.3	9.9	6.9	5.9	5.9	8.9	6.4	9.9	2.3	7.7	6.5	0:9	5.7	8.6	8.0	7.4	4.7	7.2	8.9	7.8	7.9
ıry 2023	Inject	Min	7.1	7.0	6.8	6.2	6.4	5.0	3.5	5.5	4.4	6.9	2.5	1.9	1.8	5.8	6.3	1.9	1.6	1.5	1.1	2.1	5.3	5.8	2.2	1.7	1.9	1.6	1.6	6.8	6.7	1.8	1.9
Injection Well 2, January 2023	Annulus Pressure (psig)	Max	1073.2	1075.1	1,326.2	1,311.0	1,323.4	1,331.2	1,292.9	1,035.6	1,303.2	1,288.8	1,288.8	1,310.2	1,375.0	1,052.2	1,054.4	1,305.0	1,290.2	1,285.8	1,230.8	1,276.0	1,042.6	1,044.5	1,307.7	1,297.8	1259.8	1251.3	1240.4	1033.9	1036.8	1258.7	1223.2
Injectio	Annulus Pre	Min	1065.7	1072.7	1074.4	1030.3	1,032.5	1040.3	996.4	1,004.3	1035.2	1,012.3	989.3	998.3	1,028.7	1,027.7	1,051.8	1,054.2	982.5	940.0	927.0	981.8	1010.3	1,042.1	1,011.3	859.4	880.5	954.0	952.0	991.7	1033.5	9.096	921.7
	Annulus Tank Level (inch)	Max	30.6	30.6	30.6	30.7	30.7	30.7	30.6	30.6	30.5	30.6	30.6	30.7	30.6	30.6	30.4	30.6	30.7	30.7	30.7	30.7	30.7	30.5	30.6	30.6	30.6	30.7	30.6	30.6	30.5	30.5	30.5
	Annulus Tan	Min	30.6	30.6	30.6	30.6	30.6	30.6	30.6	30.5	30.5	30.5	30.5	30.6	30.5	30.4	30.4	30.4	30.5	30.6	30.6	30.6	30.5	30.5	30.4	30.6	30.5	30.6	30.5	30.5	30.4	30.4	30.4
	Injection Pressure (psig)	Мах	116.7	108.2	946.5	943.9	945.5	951.1	904.9	65.0	938.7	939.5	940.1	944.9	942.2	213.1	139.9	939.7	940.1	896.4	830.4	9.606	197.7	144.7	923.6	928.5	918.3	939.4	933.0	254.5	172.1	945.3	943.2
	Injection Pr	Min	107.5	102.4	100.0	116.7	114.7	138.8	32.3	39.4	34.0	128.4	150.9	157.0	172.4	139.3	125.1	122.5	126.6	155.4	114.7	168.0	144.0	128.4	122.7	165.2	187.0	197.4	222.4	171.8	147.9	144.1	186.1
			1/1/2023	1/2/2023	1/3/2023	1/4/2023	1/5/2023	1/6/2023	1/7/2023	1/8/2023	1/9/2023	1/10/2023	1/11/2023	1/12/2023	1/13/2023	1/14/2023	1/15/2023	1/16/2023	1/17/2023	1/18/2023	1/19/2023	1/20/2023	1/21/2023	1/22/2023	1/23/2023	1/24/2023	1/25/2023	1/26/2023	1/27/2023	1/28/2023	1/29/2023	1/30/2023	1/31/2023

### Circle Chart Index

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### Chart Recorder #1

Channel #1

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Channel #3

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

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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

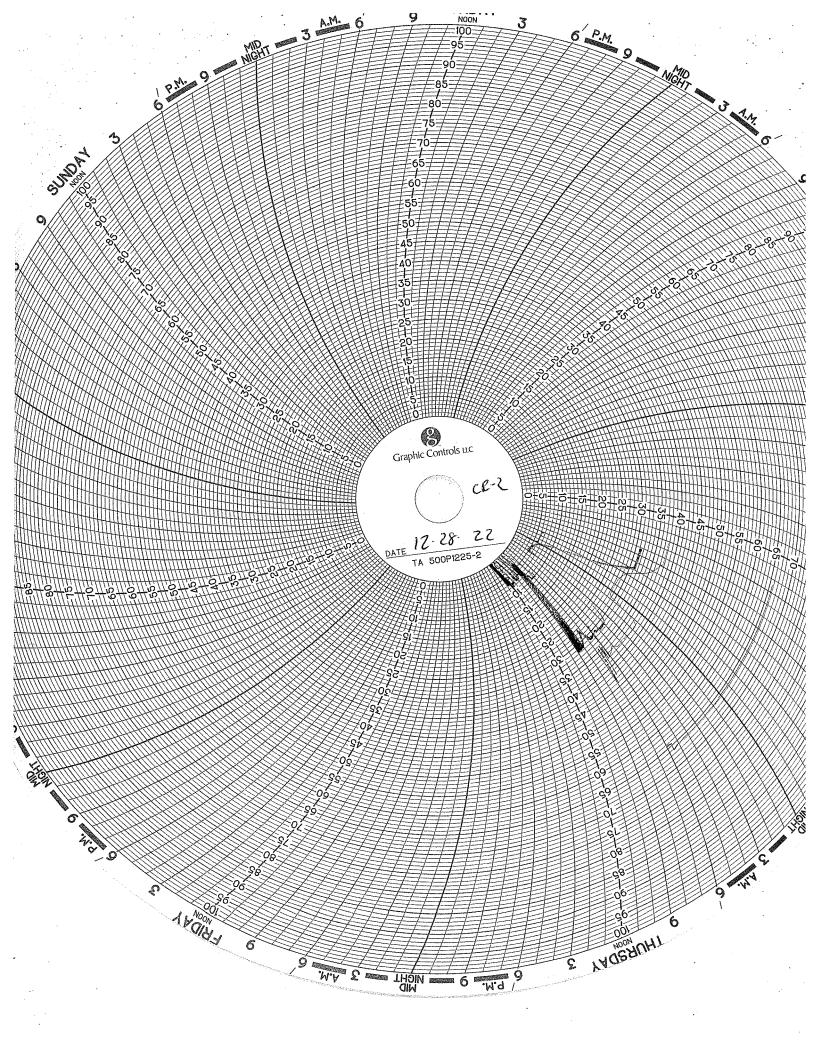
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

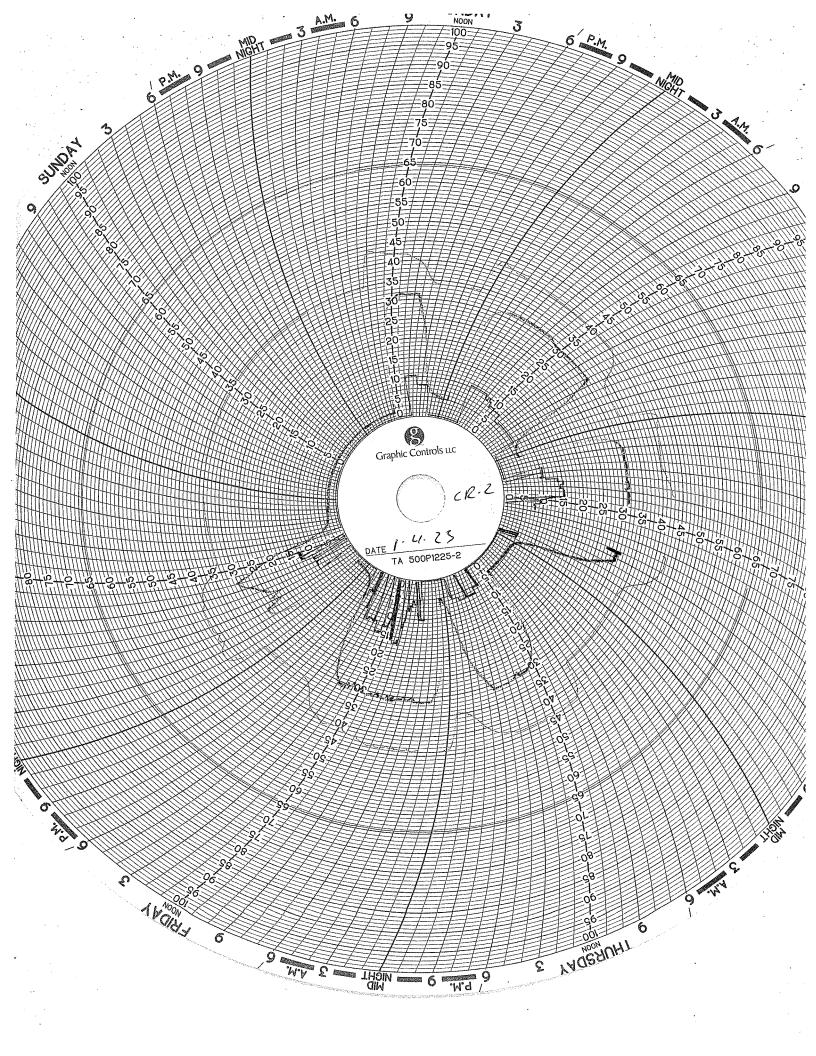
Channel #3

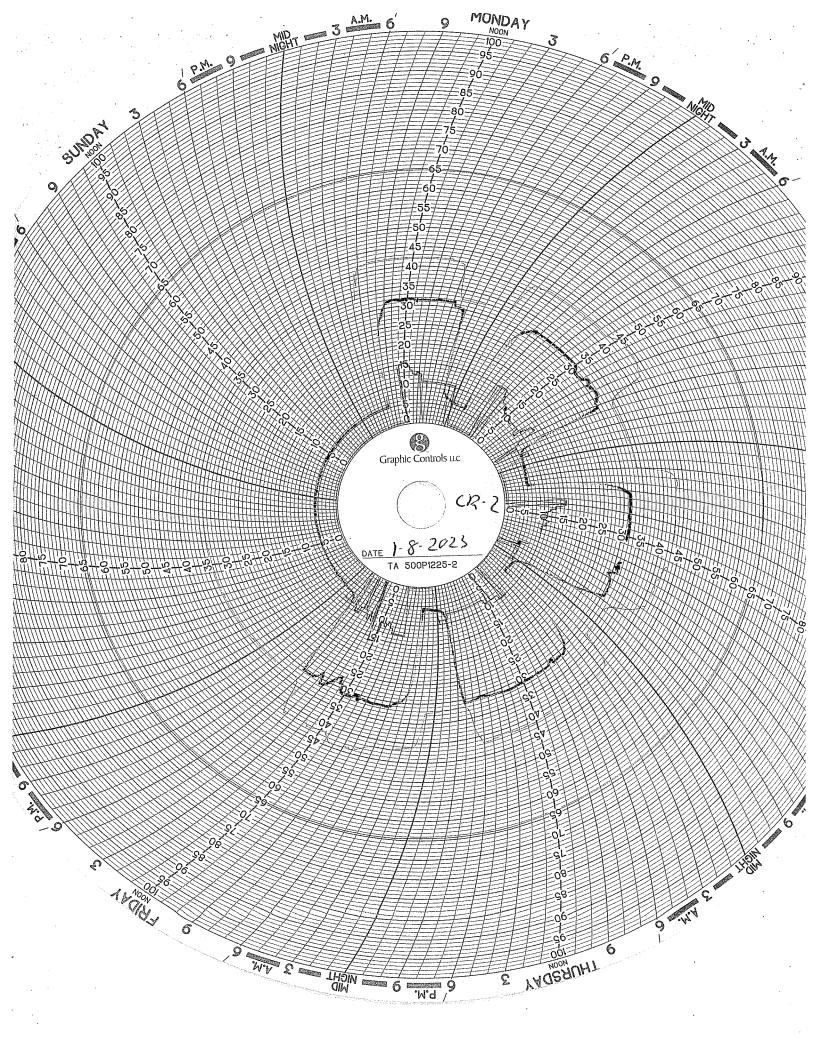
Green Pen – Well 2 Monthly Volume (chart value x 100,000)

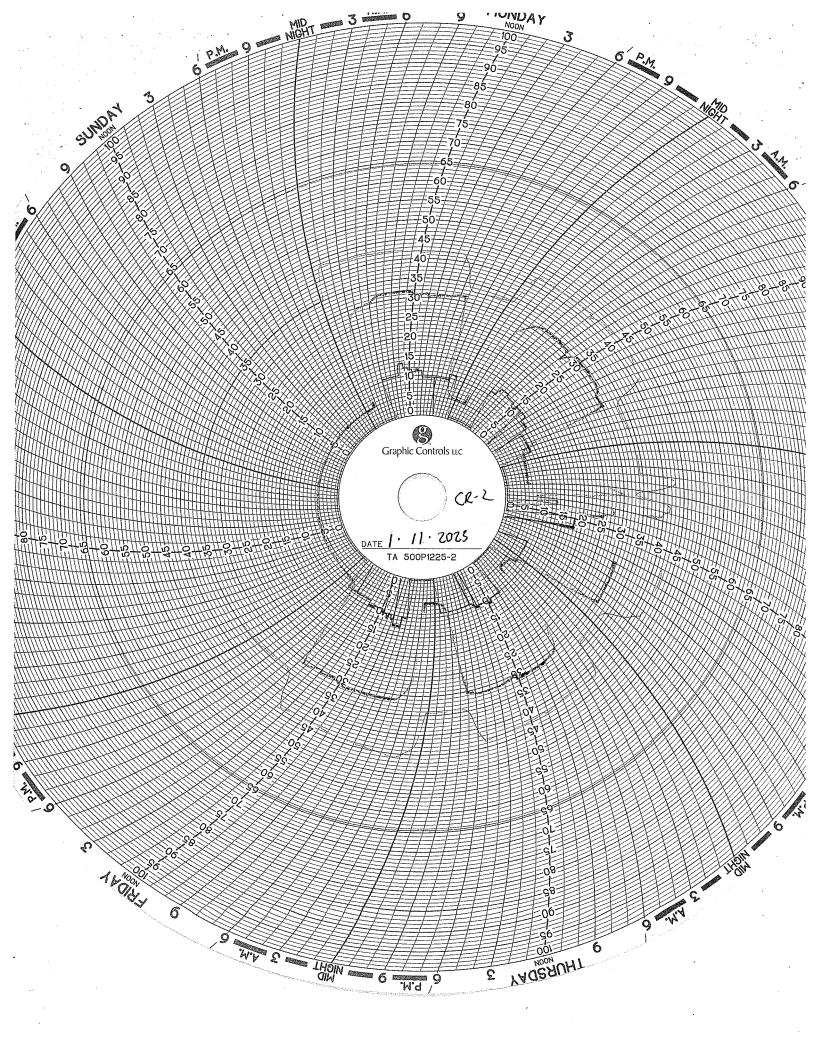
Channel #4

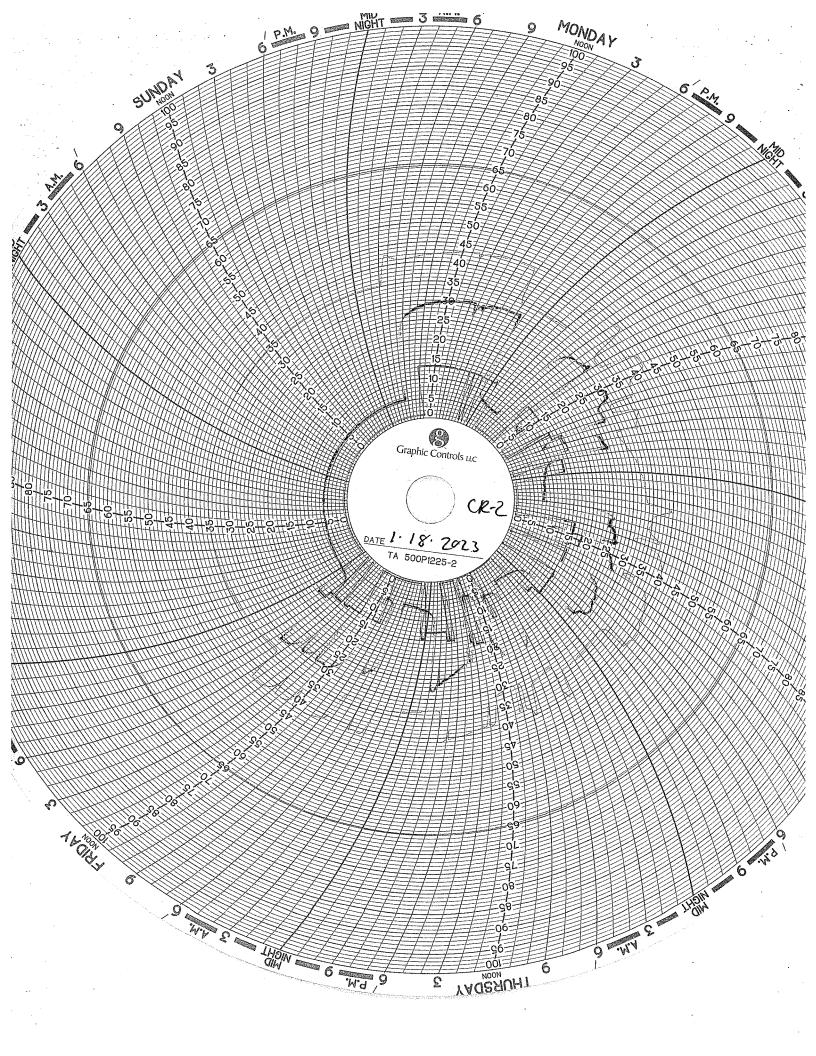
Black Pen – Temperature (chart value x 0)

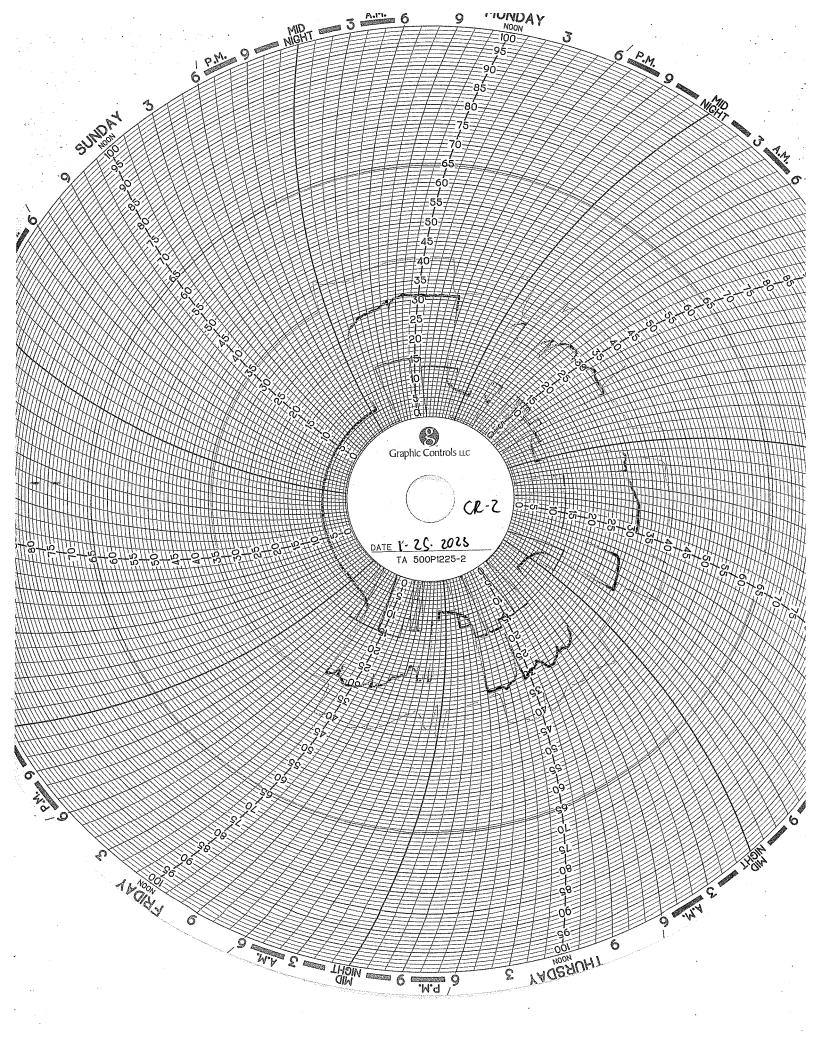












### Circle Chart Index

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)

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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

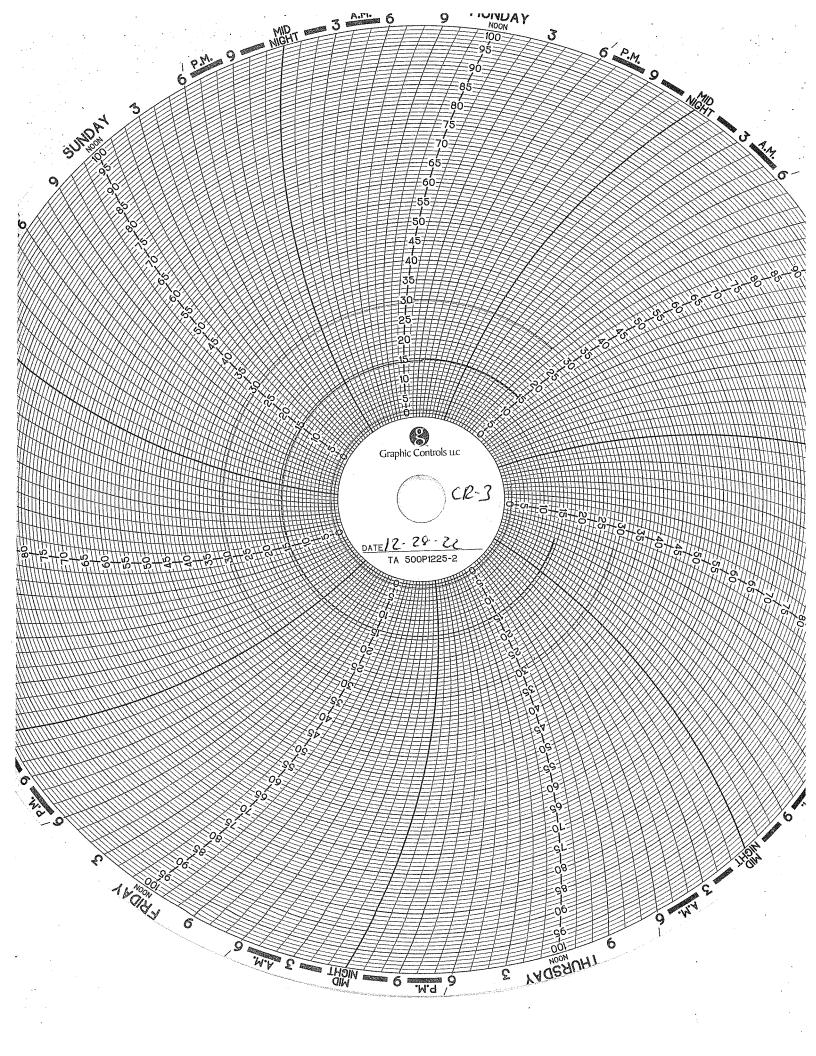
Red Pen – Well 1 Monthly Volume (chart value x 100,000)

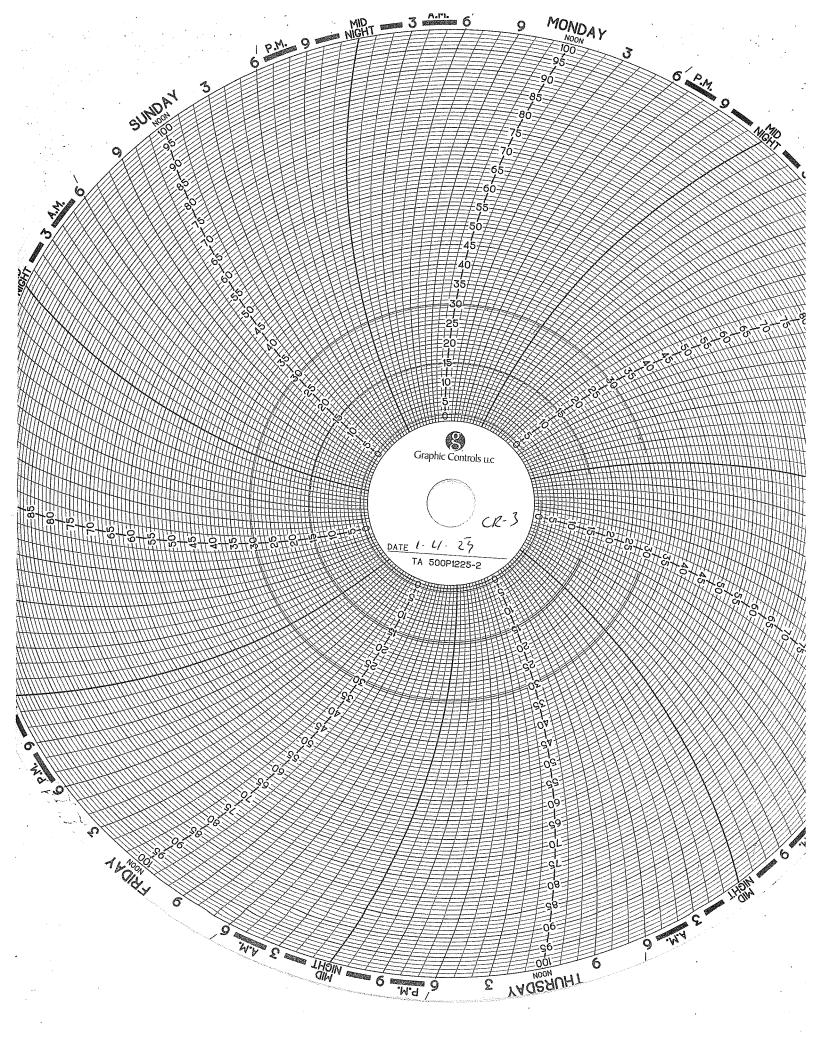
Channel #3

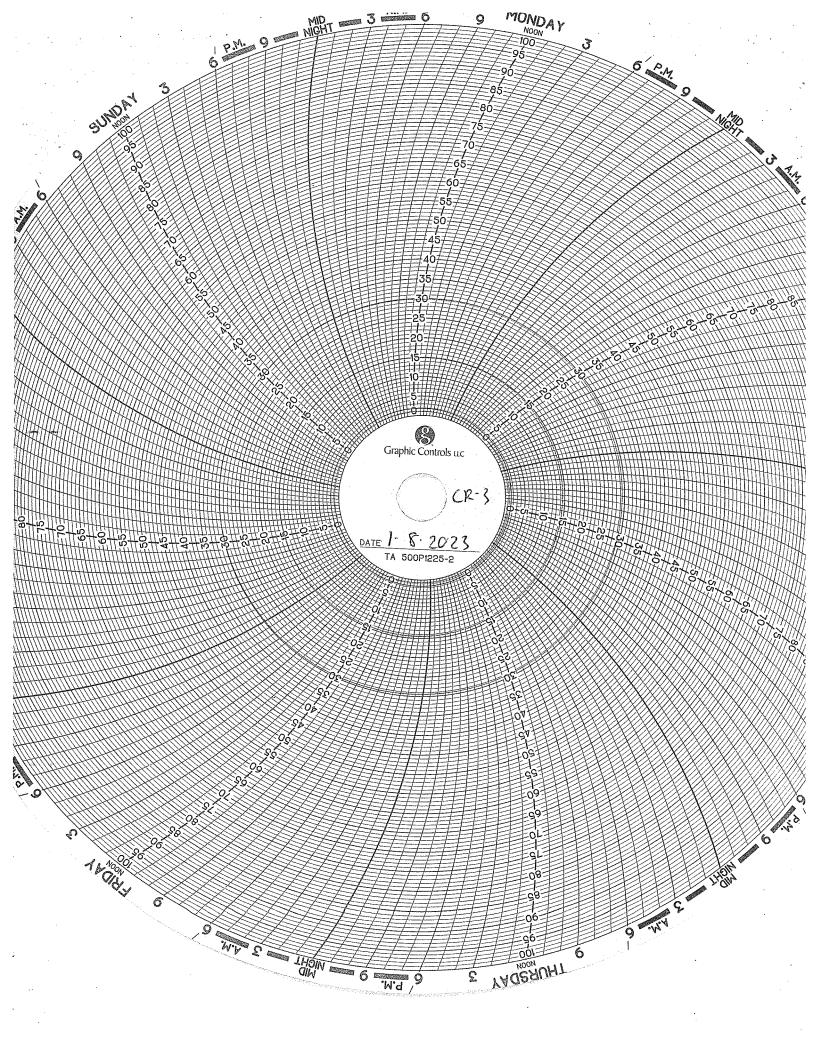
Green Pen – Well 2 Monthly Volume (chart value x 100,000)

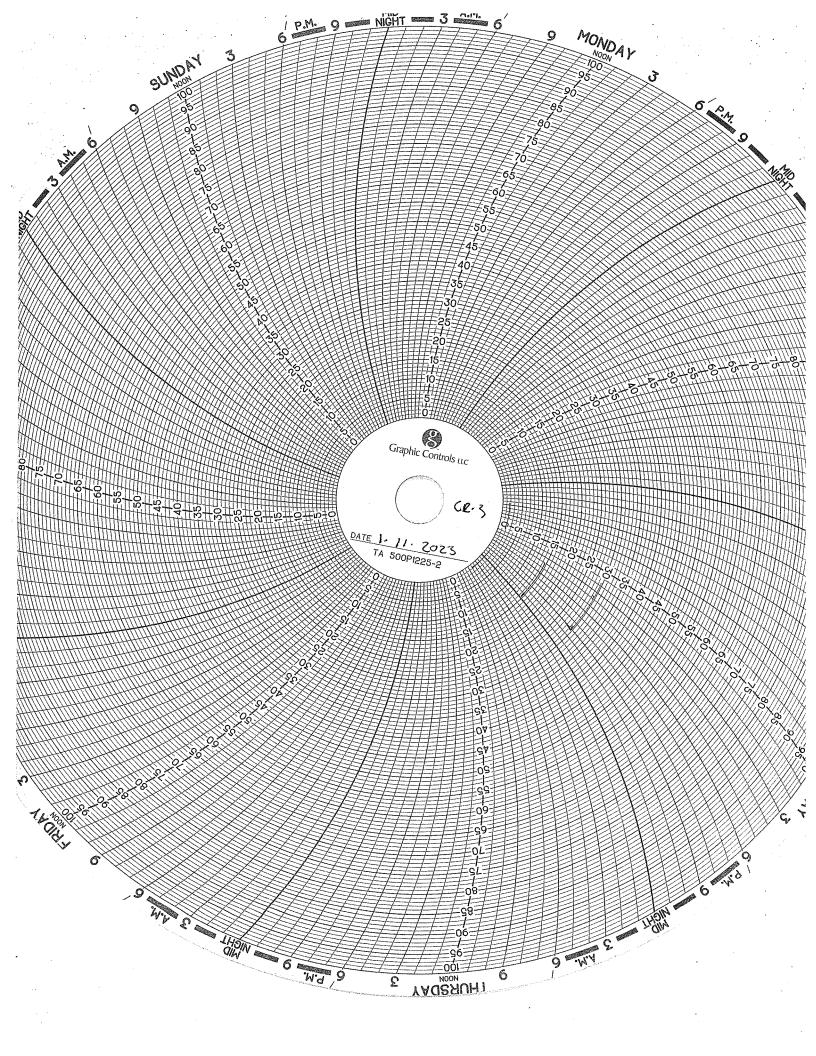
Channel #4

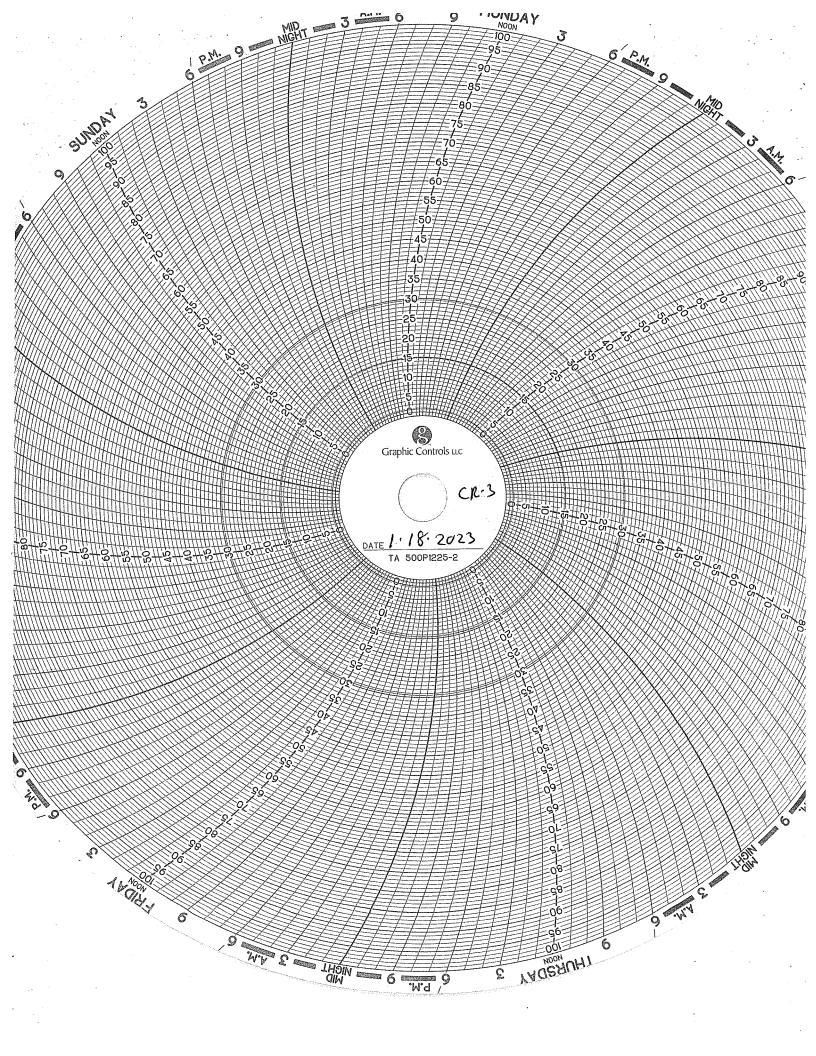
Black Pen – Temperature (chart value x 0)

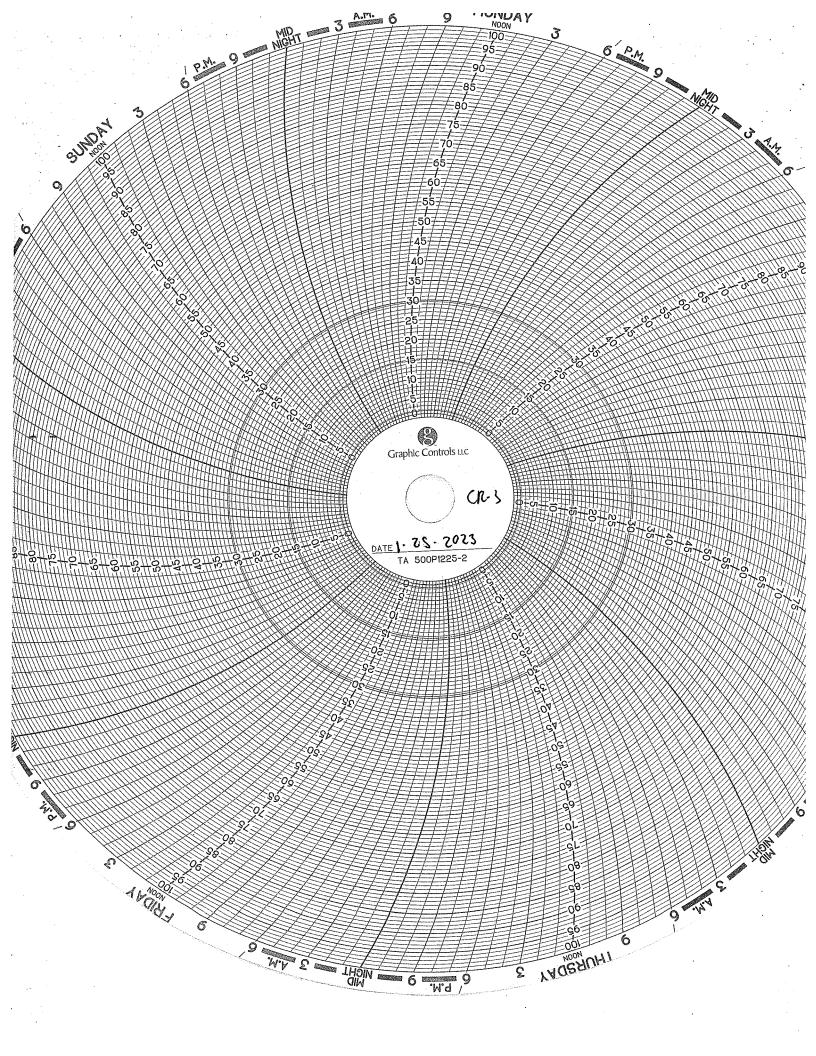














# CORROSION MONITORING PLAN COUPON SUMMARY

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	
2/23/2015	13.339 g	9.286 g	7.005 g	New hastelloy coupon
3/31/2015	13.339 g	9.286 g	7.005 g	
4/27/2015	13.335 g	9.130 g	6.852 g	
5/21/2015	13.336 g	9.124 g	6.809 g	
6/12/2015	13.334 g	9.126 g	6.819 g	
7/27/2015	13.337 g	9.127 g	6.818 g	
8/26/2015	13.337 g	9.022 g	6.780 g	
9/21/2015	13.336 g	8.987 g	6.792 g	
10/19/2015	13.335 g	8.985 g	6.797 g	·
11/16/2015	13.334 g	8.982 g	6.788 g	
12/17/2015	13.334 g	8.933 g	6.791 g	
1/29/2016	13.334 g	8.931 g	6.788 g	
2/16/2016	13.332 g	8.799 g	6.757 g	
3/31/2016	13.339 g	9.286 g	7.005 g	
4/22/2016	13.333 g	8.590 g	6.744 g	
5/31/2015	13.334 g	6.084 g	6.784 g	
6/30/2016	13.328 g	10.942 g	6.793 g	New stainless steel coupon
8/3/2016	13.326 g	10.529 g	6.743 g	İ
8/29/2016	13.325 g	10.020 g	6.723 g	
10/27/2016	13.325 g	8.765 g	6.708 g	
11/29/2016	13.327 g	8.571 g	6.740 g	
12/12/2016	13.323 g	8.223 g	6.717 g	
1/3/2017	13.325 g	8.059 g	6.712 g	
2/28/2017	13.324 g	7.634 g	6.727 g	
3/24/2017	13.325 g	7.370 g	6.732 g	
4/28/2017	13.325 g	6.736 g	6.736 g	
5/11/2017	13.323 g	7.352 g	6.689 g	
6/12/2017	13.323 g	7.357 g	6.689 g	İ
7/5/2017	13.323 g	7.355 g	6.689 g	Name File
8/30/2017	13.324 g	7.353 g	18.105 g	New Fiberglass coupon
9/28/2017 10/11/2017	13.325 g	7.352 g	18.060 g	
1	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	ı

# 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	ŀ
3/19/2018	13.325 g	10.926 g	18.030 g	
4/16/2018	13.336 g	10.863 g	18.068 g	
5/17/2018	13.325 g	10.858 g	18.037 g	
6/20/2018	13.325 g	10.855 g	18.029 g	
7/12/2018	13.326 g	10.852 g	18.032 g	
8/21/2018	13.326 g	10.854 g	18.031 g	1
9/14/2018	13.326 g	10.852 g	18.036 g	
10/10/2018	13.326 g	10.851 g	18.031 g	
11/20/2018	13.326 g	10.853 g	18.032 g	İ
12/11/2018	13.326 g	10.852 g	18.033 g	
1/14/2019	13.326 g	10.852 g	18.033 g	
2/20/2019	13.326 g	10.850 g	18.033 g	
3/15/2019	13.326 g	10.850 g	18.033 g	
4/10/2019	13.326 g	10.848 g	18.031 g	
5/17/2019	13.326 g	10.849 g	18.036 g	
6/5/2019	13.326 g	10.848 g	18.031 g	
7/8/2019	13.326 g	10.845 g	18.032 g	
8/12/2019	13.326 g	10.845 g	18.032 g	
9/8/2019	13.326 g	10.842 g	18.029 g	
10/17/2019	13.326 g	10.842 g	18.030 g	
11/20/2019	13.326 g	10.842 g	18.030 g	
12/11/2019	13.326 g	10.842 g	18.030 g	
1/16/2020	13.326 g	10.840 g	18.033 g	
2/6/2020	13.326 g	10.836 g	18.034 g	
3/3/9/20	13.326 g	10.842 g	18.034 g	Well 1 workover new well
4/9/2020	13.328 g	10.839 g	18.037 g	Tron I wonkeren new wen
5/12/2020	13.322 g	10.830 g	18.035 g	
6/16/2020	13.316 g	10.771 g	18.009 g	
7/16/2020	13.308 g	10.560 g	17.843 g	
8/25/2020	13.310 g	10.214 g	17.773 g	
9/24/2020	13.289 g	9.796 g	17.656 g	1
10/19/2020	13.282g	9.737g	17.621g	
11/5/2020	13.280g	9.728g	17.600g	
12/3/2020	13.281g	9.730g	17.689g	
2/10/2021	13.284g	9.728g	17.683g	
3/9/2021	13.290g	9.733g	17.585g	
4/13/2021	13.288g	9.730g	17.649g	
5/18/2021	13.282g	9.691g	17.543g	
6/17/2021	13.279g	9.639g	17.546g	
7/19/2021	13.278g	9.480g	17.507g	
8/3/2021	13.278g	9.437g	17.467g	
9/14/2021	13.277g	9.392g	17.467g	
Date	Hastelloy	Stainless Steel	Fiberglass	
10/11/2021	13.277g	9.359g	17.465g	- <del> </del>
11/3/2021	13.277g	9.350g	17.273g	[
12/15/2021	13.276g	9.351g	17.276g 17.256g	]
1/17/2022	13.276g	9.351g	17.256g	[ ·
2/15/2022	13.276g	9.347g	16.965g	
1.0/2022	10.21 og	J.J719	10.0009	I I

# CORROSION MONITORING PLAN COUPON SUMMARY

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

#### COOROSION MONITORING COUPONS VISUAL DESCRIPTION

### Jan, 2023

### **Fiberglass Coupon**

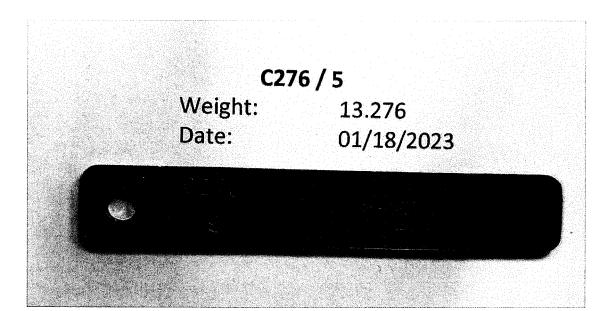
The coupon is black in color with a semi-smooth texture on both sides. Its cut edges appear sanded. The coupon is free of cracks, pitting, swelling, blemishes, and corrosion. There is no obvious effect on this coupon since last month. The coupon has been dyed black by received wastestreams.

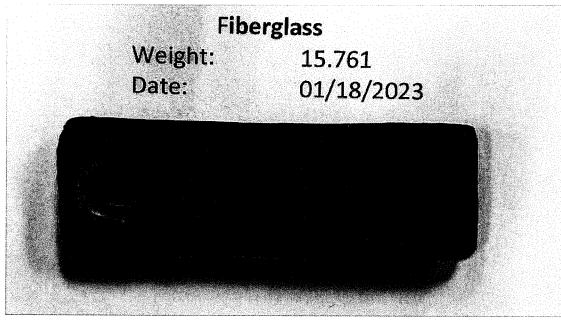
### **Hastelloy Coupon**

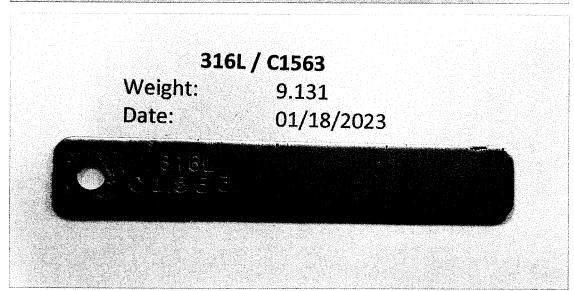
This coupon is identified as C276 with Serial Number 5. The coupon is silver in color with a lightly sandblasted texture. It is clean and free of pits, cracks, and blemishes. There is no effect to this coupon.

### **Stainless Steel Coupon**

This coupon is identified as serial number C1563/316L. There has been consistent loss of mass month over month. No significant changes to this coupon from last month. It is clean with some pitting.







## 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.



October 22, 2015

## TEST REPORT -

PN 125322 PO 00154

# PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin

Sr. Project Technician

Approved By:

Jim Drummond, Sr.

Physical & Plastic Testing, Manager



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

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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

Approved By:

Scott W. Yates

Plastics Testing Assistant Manager



December 12, 2016

# **-TEST REPORT-**

PN 132662

## PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By

Melissa Martin

Senior Project Technician

Approved By

Jim Diummond Physical Testing, Manager

Rev 041916

An A2UA ISO 17025 Accredited Testing Laboratory — Certificate Numbers 255.01 & 255.02 ISO 9001:2008 Registered

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

Approved By:

Scott Yates

Plastics Testing, Assistant Manager

wk

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

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December 13, 2017

## **-TEST REPORT-**

PN 139140

# 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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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

\*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.\*

# GHESQUIERE PLASTIC TESTING, INC.

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

<u> Hardness</u>

Specimen 1

90

Specimen is being returned with this report for further evaluation.

CHESQUIERE PHASTIC TESTING, INC.

M. W. Ghesquiere

President

MWG/kni

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TOTAL 1 PAGES

# GHESQUIERE PLASTIC TESTING, INC.

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

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

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

Attention: Mr. Don Anderson

#### WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

## DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

#### WORK PERFORMED:

k formation from the property of the first of the party of the formation of the same of th Test specimen was prepared as necessary and conditioned for a minimum of 24 hours at standard laboratory conditions prior to testing.

Barcol Mardness 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

医乙酰胺基 医乙酰胺酸酸酸 經濟 化邻苯二烷基环

Specimen 1. 90

Specimen was returned to the client on February 17, ANDERSON STREET

> GHESQUIERE PLASTIC TESTING, INC.

CONTRACTOR CONTROL SERVICES

M. W. Chesquiere -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

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

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

Attention: Mr. Don Anderson

#### WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

#### DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card)

#### WORK PERFORMED:

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

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

#### **RESULTS:**

The following determination was made based upon the above test:

#### BARCOL HARDNESS

Hardness

Specimen 1

85

Specimen was returned to the client June 16, 2014.

GHESQUIERE PLASTIC/TESTING, INC.

President

MWG/dm



October 2, 2014

# TEST REPORT -

PN 118325
PO Attn:John Frost

## PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By:

Melissa Martin

Project Technician

Approved By:

Jim Drummond

Physical & Plastics | Testing, Manager

ACCREDITED
A Testing Lab

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

ISO 9001:2008

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# 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

st

Melisea Vartin Sr. Project Technician

Approved By:

Scott W. Yates

Plastics Testing Assistant Manager

## **BARCOL HARDNESS REPORT**

Custor	mer: Republic Industrial and Energy Solutions, LLC					
Comp	nent Te	sted:	Test Coupo	on .		
PO Nu	mber:	957555	3	Jok	Number:	3415
Calibra	tion:	Disc:	43 - 48	Actua	l Reading:	45
Ва	rcol Rea	dings	1	2	3	Average
	S	ide One:	62	63	58	61
	Si	de Two:	58	60	57	58
		'		Overal	Average:	60
Tested	Ву:	J.		i. Qa	×2	
				` (signatur	e)	
			Gary Nichol		Date:	01/12/2021
1	1	<i>t</i> hi	micor type i	iailie/		

## **BARCOL HARDNESS REPORT**

Customer:	Republi	ic Industrial and Energy Solutions, LLC			
Component	Tested:	Test Coupo	n ·		
PO Number	: 101597	92	Jol	b Number:	3556
Calibration:	: Disc:	43 - 48	Actua	ıl Reading:	45
Barcol F	Readings	1	2	3	Average
	Side One:	56	60	60	59
	Side Two:	60	62	62	61

Tested By:

Gary Nicholson

Date: 10/11/2021

Overall Average:

(print or type name)

## **BARCOL HARDNESS REPORT**

**Customer:** 

Republic Industrial and Energy Solutions

Component Tested:

Fiberglass Coupon

PO Number:

Credit Card

Job Number: 3734

Calibration:

**Disc:** 43 - 48

Actual Reading:

**Barcol Readings** 

Side One: Side Two:

1	2	3	Average
55	50	58	54
53	56	59	56

Overall Average:

Tested By:

**Gary Nicholson** 

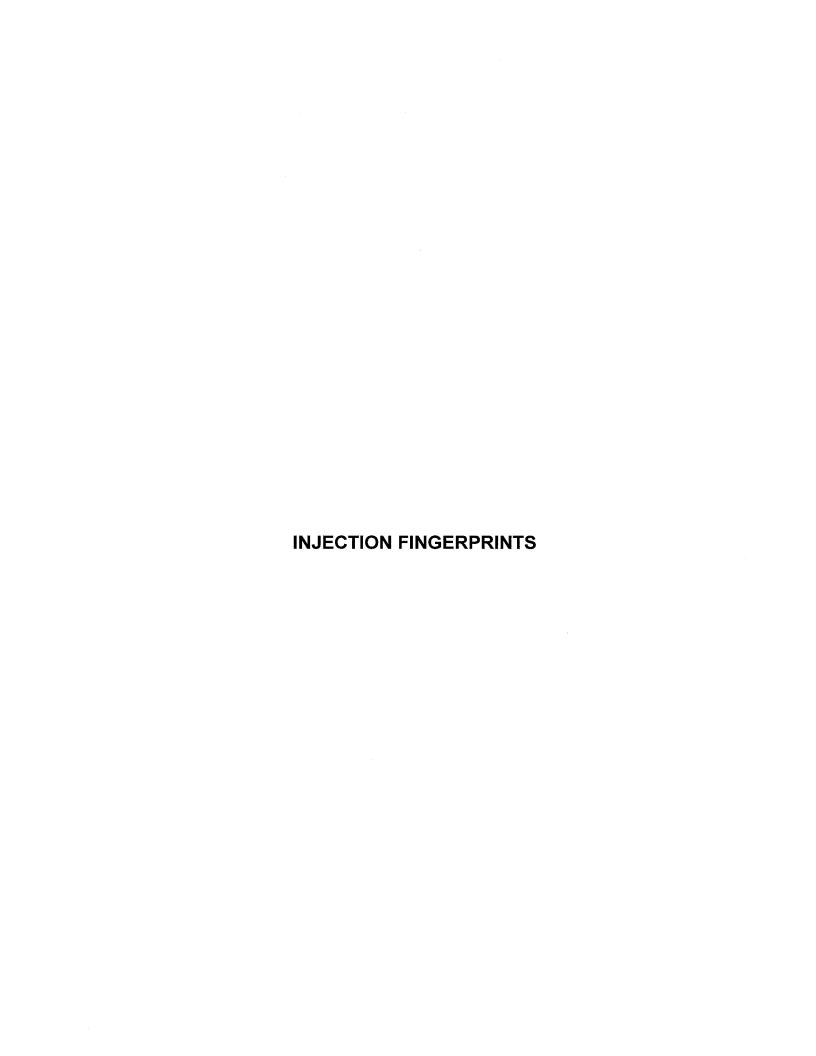
Date: 08/23/2022

(print or type name)



# **UIC Monthly Maintenance Log**

No Maintainance this month



RECEIVING INFO	DRMATION	
Date	111	31 /23
Receiving ID#	TO1312	1304
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		·
Transporter		·
Time in	1912	27
Time out		
Received by		
Sampled by	A.Wer	14

LAB INFORMA	JION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	·
pH (S.U.)	611	
Cyanides? (mg/L)		
Sulfides? (ppm)?		· ·
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	Saº	
Conductivity	15.51	
% Solids	.453	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	A. Worl	4

3.581

RECEIVING INFO	DRMATION
Date	1 / 31 /23
Receiving ID#	IO1312303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:39
Time out	
Received by	
Sampled by	A. Worley

LAB INFORMA	TION	1 1 1 1 1 1 1 1 1
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	714	J.C.
pH (S.U.)	6.2	_
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		· · · · · · · · · · · · · · · · · · ·
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	Sio	
Conductivity	16.58	3
% Solids	1418	
Turbidity	Yes	No
Color		
TSS (%)	۷٥.	1
Radiation Screen (as needed)		
Lab Signature/Initials	A-W 51	ty.

RECEIVING INFO	DRMATION
Date	1 / 3/ /23
Receiving ID#	IO1312302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:00
Time out	
Received by	1 NAL
Sampled by	( July

LAB INFORMA	MOIT	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		Allen and Art Art April 1984
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	<b>ノノソ</b>	Ò
pH (S.U.)	6.3	Q
Cyanides? (mg/L)		1
Sulfides? (ppm)?		
Specific Gravity	1.0	2
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	52	5_
Conductivity	18.40	25
% Solids	0.94	F
Turbidity	Yes	No
Color		
TSS (%)	(6)	
Radiation Screen (as needed)		
Lab Signature/Initials	410	h

Receiving & Departure Approval Form

RECEIVING INF	ORMATION .
Date	1 /31 /23
Receiving ID#	I01312301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	n Excolar
Sampled by	n Escolar

LAB INFORMA	ATION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>110°	
pH (S.U.)	6.39	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	510	
Conductivity	20.01	
% Solids	0.08%	
Turbidity	Yes	No
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Exect	en

RECEIVING INFO	ORMATION
Date	1 / 30 / 23
Receiving ID#	101302306
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:00
Time out	
Received by	
Sampled by	A. Warlie

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 1400	)
pH (S.U.)	6.6	4
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes ,	No
Temperature (F)	530	
Conductivity	18.3	38
% Solids	,717	1
Turbidity	Yes	No
Color		
TSS (%)	40.1	
Radiation Screen (as needed)		
Lab Signature/Initials	A.Wa	chy

.807 .829 3.085

RECEIVING INF	ORMATION	
Date	1 130	/ 23
Receiving ID#	IO13023	05
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	16:20	
Time out		
Received by		
Sampled by	A. Westa	P

LAB INFORMA	ATION .	
Compatible? (RT# )	T	
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 140	× 63
pH (S.U.)	7 140 6.06	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.0	/
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	530	
Conductivity	20.1	
% Solids	-875	
Turbidity	Yes	No
Color		
TSS (%)	20:1	
Radiation Screen (as needed)		
Lab Signature/Initials	As Word	lisp

RECEIVING INFO	RMATION	11
Date		კტ / 23
Receiving ID#	I0130	2304
Manifest# Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	13:5	51
Time out		1
Received by		Mr.
Sampled by	King	Jan
	$(\mathcal{C})$	

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		****
Flash Point (F)		
pH (S.U.)	6-100	)
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.03	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	49.3	
Conductivity	22.3.	~5
% Solids	0.93	
Turbidity	Yes	No
Color		
TSS (%)	(0.)	
Radiation Screen (as needed)		$\Delta$
Lab Signature/Initials	4.4	K

RECEIVING INF	ORMATION	
Date	2 /30	/ 23
Receiving ID#	I01302303	
Manifest# Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	11:30	
Time out		
Received by	n Escular	
Sampled by	n Excelar	

LAB-INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140'	
pH (S.U.)	6.69	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	520	·
Conductivity	21.5	
% Solids	.93%	
Turbidity	Yes	No
Color		
TSS (%)	50.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Encelor	

RECEIVING INF	ORMATION
Date -	2 /36 /23
Receiving ID#	I01302302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	·
Time in	08:30
Time out	
Received by	LAL
Sampled by	h Keculan
	· · ·

LAB INFORMA	ATION .	
Compatible? (RT# )	T	
PCBs (ppm) (Oily Waste		
Only)?	1	
TOC ppm (CC Waste Only)?		
Flash Point (F)	2140	
pH (S.U.)	3,80	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.07	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	57,	4
Conductivity	25,1	1 ml
% Solids	0.8	9
Turbidity	Yes	No
Color		
TSS (%)	10,	1
Radiation Screen (as needed)	1.0	<i>V</i>
Lab Signature/Initials	FR	$\mathcal{D}_{-}$
	/ 10	Acco

RECEIVING INF	ORMATION
Date	1 /30 /23
Receiving ID#	T01302301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escolar
Sampled by	n Escolar

LAB-INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		pr. 1
Flash Point (F)	>140°	
pH (S.U.)	6.05	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	2.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	52°	
Conductivity	17.13	
% Solids	.0700	
Turbidity	Yes	No
Color		
TSS (%)	(0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Escolo	<u>.                                    </u>

RECEIVING INFO	RMATION
Date	1 127 123
Receiving ID#	IO1 2723 05
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:56
Time out	
Received by	
Sampled by	A. Wolly

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		<del></del>
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 140	70
pH (S.U.)	6.4	6
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	l+O	
Physical Description		
Stream Consistency	Yes	No
Oil în Sample?	Yes	No
Temperature (F)	540	ļ <sup>.</sup>
Conductivity	201.	(
% Solids	hind	1.24
Turbidity	Yes	No
Color		
TSS (%)	(0,'	
Radiation Screen (as needed)		
Lab Signature/Initials	AWer	lip

RÉCEIVING INFO	RMATION
Date	1 / 27 /23
Receiving ID#	IO1272304
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15112
Time out	<b>1 1 1 1</b>
Received by	1 /0 /0~
Sampled by	A (Web)
	V

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	4.15	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.03	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	59.	)
Conductivity	27.3	n S
% Solids	1.69	
Turbidity	Yes	No
Color		
TSS (%)	<01	4
Radiation Screen (as needed)	1.	
Lab Signature/Initials		ha
:	7	100

☐ RECEIVING INFO	
Receiving ID#	16/27/23 03
Manifest # Line	10.000
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	17:50
Time out	
Received by	1411
Sampled by	

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)		
pH (S.U.)	4.38	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description	4 1	
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	53.	5
Conductivity	29.1	~
% Solids	2.4	ľ
Turbidity	Yes	No
Color		
TSS (%)	(0)	
Radiation Screen (as needed)		1
Lab Signature/Initials	M	-K
		1,4

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RECEIVING INF	ORMATION
Date	1 / 27 / 23
Receiving ID#	IO1272302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:52
Time out	
Received by	LAR
Sampled by	1/12:

LAB INFORMA	ATION:	
Compatible? (RT# )		*
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	2-14	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	49.3	
Conductivity	5.95 m	ζ
% Solids	40.1	
Turbidity	Yes	No
Color		****
TSS (%)	10-1	
Radiation Screen (as needed)		4
Lab Signature/Initials		

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INFO	DRMATION
Date	1 177 123
Receiving ID#	IO127 2301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	·
Generator	
Client	
Transporter	A
Time in	(0:30
Time out	
Received by	
Sampled by	Dallon M

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 140	)
pH (S.U.)	2,73	
Cyanides? (mg/L)	430	
Sulfides? (ppm)?	4200	
Specific Gravity	1.01	
Physical Description	liquid	
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	50'F	
Conductivity	10.49	15
% Solids	0%	
Turbidity	Yes	No
Color	L+. Br	אנאמ
TSS (%)	.9%	
Radiation Screen (as needed)	1	Δ
Lab Signature/Initials	A. A	$\Psi_{}$
		M

RECEIVING INFO	ORMATION
Date	1 / 26 / 23
Receiving ID#	IO1262306
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:15
Time out	
Received by	
Sampled by	A. Worly

LAB INFORMA	TION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	<u></u>	······································
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	
pH (S.U.)	5.63	
Cyanides? (mg/L)		·
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	540	
Conductivity	26.5	
% Solids	. 973	
Turbidity	Yes	No
Color		
TSS (%)	( 0. (	
Radiation Screen (as needed)	-	es
Lab Signature/Initials	A: Worly	

RECEIVING INFOR	MATION	
Date	2 /	26 / 23
Receiving ID#	20126	2306
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	19:	15
Time out		
Received by		
Sampled by	A. Wor	174

LAB INFORMA	JION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 140°	,
pH (S.U.)	5 63	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	SHO	
Conductivity	26.5	
% Solids	. 973	
Turbidity	Yes	No
Color		
TSS (%)	(0.1	
Radiation Screen (as needed)		<del></del>
Lab Signature/Initials	GINGLY	

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RECEIVING INFO	ORMATION
Date	1 / 26 / 23
Receiving ID#	701262305
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16.08
Time out	
Received by	
Sampled by	A. Works

LAB INFORMA	TION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		ii
TOC ppm (CC Waste Only)?		- 10
Flash Point (F)	7 140	U
pH (S.U.)	5.3~	7
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	550	
Conductivity	24.7	,
% Solids	1.09	
Turbidity	Yes	No
Color	R	
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	AWarl	φ

Injection fingerprint #I01262304 was not completed; however, fingerprints I01232305 and I01262306 were done sequentially.

RECEIVING INF	ORMATION
Date	1 126 123
Receiving ID#	I01262303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	*
Time in	12:20
Time out	1
Received by	A. Dhar
Sampled by	Dalton M.

LAB INFORM	ATION:		
	and the second s	1967. J. 200	
Compatible? (RT# )			
PCBs (ppm) (Oily Waste			
Only)?			
TOC ppm (CC Waste Only)?			ĺ
Flash Point (F)	2140	)	
pH (S.U.) (スプ)	1019	4. 6	2,3
Cyanides? (mg/L)			
Sulfides? (ppm)?			
Specific Gravity	1.02		
Physical Description	-		
Stream Consistency	Yes	No	İ
Oil in Sample?	Yes	No	
Temperature (F)	60.0		
Conductivity	5.15	r	
% Solids	20	\	
Turbidity	Yes	No	
Color			
TSS (%)	201		r
Radiation Screen (as needed)	1		
Lab Signature/Initials	LANK		

RECEIVING INF	ORMATION
Date	1 /20 /23
Receiving ID#	107262302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	· ·
Generator	
Client	
Transporter	
Time in	9:20
Time out	
Received by	11 60
Sampled by	2 Escolar
,	V

LAB INFORMA	(TION)	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	1140	
pH (S.U.)	5,80	4
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1,02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	62-5	,
Conductivity	14,49	<i>خ</i> ـ5
% Solids	0,64	
Turbidity	Yes	No
Color		
TSS (%)	461	
Radiation Screen (as needed)		II
Lab Signature/Initials	1 1/2	$\chi$
	1.14	-

RECEIVING INF	ORMATION
Date	1 /26 /23
Receiving ID#	T01262301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escolar
Sampled by	n Escolar

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>110°	
pH (S.U.)	7.13	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	53°	
Conductivity	17.23	
% Solids	0.8800	
Turbidity	Yes	No
Color		
TSS (%)	(0.1	
Radiation Screen (as needed)		**
Lab Signature/Initials	n Escolo	n

100	A SECTION AND ADDRESS OF THE PARTY OF THE PA
RECEIVING INFO	DRMATION .
Date	1 125 123
Receiving ID#	TO1252306
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	21:00
Time out	
Received by	
Sampled by	A. Warlix

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	
pH (S.U.)	7. 3 \$	
Cyanides? (mg/L)		
Sulfides? (ppm)?		-
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	S(°	
Conductivity	27.19	).
% Solids	LUI	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	BsWed	live

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RECEIVING & APPROVAL FORM

RECEIVING INFO		
Date	1 /25	/ 23
Receiving ID#	TO1252	305
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		<u></u>
Generator		
Client		
Transporter		
Time in	18:33	· · · · · · · · · · · · · · · · · · ·
Time out		
Received by		
Sampled by	A. Worls	P P

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	
pH (S.U.)	6.43	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	55°	
Conductivity	22.1	
% Solids	1.16	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	I KIV	
	MANT	

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INF	ORMATION
Date	1 / 25 / 23
Receiving ID#	201252304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15153
Time out	
Received by	
Sampled by	A. Worlio

LAB INFORMA	TION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 140°	
pH (S.U.)	6.86	,
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	57°	
Conductivity	20.9	
% Solids	1:17	
Turbidity	Yes	No
Color		
TSS (%)	40.1	
Radiation Screen (as needed)		
Lab Signature/Initials	A. War 1	ye"

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RECEIVING & APPROVAL FORM

RECEIVING INFORMATION			
Date	1 /25 /23		
Receiving ID#	TO1282303		
Manifest # Line			
Land Ban Cert included	Yes · No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	18:33		
Time out			
Received by			
Sampled by	A. Worly		

Compatible? (RT# ) PCBs (ppm) (Oily Waste Only)? TOC ppm (CC Waste Only)? Flash Point (F) PH (S.U.) Cyanides? (mg/L) Sulfides? (ppm)? Specific Gravity Physical Description Stream Consistency Oil in Sample? Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed) Lab Signature/Initials	LAB INFORMA	TION	
Only)?  TOC ppm (CC Waste Only)?  Flash Point (F)  pH (S.U.)  Cyanides? (mg/L)  Sulfides? (ppm)?  Specific Gravity  Physical Description  Stream Consistency  Oil in Sample?  Temperature (F)  Conductivity  % Solids  Turbidity  Color  TSS (%)  Radiation Screen (as needed)	Compatible? (RT# )		
TOC ppm (CC Waste Only)?  Flash Point (F) pH (S.U.) Cyanides? (mg/L) Sulfides? (ppm)? Specific Gravity Physical Description Stream Consistency Oil in Sample? Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed)			
Flash Point (F) pH (S.U.) Cyanides? (mg/L) Sulfides? (ppm)? Specific Gravity Physical Description Stream Consistency Oil in Sample? Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed)	The state of the s		
pH (S.U.) Cyanides? (mg/L) Sulfides? (ppm)? Specific Gravity Physical Description Stream Consistency Oil in Sample? Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed)	TOC ppm (CC Waste Only)?		
Cyanides? (mg/L)  Sulfides? (ppm)?  Specific Gravity  Physical Description  Stream Consistency  Oil in Sample?  Temperature (F)  Conductivity  % Solids  Turbidity  Color  TSS (%)  Radiation Screen (as needed)	Flash Point (F)	71400	
Sulfides? (ppm)?  Specific Gravity  Physical Description  Stream Consistency  Oil in Sample?  Temperature (F)  Conductivity  % Solids  Turbidity  Color  TSS (%)  Radiation Screen (as needed)	pH (S.U.)	6.43	
Specific Gravity Physical Description Stream Consistency Oil in Sample? Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed)	Cyanides? (mg/L)		
Physical Description  Stream Consistency Oil in Sample?  Temperature (F) Conductivity % Solids Turbidity Color TSS (%) Radiation Screen (as needed)  Yes No  Yes No  Yes No  Color  TSS (%)  Radiation Screen (as needed)	Sulfides? (ppm)?		
Stream Consistency Oil in Sample? Yes No Temperature (F) Conductivity % Solids Turbidity Turbidity Turbidity Tolor TSS (%) Radiation Screen (as needed)	Specific Gravity	1.01	
Oil in Sample?  Temperature (F)  Conductivity  % Solids  Turbidity  Color  TSS (%)  Radiation Screen (as needed)	Physical Description		
Temperature (F)  Conductivity  % Solids  Turbidity  Yes  No  Color  TSS (%)  Radiation Screen (as needed)	Stream Consistency	Yes	No
Conductivity  % Solids  Turbidity  Color  TSS (%)  Radiation Screen (as needed)	Oil in Sample?		No
% Solids Turbidity Yes No Color TSS (%) Radiation Screen (as needed)	Temperature (F)	55°	
Turbidity Yes No Color TSS (%) C C \ Radiation Screen (as needed)	Conductivity	22.1	
Color TSS (%)  Radiation Screen (as needed)	% Solids	1.16	
TSS (%) C.\ Radiation Screen (as needed)	Turbidity	Yes	No
Radiation Screen (as needed)	Color		
	TSS (%)	< 0.1	
Lab Signature/Initials	Radiation Screen (as needed)	IAA	
	Lab Signature/Initials	N/A L	

Receiving & Departure Approval Form

RECEIVING INFO	DRMATION
Date	1 /25 /23
Receiving ID#	I01252302
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:50
Time out	. 10
Received by	1.00
Sampled by	n mula

LAB INFORMA	ATION:	10.70
Compatible? (RT# )		
PCBs (ppm) (Oily Waste	***************************************	
Only)?		<u> </u>
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	·
pH (S.U.)	6.8	5
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	-
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	55.2	_
Conductivity	2000	ns
% Solids	0.93	)
Turbidity	Yes	No
Color		
TSS (%)	40.1	۸
Radiation Screen (as needed)	, , K	$\mathcal{I}$
Lab Signature/Initials	L 1 dk	
	/ J'X	m

RECEIVING INFO	
Date	01/25/23
Receiving ID#	IO1252301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	9:30 AM
Time out	
Received by	
Sampled by	Jim For

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	<u> </u>	· · · · · · · · · · · · · · · · · · ·
TOC ppm (CC Waste Only)?		
Flash Point (F)	> /ソ	0
pH (S.U.)	1.80	)
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	57	, D
Conductivity	9.94	)
% Solids	(6	١٠.
Turbidity	Yes	No
Color		
TS\$ (%)	(20.)	
Radiation Screen (as needed)	<u> </u>	<b>/</b>
Lab Signature/Initials	L X	<u> </u>

RECEIVING INFORMATION			
Date	1 1 24/23		
Receiving ID#	70124230S		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	21:40		
Time out			
Received by			
Sampled by	A. Worly		

LAB INFORMA	TION:	i i
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		· · · · · · · · · · · · · · · · · · ·
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 1400	
pH (S.U.)	7,25	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	Si	
Conductivity	4.67	
% Solids	9032	
Turbidity	Yes	No
Color		
TSS (%)	201	
Radiation Screen (as needed)		
Lab Signature/Initials	A. Warlow	

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RECEIVING INFORMATION			
Date	1 124 123		
Receiving ID#	IO1242304		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	17:30		
Time out			
Received by			
Sampled by	Awarlig		

LAB INFORM	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		<u> </u>
Flash Point (F)	7 140	<i></i>
pH (S.U.)	2.0	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	53°	
Conductivity	8.09	
% Solids	,020	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)	1	10
Lab Signature/Initials	L Uny(	MAC
		/ V 4

REGEIVING INFORMATION			
Date	1 124 123		
Receiving ID#	IO1242303		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	15:45		
Time out			
Received by	JARY _		
Sampled by	A. Waltey		
***			

LAB INFORMATION		
Compatible? (RT# )	111019	
PCBs (ppm) (Oily Waste	-	(classification
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	2-2	Q
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.00	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	57.	8
Conductivity	5.7	9
% Solids	0.15	
Turbidity	Yes	No
Color		
TSS (%)	(0.)	
Radiation Screen (as needed)	11	
Lab Signature/Initials	TH	
	110	- Av-

RECEIVING INFO	RMATION
Date	1 / 24 / 23
Receiving ID#	501242302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	8,50
Time out	1 . 0
Received by	1102
Sampled by	() NE

LAP INCORM	ATION	
LAB INFORM Compatible? (RT# )	AHUN	
PCBs (ppm) (Oily Waste		······································
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>4	10
pH (S.U.)	6.6	57
Cyanides? (mg/L)		
Sulfides? (ppm)?		***************************************
Specific Gravity	1.03	
Physical Description	- k	
Stream Consistency	Yes	Nö
Oil in Sample?	Yes	No
Temperature (F)	64,	)
Conductivity	33.0,05	
% Solids	0.92	<del></del>
Turbidity	Yes	No
Color		
TSS (%)	0.5	
Radiation Screen (as needed)	1 1	······································
Lab Signature/Initials	LXX	

RECEIVING INF	ORMATION	
Date	1 / 24 /2	23
Receiving ID#	T01212301	
Manifest# Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator		
Client		
Transporter		
Time in	06:45	
Time out		
Received by	n Escala	
Sampled by	n Escular	4

LAB INFORMA	'NOITA	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140°	
pH (S.U.)	6.02	
Cyanides? (mg/L)		40-ii
Sulfides? (ppm)?		
Specific Gravity	1.050	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	56°	A
Conductivity	25.8	
% Solids	.1500	
Turbidity	Yes	No
Color		
TSS (%)	(0.1	
Radiation Screen (as needed)		٠.
Lab Signature/Initials	n Escola	~

RECEIVING INFORMATION			
Date	1 / 7.3 / 23		
Receiving ID#	IC/ 232305		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	19,26		
Time out			
Received by			
Sampled by	A. Worling		

The State of Control o		
LAB INFORMA	JION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	
pH (S.U.)	5.55	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	5 7°	
Conductivity	27.1	
% Solids	1.75	
Turbidity	Yes	No
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	D. Work	4

RECEIVING INF	
Date	1 123 123
Receiving ID#	IOI 232304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:04
Time out	
Received by	
Sampled by	Awaniy

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 140°	
pH (S.U.)	5.85	
Cyanides? (mg/L)		·
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No:
Temperature (F)	S7°	
Conductivity	27.7	
% Solids	1.55	
Turbidity	Yes	No
Color		
TSS (%)	50.1	
Radiation Screen (as needed)		
Lab Signature/Initials	B. Work	<b>/</b>

RECEIVING INFO	RMATION	
Date	01/	2,3 / 23
Receiving ID#	JO1 23.	2303
Manifest # Line		<del>-</del>
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	12:1	0
Time out		
Received by	JAN )	W
Sampled by	[五]	
	a.	

LAB INFORMA	ATION	
Compatible? (RT# )	<u> </u>	
PCBs (ppm) (Oily Waste	/	
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)		
pH (S.U.)	(9.2	4
Cyanides? (mg/L)		,
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	52.0	7
Conductivity	24.9	m5
% Solids	1.07	
Turbidity	Yes	No
Color		
TS\$ (%)	40	)
Radiation Screen (as needed)	N 8	<b>1</b>
Lab Signature/Initials	THE WA	¥
	77.10	IM

RECEIVING INFOR	RMATION	<b>J</b>
Date	OI	/ 23 /23
Receiving ID#	IO 2:	32303
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator	1	
Client		· · · · · · · · · · · · · · · · · · ·
Transporter		
Time in	9:	30
Time out	1	A
Received by	(1)	
Sampled by	IN N	
		)` `

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)		
pH (S.U.)	6-10	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	52,0	
Conductivity	23.1,	کہ
% Solids	1.47	
Turbidity	Yes	No
Color		
TSS (%)	604	
Radiation Screen (as needed)		
Lab Signature/Initials	LANY.	

Superior (Section 2)		
RECEIVING INF	ORMATION	
Date	1 /23	/ 23
Receiving ID#	I01232301	
Manifest# Line		
Land Ban Cert included	Yes I	Vo
EGT Approval #		www.nen
Generator		
Client		
Transporter		
Time in	07:00	
Time out		
Received by	n Excelor	
Sampled by	n Escolar	

LAD INTERPLAT	TION	
LAB INFORMA	ATION'S	30
Compatible? (RT# )	<u> </u>	
PCBs (ppm) (Oily Waste		
Only)?		<u> </u>
TOC ppm (CC Waste Only)?	<u> </u>	
Flash Point (F)	2110	
pH (S.U.)	6.18	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	530	
Conductivity	22.7	
% Solids	1.72	
Turbidity	Yes	No
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Escel	<u>a</u>

RECEIVING INFO	DRMATION	
Date	117	20 /23
Receiving ID#	IO1 202	2304
Manifést# Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	18:2	7
Time out		
Received by		
Sampled by	A-WOME	$\varphi$

LAB INFORMA	TION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 1400	
pH (S.U.)	6.45	111
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	dec
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	260	
Conductivity	22.	7
% Solids	0.873	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	A. World	£

RECEIVING INFO	RMATION
Date	1 /20 /23
Receiving ID#	IO1202303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:37
Time out	
Received by	ANh
Sampled by	A. Warlif

LAB INFORMAT		
CONTRACTOR CONTRACTOR	ION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	<del>, w</del>	
FOC ppm (CC Waste Only)?	· .	
lash Point (F)	2140	
)H (S.U.)	6.52	<u> </u>
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Dil in Sample?	Yes	No
emperature (F)		)
Conductivity	231~	<u>ح</u>
% Solids	0.93	
Turbidity Turbidity	Yes	No
Color		
SS (%)	0,)	4
Radiation Screen (as needed)	· · · · · · · · · · · · · · · · · · ·	
ab Signature/Initials	AV	Mb

RECEIVING INFO	ORMATION	
Date	4 /20 /23	
Receiving ID#	Ic4202302	
Manifest # Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator		
Client		
Transporter		
Time in	12:00	
Time out		
Received by	1-101	
Sampled by	nlessen	

LAB INFORMA	JION :	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	ļ	
TOC ppm (CC Waste Only)?	·	
Flash Point (F)	) / /	140
pH (S.U.)	io.Ma	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.152	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	58	1.6.5
Conductivity	20,4	ms
% Solids	0.54	
Turbidity	Yes	No
Color		
TSS (%)	LO.	1
Radiation Screen (as needed)	11	
Lab Signature/Initials		$\nabla$

RECEIVING INF	ORMATION
Date	1 /20 /23
Receiving ID#	I01202301
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:06
Time out	Name of the state
Received by	n Escolar
Sampled by	n Excelor

LAB INFORM	ATION	•
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>1100	
pH (S.U.)	5.71	
Cyanides? (mg/L)		······
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	540	
Conductivity	27.46%	
% Solids	2.2%	
Turbidity	Yes	No
Color		
TSS (%)	0.500	
Radiation Screen (as needed)		
Lab Signature/Initials	n Eccla	

RECEIVING INF	ORMATION
Date	1 / 19 / 23
Receiving ID#	IO1192303
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	19:25
Time out	
Received by	
Sampled by	p works

	Commence of the commence of th	
LAB INFORMA	JION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		· · · · · · · · · · · · · · · · · · ·
Flash Point (F)	> 1400	
pH (S.U.)	4.63	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		197 (40 To A to A to A to A to A to A to A to A
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	570	
Conductivity	29.6	,
% Solids	1.71	
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	
Radiation Screen (as needed)		7
Lab Signature/Initials		<u> </u>

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INFO	ORMATION
Date	1 / 19 / 23
Receiving ID#	IO1192302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	16:20
Time out	
Received by	
Sampled by	Anthony War al
	,

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 140	7
pH (S.U.)	ζ. ο	14
Cyanides? (mg/L)		
Sulfides? (ppm)?	,	
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	58	Ø
Conductivity	25	. (
% Solids	1, 9	, 9
Turbidity	Yes	No
Color		
TSS (%)	< d,	. (
Radiation Screen (as needed)		4.
Lab Signature/Initials	Anthony	Vory

RECEIVING INFORMATION			
Date	1 /19 /23		
Receiving ID#	J01192301		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	06:30		
Time out			
Received by	n Exclar		
Sampled by	n Escolar		

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140°	
pH (S.U.)	2.91	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	51°	
Conductivity	ನ.26	
% Solids	.2400	
Turbidity	Yes	No
Color		
TS\$ (%)	< 0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Escelo	<u>.</u>

RECEIVING INF	ORMATION
Date	1 118 123
Receiving ID#	IO1 182304
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:30
Time out	1 . 1
Received by	LAIAK
Sampled by	1 A. Werter

		X-10-10-10-10-10-10-10-10-10-10-10-10-10-
LAB-INFORM/	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		,
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 1400	
pH (S.U.)	1.92	•
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	590	
Conductivity	36	7
% Solids	1.78	·
Turbidity	Yes	No
Color		
TSS (%)	< 0.1	^
Radiation Screen (as needed)	1 1 1	II
Lab Signature/Initials		V

Receiving & Departure Approval Form

RECEIVING INFORMATION			
Date	1 / 18 / 23		
Receiving ID#	IO1182303		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	18:24		
Time out			
Received by	LAR		
Sampled by	M. Worling		

LAB INFORM	ATION	
Compatible? (RT# )		***************************************
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 1400	
pH (S.U.)	4.64	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description	Liquid	
Stream Consistency	Yes	No
Oil in Sample?	Yes	No.
Temperature (F)	610	
Conductivity	31.1	
% Solids	2.2	
Turbidity	Yes	No
Color		
TSS (%)	< 0:1	
Radiation Screen (as needed)	_1_^\	
Lab Signature/Initials	14/14	
	77101	

Receiving & Departure Approval Form

RECEIVING INFORMATION			
Date	1 11:	/ 23	
Receiving ID#	IO1 18	2302	
Manifest # Line			
Land Ban Cert included	Yes	No	
EGT Approval #			
Generator			
Client			
Transporter			
Time in	15:48	3	
Time out			
Received by	11/1	h_	
Sampled by	/ /AW		

LAB-INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste	1	
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7140	
pH (S.U.)	1,99	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	540	
Conductivity	29.5	
% Solids	2.53	
Turbidity	Yes	No
Color		
TSS (%)	1 O. 1	
Radiation Screen (as needed)	<u> </u>	
Lab Signature/Initials	I KM	
	/ V	· ·

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INF	ORMATION	
Date	/ //8 /23	
Receiving ID#	IO1/87361	
Manifest # Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator		
Client		
Transporter		
Time in	10:14	
Time out		
Received by	LW	
Sampled by	13m	

		***************************************
- LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	<b>5</b>
pH (S.U.)	2.08	3
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	59.4	1
Conductivity	7.35	~5
% Solids	0.37	
Turbidity	Yes	No
Color		
TSS (%)	(0.)	
Radiation Screen (as needed)		
Lab Signature/Initials	111	2 // (
	1 41	77

Receiving & Departure Approval Form

10.00	
RECEIVING INFO	ORMATION
Date	1 / 17 / 23
Receiving ID#	TO1172304
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:20
Time out	
Received by	
Sampled by	A. Warling

Linear Marketine Committee		
LAB INFORMA	(TION)	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	71400	4 '
pH (S.U.)	71400	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1,00	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	S6°	
Conductivity	17.9	2
% Solids	128,	
Turbidity	Yes	No
Color		
TSS (%)	L Oil	
Radiation Screen (as needed)	$\Delta$	$\Gamma$
	1 1 17 1	11
Lab Signature/Initials	LA H	Ma

Receiving & Departure Approval Form

REOLIVINO 074
DRMATION
1 / 17 / 23
Io1172363
Yes No
13:45
J.XX
1 Firth Hamilt

58T-1

LAB INFORM	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	31	yO
pH (S.U.)	6.	ወዕ
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.03	>
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	510.	7
Conductivity	28.0	m5
% Solids	1.40	
Turbidity	Yes	No
Color		
TSS (%)	Lay	
Radiation Screen (as needed)	1	$\Lambda$
Lab Signature/Initials	1 AV	W-

RECEIVING INFO	ORMATION
Date	1 1 1 1 7 1 23
Receiving ID#	TO1172302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	09:40
Time out	
Received by	1. Kha
Sampled by	2 Excelor

LAB INFORM	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		· · · · · · · · · · · · · · · · · · ·
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	10
pH (S.U.)	5.7	3
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.0	2
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	60,	6
Conductivity	29.2	<u>m3</u>
% Solids	1.72	_
Turbidity	Yes	No
Color		
TSS (%)	40,	
Radiation Screen (as needed)		11
Lab Signature/Initials		
	11	XX

Date	1 1/7 /23
Receiving ID#	I0/17230/
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	
Sampled by	7.16

TION	
1 > 15	id
5,19	
1.04	
Yes	No
Yes	No
65.1	
40.9	المسا
3.94	2
Yes	No
(0.)	
	_0
W. L	<u> </u>
	Yes Yes 40,9 3,94

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Anthorn Commence of the Commen	
RECEIVINGINFO	DRMATION
Date	1 / 16 / 23
Receiving ID#	ICI 16 23 08
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	20:32
Time out	
Received by	
Sampled by	A. Worly
	· · · · · · · · · · · · · · · · · · ·

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		44. glyta - 11. 1. 14. 1
Flash Point (F)	7 1400	
pH (S.U.)	6,46	,
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	<i>i</i>
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	55°	
Conductivity	28.	\$
% Solids	1.15	
Turbidity	Yes	No
Color		
TSS (%)	Z 0.1.	•
Radiation Screen (as needed)		
Lab Signature/Initials		Ka
		71 8

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INFO	DRMATION /	
Date	1 /	16/23
Receiving ID#	IO(16)	2304
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	16:4	9
Time out		
Received by		
Sampled by	AWC	11.4

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	7 1400	
pH (S.U.)	4.13	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	53.0	
Conductivity	30.2	
% Solids	1.21	
Turbidity	Yes	No
Color		
TSS (%)	海人(0.1	
Radiation Screen (as needed)		$\triangle A$
Lab Signature/Initials	an/	IIII

RECEIVING INFO	
Date	1 6 /23
Receiving ID#	tol162303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:57
Time out	, ,
Received by	
Sampled by	Darly Row

LAB INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste	-	
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	1 211	10
pH (S.U.)	4.8	b
Cyanides? (mg/L)		
Sulfides? (ppm)?		-
Specific Gravity	1.0	2
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No.
Temperature (F)	52	-10
Conductivity	24,	5 mg_
% Solids	1-21	0
Turbidity	Yes	No
Color		
TSS (%)	0.1	٨
Radiation Screen (as needed)	Λ.Λ	
Lab Signature/Initials	1 N. X	) V.
		NVV

**Receiving & Departure Approval Form** 

Revision 6 1/20/20

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RECEIVING INFO	RMATION
Date	1 1/6 12
Receiving ID#	IO162302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:16
Time out	<u> </u>
Received by	L
Sampled by	m
	V

	····	<del>,</del>	
LAB INFORMA	ATION:		
Compatible? (RT# )			
PCBs (ppm) (Oily Waste	· ·		
Only)?			
TOC ppm (CC Waste Only)?			
Flash Point (F)	3/40 5.41		
pH (S.U.)	5.41	1	
Cyanides? (mg/L)			
Sulfides? (ppm)?			
Specific Gravity	1.02		
Physical Description			
Stream Consistency	Yes	No	
Oil in Sample?	Yes	No	
Temperature (F)	64.6		
Conductivity	22.60	ms	
% Solids	0.92	0.92-	
Turbidity	Yes	No	
Color			
TSS (%)	(0.1		
Radiation Screen (as needed)			
Lab Signature/Initials		)	
	1.10	1	

RECEIVING INF	ORMATION
Date	1 / 16 / 23
Receiving ID#	T01162301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escelar
Sampled by	h Escular

LAB INFORMA	ATION :	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>110°	
pH (S.U.)	6.12	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	56°	
Conductivity	14.18	
% Solids	1.03°0	
Turbidity	Yes	No
Color		
TSS (%)	50.1	
Radiation Screen (as needed)		
Lab Signature/Initials	n Excolo	n

RECEIVING INFORMATION			
Date	/ //3 /23		
Receiving ID#	I01132304		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	16:56		
Time out			
Received by			
Sampled by	Alvarling		

LAB INFORMA	ATION :	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		,
TOC ppm (CC Waste Only)?		
Flash Point (F)		
pH (S.U.)	4,73	)
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes ,	No
Temperature (F)	56°	
Conductivity	25.6	
% Solids	1.44	
Turbidity	Yes	No
Color		
TSS (%)	LO, 1	
Radiation Screen (as needed)	1	$\mathcal{L}$
Lab Signature/Initials	LAN	X
	777	A.A.

RECEIVING INFO	ORMATION
Date	/ 1/3 123
Receiving ID#	I01/32303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:15
Time out	
Received by	Mah
Sampled by	1

		According to the Control of the Cont
LAB INFORMA	JION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		,
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	4.28	5
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	58	
Conductivity	24.5	5 m 5
% Solids	1.49	
Turbidity	Yes	No
Color		
TSS (%)	0-5	
Radiation Screen (as needed)	1 1 5	
Lab Signature/Initials		)
	1.0	K

	1120271112007117
RECEIVING INF	FORMATION
Date	/ //3 /23
Receiving ID#	I01132302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10:05
Time out	
Received by	1 January 1
Sampled by	DM

LAB INFORMA	KTION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		<del></del>
Flash Point (F)	>141	)
pH (S.U.)	2.70pH	
Cyanides? (mg/L)	£ 30	
Sulfides? (ppm)?	2200	
Specific Gravity	1.02	
Physical Description		······································
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	61.	2
Conductivity	12:77.05	
% Solids	1.51	
Turbidity	Yes	No
Color		
TSS (%)	0.1	
Radiation Screen (as needed)	1	<b>A</b>
Lab Signature/Initials	HX	11)
•		M.

RECEIVING INF	ORMATION
Date	1 / 13 / 23
Receiving ID#	T01132301
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escolar
Sampled by	n Escolar

LAB INFORM	ATION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	6.51	:
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	620	
Conductivity	10.37	
% Solids	.58 014	
Turbidity	Yes	No
Color		
TSS (%)	<0.1°10	
Radiation Screen (as needed)		
Lab Signature/Initials	n Escola	h

RECEIVING INF	ORMATION
Date	1 //2 /23
Receiving ID#	TO112 23 05
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	10918 1/13/23
Time out	
Received by	TIMM
Sampled by	1 A. Worling

			ı
LAB INFORM	ATION		
Compatible? (RT# )			
PCBs (ppm) (Oily Waste			
Only)?			į
TOC ppm (CC Waste Only)?			
Flash Point (F)	>140		
pH (S.U.)	6.40		į
Cyanides? (mg/L)			
Sulfides? (ppm)?			
Specific Gravity	1.01		
Physical Description			
Stream Consistency	Yes	No	
Oil in Sample?	Yes	No	
Temperature (F)	1-699	7	0.
Conductivity	10.7	2~5	
% Solids	050		
Turbidity	Yes	No	
Color			
TSS (%)	01		
Radiation Screen (as needed)	Pail		
Lab Signature/Initials			
		v 9	

	(	3 3 X X X
DECEMBIO/INC	STARTION.	
RECEIVING INFO	RMAHON	
Date	1 / 1 / 2 / 23	i .
Receiving ID#	IOI 12 23 04	
Manifest # Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator		7
Client		
Transporter		
Time in	0940 4	73/2
Time out		7
Received by	LYOL	
Sampled by	B. Worting	

		Tarka a sia suche urumanahan
LAB-INFORMA	MOIT	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 14	H)
pH (S.U.)	2.15	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	70.8	
Conductivity	26,0	105
% Solids	1.60	
Turbidity	Yes	No
Color		
TSS (%)	0.1	
Radiation Screen (as needed)		
Lab Signature/Initials		

RECEIVING INF	ORMATION
Date	000112 123
Receiving ID#	IO1122303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:00
Time out	
Received by	n Generala
Sampled by	Simton

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	<u> </u>	
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140°	
pH (S.U.)	2.37	
Cyanides? (mg/L)		
Sulfides? (ppm)?		······
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	57°	
Conductivity	27.1	
% Solids	2.47000	
Turbidity	Yes	No
Color		
TSS (%)	0.500	
Radiation Screen (as needed)		
Lab Signature/Initials	n Escolar	

Date	PRMATION /	12 /23
Receiving ID#	IOIIZZ	
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		<u> </u>
Time in	12.00	1/12/25
Time out		1
Received by		\ <u>i</u> /\
Sampled by	The	小人

		4 2400 4 048 X Y R C T T T T T
LAB INFORMA	TION	
Compatible? (RT# )		4386 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A. 1886 A
PCBs (ppm) (Oily Waste	-	
Only)?	<u> </u>	
TOC ppm (CC Waste Only)?	<u></u>	-
Flash Point (F)	14	$\nu$
pH (S.U.)	6.3	<u>له</u>
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1-01	<u> </u>
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	65	5,4
Conductivity	200	ms_
% Solids	0.8	<u> 32                                   </u>
Turbidity	Yes	No
Color		
TSS (%)	<0-	1
Radiation Screen (as needed)		
Lab Signature/Initials		KIKM
	1	F - F

RECEIVING INF	ORMATION
Date	1 /12 /23
Receiving ID#	J01122301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	06:30
Time out	
Received by	n Escolar
Sampled by	n Escolar

LAB: INFORMA	TION"	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		<del> </del>
Flash Point (F)	>140	
pH (S.U.)	6.24	· · · · · · · · · · · · · · · · · · ·
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	54°	
Conductivity	21.1	
% Solids	1.27%	
Turbidity	Yes	No
Color		
TSS (%)	<0.1%	
Radiation Screen (as needed)		
Lab Signature/Initials	n Exclo	~

RECEIVING INFO	ORMATION
Date	1 / 1 / 23
Receiving ID#	IOI112305
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	112:00 1/12/23
Time out	1
Received by	I NOW
Sampled by	A. Wart of

LAB INFORMA	HON:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	) /4	0
pH (S.U.)	5.1	0
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	71.7	
Conductivity	17.29	~5_
% Solids	1.06	2
Turbidity	Yes	No
Color	- <sub>4</sub>	
TS\$ (%)	1602	0.1
Radiation Screen (as needed)	<u> </u>	
Lab Signature/Initials		

	I VECTORINA COLUMNIA	7.7
RECEIVING INFO	ORMATION	
Date	1 / 11 / 23	
Receiving ID#	IO1112304	
Manifest # Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator		
Client		
Transporter		
Time in	12:00 412/2	(کی
Time out		/
Received by	IL BI	1
Sampled by	A. Warly	ľ

	**************************************	
LAB INFORMA	TION	1
Compatible? (RT# )		ann
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	1 2140	
pH (S.U.)	3.21	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	The second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the section is section in the section in the section in the sectio
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	71.6	
Conductivity	16.07	
% Solids	099	
Turbidity	Yes	No
Color		
TSS (%)	(01	1
Radiation Screen (as needed)	<u> </u>	
Lab Signature/Initials	1 11 4	M
	(1)	

Electric Control	
RECEIVING INF	ORMATION
Date	/ / / / / / 23
Receiving ID#	x01112303
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	12:15
Time out	
Received by	A. YOM
Sampled by	UT.G.

LAB INFORMA	ATION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	1140	
pH (S.U.)	3,35	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.03	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	56.4	
Conductivity	24.0	m5
% Solids	1.78	
Turbidity	Yes	No
Color		
TSS (%)	100	
Radiation Screen (as needed)	1	
Lab Signature/Initials	100	<u>y</u>
	1.0	Also

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line was a succession
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LAB INFORM	XTION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		,
TOC ppm (CC Waste Only)?		Marine de la compansión de la compansión de la compansión de la compansión de la compansión de la compansión d
Flash Point (F)	>140 5.8	)
pH (S.U.)	5,8	1
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	104	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	54	.7
Conductivity	371	e co 5
% Solids	2.96	,
Turbidity	Yes	No
Color		
TSS (%)	200	)
Radiation Screen (as needed)		
Lab Signature/Initials	5.1	

Date	01 ///	/ / 23
Receiving ID#	I01/123	0/
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	08:45	•
Time out		
Received by	4.10	h
Sampled by	177	

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 140	
pH (S.U.)	7.15	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.0)	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes 🗸	J) No
Temperature (F)	63.64	-5
Conductivity	663	<u>-Ś</u>
% Solids	0.66	>
Turbidity	Yes	No
Color		ن در در در در در در در در در در در در در
TSS (%)	10-1	
Radiation Screen (as needed)		
Lab Signature/Initials	TIM'	λ)
	1110	M

	IVECTIVITY	i OC MI I	IVO AVE
RECEIVING INFO	ORMATION .		
Date	1 110	1 / 23	
Receiving ID#	I011023	03	
Manifest# Line			
Land Ban Cert included	Yes	No	]
EGT Approval #			
Generator			
Client			
Transporter			
Time in	08/45	11	11:23
Time out		1	
Received by	LB	h	
Sampled by	1 PW		
	~		

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LAB INFORMA	TION	1
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	7.20	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	[-0]	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	66-5	
Conductivity	9.79,	~<
% Solids	0.23	· • · · · · · · · · · · · · · · · · · ·
Turbidity	Yes	Nò
Color づり	_ <u>_</u> _	
TSS (%)	201	
Radiation Screen (as needed)		
Lab Signature/Initials		W
	170	

	Section States
RECEIVING INFO	ORMATION
Date	\ / \ \ / 23
Receiving ID#	I01102302
Manifest # Line	i da di la canana da da da da da da da da da da da da da
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11,00
Time out	0 1 1
Received by	Trph
Sampled by	1/27-

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	7.20	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	52.5	<i>⊱</i>
Conductivity	20.3	<u>~</u>
% Solids	0.84	
Turbidity	Yes	No
Color		
TSS (%)	10-10	
Radiation Screen (as needed)		· · ·
Lab Signature/Initials	1/1/	)
	TONY	<b>\</b>

RECEIVING INF	ORMATION
Date	01 /10 /23
Receiving ID#	T01102301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	
Received by	niewlar Escular
Sampled by	nicolar Exclar

LAB- INFORMA	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	7.27	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	<u> </u>
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	51°	
Conductivity	20.9	
% Solids	1.6300	
Turbidity	Yes	Nö
Color		
TSS (%)	<0.100	
Radiation Screen (as needed)		er,
Lab Signature/Initials	nicolar Es	alor

RECEIVING INFO	ORMATION
Date	1 / 9 / 23
Receiving ID#	IO1092302
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	18:23 1/10/2
Time out	
Received by	AKK
Sampled by	1/ 1 aw

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 14	<u>v                                    </u>
pH (S.U.)	7.18	3
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1-0	2
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	68	.2_
Conductivity	31.1	<u>n5</u>
% Solids	1.4	6
Turbidity	Yes	No
Color		
TS\$ (%)	10	-)
Radiation Screen (as needed)	4	<u> </u>
Lab Signature/Initials	LA.Y	11/
		$\mathcal{F}$

Receiving & Departure Approval Form

Revision 6 1/20/20

**	
RECEIVING INFO	ORMATION
Date	1 / 9 / 23
Receiving ID#	I01092501
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	15:25
Time out	
Received by	1-10hr
Sampled by	( ) A, w.

LAB INFORMA	TION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	10
pH (S.U.)	6.9	12-
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	100	3
Physical Description	_	
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	53	<i>ر</i> 2,
Conductivity	37.1	<u>_</u>
% Solids	1.10	6
Turbidity	Yes	No
Color		
TSS (%)	40.	10
Radiation Screen (as needed)		$\perp L_{\star}$
Lab Signature/Initials	A. V	JX.
	7 1 7	V -

	a feet of the		
RECEIVING INFORMATION			
Date	17 /23		
Receiving ID#	160107 23 02		
Manifest# Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	12:58		
Time out			
Received by	J. When		
Sampled by	I		

LABRINEORMA	TION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>2 W	
pH (S.U.)	4.09	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.07	
Physical Description	1	
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	63.7	
Conductivity	62.1	~ S
% Solids	8.25	
Turbidity	Yes	No
Color		
TSS (%)	2.00	
Radiation Screen (as needed)	1 1/0	
Lab Signature/Initials	1.1	•
		•

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INF	ORMATION		
Date	1 17 /23		
Receiving ID#	I0/072301		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	8:27		
Time out			
Received by	1.62		
Sampled by	//AW		
,			

LAB INFORMA	(TION)	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	214	)
pH (S.U.)	518	3
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	10	5
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No.
Temperature (F)	631	}
Conductivity	45,4	m5
% Solids	4.6	)
Turbidity	Yes	No
Color		
TSS (%)	201	Λ
Radiation Screen (as needed)	1 1	
Lab Signature/Initials		

Receiving & Departure Approval Form

Revision 6 1/20/20

ages (C. 18)	2.65	
RECEIVING INFO	RMATION /	6 /23
Receiving ID#	I01062	the second state of the se
Manifest # Line		
Land Ban Cert included	Yes	No
EGT Approval #		
Generator		
Client		
Transporter		
Time in	(8:1)	.3
Time out		N
Received by	LA	Kr
Sampled by	1) On	
	$\mathcal{O}$	

LAB INFORM	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	1 27	140
pH (S.U.)	lo.	23
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	63	,7
Conductivity	2-30	ク
% Solids	40	2
Turbidity	Yes	No
Color		
TSS (%)	10-	
Radiation Screen (as needed)		D
Lab Signature/Initials	CX L	X
		10

	pulse Charles and the second
RECEIVING INFO	RMATION
Date	1/6/22
Receiving ID#	T040623073
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	,
Client	
Transporter	
Time in	14:30
Time out	1
Received by	A. Ah
Sampled by	Neclar Excelan

LAB INFORMA	ATION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	<i>U</i>
pH (S.U.)	5.6	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.04	Ì
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	550	2
Conductivity	37.2	ms
% Solids	1.52	
Turbidity	Yes	No
Color		
TSS (%)	(0.)	
Radiation Screen (as needed)		
Lab Signature/Initials		
		$\mathcal{X}$

Receiving & Departure Approval Form

Revision 6 1/20/20

RECEIVING INFO	RMATION
Date	1/6/22
Receiving ID#	I01062302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	11:20
Time out	
Received by	LKI km
Sampled by /	TANK.

LAB INFORM	ATION	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	5.50	
Cyanides? (mg/L)	***	
Sulfides? (ppm)?		
Specific Gravity	1.050	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	55°	
Conductivity	50.9	
% Solids	5.8700	
Turbidity	Yes	No
Color		
TSS (%)	0.5010	
Radiation Screen (as needed)	1	Ú

Receiving & Departure Approval Form

Lab Signature/Initials

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Revision 6 1/20/20

RECEIVING INF	ORMATION
Date	1/6/22
Receiving ID#	T01062301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	07:00
Time out	en en en en en en en en en en en en en e
Received by	Escelar
Sampled by	Escolar

LAB INFORMA	TION :	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?	<u> </u>	
TOC ppm (CC Waste Only)?		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>
Flash Point (F)	>140	
pH (S.U.)	7.25	
Cyanides? (mg/L)		
Sulfides? (ppm)?		**
Specific Gravity	1.000	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	55°	
Conductivity	<b>1</b> 3.32	
% Solids	.6300	
Turbidity	Yes	No
Color		
TSS (%)	<0.1	
Radiation Screen (as needed)		
Lab Signature/Initials	tecolor	

RECEIVING INFO	PRMATION
Date	01/05/22
Receiving ID#	F01052302
Manifest# Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	108:10 1/6/2
Time out	. ^ /
Received by	M. X)X
Sampled by	1/66
;·	

	···	
LAB INFORMA	(TION)	
Compatible? (RT# )	11	
PCBs (ppm) (Oily Waste	4	
Only)?	<u> </u>	
TOC ppm (CC Waste Only)?		
Flash Point (F)	> 242	)
pH (S.U.)	6.86	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.07	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	69.7	
Conductivity	163	7
% Solids	1.02	1
Turbidity	Yes	No
Color		
TSS (%)	10-1	
Radiation Screen (as needed)		
Lab Signature/Initials	I V	1
	1 - 1	N

RECEIVINGINE	RMATION
Date	1/5/22
Receiving ID#	10108301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	08:08 16
Time out	
Received by	1 Bh
Sampled by	() Den

LAB INFORMA	ATION .	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	0
pH (S.U.)	Lor	89
Cyanides? (mg/L)		<i>V</i>
Sulfides? (ppm)?		
Specific Gravity	1.0%	)
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	69,0	7
Conductivity	226	ms
% Solids	0.47	
Turbidity	Yes /	No
Color		
TSS (%)	40-1	
Radiation Screen (as needed)		
Lab Signature/Initials	1 1	
		JA-K

4.0			
RECEIVING INFORMATION			
Date	11/4/22		
Receiving ID#	Z01042302		
Manifest # Line			
Land Ban Cert included	Yes No		
EGT Approval #			
Generator			
Client			
Transporter			
Time in	21:36		
Time out			
Received by	J. Ala.		
Sampled by	( ) AW		

LAB INFORMA	TION	
Compatible? (RT# )	CHOIN .	
PCBs (ppm) (Oily Waste		<del></del>
Only)?	***************************************	
TOC ppm (CC Waste Only)?		
Flash Point (F)	>240	
pH (S.U.)	6.40	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	69.7	**************************************
Conductivity	17-58.	<u> ر</u> ج
% Solids	1.25	Y
Turbidity	Yes	No
Color		
TSS (%)	301	
Radiation Screen (as needed)	1 1	# 15 m
Lab Signature/Initials	KACL	

and the second s	All Park
RECEIVING INFO	DRMATION
Date	1/4/22
Receiving ID#	I61042301
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	13:05
Time out	
Received by	1.0-6
Sampled by	Caserlan

·		
LAB INFORMA	VION:	
Compatible? (RT# )		
PCBs (ppm) (Oily Waste		
Only)?		,
TOC ppm (CC Waste Only)?		
Flash Point (F)	>14	0
pH (S.U.)	7.29	
Cyanides? (mg/L)	•	
Sulfides? (ppm)?		
Specific Gravity	1.01	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	59.	8
Conductivity	16,6	6
% Solids	0.5	
Turbidity	Yes	No
Color		
TSS (%)	< a1	:
Radiation Screen (as needed)		
Lab Signature/Initials		
	LIAN	M

RECEIVING INFO	ORMATION:
Date	01/03/22
Receiving ID#	工01037302
Manifest # Line	
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	109:10 11412
Time out	
Received by	J. How work
Sampled by	

LAB INFORM	ATION :	
Compatible? (RT# )	4	
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	>140	
pH (S.U.)	7.0)	
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No
Temperature (F)	9.05	
Conductivity	17.61	~ {
% Solids	0.87	7
Turbidity	Yes	No
Color		
TSS (%)	(0)	
Radiation Screen (as needed)		N
Lab Signature/Initials	1110	<u> </u>
	(	7

RECEIVING INFO	DRMATION	
Date	02/03/22	
Receiving ID#	TO 403030L	
Manifest # Line		
Land Ban Cert included	Yes No	
EGT Approval #		
Generator	,	
Client		
Transporter		
Time in	13.00	\
Time out	A N	()
Received by	J. (1.0)	K
Sampled by	1×1×E/11	4

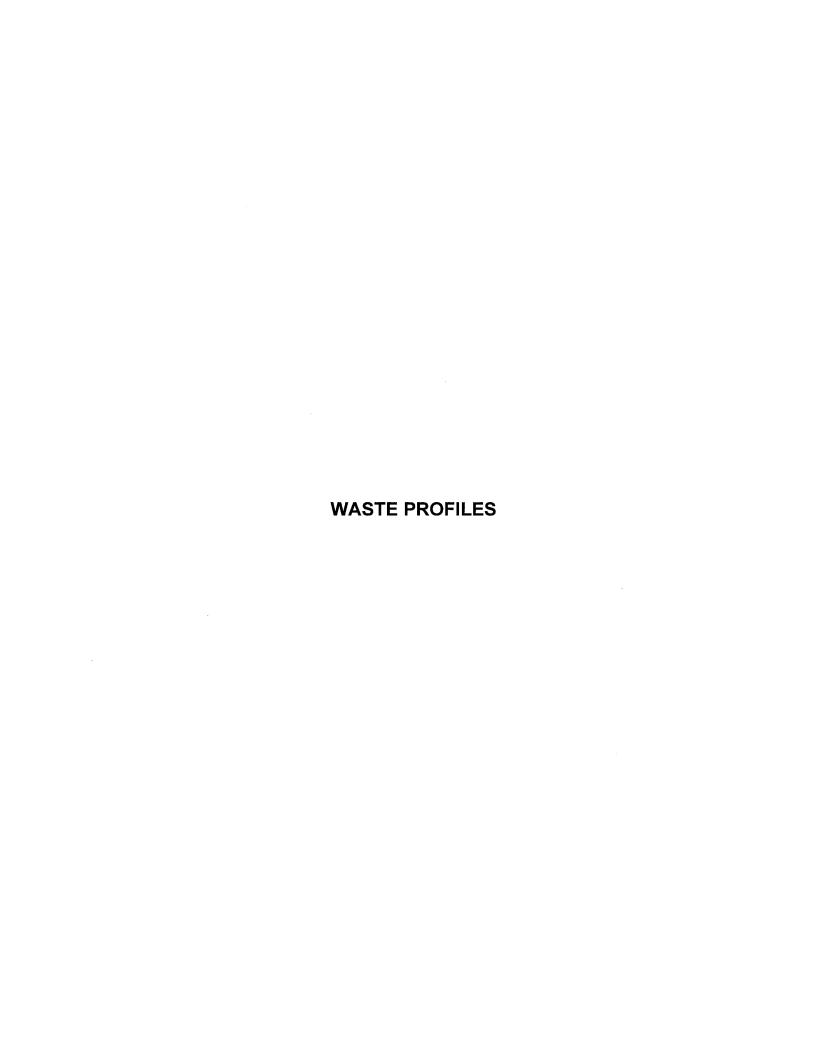
TAB WEADING		
LABINFORMA	HIUN :	
Compatible? (RT# )	<u> </u>	
PCBs (ppm) (Oily Waste		
Only)?		
TOC ppm (CC Waste Only)?		
Flash Point (F)	322	Ø
pH (S.U.)	7.4	40
Cyanides? (mg/L)		
Sulfides? (ppm)?		
Specific Gravity	1.02	_
Physical Description		
Stream Consistency	Yes	No
Oil in Sample?	Yes	No.
Temperature (F)	65	
Conductivity	260	m§
% Solids	1-80	
Turbidity	Yes	No
Color		
TSS (%)	(0)	
Radiation Screen (as needed)		

Lab Signature/Initials

**Receiving & Departure Approval Form** 

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Revision 6 1/20/20



REPUBLIC"	R	epub			rvices	•			
	SPECIAL WA	ASTE DEF	PARTN	<b>IENT</b>	DECISION				
	Waste Profile 6440230258	#		Expirat 1/5/202	tion Date 24				
I. Decision Request:	✓ Initial	Recert	ification	n (	☐ Change			** ** *********************************	
Disposal Facility: 6440 - Detroit Ind Well		······································				t			
Generator Name: EQ DETROIT	·								
Generator Site Address: 1923 FREDERIC	K								
City: DETROIT	County:		1	State: N	MI	7	Zip:		
Name of Waste: ELECTROLESS NICKEL				***************************************					
Estimated Annual Volume: 30,000 Gallons	3								
Problematic Special Waste according to if yes, which one?  Approved by Special Waste Review Com  The site must ensure that all pre-accel prior to acceptance and disposal of the	mittee? ( Precautions, C		Not A	ations	on Approval	with the si	ite's perm	nit require	ments
If yes, which one?  Approved by Special Waste Review Com  The site must ensure that all pre-accel	mittee? ( Precautions, C	⊃Yes ○No	Not A	ations	on Approval	with the si			ments
If yes, which one?  Approved by Special Waste Review Com  The site must ensure that all pre-acception to acceptance and disposal of the special Waste Analyst Signature:  Date: 1/6/2023	mittee? ( Precautions, C	Yes O No  onditions o  ation analytic	Not A	ations	on Approval in accordance v				ments
If yes, which one?  Approved by Special Waste Review Com  The site must ensure that all pre-accel prior to acceptance and disposal of the Special Waste Analyst Signature:	mittee? ( Precautions, C	Yes O No  onditions o  ation analytic	Not A	ations	on Approval in accordance v				ments

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the special waste file is complete.

General Manager or Designee:

Date: 1/6/2023

Name (Printed):

#### Republic Industrial and Energy Solutions, LLC 28470 Citrin Dr, Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002 GENERATOR WASTE PROFILE 6440230258 Profile # **GENERATOR INFORMATION** USEPA ID # MID 980991566 Name: EQ Detroit Facility Address: 1923 Frederick SIC/NAICS Code: State Code: 4953/562211/D00026 City: Detroit State: Michigan Zip Code: 48211 Contact: Annie Pangburn Title: Operations Manager Phone: (734) 366-3582 Fax: ( **BILLING INFORMATION** SAME AS ABOVE Company Name: US Ecology Address: 17440 College Parkway Suite 300 City: Livonia State: Michigan Zip Code: 48152 Phone: (734) 521-8000 Attention: accounts.payable@usecology.com Title: Fax: ( **WASTE INFORMATION** Name of Waste/Common Chemical Name: Electroless Nickel Process Generating Waste (Please be specific, incomplete information may delay the approval process): Waste electroless nickel baths spent and off spec **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: 029L PHYSICAL CHARACTERISTICS OF WASTE Color: Suspended Solids Layers: Specific Gravity: ☐ White/Clear **⊡**r 0-1% □ 3-5 % ☐ Multi layered 8.0> @1.0 -- 1.2 □ Black/Brown Q 1-3 % D > 5% □ Bi-Layered ₩ 0.8 -1.0 1.3 -1.4 Other ☑ Single Phase Exact / Other □NA □ < 2 □ 2 -- 4 ₽ 4 -- 6 **№** 8-10 □ 10 — 12.5 □ >12.5 **2** 6 — 8 Liquid Flash Point: 🛘 <73°F 🗀 73—100°F 🗀 101—140°F 🗀 141—200°F 🗹 >200°F 🗅 None 🗹 Closed Cup 🗅 Open Cup VOC CONCENTRATION - 0 PPM (MUST BE COMPLETED) TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (L1ST EACH CONSTITUENT <>1= 0.1%) CONSTITUENT MAX MIN CONSTITUENT MAX MIN Nickel Plating Bath 100

Solids

Republic Industrial & Energy Solutions - 28470	Citrin Drive - Romulus - MI - 48174			Was	te Profile - I	Page 2
Metals: Indicate if this waste contains any of the If Generator knowledge-provide backup 🗅 Lab	e fullowing metals Analysis Ø Generator Knowledge	O TCLP OTOTA	AL.			
Not Concentration Present PCB Ør. ppm Aromatic	Not Concentration Present Amine 2ppm	Arsenic (As) Barium (Ba) Cadmium (Cd)	D004 D005 D006	221 <5 1221 <100 1221 <1	ppm ppm ppm	ppm ppm ppm
Dioxins ppm Pesticide Cyanides Reactive ppm Rodentic Cyanides Total ppm Fungicide Sulfides Total ppm ppm	s 🗹ppm ides 🗹ppm	Chromium (Cr) Lead (Pb) Mercury (Hg) Selenium (Se) Silver (Ag)	D007 D008 D009 D010 D011	22 <5 22 <5 22 <0.2 22 <1 22 <5	ppm ppm ppm ppm ppm	ppm ppm ppm ppm
TCLP Organics D012 — D043 above regula	atory limits: Present 🗅 Not Prese	ent 121				
	At Least One Box Must Box Dividizer ☐ Shock Sensitive ESHAP Wastes (Benzene, etc.)	☐ Reactive (other)	D DC	•	/es	
SHIPPING INFORMATION  1. Is this a DOT Hazardous Material (48)  2. Reportable Quantity (RQ) in pounds 100	·	•		_		
3. DOT Shipping Name Environmentally				Class 9	UN/N	<sub>A</sub> 3082
PG III ERG 171 Hazardous Con  4. Method of Shipment: ☑ Bulk Tanker  5. Number of Units to Ship Now 5000 gallo  6. Special Handling Requirements including revel D PPE with chemical resistant gloves	□ Vac truck □ Rail C	ar 🖸 Drums		⊠Totes ) gallons	or 🗅	One Time
CERTIFICATION STATEMENT I hereby represent and warrant that I have pattached documents. Based on my inquiry a information, the information contained herei material fact has been omitted as to make the in the handling and processing of the waste	nd personal knowledge of those n is true, accurate, and complete nis information misleading. I unde	individuals responsite to the best of my kr	ole for si lowledge	upplying or and belief	obtaining t	the ore no
If this box is checked 🗆 I request Republic Indu Solutions makes will be consistent with the resu	strial & Energy Solutions not to con lits of the sample characterization a	rect any inconsistencie nd/or regulatory requi	ements.			
Printed Name: Steve Gryniewicz  Generator's Signature: Steve Gryniewicz	icz			Materia 1/5/23	ls Mana	ger
GENERATOR'S CHAIN OF CUSTOW waste described in the above referenced GEN obtained using any of the applicable sampling myou have problems obtaining a representative sarepresentative.	ODY RECORD INSTRUC JERATORS WASTE PROFILE REPOR	RT using an appropria dix 1. Fill in the sampli	ollect a r	epresentati	resentative	eample ie on
SAMPLING METHOD COLL	ECTION POINT					
SAMPLE COLLECTOR'S NAME, TITLE	, EMPLOYER					
Sample No. Proceedings of CUSTODY Each person who	reservation: Yes 🗆 No 🗅 handles the sample must sign i	below when the sam	pie pas:	ses from or	ne to anoth	ner.

Received by: (Signature)

Date

Relinquished by: (Signature)

Date

Time

REPUBLIC SERVICES	<b>?</b> "		Re	•			rvices
	SF	PECIAL	WA				Γ DECISIO
		Waste Pi 644022	ofile #			<del></del>	tion Date
l. Decision Request:		<b>☑</b> Initi	al	Rec	ertificati	วท	Change
Disposal Facility: 6440 - Detroit Ind	~~~~						
Generator Name: QUALITY METAL		G					
Generator Site Address: 421 N. W.	ALNUT ST	1				T	
City: BYRON		County:				State:	<u> L</u>
Name of Waste: SPENT NITRIC AC		······································					
Estimated Annual Volume: 32 Drur	ns					······	
II. Special Waste Departmen	t Decisio	on:	(	Approx	ved ORe	ected	
Management Method(s):	) Landfill	☐ Soli	dificatio	on [	) Bioremedia	ation	Deep Well
Problematic Special Waste accord	ling to Rep	oublic?	(	⊃ <sub>Yes</sub> €	No No		
If yes, which one?							
Approved by Special Waste Review	0	40			No O No		

special waste file is complete.

Date: 10/26/2022

General Manager or Designee:

### Precautions, Conditions or Limitations on Approval

Zip:

Transfer Facility

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

Special Waste Analyst Signature: _ Date: 10/26/2022	<u> </u>	Name (Printed): <u>KEITH DIAMANTI</u>
III. Facility Decision:	Фарр	proved ORejected
	Precautions, Conditions or Li	imitations on Approval

By signing below, the General Manager or Designee agrees that a fully executed Special Waste Service Agreement is on file for this profile and that the

Name (Printed):

Republic Industrial and Energy Solutions, LLC 28470 Citrin Dr., Romulus, MI 48174. Telephone 734 946 1000. Fax 734 946 1002 Profile #  GENERATOR WASTE PROFILE 64402214813
GENERATOR INFORMATION Name: QUALITY METAL FINISHING USEPA ID # ILD005215421
Facility Address: 421 N. WALNUT ST SIC/NAICS Code: State Code:
City: BYRON State: IL Zip Code: 61010
Contact: JOE BORTOLI Title: MANAGER Phone: (4.1.5.) 234-2777 Fax: ( )
BILLING INFORMATION SAME AS ABOVE Company Name: ASE ENVIRONMENTAL (ALLSOURCE)
Address: 17W775 BUTTERFIELD RD / SUITE 102C
City: OAKBROOK TERRACE State: IL Zip Code: 60181
Attention: JR WHITE Title: CEO Phone: (+3 to ) 417-9410 Fax ( )
Name of Waste/Common Chemical Name:  SPENT NITRIC ACID STRIP  Process Generating Waste (Please be specific, incomplete information may delay the approval process):  MITRIC IS USED TO REMOVE TREEING OR METAL PLATING BUILDUP FROM RACK TIPS (WHERE PARTS ARE HUNG) OF PLATING PROCESS.  USEPA / STATE WASTE IDENTIFICATION  1. This waste is considered to be:
2. Regulated by TSCA? CIYES CINO (PCBs, etc.)
3. List ALL Applicable Waste Codes: D002 D007 D008 D010
PHYSICAL CHARACTERISTICS OF WASTE
Color: Suspended Solids Layers: Specific Gravity:
□ White/Clear □ 0-1% □ 3-5% □ Multi layered □ <0.8 □ 1.0 — 1.2
☐ Black/Brown ☐ 1-3 % ☐ > 5% ☐ Bi-Layered ☐ 0.8—1.0 ☐ 1.3—1.4 ☐ Other
and Single Prizes Exact / Otner
pH: QNA W < 2 Q 2 - 4 Q 4 - 6 Q 6 - 8 Q 8 40 D 40 40 5 D 40 5
2 5 10 10 10 10 12.5 U >12.5
Liquid Flash Point: © <73°F © 73100°F © 101140°F © 141200°F © >200°F © None © Closed Cup © Open Cu
Liquid Flash Point: 🖸 <73°F 🖸 73100°F 🖸 101140°F 🖸 141200°F 🖸 >200°F 🗹 None 🗅 Closed Cup 🗓 Open Cu VOC CONCENTRATION - NONEPPM (MUST BE COMPLETED)
Liquid Flash Point: 0 <73°F 0 73100°F 0 101140°F 0 141200°F 0 >200°F 1 None 0 Closed Cup 0 Open Cup  VOC CONCENTRATION - NONE PPM (MUST BE COMPLETED)  TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT <>1= 0.1%)
Liquid Flash Point:
Liquid Flash Point: 0 <73°F 0 73100°F 0 101140°F 0 141200°F 0 >200°F 1 None 0 Closed Cup 0 Open Cup  VOC CONCENTRATION - NONE PPM (MUST BE COMPLETED)  TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT <>1= 0.1%)

Metals: Indicate if thi If Generator knowled	is waste contains any Ige-provide backup S	y of the following m 2 Lab Analysis 2	etals Generator Know	ledge DATCLP DTG	OTAL				
	Not Concentration	Not	Concentration	Arsenic (As)	D004	¥4 <5	ppm		ppm
	Present	Present	t	Barium (Ba)	D005	<b>☑</b> <100	ppm		ppm
PCB	Ø ppm Ar	omatic Amine 🛭	ppm	Cadmium (Co	I) D006	<b>92 &lt;1</b>	ppm		ppm
Dioxins	•••	esticides 🖾	ppm	Chromium (C	•	□ <5 □ ~	ppm	150	ppm
Cyanides Reactive	••	odenticides 🖸	ppm	Lead (Pb)	D008	Q <5	ppm	15	ppm
Cyanides Total Sulfides Reactive	☐ <1 ppm Fu ☐ <10 ppm	ingicides 🖸	ppm	Mercury (Hg) Selenium (Se	D009 D010	©1 <0.2 □ <1	ppm	Ż.	ppm
Sulfides Total	[] <10 ppm			Silver (Ag)	D011	© <5	ppm		ppm
	012 — D043 above	regulatory limits:	: Present 🔾 Noi				••		
IS WASTE ANY	OF THE FOLLOWING	G? At	Least One Box i	lust Be Checked.			~		
☐ Radioactive	☐ Water Reactive	Oxidizer	☐ Shock Sensi	tive 🛛 Reactive (otl	1 <b>01) 🗓 D</b> (	OT Explosiv	res		
CI NIOSH Human-P	ositive Carcinogens	☐ NESHAP Wa	stes (Benzene, e	etc.) 🗆 Biological 🖫	None Appl	У			
	FORMATION Hazardous Mater	ial (49CFR 172.	101 & 173 Sut	part D)? 52 Ye	s □ No				
•	ntity (RQ) in pounds_								
	WASTE NIT					Class 8	UI	N/NA	UN1826
PG II ERG	S Hazardo	us Constituents fo	or "n.o.s." (NIT)	RIC ACID, CHROMIU	M)				
4. Method of Shipr	nent:			Rail Car 2 Dr d Volume / Units per Yea		ロTotes リーろ) わ		r D O	Ine Time
6. Special Handlin	ng Requirements inc	cluding PPE:	o. / alboipato	o volumo i omio per rec	. <u>- Le</u>				
NITRILE GLOVES	S, PACE SHIELD, T	YVEK	···			Dw:	. DV	νγΛ	^
I hereby represent attached document information, the in- material fact has b	its. Based on my in- formation contained	have personally equiry and personal herein is true, a make this informa	al knowledge of ccurate, and co tion misleading,	m familiar with the info those individuals respo mplete to the best of m I understand that othe	nsible for s y knowledg	upplying or e and belief	obteini f. Furthe	ng the	e, no
				t to correct any inconsi				ronm	ental Geo-
Printed Name: JC	DE BORTOLI	·			Title	PRESID	ENT		
Generator's Signatu	re:TOPN	<del>R+</del>			Date	10/6/22	······································		
waste described in obtained using any	the above reference of the applicable s	ed GENERATORS ampling methods	WASTE PROFILE cited in 40 CFR	RUCTIONS: PLEAS REPORT using an appr 261-Appendix 1. Fill in waste, please contact y	opriate cont the sampli	ainer. A rep ng informati	resenta on in th	tive s e spa	ample is one ces provided
1. COMPOSITE	2.	2 OF 6 DRUMS	i			· · · · · · · · · · · · · · · · · · ·			
SAMPLING MET	HOD	COLLECTION P	POINT						l
3 NATHAN HU	DAK								
	LECTOR'S NAME,	TITLE, EMPLOY	'ER						
4. Sample No. 00 5. CHAIN OF CU	1 STODY Each perso	Preservation: on who handles t		No ☑ t sign below when the	sample pas	ses from o	ne to a	nothe	r.
	quished by:			Received by	:	Dat	e		Time
	gnature)	Date	Time	(Signature)		<u> </u>			
INATHAN HIDAK	(HIGHWAY ENVIRO)	) 10/5/22				1	- 1		1

**RECEIVING & APPROVAL FORM** 

	TEOLISTIC GETTING THE TOTAL
RECEIVING INF	ORMATION CONTROL
Date	10 117 122
Receiving ID#	Sport Notice Acid Strap
Manifest # Line	
Land Ban Cert included	Yes · No
EGT Approval #	
Generator	Quality Metal Fixishing
Client	
Transporter	
Time in	
Time out	
Received by	(J <sub>1</sub> -),
Sampled by	(197)
1	

LAB INFORMA	TION	5.8.8.75
Compatible? (RT# )	No	
PCBs (ppm) (Oily Waste Only)?	NA	
TOC ppm (CC Waste Only)?		
Flash Point (F)	>148	
pH (S.U.)	40	ار
Cyanides? (mg/L)	436	>
Sulfides? (ppm)?	42	120
Specific Gravity	1,6	6
Physical Description	ligu	7
Stream Consistency	Yes	No
Oil in Sample?	Yes	ØØ
Temperature (F)	72	
Conductivity	48:	bom
% Solids	41,	00
Turbidity	(Yes)	No
Color	BToo	-Grech
TSS (%)	4	01
Radiation Screen (as needed)	Nea	
Lab Signature/Initials		び、沙

(See Attochés lab Notes)

**Receiving & Departure Approval Form** 

Revision 6 1/20/20

REPUBLIC SERVICES	Repu	ublic Se	ervices	8				
18500 N. Allied Way, Phoenix, AZ 85054								
SI	PECIAL WASTE	DEPARTMEN	IT DECISIO	N				
	Waste Profile # 64402215272		ration Date 5/2023					
Decision Request:	☑ Initial	certification	☐ Change					
isposal Facility: 6440 - Detroit Ind Well				<u> </u>				
enerator Name: WOODARD								
enerator Site Address: 210 S. DELANEY R	<b>₹</b> D							
ity: OWOSSO	County:	State	e: MI	Zip:				
ame of Waste: HEAT EXCHANGER CLEAN	IING RINSE WATER							
stimated Annual Volume: 4000 Gallons								
. Special Waste Department Decisi	ion:   Appro	oved ORejected						
lanagement Method(s):	Solidification	Bioremediation	Deep Well	Transfer Facility				
roblematic Special Waste according to Re	public? O Yes	● No						
yes, which one?								
· · · · · · · · · · · · · · · · · · ·		-	<del></del>					
pproved by Special Waste Review Commi	Yes (	🔾 No 🔘 Not Applic	able					
prior to acceptance and disposal of the p								
pecial Waste Analyst Signature:	Mox. 3	}_	Nam	e (Printed): <u>Stephen Brown</u>				
II. Facility Decision:		• Approved C	Rejected					
Pr	ecautions, Condition		=					
		VI EIIIIIAAIVI	o ou whhiosai					
y signing below, the General Manager or Desi	ionee agrees that a fully ex	ecuted Special Ma	ste Senice Agrees	pant is an file for this profile and the				
pecial waste file is complete.		October 444	(	on and the form of the profile and the				
eneral Manager or Designee:	n 1203)	Name (Pri	nted):	IN TROST				

11.8.22 JKF

Republic Inde	<i>istriai and</i> mulus, MI 48	d Energy Soi 174. Telephone 7:	lutions, LLC 34 946 1000. Fax 7	/34 946 1002 ]		OR WAST 102215272	E PROFILE
GENERATOR INFOR	MATION			_USEPA ID#	MIR000014373		
Facility Address: 210	S. Delaney R	đ	····	_ SIC/NAICS	Code: State Code: 33	7110	
City: Owosso				State: MI	Zip Code:	48867	
Contact: Steve Inhu	sen	Title:	Phone: (> a s	725-4452	Fax (	)	
BILLING INFORMAT Company Name: ERC Address: 13040 M	S Environmen	•	SAME AS A	BOVE			
City: Livonia		<u> </u>		State:	Zip Code:_	····	<del></del>
Attention: Accounts	Payable	Title:		•			
Process Generating V Rinse Water general USEPA / STATE WAS*  1. This waste is consided to the consideral Regulated by TSCA 3. List ALL Applicable	TE IDENTIFICA ared to be:	icaning of a zinc ph TION	ete Information may caphating heat excha rdous Liquid Industrial	inger.	oval process):  Hazardous Waste		
PHYSICAL CHARAC		= WARTE					
Color:		nded Solids	Layers:	<del>  </del>	Specific Gravity:	<del></del>	
☑ White/Clear	D 0-1 %	<b>3-5</b> %	Multi layer	red Den	<0.8	.2	
☐ Black/Brown	<b>☑</b> 1-3 %	C) > 5%	C) Bi-Layere	d 0	0.8 1.0 1.3 1.	4	
Other			☐ Single Ph		act / Other		}
PH: UNA U < 2 Liquid Flash Polit VOC CONCENTRATION TOTAL COMPOSITIO	<u>- 0</u>	□ 73—100°F □	10,1140°F □ 14	11—200°F G OMPLETED)			ир □ Орел Сир
CONSTITUENT			MAX MIN	CONSTITU	ENT		MAX MIN
Heat Exchanger A	id Cleaner						
Bonderite Zinc			1 5 %		والمسبول أساره والمساقلة		
	.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<del>á minutal</del>	93 - 98 %			حمد المراجعة	₩كك ككا

Metals: Indicate if the If Generator knowledge	is waste cor dge-provide	ntains an backup l	y of the follow D Leb Analys	ing m is 62	etals Generator Knov	vledge 🖫	TCLP DTO	AL				
	Not Conce	entretion	;	Not	Concentration		Arsenic (As)	D004	☑ <5	ppm	ppm	
	Present		Pr	esen	t		Barium (Ba)	D005	₩ <100	ppm	ppm	
PCB	<b>2</b> 0	ppm Ar	romatic Amine	<b>3</b>	ppm	,	Cadmium (Cd)	D006	GB <1	ppm	ppm	
Dioxins	<b>2</b> 2	ppm Pe	esticides	Ø	ppm	,	Chromium (Cr)	D007	<b>2</b> 2 <5	ppm	ppm	
Cyanides Reactive	52 j	ppm Re	odenticides	<b>3</b>	ppm		Lead (Pb)	D008	☑ <5	ppm	ppm	
Cyanides Total	<b>2</b> 21 <sub>1</sub>	ppm Fu	ıngicides	<b>3</b>	ppm		Mercury (Hg)	D009	<b>2</b> <0.2	ppm	ppm	
Sulfides Reactive	2	ppm					Selenium (Se)	D010	G2 <1	ppm	ppm	
Sulfides Total	520 1	ppm					Silver (Ag)	D011	<b>2</b> <5	ppm	ppm	
TCLP Organics D	012 — D04	3 above	regulatory li	mits:	Present 🗆 No	t Present 🛭	1					
IS WASTE ANY	OF THE FO	LLOWIN	G?	At	Least One Box	Must Be Chi	cked.					
☐ Radioactive	□ Water R	eactive	□ Oxidize	er	Shock Sens	itive 🗆 F	leactive (othe	r) 🗆 D(	OT Explosi	ves		
Q NIOSH Human-P	ositive Card	inogens	□ NESHAI	P Wa	stes (Benzene, d	elc.) 🗆 E	liological 🖸 f	lone Appl	У			
SHIPPING IN  1. Is this a DOT  2. Reportable Quar  3. DOT Shipping I	Hazardou ntity (RQ) in	s Mater pounds	·	-		, ,	□ Yes		Class	u	N/NA	
PG ERG								_				
4. Method of Shipn						I Reil Car	□ Drun		<b>⊘</b> Totes		· · · · · ·	_
5. Number of Units											or i7. One Time	
6. Special Handlin					o. Anticipato	u voluille i	Jinto poi Todi.		OOO GEI	,	01 W 0110 111110	
CERTIFICATION I hereby represent attached documen information, the interest of the control of th	and warra	nt that I on my inc	have persona quiry and per d herein is tru	sona le. ai	il knowledge of ccurate, and co	those indiv	iduals respons te best of my l	ible for s incwledg	upplying or e and belie	obtain f. Funti	ing the ermore, no	
material fact has b in the handling and	een omitte processin	d as to n ig of the	nake this info waste mater	rmai ial de	tion misleading escribed herein	. I understa	nd that others	may rely	on this rep	resenta	ation and warra	•
If this box is check Technologies make	es will be c	consisten	it with the res	suits	echnologies no of the sample o	ot to correct characteriza	any inconsistention and/or re	gulatory i	equirement	s.		
Printed Name:	Steu	<u> </u>	In hotse	1				Title	· <u>Pro</u>	<u>ימטע</u>	ON Mus	باوردا
Generator's Signatur	re:	Stu	2	hs	h			Date:	10-	25-	22	
GENERATOR' waste described in obtained using any below. If you have representative.	the above of the app	referenc licable si	ed GENERATO ampling meth	DRS \ IDds (	NASTE PROFILE cited iπ 40 CFR	REPORT us 261-Apper	ing an appropi idix 1. Fili in th	iate cont e sampli:	ainer. A rep 10 informati	resent on in th	ative sample is se spaces prov	Ann a
1. Grab		2.	Tank				Sami	ole ID: 1	- Zinc Stag	es De	scale	7
SAMPLING MET	ООН		COLLECTIO	ON P	OINT		SDS	s: Bond	erite Zinc P	hosph	ate	ı
Chae Beterre								пеат	Exchanger	Acid C	leaner	
Chas Peterse		NATO	TITLE 51			<del></del>	-					
SAMPLE COLI							L					L
4. Sample No. 1 - 5. CHAIN OF CUS	ZINC Stage STODY Ea	s desca ch perso	on who hand	ition: les ti	Yes □ he sample mus	No⊠ tsign belov	v when the se	mple pas	ses from o	ne to a	nother.	
	uished by:			$\neg$			Received by:		Date	В	Time	٦
(0)	gnature)		Date	$\bot$	Time		(Signature)					_
	······································		1									_

REPUBLIC"			ic Service Way, Phoenix, AZ 85054	S	
	SPECIA		PARTMENT DECISI	ON	
	Waste Profile #		Expiration Date		
	6440230633	:	12/9/2023		
I. Decision Request:	🔽 Initial	Recertification	n Change		
Disposal Facility: 6440 - Detroit Ind W					
Generator Name: ENDURA-MODERN Generator Site Address: 12880 E 9 M		SION			
City: WARREN	County:		State: MI		Zip:
Name of Waste: NICKEL STRIP	County.		Giate. Wi		Z.th.
Estimated Annual Volume: 28000 Ga	ilons				
II. Special Waste Department	Decision:	Approved	○ Rejected		
Management Method(s):	andfill S	olidification Bio	remediation	oll Transfer F	acility
Problematic Special Waste according	g to Republic?	O Yes ● No	1		
If yes, which one?					
Approved by Special Waste Review	Committee?	Over One	Not Applicable		<u>-</u>
The site must ensure that all pre-a prior to acceptance and disposal o					<b>,</b>
Special Waste Analyst Signature: Date: 1/26/2023	Sento	x 3	N	ame (Printed): Ster	ohen Brown
III. Facility Decision:		•	Approved O Rejected		
	Precaution	ons, Conditions o	r Limitations on Appro	val	
NOT COMPA	ണുവര് പാ	TH KC Low	s. STRONG EX	5748RMIC	REPACTION
By signing below, the General Manager special waste file is complete.					
General Manager or Designee: Date:	lofty	735	Name (Printed):	ound From	<u> </u>
1.30.23					

2 12880 E 9 Mile Rd  PRMATION 2 Environmental & D  OO Stephenson Hwy	Title:	State: Phone: ( )	NAICS Code: State Code: MIZip CodFax: (	de: 48089
RMATION Environmental & D	isposal Managem	Phone: ( )	•	
RMATION Environmental & D	isposal Managem	SAME AS ABOVE	Fax: (	)
Environmental & D	isposal Managem			
00 Stephenson Hwy	Suite 100			
,				
		State:	MI Zip Cod	te:48314
	Title:	Phone: ( )	Fax: (	)
	al Name:			
			e approval process):	•
		Idnia industrial Waste	☐ Hazardous Wa	aste
•				<del>-</del> · · · · · · · · · · · · · · · · · · ·
ARACTERISTICS OF WA	STE			
T		ayers:	Specific Gravi	ty:
sr □10-1% 12a	3-5 %	☐ Multi layered	□ <0.8	· 1
vn 🔲 1-3 % 🖸	> 5%	☐ Bi-Layered	□ 0.8—1.0 □1.3-	-1.4
l .	1	Single Phase	Exact / Other	
ri rd - Esystem	rating Waste (Piesse be single to remove electroless nice)  E WASTE IDENTIFICATION is considered to be: by TSCA? Dyes @No (PCBs silcable-Waste-Codes:	RMATION  aste/Common Chemical Name:  ip  rating Waste (Please be specific, incomplete info d to remove electroless wickel from a component  E WASTE IDENTIFICATION s considered to be:	RMATION  aste/Common Chemical Name:  ip  rating Waste (Please be specific, incomplete information may delay the discremental description of the remove electroless nickel from a components.  E WASTE IDENTIFICATION  Is considered to be: ② Non Hazardous Liquid Industrial Waste by TSCA? Clyes ②No (PCBs, etc.)  Alcable-Waste-Godes:  JARACTERISTICS OF WASTE  Suspended Solids  Layers:  In O-1 % ② 3-5 % □ Multi layered	RMATION  aste/Common Chemical Name:  ip  rating Waste (Please be specific, incomplete information may delay the approval process):  d to remove electroless nickel from a components.  E WASTE IDENTIFICATION  s considered to be:  W Non Hazardous Liquid Industrial Waste  G TSCA? Clyes @No (PCBs, etc.)  Alcable-Waste Godes:  BARACTERISTICS OF WASTE  Suspended Solids  Layers:  Specific Gravitar  C 0-1 % @ 3-5 % C Multit layered  C <0.8 @ 1.0 -

		ncentrat		Not	Concentration	Arsenic (As)	D004	Ø <5	ppm	ppm
	Present			resent		Barlum (Ba)	D005	£4 <100	ppm	ppm
PCB	2	ppm	Aromatic Amin		ppm	Cadmlum (Cd)	D006	£3 <1	ppm	ppm
Dioxins	921 921	ppm	Pesticides Rodenticides	(2) (2)	opm	Chromium (Cr)	D007 D008	Ø2 <5 Ø2 <5	ppm	ppm
Cyanides Reactive		ppm			ppm	Lead (Pb)		•	ppm	bbw
Cyanides Total Sulfides Reactive	©1 ⊡1	ppm ppm	Fungicides	<b>(2)</b>	ppm	Mercury (Hg) Selenium (Se)	D009	Ø <0.2 Ø <1	ppm	ppm
Sulfides Total	<u></u>	ppm				Silver (Ag)	D011	© <5	ppm	ppm
	_		ove regulatory	limits:	: Present □ Not Pro			_ •	<b>\$</b> F	·
IS WASTE ANY	OF THE	FOLLOV	VING?	At .	Least One Box Must	Be Checked.				
☐ Radioactive	☐ Wate	r Reacti	ve 🗆 Oxidiz	zer	☐ Shock Sensitive	Reactive (other	) <u>a</u> p	OT Explosi	Ves	
☐ NIOSH Human-F	Positive C	arcinoge	ns 🔾 NESHA	AP Wa	stes (Benzene, etc.)	□ Biologicai £2 N	one Appi	y		
2. Reportable Qua 3. DOT Shipping	• •	• •					Hazard	I Class	UN/I	NA
PGER	3	Haza	rdous Constitu	ents fo	or "n.a.s."	**************************************		:		_
4. Method of Shipi	ment:	<b>2</b> Buil	k Tanker [	⊒ Vac	truck 🔾 Rai	I Car 🖸 Drum	s	□Totes	ì	
6. Number of Unit						olume / Units per Year:				T-
					D. MIRCROMINO VI		LOUG	gı	OF L	_i Une in
6. Special Handili	ng Requ	Irements	including PPE	:	o. Annespated VC	nume / Onto par 1ear.		91	OF L	
CERTIFICATION  I hereby representationed documentation, the in	ON STA	ATEMI rrant the od on my n contal itted as	ENT  at I have perso; liquily and perso hed herein is to make this.in	nally e ersona rue, ad	examined and am fa Il knowledge of tho: courate, and compl ition.misleading. I u	amiliar with the information of the community of the best of my known and others	ation cor ibje for s	stained and supplying or se and belie	submitted r obtaining	I in this and the more, no
CERTIFICATION I hereby representate and documer information, the Inmaterial fact has tin the handling and if this box is checknologies make	ON STA	ATEMI rrant the d on my n contal itted as ssing of	ENT  It I have perso; I have p	nally e ersona rue, a forma erial de	examined and am fo al knowledge of tho courate, and compl tion.misleading. I u escribed herein. Technologies not to	amiliar with the informs se individuals respons ste to the best of my k	ation cor ible for s nowledg may rely nocles, A julatory	atained and supplying or e and belia on_this. rep any correction	submitted r obtaining of. Furtherr resentatio ons Enviro	i in this an i the more, no on_and war onmental C
CERTIFICATION I hereby representattached documer information, the in material fact has the handling an if this box is check	ON STA	ATEMI rrant the d on my n contal itted as ssing of	ENT  It I have perso; I have p	nally e ersona rue, a forma erial de	examined and am fo al knowledge of tho courate, and compl tion.misleading. I u escribed herein. Technologies not to	amiliar with the informs se individuals respons ste to the best of my k nderstand that others correct any inconsiste	ation cor lble for s nowledg may rely notes, A guletory	atained and supplying or e and belie on this rep any correction requirements:	submitted r obtaining if. Further resentatio ons Enviro ts.   Technic	the more, no n.and war onmental C
CERTIFICATION I hereby representate and documer information, the Inmaterial fact has tin the handling and if this box is checknologies make	ON ST. t and wants. Based formatic been om d process ked [] [] less will the	ATEMI rrant the d on my n contal itted as ssing of	ENT  It I have perso; I have p	nally e ersona rue, a forma erial de	examined and am fo al knowledge of tho courate, and compl tion.misleading. I u escribed herein. Technologies not to	amiliar with the informs se individuals respons ste to the best of my k nderstand that others correct any inconsiste	ation cor lble for s nowledg may rely notes, A guletory	atained and supplying or e and belia on_this. rep any correction	submitted r obtaining if. Further resentatio ons Enviro ts.   Technic	i in this and the more, no on and war
6. Special Handli CERTIFICATION I hereby represent attached documer information, the in material fact has been in the handling and if this box is checknologies make Printed Name: City Generator's Signature GENERATOR waste described in obtained using am	ON ST. t and wents. Base formatic peen om d process will third SC CH. the above of the sc of the sc of the sc	ATEMI rrant the od on my in contal itted as issing of request i e consis ollin	ENT  It I have persor I inquiry and person I not herein is to make this in the waste mate Environmental Stent with the re  CUSTOD  COUSTOD   nally eersons rue, ar formal erial de Geo-T esuits	examined and am feal knowledge of the courate, and complition misleading. I usecribed herein.  Technologies not to of the sample characteristics of the sample characteristics of the courage of the cour	amiliar with the informs se individuals respons ste to the best of my k nderstand that others correct any inconsiste	pation core ible for senovied gray rely parcies, A guletory Title  Date  Collect a late continue a sample	atained and supplying on e and belle on this repursement Plating 1-10-23 representa alner. A repurse informat	submitted r obtaining f. Further resentatio ons Enviro ts. Technic tive 1-qual presentatio	i in this and the more, no on and war on mental Cocian	
6. Special Handili CERTIFICATION I hereby represent attached documer information, the in material fact has been in the handling and if this box is checknologies make Printed Name: City Generator's Signature GENERATOR waste described in obtained using any below. If you have representative.	ON ST. t and wents. Base formatic peen om d process will third SC CH. the above of the sc of the sc of the sc	ATEMI rrant the od on my or contal litted as ssing of sequest is e consis ollin	ENT  at I have persor I inquiry and person to make this in the waste mate Environmental stent with the re  CUSTOD  COUSTOD  ally e ersonarue, au formal de formal de Geo-Tores trocks	examined and am feal knowledge of the courate, and complition misleading. I usecribed herein.  Technologies not to of the sample characteristics of the sample characteristics of the courage of the cour	amiliar with the informs se individuals respons to the best of my knderstand that others correct any inconsists acterization and/or regular to the second of	pation core ible for senovied gray rely parcies, A guletory Title  Date  Collect a late continue a sample	atained and supplying on e and belle on this repursement Plating 1-10-23 representa alner. A repurse informat	submitted r obtaining f. Further resentatio ons Enviro ts. Technic tive 1-qual presentatio	i in this and the more, no on and war on mental Cocian	
6. Special Handili CERTIFICATION I hereby represent attached documer information, the in material fact has the in the handling and if this box is checknologies make Printed Name: City Generator's Signature GENERATOR waste described in obtained using any below. If you have representative.  1. Grab SAMPLING MET	ON ST. t and we tak. Base formatic peen om d process will be hris Sc. "S CH," the about of the a problem."	ATEMI rrant the d on my n contal itted as ssing of equest i e consis ollin AIN OF ve refer up plicabl s obtain	ENT  It I have person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and person Inquiry and Inquiry and Inquiry Inquiry and Inquiry and Inquiry Inquiry and Inquiry and Inquiry and Inquiry Inquiry and Inquiry an	nally e ersonae rue, ac format format de Geo-Tores to the control of the control	examined and am falknowledge of thoseourate, and compliction.misleading. I useribed herein.  Technologies not to of the sample characteristics.  CORD INSTRUWASTE PROFILE RESIDENT OF YOUR WASTE PROFILE RESIDENT OF YOUR WAS	amiliar with the information individuals responsible to the best of my kinderstand that others correct any inconsists acterization and/or regular to the correct and inconsists acterization and/or regular to the correct using an appropriate, please contact your telegrape of the contact your telegrape in th	pation core ble for services, A puletory Title Date collect a iate conte services complished contents	ntelned and supplying on the and belie on this report of the control of the contr	submitted r obtaining for Furtherr presentation ons Enviro ts. Technic tive 1-qual presentativ ion in the so-Technick	i in this and the more, no on and war on mental Cocian
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31-Mar-2023

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

Re: January F039 Leachate- 02.08.23

Work Order: 23020751

Dear Rick,

ALS Environmental received 1 sample on 09-Feb-2023 10:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental - Holland and for only the analyses requested.

Sample results are compliant with industry accepted practices and Quality Control results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 45.

If you have any questions regarding this report, please feel free to contact me:

ADDRESS: 3352 128th Avenue, Holland, MI, USA PHONE: +1 (616) 399-6070 FAX: +1 (616) 399-6185

Sincerely,

Electronically approved by: Chelsey Cook

Chelsey Cook Project Manager

Report of Laboratory Analysis

Certificate No: FL E871106

ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Date: 31-Mar-23

Client:

Republic Industrial and Energy Solutions, LLC

Project:

January F039 Leachate- 02.08.23

Work Order:

23020751

**Work Order Sample Summary** 

<u>Lab Samp ID</u> <u>Client Sample ID</u> 23020751-01 January 2023 F039 Matrix Liquid Tag Number

**Collection Date** 2/8/2023 12:30

<u>Date Received</u> 2/9/2023 22:00

Hold

Date: 31-Mar-23

Client:

Republic Industrial and Energy Solutions, LLC

Project:

January F039 Leachate- 02.08.23

WorkOrder:

23020751

**QUALIFIERS,** 

**ACRONYMS, UNITS** 

Qualifier	Description
*	Value exceeds Regulatory Limit
**	Estimated Value
a	Analyte is non-accredited
В	Analyte detected in the associated Method Blank above the Reporting Limit
Е	Value above quantitation range
Н	Analyzed outside of Holding Time
Hr	BOD/CBOD - Sample was reset outside Hold Time, value should be considered estimated.
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Analyte accreditation is not offered
ND	Not Detected at the Reporting Limit
O P	Sample amount is > 4 times amount spiked  Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
บ	Analyzed but not detected above the MDL
X	Analyte was detected in the Method Blank between the MDL and Reporting Limit, sample results may exhibit background or reagent contamination at the observed level.
Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
Α	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III
Units Reported	Description
μg/L	Micrograms per Liter
as noted	

Client:

Republic Industrial and Energy Solutions, LLC

Project:

January F039 Leachate- 02.08.23

Work Order:

23020751

**Case Narrative** 

The attached "Sample Receipt Checklist" documents the date of receipt, status of custody seals, container integrity, preservation, and temperature compliance.

Samples were analyzed according to the analytical methodology previously transmitted in the "Work Order Acknowledgement". Methodologies are also documented in the "Analytical Result" section for each sample. Quality control results are listed in the "QC Report" section. A copy of the laboratory's scope of accreditation is available upon request.

Sample association for the reported quality control is located at the end of each batch summary. If applicable, results are appropriately qualified in the Analytical Result and QC Report sections. The "Qualifiers" section documents the various qualifiers, units, and acronyms utilized in reporting.

Any flags on MS/MSD samples not addressed in this narrative are unrelated to samples in this report.

With the following exceptions, all sample analyses achieved analytical criteria.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): Surrogate high due to matrix interference. Tetrachloro-m-xylene.

Batch 211144, Method SW8081B, Sample January 2023 F039 (23020751-01A): One or more of the surrogates were below the limits due to matrix interference. Decachlorobiphenyl.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): The reporting limit is elevated due to dilution needed to eliminate matrix-related interference.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): Surrogate high due to matrix interference. 2,4,6-Tribromophenol.

Batch 211204, Method SW846 8270D, Sample January 2023 F039 (23020751-01A): One or more of the surrogates were below the limits due to matrix interference. Phenol-d6.

Batch 211204, Method SW846 8270D, Sample SLCSW1-211204: The LCS recovery was above the upper control limit. All the sample results in the batch were non-detect. No

Client:

Republic Industrial and Energy Solutions, LLC

Project:

January F039 Leachate- 02.08.23

Work Order:

23020751

qualification is necessary for this analyte: 2,3,5,6-Tetrachlorophenol.

Case Narrative Page 2 of 2

**Case Narrative** 

Client: Republic Industrial and Energy Solutions, LLC

Project: January F039 Leachate- 02.08.23

Work Order: 23020751 January 2023 F039 **Lab ID:** 23020751-01 Sample ID: **Collection Date:** 2/8/2023 12:30 PM Matrix: LIQUID

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
PESTICIDES			SW8081E	3	Prep: SW3511 2/10/23 15:19	Analyst: SJB
Aldrin	ND		0.18	μg/L	20	2/13/2023 06:54 PM
Surr: Decachlorobiphenyl	0	s	42-148	%REC	20	2/13/2023 06:54 PM
Surr: Tetrachloro-m-xylene	654	s	57-141	%REC	20	2/13/2023 06:54 PM
SEMI-VOLATILE ORGANIC COMPOUNDS			SW846 8	270D	Prep: SW3510 2/13/23 16:23	Analyst: <b>EEW</b>
N-Nitrosodimethylamine	ND		100	μg/L	5	2/15/2023 04:18 PM
Surr: 2,4,6-Tribromophenol	126	s	38-103	%REC	5	2/15/2023 04:18 PM
Surr: 2-Fluorobiphenyl	74.3		36-96	%REC	5	2/15/2023 04:18 PM
Surr: 2-Fluorophenol	47.3		20-73	%REC	5	2/15/2023 04:18 PM
Surr: 4-Terphenyl-d14	79.0		44-114	%REC	5	2/15/2023 04:18 PM
Surr: Nitrobenzene-d5	56.6		33-100	%REC	5	2/15/2023 04:18 PM
Surr: Phenol-d6	9.60	S	10-48	%REC	5	2/15/2023 04:18 PM
SUBCONTRACTED ANALYSES			SUBCON	TRACT		Analyst: CLIENT
Subcontracted Analyses	See attached			as note	ed 1	3/31/2023 07:10 AM

**Date:** 31-Mar-2023

Note:

Client:

Republic Industrial and Energy Solutions, LLC

Work Order:

23020751

Project:

January F039 Leachate- 02.08.23

Batch ID: 211144 In	strument ID GC12		Metho	d: <b>SW80</b> 8	1B						
MBLK Sample	ID: PBLKW1-211144-21	1144			ι	Jnits: µg/L	•	Analysis	Date: 2/1:	3/2023 12:	47 PM
Client ID:	Run II	D: <b>GC12</b> _	230213A		Se	qNo: <b>927</b>	1202	Prep Date: 2/10	)/2023	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.0088	0.010	0		0	0	0-0	0			J
Surr: Decachlorobiphenyl	0.272	0	0.25		0	109	42-148	0			
Surr: Tetrachloro-m-xylene	0.2194	0	0.25		0	87.8	57-141	0			
LCS Sample	ID: PLCSW1-211144-21	1144			ι	Jnits: µg/L	L e i	Analysis	Date: 2/13	3/2023 01:	15 PM
Client ID:	Run II	D: <b>GC12</b> _	230213A		Se	qNo: <b>927</b> '	1204	Prep Date: 2/10	/2023	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.194	0.010	0.2		0	97	51-164	0			
Surr: Decachlorobiphenyl	0.274	0	0.25		0	110	42-148	0			
Surr: Tetrachloro-m-xylene	0.229	0	0.25		0	91.6	57-141	0			
LCSD Sample	ID: PLCSDW1-211144-2	11144	***		Ŀ	Jnits: µg/L		Analysis	Date: 2/13	3/2023 01:	29 PM
Client ID:	Run II	D: GC12_	230213A		Se	qNo: <b>927</b> 1	1205	Prep Date: 2/10	/2023	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Aldrin	0.1986	0.010	0.2		0	99.3	51-164	0.194	2.34	20	
Surr: Decachlorobiphenyl	0.2726	0	0.25		0	109	42-148	0.274	0.512	20	
Surr: Tetrachloro-m-xylene	0.2086	0	0.25		0	83.4	57-141	0.229	9.32	20	
The following samples were	analyzed in this batch:	23	3020751-01	4							

Date: 31-Mar-23

QC BATCH REPORT

Client:

Republic Industrial and Energy Solutions, LLC

Work Order:

23020751

Project:

January F039 Leachate- 02.08.23

Batch ID: 211204	Instrument ID SVMS8		Metho	d: <b>SW84</b> 6	82	70D					
MBLK Sam	ple ID: <b>SBLKW1-211204-2</b>	11204			Ĺ	Jnits: µg/L	•	Analysis	Date: 2/13	3/2023 09:	:24 PM
		ID: SVMS8	_230213A		SeqNo: 9278459			Prep Date: 2/13/2023		DF: 1	
Analyta	Donult	BOL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Analyte	Result	PQL	SPK Vai			%REC			%RPD		- Quai
N-Nitrosodimethylamine	ND	5.0									
Surr: 2,4,6-Tribromopher	nol 37.65	0	50		0	75.3	38-103	0			
Surr: 2-Fluorobiphenyl	31.63	0	50		0	63.3	36-96	0			
Surr: 2-Fluorophenol	22.29	0	50		0	44.6	20-73	0			
Surr: 4-Terphenyl-d14	34.08	0	50		0	68.2	44-114	0			
Surr: Nitrobenzene-d5	31.09	0	50		0	62.2	33-100	0			
Surr: Phenol-d6	13.72	0	50		0	27.4	10-48	0			
LCS Sam	ple ID: <b>SLCSW1-211204-2</b>	11204			Į,	Jnits: µg/L		Analysis	Date: 2/13	3/2023 09:	.45 PM
Client ID:	Run	ID: SVMS8	_230213A		Se	qNo: <b>927</b> 8	3460	Prep Date: 2/13	/2023	DF: 1	
Analyte	Result	PQL	SPK Val	SPK Ref Value		%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
N-Nitrosodimethylamine	8.94	5.0	20		0	44.7	22-77	0			
Surr: 2,4,6-Tribromopher		0	50		0	96.4	38-103	0			
Surr: 2-Fluorobiphenyl	38.78	0	<i>50</i>		0	77.6	36-96	0			
Surr: 2-Fluorophenol	24.85	0	50		0	49.7	20-73	0			
Surr: 4-Terphenyl-d14	39.45	0	50		0	78.9	44-114	0			
Surr: Nitrobenzene-d5	36.8	0	50		0	73.6	33-100	0			
Surr: Phenol-d6	16.12	0	50		0	32.2	10-48	0			
LCSD Sam	ple ID: <b>SLCSDW1-211204-</b>	211204			L	Jnits: µg/L		Analysis	Date: 2/13	/2023 10:	06 PM
Client ID:	Run	ID: SVMS8	_230213A			qNo: <b>927</b> 8		Prep Date: 2/13	/2023	DF: 1	
				SPK Ref			Control	RPD Ref		RPD	
Analyte	Result	PQL	SPK Val	Value		%REC	Limit	Value	%RPD	Limit	Qual
N-Nitrosodimethylamine	9.25	5.0	20		0	46.2	22-77	8.94	3.41	30	
Surr: 2,4,6-Tribromopher	nol 46.38	0	50		0	92.8	38-103	48.19	3.83	40	
Surr: 2-Fluorobiphenyl	38.09	0	50		0	76.2	36-96	38.78	1.8	40	
Surr: 2-Fluorophenol	24.17	0	50		0	48.3	20-73	24.85	2.77	40	
Surr: 4-Terphenyl-d14	37.3	0	50		0	74.6	44-114	39.45	5.6	40	
Surr: Nitrobenzene-d5	36.67	0	50		0	73.3	33-100	36.8	0.354	40	
Surr: Phenol-d6	15.49	0	50		0	31	10-48	16.12	3.99	40	

QC BATCH REPORT



Service Request No:E2300160

Chelsey Cook ALS - Holland 3352 128th Avenue Holland, MI 49424

**Laboratory Results for: 23020751** 

Dear Chelsey,

Enclosed are the results of the sample(s) submitted to our laboratory February 17, 2023 For your reference, these analyses have been assigned our service request number **E2300160**.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program. The test results meet requirements of the current TNI standards, where applicable, and except as noted in the laboratory case narrative provided. All results are intended to be considered in their entirety and ALS Environmental is not responsible for use of less than the complete final report. Results apply only to the items submitted to the laboratory, as received for analysis. In accordance with the current TNI Standard, a statement on the estimated uncertainty of measurement of any quantitative analysis will be supplied upon request.

Please contact me if you have any questions. My extension is 2188. You may also contact me via email at James.Guin@alsglobal.com.

Respectfully submitted,

Church's

ALS Group USA, Corp. dba ALS Environmental

James Guin



## **Certificate of Analysis**

ALS Environmental - Houston Specialties Laboratory 10450 Stancliff Rd., Suite 210, Houston TX 77099 Phone (281)530-5656 Fax (281)530-5887 www.alsglobal.com

### **ALS Environmental**

Client: Project:

ALS Environmental - Holland

23020751

Sample Matrix:

Aqueous Leachate

Service Request No.: Date Received:

E2300160

02/17/23

### **CASE NARRATIVE**

All analyses were performed in adherence to the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier II. When appropriate to the method, method blank results have been reported with each analytical test.

### Sample Receipt

One sample was received for analysis at ALS Environmental in Houston on 02/17/23.

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

### **Data Validation Notes and Discussion**

### **Precision and Accuracy:**

EQ2300100: Laboratory Control Spike/Duplicate Laboratory Control Spike (LCS/DLCS) samples were analyzed and reported in lieu of a MS/MSD for this extraction batch.

### B flags - Method Blanks

The Method Blank EQ2300100-01 contained low levels of target compounds below the Method Reporting Limit (MRL). The associated compounds in the samples are flagged with 'B' flags where the sample result is less than ten times the level detected in the method blank.

### **Detection Limits**

Detection limits are calculated for each analyte in each sample by measuring the height of the noise level for each quantitation ion for the associated labeled standard. The concentration equivalent to 2.5 times the height of the noise is then calculated using the appropriate response factor and the weight of the sample. The calculated concentration equals the detection limit.

### 2378-TCDF

Samples analyzed on the DB-5MSUI column were analyzed under conditions where sufficient separation between 2,3,7,8-TCDF and its closest eluter was achieved. Confirmation of this result was not required.

### K flags

EMPC - When the ion abundance ratios associated with a particular compound are outside the QC limits, samples are flagged with a 'K' flag. A 'K' flag indicates an estimated maximum possible concentration for the associated compound.

### Y flags - Labeled Standards

Quantification of the native 2,3,7,8-substituted congeners is based on isotopic dilution, which automatically corrects for variation in extraction efficiency and provides accurate values even with poor recovery. Samples that had recoveries of labeled standards outside the acceptance limits are qualified with 'Y' flags on the Labeled Compound summary pages. In all cases, the signal-to-noise ratios are greater than 10:1 and detection limits were below the Method Reporting Limits.

### **Holding Time**

SW-846 Update VI (Table 4-1) eliminates holding times for Dioxins/Furans with proper sample storage as PCDDs and PCDFs are extremely stable in a variety of matrices.

### The TEQ Summary results for each sample have been calculated by ALS/Houston to include:

- ➤ WHO-2005 TEFs, The 2005 World Health Organization Reevaluation of Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-Like Compounds (M. Van den Berg et al., Toxicological Sciences 93(2):223-241, 2006)
- Non-detected compounds are not included in the 'Total'

The results of analyses are given in the attached laboratory report. All results are intended to be considered in their entirety, and ALS Environmental (ALS) is not responsible for utilization of less than the complete report.

Use of ALS group USA Corp dba ALS Environmental (ALS)'s Name. Client shall not use ALS's name or trademark in any marketing or reporting materials, press releases or in any other manner ("Materials") whatsoever and shall not attribute to ALS any test result, tolerance or specification derived from ALS's data ("Attribution") without ALS's prior written consent, which may be withheld by ALS for any reason in its sole discretion. To request ALS's consent, Client shall provide copies of the proposed Materials or Attribution and describe in writing Client's proposed use of such Materials or Attribution. If ALS has not provided written approval of the Materials or Attribution within ten (10) days of receipt from Client, Client's request to use ALS's name or trademark in any Materials or Attribution shall be deemed denied. ALS may, in its discretion, reasonably charge Client for its time in reviewing Materials or Attribution requests. Client acknowledges and agrees that the unauthorized use of ALS's name or trademark may cause ALS to incur irreparable harm for which the recovery of money damages will be inadequate. Accordingly, Client acknowledges and agrees that a violation shall justify preliminary injunctive relief. For questions contact the laboratory.

Client:

ALS Environmental - Holland (MI)

Project:

23020751

Service Request:E2300160

### **SAMPLE CROSS-REFERENCE**

SAMPLE # E2300160-001 **CLIENT SAMPLE ID** 

January 2023 F039

DATE

TIME

2/8/2023 1230

# Service Request Summary

1 250 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved EHRMS-WIC 8D

Pressure Gas: Location:

CGRANDITS Project Chemist: James Guin HOUSTON Originating Lab:

ALS Environmental - Holland (MI) Client Name:

23020751 Project Name:

E2300160

Folder #:

Project Number:

3352 128th Avenue Chelsey Cook ALS - Holland Report To:

Holland, MI 49424 USA

616-399-6070 Phone Number:

616-399-6185 Fax Number:

Cell Number:

chelsey.cook@alsglobal.com E-mail:

**HRMS Qualifier Set** 3/31/2023 LAB QAP QAP: Internal Due Date: Qualifier Set:

02/17/23

Date Received:

Logged By:

Lab Standard Formset: Merged?:

P.O. Number: Report to MDL?:

No EDD Specified 20-23020751 EDD:

GCMS PCDD PCDF/8290 Collected

02/08/23 1230

Aqueous Leachate

Client Samp No

Lab Samp No.

E2300160-001

January 2023 F039

Semivo

6 of 34

# Service Request Summary

Project Chemist: James Guin ALS Environmental - Holland (MI) E2300160

23020751 Project Name:

Project Number:

Client Name:

Folder #:

Chelsey Cook Report To:

ALS - Holland

3352 128th Avenue Holland, MI 49424 USA

616-399-6070 Phone Number:

Cell Number:

616-399-6185 Fax Number:

chelsey.cook@alsglobal.com E-mail:

CGRANDITS HOUSTON Originating Lab:

Logged By:

3/31/2023 02/17/23 Internal Due Date: Date Received:

LAB QAP QAP: Qualifier Set:

HRMS Qualifier Set

Lab Standard Formset: Merged?:

Report to MDL?:

20-23020751 P.O. Number: No EDD Specified

EDD:

1 250 ml-Glass Bottle NM AMBER Teflon Liner Unpreserved EHRMS-WIC 8D Location:

Pressure Gas:

7 of 34

### **Data Qualifiers**

### **HRMS Qualifier Set**

- \* Indicates the samples were extracted outside of the recommended holding time.
- B Indicates the associated analyte was found in the method blank at >1/10th the reported value.
- E Estimated value. The reported concentration is above the calibration range of the instrument.
- J Estimated value. The reported concentration is below the MRL.
- K The ion abundance ratio between the primary and secondary ions were outside of theoretical acceptance limits. The concentration of this analyte should be considered as an estimate.
- P Chlorodiphenyl ether interference was present at the retention time of the target analyte. Reported result should be considered an estimate.
- Q Monitored lock-mass indicates matrix-interference. Reported result is estimated.
- S Signal saturated detector. Result reported from dilution.
- U Compound was analyzed for, but was not detected (ND).
- X See Case Narrative.
- Y Isotopically Labeled Standard recovery outside of acceptance limits. In all cases, the signal-to-nois ratios are greater than 10:1, making the recoveries acceptable.
- i The MDL/MRL have been elevated due to a matrix interference.

### **ALS Laboratory Group**

### Acronyms

Cal Calibration
Conc CONCentration

Dioxin(s) Polychlorinated dibenzo-p-dioxin(s)

EDL Estimated Detection Limit

EMPC Estimated Maximum Possible Concentration

Flags Data qualifiers

Furan(s) Polychlorinated dibenzofuran(s)

g Grams

ICAL Initial CALibration

ID IDentifier

Ions Masses monitored for the analyte during data acquisition

L Liter (s)

LCS Laboratory Control Sample

DLCS Duplicate Laboratory Control Sample

MB Method Blank

MCL Method Calibration Limit
MDL Method Detection Limit

mL Milliliters

MS Matrix Spiked sample

DMS Duplicate Matrix Spiked sample

NO Number of peaks meeting all identification criteria

PCDD(s) Polychlorinated dibenzo-p-dioxin(s) PCDF(s) Polychlorinated dibenzofuran(s)

ppb Parts per billion
ppm Parts per million
ppq Parts per quadrillion
ppt Parts per trillion
QA Quality Assurance
QC Quality Control

Ratio Ratio of areas from monitored ions for an analyte

% Rec. Percent recovery

RPD Relative Percent Difference RRF Relative Response Factor

RT Retention Time

SDG Sample Delivery Group S/N Signal-to-noise ratio

TEF Toxicity Equivalence Factor
TEQ Toxicity Equivalence Quotient



### State Certifications, Accreditations, and Licenses

Agency	Number	Expire Date
Arizona Department of Health Services	AZ0793	5/27/2023
California Department of Health Services	2919-2023	4/30/2023
Department of Defense	L22-90	3/31/2024
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Florida Department of Health	E87611-36	6/30/2023
Hawaii Department of Health	2022	4/30/2023
Illinois Environmental Protection Agency	2000322022-9	5/9/2023
Kansas Department of Health and Environment	E-10352 2022-2023	7/31/2023
Louisiana Department of Environmental Quality	03087-2022	6/30/2023
Louisiana Department of Health and Hospitals	LA028-2023	12/31/2023
Maine Department of Health and Human Services	2022017	6/5/2024
Maryland Department of the Environment	343	6/30/2023
Michigan Depratment of Environmental Quality	9971-2022	4/30/2023
Minnesota Department of Health	2368363	12/31/2023
Nebraska Department of Health and Human Services	NE-OS-25-13	4/30/2023
Nevada Department of Conservation and Natural Resources	TX026932023-1	7/31/2023
New Hampshire Environmental Laboratory Accreditation Program	209422	4/24/2023
New Jersey Department of Environmental Protection	TX008-2023	6/30/2023
New York Department of Health	11707	3/31/2023
Oklahoma Department of Environmental Quality	2022-141	8/31/2023
Oregon Environmental Laboratory Accreditation Program	TX200002	5/15/2023
Pennsylvania Department of Environmental Protection	68-03441-016	6/30/2023
Perry Johnson Laboratory Accreditation	L22-91	3/31/2024
Tennessee Department of Environment and Concervation	04016-2022	4/30/2023
Texas Commision on Environmental Quality	T104704231-22-29	4/30/2023
Utah Department of Health Environmental Laboratory Certification	TX026932022-13	7/31/2023
Washington Department of Ecology	C819-22	11/14/2023

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

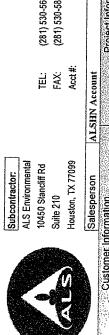
SR# Unique ID	E2300160	DB-5MSUI) SPB-Octyl	
Firs	t Level - Data Processing	- to be filled by person generating the forms	
Date: 13/20	173 Analyst:	Samples: OO	
Se	econd Level - Data Review	ı − to be filled by person doing peer review	
Date:	Analyst:	Samples:	
0313012	27 S.L	. 001	
7.5.			

HS-HRMSREVIEW R1.0



## **Chain of Custody**

ALS Environmental - Houston Specialties Laboratory 10450 Stancliff Rd., Suite 210, Houston TX 77099 Phone (281)530-5656 Fax (281)530-5887 www.alsglobal.com



Subcontractor: ALS Environmental

10450 Stancliff Rd Suite 210

TEL: FAX: Acct#:

(281) 530-5656 (281) 530-5887

Page 1 of 1

CHAIN-OF-CUSTODY RECORD

Date: 13-Feb-23 COC ID: 22177 Due Date: 28-Feb-23

	Customer Information	COST 1	Project Information	Parameter/Method Request for Analysis
Purchase Order	20-23020751	Project Name	23020751	A Subcontracted Analyses (SUBCONTRACT)
Work Order		Project Number		8
Company Name	Company Name ALS Group USA, Corp	Bill To Company	Bill To Company ALS Group USA, Corp	
Send Report To	Chelsey Cook	Inv Attn	Accounts Payable	
Address	3352 128th Ave	Address	3352 128th Ave	
City/State/Zip	Holland, Michigan 49424	City/State/Zip	Holland, Michigan 49424	9
Phone	(616) 399-6070	Phone	(616) 399-6070	
Fax	(616) 399-6185	Fax	(616) 399-6185	
eMail Address	chelsey.cook@ALSGlobal.com	eMail CC		
ALS Sample ID	Client Sample ID	Matrix Collection Date 24hr	on Date 24hr Bottle	A B C D E F G W H T
23020751-01B	23020751-01B January 2023 F039	Liquid 8/Feb	8/Feb/2023 12:30 (1) 250AMGNEAT	
The same of the sa				

	A 2.5 EDD".		Report/QC Level	PIS	WWW.paperson.com
	indard report and a "CR		Cooler IDs	Agi in special and special states and special states and special states and special states and special states a	
APPLICATION AND THE PROPERTY OF THE PROPERTY O	4 8290). Please provide a sta		Date/Time	012 22-61-2	Date/Time
	Please analyze the enclosed sample(s) for standard PCDDs/PCDFs (EPA 8290). Please provide a standard report and a "CRA 2.5 EDD". Thank you.		ne Received by:	13-23 CiOyon (100674	ne Received by:
The second secon	Please analyze the enclose Thank you.		Date/Time	1500 [43	Date/Time
Comments:		razin ir.,	Relinquished by:	to chart	Relinquished by:

ALS Enviror	imental	Cool	er Rece	ipt Forn	<b>)</b> Proj	ect Chemi	st	1
Client/Project	ALS	- M		Th	ermometer	ID.	1841	
Date/Time Received:	2-17-23	lni	tials: <u>(</u> 5_	Date/Time Log	ged in:	2-17-25	-Init	ials (4
. Method of delivery:	G US Mail	<b>⋈</b> Fed Ex	O UPS	O DHL	C Courier	Client		
. Samples received in:	(Cooler	OBox OEn	velope 🔘 O	ther	· · · · · · · · · · · · · · · · · · ·		Maria de la companya de la companya de la companya de la companya de la companya de la companya de la companya	- 14.2
. Were custody seals on Were t Were they signed	hey intact? (	OYes ONo OYes ONo OYes ONo	ONA	If yes, how mand where?	any			<del>, , , , , , , , , , , , , , , , , , , </del>
. Packing Material: (	Inserts ( Bagg	les Ö Bubble W	rap ÖGel P	acks () Wet I	ce 🔘 Slee	ves O 0	ther	
Foreign or Regulated So	oil?	Yes ONo	Location	of Sampling:	·-			
Cooler Trackir	ng Number	COCID	Date Open	ed Time	Opened	l By	Temp.	Temp Blank?
5591 438	9 8194		2-17-23	1336	14		4.9	
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							····	
	<del></del>							
Were custody papers pr Did all bottles arrive in c Were all sample labels c Were appropriate bottle D. Did sample labels and	good condition (n complete (i.e., sam as/containers and	ot broken, no sig ple ID, analysis, volumes receive	ons of leakage) preservation, e ad for the requ	etc)?	ØYes ØYes ØYes ØYes	ONo ONo ONo		
otes, Discrepancies, & Re	solutions;		·					
•								
						,		
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		÷						

HS-HRMSCoolerReceipt R1.0

Service request Label:

ALS Environmental ျခန္တြာuston HRMS



10450 Stancliff Rd., Suite 210 Houston, TX 77099 T: +1 281 530 5656 F: +1 281 530 5887 www.alsglobal.com

### SAMPLE ACCEPTANCE POLICY

This policy outlines the criteria samples must meet to be accepted by ALS Environmental - Houston HRMS.

### Cooler Custody Seals (desirable, mandatory if specified in SAP):

✓ Intact on outside of cooler, signed and dated

### Chain-of-Custody (COC) documentation (mandatory):

The following is required on each COC:

- ✓ Sample ID, the location, date and time of collection, collector's name, preservation type, sample type, and any other special remarks concerning the sampleThe COC must be completed in ink.
- Signature and date of relinquishing party.

In the absence of a COC at sample receipt, the COC will be requested from the client.

### Sample Integrity (mandatory):

Samples are inspected upon arrival to ensure that sample integrity was not compromised during transfer to the laboratory.

- Sample containers must arrive in good condition (not broken or leaking).
- ✓ Samples must be labeled appropriately, including Sample IDs, and requested test using durable labels and indelible ink.
- ✓ The correct type of sample bottle must be used for the method requested.
   ✓ An appropriate sample volume, or weight, must be received.
- An appropriate sample volume, or weight, must be received.
- Sample IDs and number of containers must reconcile with the COC.
- Samples must be received within the method defined holding time.

### Temperature Requirement (varies by sample matrix):

- Aqueous and Non-aqueous samples must be shipped and stored cold, at 0 to 6°C.
- ✓ Tissue samples must be shipped and stored frozen, at -20 to -10°C. ✓ Air samples are shipped and stored = 1.1.
- Air samples are shipped and stored cold, at 0 to 6°C
- ✓ The sample temperature must be recorded on the COC

All cooler inspections are documented on the Cooler Receipt Form (CRF). A separate CRF is completed for each service request. Any samples not meeting the above criteria are noted on the CRF and the Project Manager notified. The Project Manager must resolve any sample integrity issues with the client prior to proceeding with the analysis. Such resolutions are documented in writing and filed with the project folder. Data associated with samples received outside of this acceptance policy will be qualified on the case narrative of the final report



### **Preparation Information Benchsheets**

ALS Environmental - Houston Specialties Laboratory 10450 Stancliff Rd., Suite 210, Houston TX 77099 Phone (281)530-5656 Fax (281)530-5887 www.alsglobal.com

### age 1

# Preparation Information Benchsheet

Prep Run#: 415712
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtDioxAq-30
Prep Method: Method Sep Funnel/Jar

Status: Prepped Prep Date/Time: 3/6/23 09:00

Sample Description greenish brown yellow cloudy Clear Cloudy Clear cloudy yellow clear yellow clear Cloudy clear Cloudy clear Clear green Clear green Clear green Clear green Clear green Clear green Clear green green clear Cloudy yellow clear Amt. Ext. 2118mL 1878mL 1740mL 1934mL 1928mL 1808mL 1936mL 1862mL 1051mL 2000mĽ 1064mL 1063mL 1023mL 1036mL 1065mL 1034mL 1005mL 1059mL 125mL 2000mL 2000mL 1760mL Aqueous Leachate Cl Matrix Water Liquid Liquid Liquid Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Water Hd 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDF 8290A/PCDD PCDI 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF 8290/PCDD PCDF B# Method /Test <u>e</u>. 10: .01 .01 .01 .01 .01 .00 2301301456 600L-SB-23 2301311006 600L-SB-25 2302010736 600L-SB-24 2302041136 600L-SB-22 2302041606 600L-SB-20 2302070906 200L-SB-10 2302031336 600L-SB-26 2302031441 600L-SB-21 January 2023 F039 MWPS-GW-1399 MWPS-GW-1400 MWPS-GW-1402 MWPS-GW-1406 MWPS-GW-1408 MWPS-GW-1409 MWPS-GW-1398 MWPS-GW-1407 MWPS-GW-1401 001 Outfall Client ID DLCS LCS MB EQ2300100-02 E2300143-002 E2300143-003 E2300143-005 E2300153-005 EQ2300100-01 EQ2300100-03 E2300143-004 E2300153-004 E2300155-002 10 E2300160-001 E2300165-001 R2300854-001 16 R2300856-001 20 R2300944-001 E2300143-001 E2300155-001 R2300917-001 R2300940-001 19 R2300942-001 R2300946-001 R2301229-001 Lab Code

### Spiking Solutions

Name: 161	Name: 1613B Matrix Working Standard	ng Standard		Inventory ID 227519	519	Logbook Ref: tw 02/08/23 227519	, 02/08/23 22751	6		Expires On: 08/07/2023	07/2023
ЕQ2300100-02 100.00µL	100.00µL	ЕQ2300100-02 100.00µL	100.00µL	EQ2300100-03	00-03 100.00µL	ΕQ2300100-03 100.00μL	100.00µL	:			
Name: 1613	Name: 1613B Labeled Working Standard	ing Standard		Inventory ID 227963	963	Logbook Ref: NB 03/07/2023 lws @2-4ng/mL	B 03/07/2023 lws	; @2-4ng/mL		Expires On: 04/10/2023	10/2023
E2300143-001 1,000.00µL E2300153-005 1,000.00µL EQ2300100-01 1,000.00µL R2300856-001 1,000.00µL R2301229-001 1,000.00µL	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL	E2300143-002 1,000.00µL E2300155-001 1,000.00µL EQ2300100-02 1,000.00µL R2300917-001 1,000.00µL	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL	E2300143-003 E2300155-002 EQ2300100-02 R2300940-001	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL	E2300143-004 E2300160-001 EQ2300100-03 R2300942-001	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL	E2300143-005 E2300165-001 EQ2300100-03 R2300944-001	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL	E2300153-004 1,000.00µL EQ2300100-01 1,000.00µL R2300854-001 1,000.00µL R2300946-001 1,000.00µL	1,000.00µL 1,000.00µL 1,000.00µL 1,000.00µL

## Preparation Information Benchsheet

Prep Run#: 415712
Team: Semivoa GCMS/NBIDJONGO

Prep WorkFlow: OrgExtDioxAq-30 Prep Method: Method

Status: Prepped Prep Date/Time: 3/6/23 09:00

Name:	8290/1613B Clea	Name: 8290/1613B Cleanup Working Standard		Inventory ID 227977	7	Logbook Ref: NB 03/08/23 CwS@8ng/mL	B 03/08/23	CwS@8ng/mL		Expires On: 09/04/2023	04/2023
E2300143-001 E2300153-005	-001 100.00µL -005 100.00µL	E2300143-002 E2300155-001	100.00µL 100.00µL	E2300143-003 1 E2300155-002 1	100.00µL 100.00µL	E2300143-004 E2300160-001	100.00µL 100.00µL	E2300143-005 E2300165-001	100.00µL	E2300153-004 100.00µL EO2300100-01 100.00µL	100.00µL
EQ2300100-01		EQ2300100-02	$100.00 \mu L$	EQ2300100-02	100.001	EQ2300100-03	100.001	EQ2300100-03	100.00L		100.00µL
R2300856-001 R2301229-001	R2300856-001 100.00µL R2301229-001 100.00µL	R2300917-001	100.00μΣ	R2300940-001	100.00µL	R2300942-001	100.00µL	R2300944-001	100.00µL	R2300946-001	100.00μL
Preparati	Preparation Materials										
Carbon, High Purity	h Purity	OO carbon 03/08/2023 (227980)	23 (227980)	Ethyl Acetate 99.9% Minimum FrOAc	Minimum	BF 12/09/22 (226524)		Glass Wool		bf 12/08/2022 (226936)	(
Hexanes 95%	%	NB 02/02/23 Hexanes (227456)	s (227456)	Chlorine Test Strips		NB 11/22/22 Chlorine (226261)	(226261)	Dichloromethane (Methylene	Methylene	NB 02/02/23 CH3Cl2 (227457)	(227457)
Sodium Sulfate Anhydra Reagent Grade No 2804	Sodium Sulfate Anhydrous Reagent Grade Na 2804	SN 5/18/22 (223143)		Tridecane (n-Tridecane)	ne)	bf 12/19/2022 (226823)		Chlonde) 99.9% MeCl2 pH Paper 0-14	IeCI2	NB 11/22/22 pH0-14 (226262)	226262)
Silica Gel	ine trades of	bf 01/09/2023 (227218)	18)	sulfuric acid		NB 02/02/23 H2SO4 (227458)	227458)	Toluene 99.9% Minimum	nimum	toluene 02/28/23 (227845)	845)
Preparation Steps	ion Steps										
Step:	Extraction	Step:	Acid Clean	Step:	Silica Gel Clean		Step: Fin	Final Volume			
Started:	3/6/23 09:00	Started:	3/7/23 09:00	Started:	3/8/23 09:00		Started: 3/1	3/16/23 09:00			
Finished:	3/6/23 17:00	Finished:	3/7/23 10:00	Finished:	3/8/23 14:00		Finished: 3/1	3/16/23 15:00			
By:	NBIDIONGO	By:	NBIDJONGO	By:	NBIDJONGO	GO By:	•	NBIDJONGO			
Comments		Comments		Comments		රි	Comments				

03/06/23 Date: Reviewed By: NB

Chain of Custody

Comments:

Extracts Examined Yes 18 of 34 Date: Date: Relinquished By: Received By:

Printed 3/29/23 11:26



### **Analytical Results**

ALS Environmental - Houston Specialties Laboratory 10450 Stancliff Rd., Suite 210, Houston TX 77099 Phone (281)530-5656 Fax (281)530-5887 www.alsglobal.com

Analytical Report

Client:

ALS Environmental - Holland (MI)

Project:

23020751

Service Request: E2300160 **Date Collected:** 02/08/23 12:30

Sample Matrix:

Aqueous Leachate

Date Received: 02/17/23 13:20

Sample Name:

January 2023 F039

Units: pg/L

Lab Code:

E2300160-001

Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 18:07

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

Sample Amount:

125mL

Instrument Name: E-HRMS-08

GC Column: DB-5MSUI

Data File Name:

P635792

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

				Ion		Dilution
Analyte Name	Result Q	EDL	MRL	Ratio	RRT	Factor
2,3,7,8-TCDD	50.5 <b>K</b>	17.3	40.0	0.93	1.001	1
1,2,3,7,8-PeCDD	64.5 <b>J</b>	9.19	200	1.78	1.000	1
1,2,3,4,7,8-HxCDD	27. <b>8JK</b>	6.22	200	0.70	1.001	1
1,2,3,6,7,8-HxCDD	88.0 <b>J</b>	5.93	200	1.10	1.000	1
1,2,3,7,8,9-HxCDD	43.5 <b>J</b>	5.84	200	1.08	1.006	1
1,2,3,4,6,7,8-HpCDD	633	25.5	200	0.94	1.000	1
OCDD	4690	22.7	400	0.82	1.000	1
2,3,7,8-TCDF	233	9.56	40.0	0.84	1.001	1
1,2,3,7,8-PeCDF	1450	46.3	200	1.54	1.001	1
2,3,4,7,8-PeCDF	1290	51.2	200	1.58	1.000	.1
1,2,3,4,7,8-HxCDF	13500	29.3	200	1.17	1.000	1
1,2,3,6,7,8-HxCDF	4360	32.3	200	1.22	1.000	1
1,2,3,7,8,9-HxCDF	403	37.8	200	1.41	1.001	1
2,3,4,6,7,8-HxCDF	901	26.9	200	1.20	1.000	1
1,2,3,4,6,7,8-HpCDF	81500	53.3	200	0.99	1.000	1
1,2,3,4,7,8,9-HpCDF	1400	59.6	200	0.99	1.000	1
OCDF	109000	19.6	400	0.85	1.005	1

Analytical Report

Client:

ALS Environmental - Holland (MI)

Project:

23020751

Service Request: E2300160

Date Collected: 02/08/23 12:30

Sample Matrix:

Aqueous Leachate

Date Received: 02/17/23 13:20

Sample Name:

January 2023 F039

Units: pg/L

Lab Code:

E2300160-001

Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 18:07

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

**Sample Amount:** 

125mL

**Instrument Name: E-HRMS-08** 

GC Column: DB-5MSUI

**Data File Name:** 

P635792

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

Analyte Name	Result Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	425	17.3	40.0	0.82		1
Total Penta-Dioxins	473	9.19	200	1.57		1
Total Hexa-Dioxins	318	6.00	200	1.21		1
Total Hepta-Dioxins	1560	25.5	200	0.99		1
Total Tetra-Furans	14500	9.56	40.0	0.72		1
Total Penta-Furans	21200	5.01	200	1.36		1
Total Hexa-Furans	37300	31.2	200	1.25		1
Total Hepta-Furans	87200	56.4	200	0.99		1

Analytical Report

Client:

ALS Environmental - Holland (MI)

Project:

23020751

Service Request: E2300160 **Date Collected:** 02/08/23 12:30

Sample Matrix:

Aqueous Leachate

Date Received: 02/17/23 13:20

Sample Name:

January 2023 F039

Units: Percent

Lab Code:

E2300160-001

Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 18:07

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

**Sample Amount:** 

125mL

**Instrument Name: E-HRMS-08** 

GC Column: DB-5MSUI

Data File Name:

P635792

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

### **Labeled Standard Results**

	Spike	Conc.			Control	Ion	
Labeled Compounds	Conc.(pg)	Found (pg)	% Rec	Q	Limits	Ratio	RRT
13C-2,3,7,8-TCDD	2000	1156.155	58		40-135	0.76	1.019
13C-1,2,3,7,8-PeCDD	2000	1195.323	60		40-135	1.60	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1099.947	55		40-135	1.22	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1164.718	58		40-135	1.27	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	746.140	37	Y	40-135	1.06	1.066
13C-OCDD	4000	916.351	23	Y	40-135	0.88	1.142
13C-2,3,7,8-TCDF	2000	1156.745	58		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1370.349	69		40-135	1.54	1.133
13C-2,3,4,7,8-PeCDF	2000	1207.520	60		40-135	1.59	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1087.284	54		40-135	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	951.396	48		40-135	0.50	0.975
13C-1,2,3,7,8,9-HxCDF	2000	983.768	49		40-135	0.50	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1201.096	60		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	728.584	36	Y	40-135	0.43	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	892.795	45		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	359.758	45		40-135	NA	1.020

Analytical Report

Client:

ALS Environmental - Holland (MI)

Project:

23020751

Service Request: E2300160

**Date Collected:** 02/08/23 12:30 Date Received: 02/17/23 13:20

Sample Matrix: Sample Name:

Aqueous Leachate January 2023 F039

Units: pg/L

Lab Code:

E2300160-001

Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Prep Method:

Method Sep Funnel/Jar

### **Toxicity Equivalency Quotient**

Analyte Name	Result	DL	MRL	Dilution Factor	TEF	TEF - Adjusted Concentration
2,3,7,8-TCDD	50.5	17.3	40.0	1	1	50.5
1,2,3,7,8-PeCDD	64.5	9.19	200	1	1	64.5
1,2,3,4,7,8-HxCDD	27.8	6.22	200	1	0.1	2.78
1,2,3,6,7,8-HxCDD	88.0	5.93	200	1	0.1	8.80
1,2,3,7,8,9-HxCDD	43.5	5.84	200	1	0.1	4.35
1,2,3,4,6,7,8-HpCDD	633	25.5	200	1	0.01	6.33
OCDD	4690	22.7	400	1	0.0003	1.41
2,3,7,8-TCDF	233	9.56	40.0	1	0.1	23.3
1,2,3,7,8-PeCDF	1450	46.3	200	1	0.03	43.5
2,3,4,7,8-PeCDF	1290	51.2	200	1	0.3	387
1,2,3,4,7,8-HxCDF	13500	29.3	200	1	0.1	1350
1,2,3,6,7,8-HxCDF	4360	32.3	200	1	0.1	436
1,2,3,7,8,9-HxCDF	403	37.8	200	1	0.1	40.3
2,3,4,6,7,8-HxCDF	901	26.9	200	1	0.1	90.1
1,2,3,4,6,7,8-HpCDF	81500	53.3	200	1	0.01	815
1,2,3,4,7,8,9-HpCDF	1400	59.6	200	1	0.01	14.0
OCDF	109000	19.6	400	1	0.0003	32.7
	To	otal TEQ			***	3370

2005 WHO TEFs, ND = 0

Analytical Report

Client:

ALS Environmental - Holland (MI)

Service Request: E2300160

**Project:** 

23020751

Date Collected: NA

Sample Matrix:

Aqueous Leachate

Date Received: NA

Sample Name: Lab Code:

Method Blank EQ2300100-01 Units: pg/L Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/28/23 15:15

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

Sample Amount:

2000mL

Instrument Name: E-HRMS-07

GC Column: DB-5MSUI

Data File Name:

P541700

Blank File Name: P541700

**ICAL Date:** 

02/09/23

Cal Ver. File Name: P541696

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
2,3,7,8-TCDD	ND	Ū	1.12	2.50			1
1,2,3,7,8-PeCDD	ND	U	0.598	12.5			1
1,2,3,4,7,8-HxCDD	1.10 <b>J</b>		0.243	12.5	1.09	1.000	1
1,2,3,6,7,8-HxCDD	0.239 <b>JK</b>		0.237	12.5	0.61	1.000	1
1,2,3,7,8,9-HxCDD	ND	U	0.235	12.5			1
1,2,3,4,6,7,8-HpCDD	0.496 <b>JK</b>		0.376	12.5	3.22	1.001	1
OCDD	2.30ЈК		0.527	25.0	0.63	1.000	1
2,3,7,8-TCDF	ND	U	0.889	2.50			1
1,2,3,7,8-PeCDF	ND	U	0.322	12.5			1
2,3,4,7,8-PeCDF	ND	U	0.347	12.5			1
1,2,3,4,7,8-HxCDF	ND	U	0.335	12.5			1
1,2,3,6,7,8-HxCDF	ND	U	0.373	12.5			1
1,2,3,7,8,9-HxCDF	0.574 <b>JK</b>		0.441	12.5	0.77	1.000	1
2,3,4,6,7,8-HxCDF	ND	U	0.314	12.5			1
1,2,3,4,6,7,8-HpCDF	0.402 <b>JK</b>		0.0890	12.5	0.76	1.000	1
1,2,3,4,7,8,9-HpCDF	$0.289 \mathbf{J}$		0.0965	12.5	1.18	1.000	1
OCDF	ND	U	1.42	25.0			1

Analytical Report

Client: ALS Environmental - Holland (MI)

Service Request: E2300160 Date Collected: NA

**Project:** 23020751

Sample Matrix: Aqueous Leachate Date Received: NA

Sample Name:

Lab Code:

Method Blank Units: pg/L EQ2300100-01 Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/28/23 15:15

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

2000mL Sample Amount:

Instrument Name: E-HRMS-07

GC Column: DB-5MSUI

Data File Name: **ICAL Date:** 

P541700

Blank File Name: P541700

02/09/23

Cal Ver. File Name: P541696

	•				Ion		Dilution
Analyte Name	Result	Q	EDL	MRL	Ratio	RRT	Factor
Total Tetra-Dioxins	ND	U	1.12	2.50			1
Total Penta-Dioxins	ND	U	0.598	12.5			1
Total Hexa-Dioxins	$1.10\mathbf{J}$		0.238	12.5	1.09		1
Total Hepta-Dioxins	ND	U	0.376	12.5			1
Total Tetra-Furans	ND	U	0.889	2.50			1
Total Penta-Furans	ND	U	0.334	12.5			1
Total Hexa-Furans	ND	U	0.360	12.5			1
Total Hepta-Furans	0.289 <b>J</b>		0.0925	12.5	1.18		1

Analytical Report

Client:

ALS Environmental - Holland (MI)

Date Collected: NA

Service Request: E2300160

Project: Sample Matrix:

Aqueous Leachate

Date Received: NA

Sample Name:

Units: Percent

Lab Code:

Method Blank EQ2300100-01

23020751

Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/28/23 15:15

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

Sample Amount:

2000mL

Instrument Name: E-HRMS-07

GC Column: DB-5MSUI

Data File Name:

P541700

Blank File Name: P541700

**ICAL Date:** 

02/09/23

Cal Ver. File Name: P541696

### **Labeled Standard Results**

	Spike	Conc.			Control	Ion	
Labeled Compounds	Conc.(pg)	Found (pg)	% Rec	Q	Limits	Ratio	RRT
13C-2,3,7,8-TCDD	2000	1221.932	61		40-135	0.80	1.020
13C-1,2,3,7,8-PeCDD	2000	1287.997	64		40-135	1.57	1.184
13C-1,2,3,4,7,8-HxCDD	2000	1240.615	62		40-135	1.31	0.991
13C-1,2,3,6,7,8-HxCDD	2000	1226.987	61		40-135	1.21	0.993
13C-1,2,3,4,6,7,8-HpCDD	2000	995.294	50		40-135	1.05	1.066
13C-OCDD	4000	1600.050	40		40-135	0.89	1.141
13C-2,3,7,8-TCDF	2000	1089.808	54		40-135	0.78	0.993
13C-1,2,3,7,8-PeCDF	2000	1398.770	70		40-135	1.59	1.142
13C-2,3,4,7,8-PeCDF	2000	1250.538	63		40-135	1.61	1.174
13C-1,2,3,4,7,8-HxCDF	2000	1292.773	65		40-135	0.49	0.971
13C-1,2,3,6,7,8-HxCDF	2000	1083.386	54		40-135	0.50	0.974
13C-1,2,3,7,8,9-HxCDF	2000	1149.316	57		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1353.451	68		40-135	0.50	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	966.742	48		40-135	0.43	1.042
13C-1,2,3,4,7,8,9-HpCDF	2000	1209.634	60		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	423.683	53		40-135	NA	1.021



### **Accuracy & Precision**

ALS Environmental - Houston Specialties Laboratory 10450 Stancliff Rd., Suite 210, Houston TX 77099 Phone (281)530-5656 Fax (281)530-5887 www.alsglobal.com

QA/QC Report

**Client:** 

ALS Environmental - Holland (MI)

Project:

23020751

Aqueous Leachate

Service Request:

E2300160

Date Analyzed:

03/27/23

Date Extracted:

03/06/23

### **Duplicate Lab Control Sample Summary**

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method:

Sample Matrix:

8290

Prep Method:

Method Sep Funnel/Jar

Units:

Basis:

pg/L NA

Analysis Lot:

799329

Lab Control Sample EQ2300100-02

Duplicate Lab Control Sample EQ2300100-03

							% Rec		
Analyte Name	Result	Spike Amount	% Rec	Result	Spike Amount	% Rec	Limits	RPD	RPD Limit
1,2,3,4,6,7,8-HpCDD	487	500	97	476	500	95	70-130	2	25
1,2,3,4,7,8-HxCDD	443	500	89	421	500	84	70-130	5	25
1,2,3,6,7,8-HxCDD	425	500	85	406	500	81	70-130	5	25
1,2,3,7,8,9-HxCDD	435	500	87	424	500	85	70-130	3	25
1,2,3,7,8-PeCDD	476	500	95	447	500	89	70-130	6	25
2,3,7,8-TCDD	87.6	100	88	85.4	100	85	70-130	3	25
OCDD	972	1000	97	901	1000	90	70-130	8	25
1,2,3,4,6,7,8-HpCDF	461	500	92	431	500	86	70-130	7	25
1,2,3,4,7,8,9-HpCDF	384	500	77	354	500	71	70-130	8	25
1,2,3,4,7,8-HxCDF	408	500	82	405	500	81	70-130	<1	25
1,2,3,6,7,8-HxCDF	451	500	90	435	500	87	70-130	3	25
1,2,3,7,8,9-HxCDF	446	500	89	415	500	83	70-130	7	25
1,2,3,7,8-PeCDF	379	500	76	367	500	73	70-130	3	25
2,3,4,6,7,8-HxCDF	374	500	75	356	500	71	70-130	5	25
2,3,4,7,8-PeCDF	440	500	88	427	500	85	70-130	3	25
2,3,7,8-TCDF	79.9	100	80	74.3	100	74	70-130	7	25
OCDF	880	1000	88	832	1000	83	70-130	6	25

Analytical Report

Client: ALS Environmental - Holland (MI) Service Request: E2300160

Project: 23020751 Date Collected: NA
Sample Matrix: Aqueous Leachate Date Received: NA

Sample Name:Lab Control SampleUnits: pg/LLab Code:EQ2300100-02Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

Analysis Method: 8290 Date Analyzed: 03/27/23 22:16

Prep Method: Method Sep Funnel/Jar Date Extracted: 3/6/23

Sample Amount: 2000mL Instrument Name: E-HRMS-08

GC Column: DB-5MSUI
Blank File Name: P541700

Data File Name:P635797Blank File Name:P541700ICAL Date:03/15/22Cal Ver. File Name:P635787

				Ion		Dilution
Analyte Name	Result Q	EDL	MRL	Ratio	RRT	Factor
2,3,7,8-TCDD	87.6	0.733	2.50	0.74	1.001	1
1,2,3,7,8-PeCDD	476	0.588	12.5	1.62	1.000	1
1,2,3,4,7,8-HxCDD	443	0.0930	12.5	1.24	1.000	1
1,2,3,6,7,8-HxCDD	425	0.0910	12.5	1.24	1.000	1
1,2,3,7,8,9-HxCDD	435	0.0885	12.5	1.22	1.007	1
1,2,3,4,6,7,8-HpCDD	487	0.178	12.5	1.02	1.000	1
OCDD	972	4.75	25.0	0.90	1.000	1
2,3,7,8-TCDF	79.9	0.371	2.50	0.73	1.001	1
1,2,3,7,8-PeCDF	379	0.230	12.5	1.54	1.001	1
2,3,4,7,8-PeCDF	440	0.252	12.5	1.59	1.000	1
1,2,3,4,7,8-HxCDF	408	0.115	12.5	1.20	1.000	1
1,2,3,6,7,8-HxCDF	451	0.130	12.5	1.25	1.000	1
1,2,3,7,8,9-HxCDF	446	0.139	12.5	1.21	1.000	1
2,3,4,6,7,8-HxCDF	374	0.103	12.5	1.19	1.000	1
1,2,3,4,6,7,8-HpCDF	461	0.570	12.5	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	384	0.574	12.5	0.96	1.000	1
OCDF	880	1.91	25.0	0.87	1.005	1

Analytical Report

Client:

ALS Environmental - Holland (MI)

Service Request: E2300160

**Project:** 

23020751

Date Collected: NA

Sample Matrix:

Aqueous Leachate

Date Received: NA

Sample Name:

Lab Control Sample

Units: pg/L

Lab Code:

EQ2300100-02

Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 22:16

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

**Sample Amount:** 

2000mL

Instrument Name: E-HRMS-08

GC Column: DB-5MSUI

Data File Name:

P635797

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

					Ion		Dilution
Analyte Name	Result	Q	EDL	MRL	Ratio	RRT	Factor
Total Tetra-Dioxins	87.6		0.733	2.50	0.74		1
Total Penta-Dioxins	479		0.588	12.5	1.62		1
Total Hexa-Dioxins	1300		0.0905	12.5	1.24		1
Total Hepta-Dioxins	487		0.178	12.5	1.02		1
Total Tetra-Furans	80.3		0.371	2.50	0.86		1
Total Penta-Furans	819		0.240	12.5	1.54		1
Total Hexa-Furans	1680		0.120	12.5	1.20		1
Total Hepta-Furans	844		0.571	12.5	1.02		1

Analytical Report

Client:

ALS Environmental - Holland (MI)

Service Request: E2300160

Project:

23020751

Date Collected: NA Date Received: NA

Sample Matrix:

Aqueous Leachate

Sample Name:

Lab Control Sample

Units: Percent

Lab Code:

EQ2300100-02

Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 22:16

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

**Sample Amount:** 

2000mL

**Instrument Name: E-HRMS-08** 

GC Column: DB-5MSUI

**Data File Name:** 

P635797

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

### **Labeled Standard Results**

	Spike	Conc.			Control	Ion	
Labeled Compounds	Conc.(pg)	Found (pg)	% Rec	Q	Limits	Ratio	RRT
13C-2,3,7,8-TCDD	2000	1346.537	67		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	1360.108	68		40-135	1.59	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1543.529	77		40-135	1.25	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1632.223	82		40-135	1.21	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1236.482	62		40-135	1.02	1.066
13C-OCDD	4000	2201.042	55		40-135	0.89	1.143
13C-2,3,7,8-TCDF	2000	1384.356	69		40-135	0.77	0.994
13C-1,2,3,7,8-PeCDF	2000	1579.147	79		40-135	1.62	1.132
13C-2,3,4,7,8-PeCDF	2000	1385.133	69		40-135	1.56	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1491.918	75		40-135	0.52	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1298.263	65		40-135	0.53	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1421.542	71		40-135	0.53	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1690.351	85		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1124.833	56		40-135	0.42	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1556.361	78		40-135	0.42	1.079
37Cl-2,3,7,8-TCDD	800	321.323	40		40-135	NA	1.020

Analytical Report

Client: ALS Environmental - Holland (MI)

23020751

Service Request: E2300160

Project: Sample Matrix:

Aqueous Leachate

Date Collected: NA Date Received: NA

Sample Name:

**Duplicate Lab Control Sample** 

Units: pg/L

Lab Code:

EQ2300100-03

Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 23:06

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

Sample Amount:

2000mL

Instrument Name: E-HRMS-08

GC Column: DB-5MSUI

Data File Name:

P635798

Blank File Name: P541700

**ICAL Date:** 

03/15/22

Cal Ver. File Name: P635787

				Ion		Dilution
Analyte Name	Result Q	EDL	MRL	Ratio	RRT	Factor
2,3,7,8-TCDD	85.4	0.717	2.50	0.76	1.001	1
1,2,3,7,8-PeCDD	447	0.298	12.5	1.58	1.000	1
1,2,3,4,7,8-HxCDD	421	0.211	12.5	1.32	1.000	1
1,2,3,6,7,8-HxCDD	406	0.202	12.5	1.28	1.000	1
1,2,3,7,8,9-HxCDD	424	0.199	12.5	1.23	1.006	1
1,2,3,4,6,7,8-HpCDD	476	0.179	12.5	0.98	1.000	1
OCDD	901	1.82	25.0	0.90	1.000	1
2,3,7,8-TCDF	74.3	0.219	2.50	0.74	1.001	1
1,2,3,7,8-PeCDF	367	0.277	12.5	1.58	1.001	1
2,3,4,7,8-PeCDF	427	0.304	12.5	1.54	1.000	1
1,2,3,4,7,8-HxCDF	405	0.0970	12.5	1.22	1.000	1
1,2,3,6,7,8-HxCDF	435	0.110	12.5	1.23	1.000	1
1,2,3,7,8,9-HxCDF	415	0.115	12.5	1.23	1.000	1
2,3,4,6,7,8-HxCDF	356	0.0865	12.5	1.23	1.000	1
1,2,3,4,6,7,8-HpCDF	431	0.637	12.5	1.02	1.000	1
1,2,3,4,7,8,9-HpCDF	354	0.589	12.5	0.99	1.000	1
OCDF	832	4.04	25.0	0.89	1.005	1

Analytical Report

**Client:** ALS Environmental - Holland (MI)

**Project:** 23020751

Sample Matrix:

Date Collected: NA Aqueous Leachate Date Received: NA

Sample Name: Duplicate Lab Control Sample Units: pg/L Lab Code: EQ2300100-03 Basis: NA

Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 8290 Date Analyzed: 03/27/23 23:06 Prep Method: Method Sep Funnel/Jar **Date Extracted:** 3/6/23

Sample Amount: 2000mL Instrument Name: E-HRMS-08

GC Column: DB-5MSUI

Data File Name: P635798 Blank File Name: P541700 **ICAL Date:** 03/15/22 Cal Ver. File Name: P635787

**Native Analyte Results** 

Analyte Name	Result	Q	EDL	MRL	Ion Ratio	RRT	Dilution Factor
Total Tetra-Dioxins	85.7		0.717	2.50	0.76		1
Total Penta-Dioxins	447		0.298	12.5	1.58		1
Total Hexa-Dioxins	1250		0.204	12.5	1.32		1
Total Hepta-Dioxins	476		0.179	12.5	0.98		1
Total Tetra-Furans	74.8		0.219	2.50	0.86		1
Total Penta-Furans	801		0.290	12.5	1.58		1
Total Hexa-Furans	1610		0.101	12.5	1.22		1
Total Hepta-Furans	787		0.611	12.5	1.02		1

Service Request: E2300160

Analytical Report

Client:

ALS Environmental - Holland (MI)

Service Request: E2300160

Project:

23020751

Date Collected: NA

Sample Matrix:

Aqueous Leachate

Date Received: NA

Sample Name:

**Duplicate Lab Control Sample** 

Units: Percent

Lab Code:

EQ2300100-03

Basis: NA

### Polychlorinated Dibenzodioxins and Polychlorinated Dibenzofurans by HRGC/HRMS

**Analysis Method:** 

8290

Date Analyzed: 03/27/23 23:06

Prep Method:

Method Sep Funnel/Jar

Date Extracted: 3/6/23

Sample Amount: 20

2000mL

Instrument Name: E-HRMS-08

GC Column: DB-5MSUI

Data File Name:

P635798

Blank File Name: P541700

ICAL Date:

03/15/22

Cal Ver. File Name: P635787

### **Labeled Standard Results**

Yahala Camanana	Spike	Conc.	0/ D	0	Control	Ion	DDT
Labeled Compounds	Conc.(pg)	Found (pg)	% Rec	Q	Limits	Ratio	RRT
13C-2,3,7,8-TCDD	2000	1400.658	70		40-135	0.79	1.019
13C-1,2,3,7,8-PeCDD	2000	1438.281	72		40-135	1.61	1.172
13C-1,2,3,4,7,8-HxCDD	2000	1537.332	77		40-135	1.29	0.992
13C-1,2,3,6,7,8-HxCDD	2000	1633.960	82		40-135	1.26	0.994
13C-1,2,3,4,6,7,8-HpCDD	2000	1244.602	62		40-135	1.07	1.066
13C-OCDD	4000	1946.886	49		40-135	0.92	1.143
13C-2,3,7,8-TCDF	2000	1395.790	70		40-135	0.76	0.994
13C-1,2,3,7,8-PeCDF	2000	1670.567	84		40-135	1.57	1.133
13C-2,3,4,7,8-PeCDF	2000	1459.073	73		40-135	1.56	1.163
13C-1,2,3,4,7,8-HxCDF	2000	1485.224	74		40-135	0.51	0.972
13C-1,2,3,6,7,8-HxCDF	2000	1271.927	64		40-135	0.52	0.975
13C-1,2,3,7,8,9-HxCDF	2000	1476.154	74		40-135	0.51	1.008
13C-2,3,4,6,7,8-HxCDF	2000	1683.082	84		40-135	0.51	0.988
13C-1,2,3,4,6,7,8-HpCDF	2000	1164.909	58		40-135	0.42	1.041
13C-1,2,3,4,7,8,9-HpCDF	2000	1619.325	81		40-135	0.43	1.079
37Cl-2,3,7,8-TCDD	800	252.843	32		40-135	NA	1.020

23020751

REPULJOINCUSTRAL - ROMULUS Republic Industrial and Energy Solution, LLC

Project: January F039 Leachate- 02.08.23

### **Chain of Custody Form**

ŏ Page 1

ALS Environmental 3352 128th Avenue Holland, Michigan 49424 (Tel) 616.399.6070 (Fax) 616.399.6185 5

					ALS Project Manager:	Manager:				ALS W	ALS Work Order #:	##				
Cust	Customer Information		Project I	Project Information	uo			Para	ımeter	Parameter/Method Request for Analysis	d Requ	lest fo	r Anal	ysis		
Purchase Order		Project Name	Name RIESO	RIES022023 F039			A Aldrin	-								
Work Order		Project Number	mber				В Неха	chlorodi	penzo-p	Hexachlorodibenzo-p-dioxins						
Company Name	Republic Industrial and Energy	Bill To Company		olic Industri	Republic Industrial and Energy	,	C Nitro	sodimet	Nitrosodimethlyamine	e						
Send Report To	Rick Sauve	Invoice Attn.	Attn.				D 1,2,3	,4,6,7,8,	9-Octacl	1,2,3,4,6,7,8,9-Octachlor-dibenzofuran	enzofura	c				
Address	28470 Cintrin Dr.	Act	Address 28470	28470 Cintrin Dr.				4,6,7,8,	9-Octac	1,2,3,4,6,7,8,9-Octachloro-dibenzo-p-dioxin	enzo-p-	dioxin				
Seamor			200				F Tetra	chlorodi	penzo-t	Tetrachlorodibenzo-p-dioxins						
City/State/Zip	Romulus, MI 48174	City/State/Zip		Romulus, MI 48174	74		ဖ									
Phone	34-784-2708	<u> </u>	Phone				I									
Fax	7		Fax				_									
e-Mail Address	e-Mail Address RSauve@republicservices.com						7									
No.	Sample Description	Date	Time	Matrix	Pres. Key Numbers	# Bottles	4	m m	۵ ن	m	u.	ŋ	I	_	ェ	Hold
1 January 2023 F039	F039	2/8/2023	17:30 PM	_		ю	×	×	×	×	×					
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Sampler(s): Please Print & Sign	Print & Sign	Shipmen	Shipment Method:	Tun	naround Tim	Turnaround Time: (Business Days)	Days)		Other	ıer		Res	Results Due Date:	e Date:		
Rick Sauve	rell Nova				] 0801	✓ 5 8D	380	☐ 2 BD	g G	☐ 8						
Relinquished by:	Date:	Time:	eceived by:	1/7	١		Time: N	Notes:							\ _	
Rick Sauve Noch	Lame 2/8/2023	B/F	In the		\	2/9/23	1130	Rocod	12	2/9/23 2200 3	, 224	00	Z		7	
Relinquished by:	Date: Date:		Received by (Laboratory):	ratory):		Date: 7/6/2		ALS Cooler	ō Ē	Cooler Q(	QC Package: (Check Box Below)	ge: (Ch	ď	x Below	ox Below)	
	3/2	001/	2			2/1	_	2 6	·		্য Level II: Standard UC	Stanoard		evel III;	raw Data	
Logged by (Laboratory):	Date:		Checked by (Laboratory):	atory):				123	m	√2           6	TRRP LRC		4	I KKP Level IV	21	
ų.	DES 21 10123	10123 0830							-		J Level IV:	SW846 M	Level IV: SW846 Methods/CLP like Other:	₽ i¥e		
Preservative Kev.	OS H-6 JAN-6 JA-6	NaOH	S CN S		COHON-8	7-Other	24%		Note:	Note: Any changes must be made in writing once	nges mu	st be m	ade in v	vriting (	ouce	
[	17 101 FT 1103		Z~Zma1_ <b>^</b>	:	10:50-4 10:50-1		,		sample	samples and COC Form have been submitted to ALS.	OC Forn	n have	been sul	bmitted	to ALS	

Revision 2 - Effective 11/9/2016

Copyright 2016 by ALS Environmental

### ALS Group, USA Holland, Michigan

### Sample Receipt Checklist

Client Name:	REPU	LICINDUSTRIAL - ROM	<u>ULU</u>		Date/Time I	Received:	09-Feb-23	3 22:00	
Work Order:	<u>23020</u>	<u>751</u>			Received b	y:	<u>DS</u>		
Checklist comp	oleted by			10-Feb-23	Reviewed by:	Chelsey	Cook		13-Feb-23
N#-12		eSignature		Date		eSignature			Date
Matrices: Carrier name:	<u>Liqu</u> Cou	<del></del>							
Shipping conta	iner/coc	pler in good condition?		Yes 🗹	No 🗌	Not Prese	ent 🗌		
Custody seals	intact or	n shipping container/coole	er?	Yes 🗌	No 🗌	Not Prese	ent 🗹		
Custody seals	intact or	n sample bottles?		Yes 🗌	No 🗆	Not Prese	ent 🗹		
Chain of custoo	dy prese	ent?		Yes 🗸	No 🗌				
Chain of custoo	dy signe	ed when relinquished and	received?	Yes 🗸	No 🗆				
Chain of custoo	dy agree	es with sample labels?		Yes 🗹	No 🗌				
Samples in pro	per con	tainer/bottle?		Yes 🗹	No 🗆				
Sample contair	ners inta	act?		Yes 🗹	No 🗆				
Sufficient samp	ole volur	me for indicated test?		Yes 🗹	No 🗆				
All samples rec	ceived w	vithin holding time?		Yes 🗸	No 🗆				
Container/Tem	p Blank	temperature in compliand	ce?	Yes 🗹	No 🗆				
Sample(s) rece	eived on	ice?		Yes 🗹	No 🗆				
Temperature(s)	)/Therm	ometer(s):		3.9/4.9 c		IR3	3		
Cooler(s)/Kit(s)	):								
Date/Time sam		_			8:53:19 AM				
		e zero headspace?		Yes □	No 🗆	No VOA vials	submitted	✓	
Water - pH acc	eptable	upon receipt?		Yes 📙	No ∐	N/A 🗹			
pH adjusted? pH adjusted by	r:			Yes L	No L	N/A 🔽			
Login Notes:				E					
Login Notes.									
									· <b>=</b> ====
Client Contacte	ed:		Date Contacted	l:	Person	Contacted:			
Contacted By:			Regarding:						
-			-						
Comments:									
CorrectiveActio	n:								
								SRC	Page 1 of 1