



**REPUBLIC**  
SERVICES

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August 30, 2021

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

Re: RIES Monthly Report

Dear Mr. Batka:

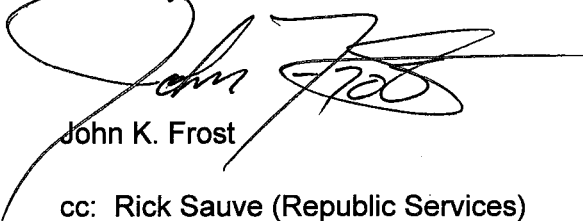
Republic Industrial and Energy Solutions, LLC (RIES) hereby submits the Ninety third Monthly Report ("MR") in conformance with the requirements of its two EPA UIC permits (#s MI-163-1W-C010 & MI-163-1W-C011). RIES is providing all the attached information in the same sequence as required by both subject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

RIES did not accept F039 waste in August of 2021 so analyses as stated on Page A-3 of 3 of RIES's EPA two UIC permits are not required to be submitted as part of this MR. Short write-ups are placed in sections Well 1 Data and Well 2 Data explaining tabulated data irregularities, and the current state of the circle charts recorders for the reporting of continuous monitoring data.

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

cc: Rick Sauve (Republic Services)

Calculation of Average Injection Rate

CURRENT REPORTING YEAR 2021  
 CURRENT REPORTING MONTH AUGUST  
 Date (month, year) of the first injection into either well at the Citrin Road Facility NOVEMBER 2013

CURRENT MONTH (all volumes in gallons)

MI-163-1W-C010, Well #1-12			
Total injected	Injected Non-Waste	Injected Waste	Since facility first injected
920,466	0	920,466	Current Month
35,715,500			Since facility first injected
MI-163-1W-C011, Well #2-12			
803,472	0	803,472	Current Month
15,822,146			Since facility first injected
51,537,646			Lifetime Combined

Conversion factors

365.25 days per year ÷ 12 months per year = 30.4375 days per month  
 30.4375 days per month × 1440 minutes per day = 43,830 minutes per month

Calculations

Whole number of months of injection 92

92  
 Lifetime number of months of injection × 43,830 minutes/month  
 = 4,032,360 minutes of injection

Lifetime combined injected volume 51,537,646 ÷ 4,032,360 minutes of injection  
 = 12.8 gpm average injection rate

**WELL 1 DATA**

## Data Description Well 1

Maximum and minimum injection pressures from 8/4 are not present on this report because the gauges were removed from the wellhead during the annual Mechanical Integrity Testing (MIT) procedures. No waste was injected during the MIT on 8/4. The MIT report will be provided to the EPA when completed.



Well 01 Monthly Data

	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
8/1/21	142.7	156.9	33.3	33.4	1,020.1	1,052.7	1.3	6.7	0.0	0.0	864.0	895.8
8/2/21	147.5	156.1	33.3	33.4	997.9	1,020.1	6.5	6.6	0.0	0.0	850.4	864.0
8/3/21	-	-	33.3	33.4	986.1	1,176.6	1.6	7.1	0.0	53.3	580.0	1,176.2
8/4/21	-	-	33.3	33.4	972.3	986.1	1.8	7.7	0.0	0.0	972.0	985.8
8/5/21	-	-	33.4	33.5	949.2	1,547.7	5.4	7.6	0.0	85.2	535.6	1,198.5
8/6/21	163.0	940.2	33.5	33.6	1,201.5	1,642.0	5.2	7.1	0.0	81.3	575.1	1,632.2
8/7/21	135.3	889.6	33.4	33.6	985.9	1,496.2	5.6	6.9	0.0	68.3	437.4	1,079.3
8/8/21	150.9	159.8	33.4	33.5	955.6	985.9	6.3	6.3	0.0	0.0	804.7	826.1
8/9/21	146.8	939.5	33.4	33.5	950.8	1,573.6	4.9	7.6	0.0	74.1	429.6	804.7
8/10/21	752.0	940.1	33.4	33.5	1455.0	1,573.5	5.2	5.3	0.0	61.5	596.0	1,516.5
8/11/21	687.3	940.4	33.3	33.5	1472.0	1,567.9	5.1	5.3	0.0	46.6	618.0	846.3
8/12/21	806.2	942.9	33.3	33.4	1530.0	1,563.2	4.9	5.1	0.0	50.5	621.0	754.2
8/13/21	795.0	939.5	33.3	33.4	1509.0	1,558.5	5.0	5.8	0.0	44.0	617.0	719.4
8/14/21	160.0	940.4	33.2	33.3	988.0	1,556.3	0.0	6.8	0.0	64.5	479.0	1,262.6
8/15/21	150.7	161.6	33.2	33.3	934.1	986.2	2.5	2.5	0.0	0.0	783.4	826.6
8/16/21	148.0	940.2	33.2	33.3	927.1	1,536.6	1.3	2.5	0.0	79.4	534.4	1,400.9
8/17/21	704.8	941.1	33.2	33.3	1459.0	1,528.9	1.1	1.4	0.0	67.9	565.0	772.8
8/18/21	151.0	941.6	33.2	33.3	1103.0	1,520.2	1.1	8.6	0.0	60.2	559.0	1,517.6
8/19/21	138.0	941.2	33.2	33.3	1042.0	1,543.4	5.3	8.3	0.0	58.6	524.0	1,018.6
8/20/21	124.0	944.5	33.3	33.4	1006.0	1,520.9	6.2	6.7	0.0	45.5	513.0	1,491.9
8/21/21	158.9	962.0	33.3	33.4	941.0	1,504.4	6.1	12.1	0.0	57.9	358.0	852.0
8/22/21	145.3	930.4	33.3	33.4	903.0	1,265.2	7.0	11.7	0.0	60.6	311.0	812.1
8/23/21	150.0	933.8	33.3	33.4	894.0	1,329.6	0.0	8.6	0.0	63.9	367.0	1,326.7
8/24/21	143.0	598.0	33.3	33.4	882.0	7,692.2	1.8	5.8	0.0	59.2	503.0	7,546.0
8/25/21	140.0	144.4	33.3	33.4	861.8	880.6	1.9	2.4	0.0	0.0	720.3	2,665.0
8/26/21	136.9	554.6	33.3	35.5	356.8	936.6	1.8	2.5	0.0	57.8	134.5	720.8
8/27/21	139.0	617.9	33.2	35.5	355.0	3,804.1	2.4	6.9	0.0	74.4	216.0	998.9
8/28/21	131.0	135.5	33.2	33.3	868.2	946.4	5.7	6.0	0.0	0.0	736.6	813.1
8/29/21	129.7	131.6	33.2	33.3	855.3	866.6	5.3	5.7	0.0	0.0	725.2	737.3
8/30/21	72.0	672.3	33.2	33.3	850.9	1,280.6	3.6	8.3	0.0	77.4	471.5	1,057.4
8/31/21	96.0	759.2	33.2	33.3	883.7	1,309.7	5.0	7.8	0.0	75.7	487.3	1,078.8

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)

## Circle Charts Well 1

As of 8/23/2021, the circle chart recorder for well 1 (circle chart recorder #1) has been repaired by Utilities Instrumentation Services. However, the circle chart recording paper was misplaced. The current climate for ordering and delivery of many materials has been an ongoing issue. Continuous monitoring data is being recorded and backed up on a hard drive system. Upon request from the EPA the data can be accessed and provided for any reporting month. Otherwise, the data recorded every 10 seconds throughout the month would take 259,000 lines of data and more than 2000 extra pages to be added to this report.

As of 9/14/2021, circle chart recording paper was delivered to the facility. A circle chart for well 1 will be supplied for the September report and a full month of charts supplied for the month of October.

**WELL 2 DATA**



## Data Description Well 2

Maximum and minimum injection pressures from 8/2 and 8/3 are not present on this report because the gauges were removed from the wellhead during the annual Mechanical Integrity Testing (MIT) procedures. No waste was injected during the MIT on 8/2 or 8/3. The MIT report will be provided to the EPA when completed.



Well 02 Monthly Data

	Injection Pressure (psig)		Annulus Tank Level (inch)		Annulus Pressure (psig)		Injection pH		Flow Rate (gpm)		Differential Pressure (psig)	
	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max	Min	Max
8/1/21	-	-	35.0	35.1	1,057.3	1,295.7	1.3	6.7	0.0	51.4	656.8	1,277.4
8/2/21	-	-	35.0	35.0	1,050.1	1,061.0	6.5	6.6	0.0	0.0	1,051.4	1,062.3
8/3/21	-	-	35.0	35.1	1,040.8	1,050.1	1.6	7.1	0.0	0.0	1,042.0	1,051.4
8/4/21	-	-	35.0	35.1	1,015.2	1,526.6	1.8	7.7	0.0	92.0	529.4	1,297.5
8/5/21	151.9	949.5	35.1	35.2	1,243.3	1,699.3	5.3	5.6	0.0	86.9	678.5	1,128.6
8/6/21	167.2	940.9	35.2	35.3	1,275.8	1,722.3	5.2	7.1	0.0	52.3	667.7	1,137.7
8/7/21	136.8	939.3	35.1	35.3	1,063.4	1,601.0	5.6	6.9	0.0	50.1	484.0	1,142.7
8/8/21	150.0	161.8	35.1	35.1	1,037.3	1,063.4	6.3	6.3	0.0	0.0	887.3	901.6
8/9/21	147.7	157.2	35.1	35.1	1,029.5	1,037.3	5.2	7.5	0.0	0.0	872.3	887.2
8/10/21	157.2	942.3	35.1	35.1	1,027.0	1,671.1	5.2	5.3	0.0	55.3	481.0	872.3
8/11/21	601.0	940.5	35.0	35.1	1,508.0	1,674.6	5.1	5.3	0.0	43.7	725.0	1,670.6
8/12/21	428.0	940.1	34.9	35.0	1,417.0	1,670.2	4.9	5.1	0.0	36.8	721.0	988.4
8/13/21	728.0	940.5	35.0	35.0	1,508.0	1,670.9	5.1	6.6	0.0	32.3	691.0	1,660.4
8/14/21	161.0	940.3	34.9	35.0	1,086.0	1,658.5	0.0	6.8	0.0	60.0	573.0	1,658.5
8/15/21	149.1	160.6	34.9	35.0	1,036.8	1,087.1	2.5	2.5	0.0	0.0	887.7	926.5
8/16/21	144.0	940.1	34.8	34.9	1,031.0	1,678.9	1.3	6.7	0.0	126.5	549.0	1,677.0
8/17/21	751.0	940.0	34.8	35.0	1,576.0	1,711.4	5.1	7.0	0.0	55.1	679.0	1,706.7
8/18/21	151.0	940.2	34.9	35.0	1,170.0	1,686.7	5.5	7.0	0.0	43.6	351.0	1,637.5
8/19/21	141.0	940.1	34.9	35.0	1,146.0	1,657.7	5.3	8.3	0.0	43.6	629.0	1,647.1
8/20/21	125.0	940.0	34.9	35.0	1,116.0	1,638.6	6.2	6.7	0.0	35.3	613.0	1,638.4
8/21/21	158.0	940.5	35.0	35.1	1,056.0	1,617.4	6.1	12.1	0.0	45.2	512.0	1,617.2
8/22/21	149.7	940.7	35.0	35.1	1,020.1	1,395.1	7.0	11.8	0.0	60.0	441.0	899.6
8/23/21	45.0	940.6	35.0	35.1	998.0	1,493.6	0.0	8.6	0.0	60.0	420.0	1,387.4
8/24/21	142.0	700.4	35.0	35.1	999.0	1,360.4	1.9	5.8	0.0	60.0	623.0	1,179.9
8/25/21	139.0	537.0	34.9	35.0	982.0	2,664.3	2.3	6.2	0.0	56.0	632.0	990.3
8/26/21	137.2	140.0	34.9	35.0	979.7	987.2	1.8	2.5	0.0	0.0	842.2	848.0
8/27/21	121.5	654.1	34.9	35.0	975.2	1,321.3	2.4	6.9	0.0	73.3	576.3	959.6
8/28/21	130.7	135.8	34.9	35.0	972.6	1,052.6	5.7	6.0	0.0	0.0	841.5	917.2
8/29/21	129.2	131.3	34.9	35.0	963.1	973.0	5.3	5.7	0.0	0.0	833.6	842.2
8/30/21	114.6	698.6	34.9	35.0	960.3	1,424.6	3.5	8.3	0.0	74.3	581.6	1,079.6
8/31/21	95.5	847.1	34.9	35.0	994.2	1,484.8	5.0	7.8	0.0	75.1	565.3	1,038.9

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)

## Circle Charts Well 2

Circle chart recorder (circle chart recorder #2) was no longer functional and needed to be replaced. Circle chart recorder installation was performed by Utility Instrumentation Services on 9/20/2021. Continuous monitoring data is being recorded and backed up on a hard drive system. Upon request from the EPA the data can be accessed and provided for any reporting month. Otherwise, the data recorded every 10 seconds throughout the month would take 259,000 lines of data and more than 2000 extra pages to be added to this report. A circle chart for well 2 will be supplied for the September report and a full month of charts supplied for the month of October.

## Circle Chart Recorder #3

Circle chart recorder #3 is broken and a replacement is on order. Upon reception of a replacement recorder, installation will be performed by Utility Instrumentation Services. Circle chart recorders #1 and #2 have been replaced by Utility Instrumentation Services in September 2021. Continuous monitoring data is being recorded and backed up on a hard drive system. Upon request from the EPA the data can be accessed and provided for any reporting month. Otherwise, the data recorded every 10 seconds throughout the month would take 259,000 lines of data and more than 2000 extra pages to be added to this report.

# **CORROSION MONITORING**

## COORSION MONITORING COUPONS VISUAL DESCRIPTION

August 2021

### Fiberglass Coupon

The coupon is dark orange (rust) 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.

### 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

There has been no apparent change to this coupon. Slight pitting is visible throughout coupon. There has been a significant volume of pumping to both Well #1 and Well #2. There has been no significant exposure to hazardous waste since October 2018.

CORROSION MONITORING PLAN  
COUPON SUMMARY

Date	Hastelloy (C267)	Stainless Steel (316L)	Fiberglass (Redbox)
12/19/2013	13.330 g	10.848 g	7.309 g
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
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
5/31/2016	13.334 g	6.084 g	6.784 g
6/30/2016	13.328 g	10.942 g	6.793 g
8/3/2016	13.326 g	10.529 g	6.743 g
8/29/2016	13.325 g	10.020 g	6.723 g
10/27/2016	13.325 g	8.765 g	6.708 g
11/29/2016	13.327 g	8.571 g	6.740 g
12/12/2016	13.323 g	8.223 g	6.717 g
1/3/2017	13.325 g	8.059 g	6.712 g
2/28/2017	13.324 g	7.634 g	6.727 g
3/24/2017	13.325 g	7.370 g	6.732 g
4/28/2017	13.325 g	6.736 g	6.736 g
5/11/2017	13.323 g	7.352 g	6.689 g
6/12/2017	13.323 g	7.357 g	6.689 g
7/5/2017	13.323 g	7.355 g	6.689 g
8/30/2017	13.324 g	7.353 g	18.105 g
9/28/2017	13.325 g	7.352 g	18.060 g
10/11/2017	13.324 g	7.350 g	18.038 g
11/16/2017	13.325 g	7.363 g	18.047 g
12/12/2017	13.326 g	7.308 g	18.307 g
			New Fiberglass coupon
			New stainless steel coupon
			New hastelloy coupon
			Initial Mass @ start up



CORROSION MONITORING PLAN  
COUPON SUMMARY

Date	Hastelloy	Stainless Steel	Fiberglass
1/29/2018	13.326 g	10.930 g	18.027 g
2/9/2018	13.325 g	10.932 g	18.044 g
3/19/2018	13.325 g	10.926 g	18.030 g
4/16/2018	13.336 g	10.863 g	18.068 g
5/17/2018	13.325 g	10.858 g	18.037 g
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	10.852 g	18.032 g
9/14/2018	13.326 g	10.854 g	18.031 g
10/10/2018	13.326 g	10.852 g	18.036 g
11/20/2018	13.326 g	10.851 g	18.031 g
12/11/2018	13.326 g	10.853 g	18.032 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	18.033 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
3/3/2020	13.326 g	10.842 g	18.034 g
4/9/2020	13.328 g	10.839 g	18.037 g
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
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

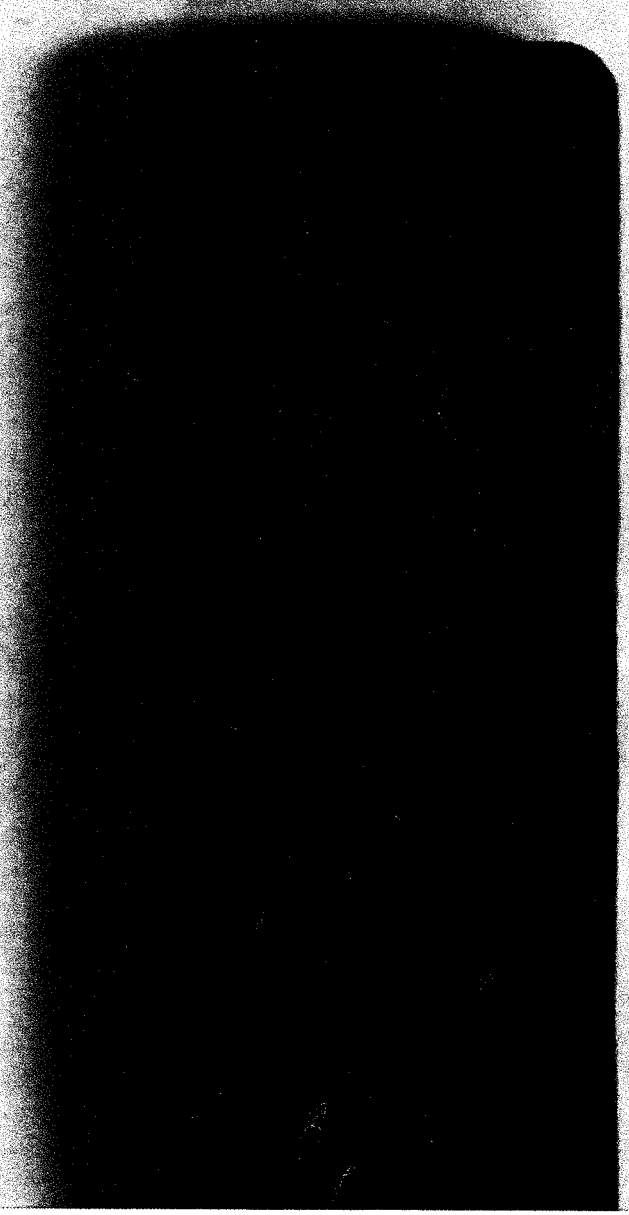
Well 1 workover new well

New stainless steel coupon

**ie: 09/14/2021**

**terial: Fiberglass**

**ight: 17.467 g.**



09/14/2021

0765

132778

09/14/2021

trial: C1563 / 316L

ME: 9.392 g.

# CORROSION MONITORING COUPONS BASELINE VISUAL DESCRIPTION

November 4, 2013

## Fiberglass

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

## Hastelloy

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

## Stainless Steel

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



October 22, 2015

Progress Through Innovation, Technology and Customer Satisfaction

# TEST REPORT

PN 125322  
PO 00154

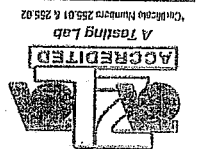
## PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: *(Signature)*  
Melissa Martin  
Sr. Project Technician

Approved By: *(Signature)*  
Jim Drummond, Sr.  
Physical & Plastic Testing, Manager



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AKRON RUBBER DEVELOPMENT LABORATORY, INC.

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

to

Prepared By:   
Melissa Martin  
Sr. Project Technician

Approved By:   
Scott W. Yates  
Plastics Testing Assistant Manager

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Progress Through Innovation, Technology and Customer Satisfaction

December 12, 2016

# TEST REPORT

PN 132662  
PO

## PLASTICS TESTING DEPARTMENT

Prepared For:

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

Rev 041916

Prepared By: *Melissa Martin*  
Senior Project Technician

Approved By: *Jim Drummond*  
Physical Testing, Manager



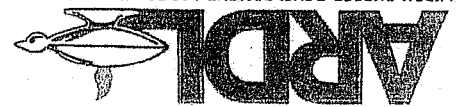
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December 12, 2016

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

WK

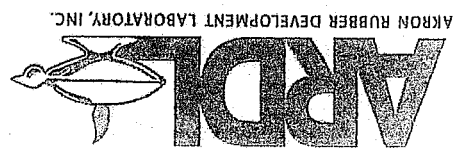
Prepared By:

Melissa Martin  
Senior Project Technician

Approved By:

Scott Yates  
Plastics Testing, Assistant Manager

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



Progress Through Innovation, Technology and Customer Satisfaction

December 13, 2017

# TEST REPORT

PN 139140  
PO#

## PLASTIC TESTING DEPARTMENT

Prepared For:

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

Prepared By: *Melissa Martin*  
 Sr Project Technician

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

Rev 04/1916



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Registered  
ISO 9001:2008

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December 13, 2017

John Frost  
Environmental Geo-Technologies, LLC

Page 2 of 2  
PN 139140

**SUBJECT:** Barcol Hardness on one material.

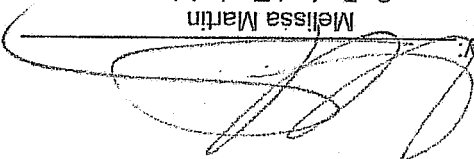
**RECEIVED:** One small section identified as; Fiberglass Coupon.

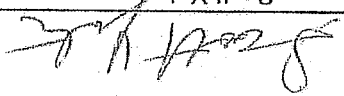
BARCOL HARDNESS ASTM D 2583-13a  
Instant Reading

Results

Barcol Hardness, Instant

96

Prepared By:   
Melissa Martin  
Sr Project Technician

Approved By:   
Scott Yates  
Plastics Testing, Assistant Manager

\*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.\*

Ghesquire Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #credit card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1 90

Specimen is being returned with this report for further evaluation.

Ghesquire Plastic Testing, Inc.

*M. W. Ghesquiere*  
M. W. Ghesquiere  
President

MWG/kml

Ghesquire 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 Clinton 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 ID: 90

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

Ghesquire Plastic Testing, Inc.

*M. W. Ghesquire*  
M. W. Ghesquire  
President

MWG/dm

Ghesquire Plastic Testing, Inc.

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

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

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

Attention: Mr. Don Anderson

WORK REQUESTED:

Perform Barcol Hardness test on sample submitted.

DESCRIPTION OF SAMPLE:

Sample submitted was identified as a fiberglass test coupon.

(P. O. #Credit Card).

WORK PERFORMED:

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

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

RESULTS:

The following determination was made based upon the above test:

BARCOL HARDNESS

Hardness

Specimen 1 85

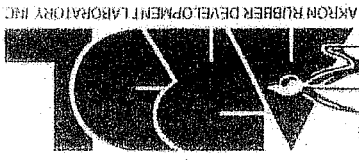
Specimen was returned to the client June 16, 2014.

Ghesquire Plastic Testing, Inc.

*M. W. Ghesquiere*  
M. W. Ghesquiere  
President

MWG/dm

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Testing, Development, Problem Solving

October 2, 2014

# TEST REPORT

PN 118325  
PO Attn: John Frost

PLASTICS TESTING DEPARTMENT

Prepared For:

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

Prepared By: *Melissa Martin*  
 St. Project Technician

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



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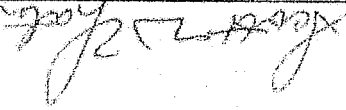
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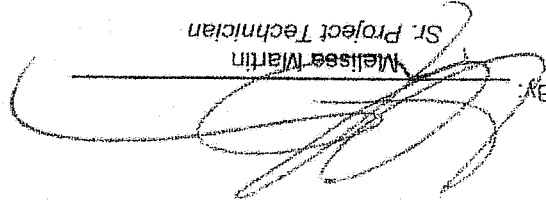
Plastics Testing Assistant Manager  
Scott W. Yates

Approved By:



Sr. Project Technician  
Melissa Martin

Prepared By:



Barcol Hardness, Instant

97

Results

BARCOL HARDNESS ASTM D 2583-13a

RECEIVED: One small section identified as: Fiberglass Coupon.

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

John Frost  
Environmental Geo-Technologies, LLC

October 2, 2014





**BARCOL HARDNESS REPORT**

Customer: Republic Industrial and Energy Solutions, LLC

Component Tested: Test Coupon

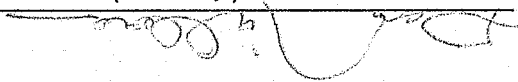
PO Number: 9575553 Job Number: 3415

Calibration: Disc: 43 - 48 Actual Reading: 45

Barcol Readings

Side One:	1	2	3	Average
62	63	58	58	61
Side Two:	58	60	57	58
Overall Average:				60

Tested By:



(signature)

(print or type name)

Gary Nicholson Date: 01/12/2021

**MAINTENANCE**

## UIC Monthly Maintenance Log

8/2/2021	Well 1&2	Annulus pressure test was performed on the annulus space of both well 1 and well 2 and witnessed by Jason Stilger from the Michigan Environment Great Lakes and Energy.
8/7-11/21	Well 1&2	Annual MIT procedures were performed on both wells
8/9/2021	Well 1&2	Injection pump 3 troubleshooting. Electrical problem controls are not functional.
8/10/2021	Well 1&2	A new head gasket on injection pump 2 was installed after being used for injection pump 3.
8/11/2021	Well 1&2	Injection pump 3 VFD is burned out and needs to be replaced.
8/23/2021	Well 1&2	New circlechart recorder was installed for well 1
8/23/2021	Well 1&2	All pressure transducers injection and annulus were wired for analog signal to provide a stable signal that prevents drop out.

**INJECTION FINGERPRINTS**

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-4-21
Receiving ID#	108042101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	6.35
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	34.5 $\mu$ S
% Solids	0.93
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/05-2024
Receiving ID#	IO8052101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	B.S.

\* well 2 only

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.9
Conductivity	22.8ms
% Solids	2.31
Turbidity	Yes No
Color	
TSS (%)	LD1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/05 - 2021
Receiving ID#	1080521 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	B.B.

\* Well 2 only

LAB INFORMATION	
Compatible? (RT# )	1
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.54
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	373.3 <sup>mS</sup>
% Solids	2.63
Turbidity	Yes No
Color	
TSS (%)	2.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/05 - 2021
Receiving ID#	108052103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	B.S.

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.62
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	18.2 mS
% Solids	2.30
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-5-21
Receiving ID#	108052104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>[Signature]</i>
Sampled by	<i>[Signature]</i>

LAB INFORMATION	
Compatible? (RT# )	<i>[X]</i>
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	<i>210</i>
pH (S.U.)	<i>6.54</i>
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	<i>1.02</i>
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	<i>71.4</i>
Conductivity	<i>238 ug</i>
% Solids	<i>2.32</i>
Turbidity	Yes No
Color	
TSS (%)	<i>701</i>
Radiation Screen (as needed)	<i>[Signature]</i>
Lab Signature/Initials	<i>[Signature]</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8.5.21
Receiving ID#	108052105
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	A

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	2140
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes NO
Oil in Sample?	Yes NO
Temperature (F)	70.3
Conductivity	34.2ms
% Solids	3.35
Turbidity	Yes NO
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-5-21
Receiving ID#	108052106
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.M
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2,100
pH (S.U.)	6.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	33.45
% Solids	2.42
Turbidity	Yes No
Color	
TSS (%)	<5
Radiation Screen (as needed)	
Lab Signature/Initials	JT

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/06-2024
Receiving ID#	108062101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	SJT
Sampled by	BJ

LAB INFORMATION	
Compatible? (RT#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	38.4mS
% Solids	2.68
Turbidity	Yes No
Color	
TSS (%)	501
Radiation Screen (as needed)	
Lab Signature/Initials	SJT

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	05/06-2021
Receiving ID#	1080621 02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.J
Sampled by	B.S

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.62
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	379µS
% Solids	2.57
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	J.J

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-6-21
Receiving ID#	108062103
Manifest #	Line 8
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	
Sampled by	Q 21

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	110
pH (S.U.)	6.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.6
Conductivity	40.2
% Solids	2.87
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-6-21
Receiving ID#	Z08021QS
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.J.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	5140
pH (S.U.)	6.59
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.6
Conductivity	34.5.5
% Solids	2.72
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-6-21
Receiving ID#	208062104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	M

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
pH (S.U.)	6.70
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.6
Conductivity	349ms
% Solids	2.73
Turbidity	Yes No
Color	
TSS (%)	21
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.



FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-9-21
Receiving ID#	1080921
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.F.F.
Sampled by	D.F.F.

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5.110
pH (S.U.)	5.82
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	67.4
% Solids	1.27
Turbidity	Yes No
Color	
TSS (%)	101
Radiation Screen (as needed)	
Lab Signature/Initials	J.F.F.

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-9-21
Receiving ID#	508092002
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	DM

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.2
Conductivity	29.6 $\mu$ S
% Solids	1.90
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/9/21
Receiving ID#	18092103
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	B.A.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	2.22
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	28.3
Conductivity	34.8
% Solids	
Turbidity	Yes
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	(T.H.)

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-9-21
Receiving ID#	108692104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	D.H

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>112
pH (S.U.)	6.63
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	34.1ms
% Solids	1.97
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-9-21
Receiving ID#	108092105
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.T.P
Sampled by	P

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2112
pH (S.U.)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	3418.5
% Solids	2.79
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	JH

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-10-21
Receiving ID#	108102101
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	DA

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	10.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	35.2 us
% Solids	2.51
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	JH

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-10-21
Receiving ID#	108103102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	EP

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	518
pH (S.U.)	6.57
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.3
Conductivity	34.5ms
% Solids	2.09
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/10/2021
Receiving ID#	106102103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	I.H.
Sampled by	BO

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	140
pH (S.U.)	6.52
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.4
Conductivity	32.9ms
% Solids	2.34
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form



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REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8.10.21
Receiving ID#	208102104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.59
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	33.5 us
% Solids	2.16
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	Z08102105
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	A.W.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	140
pH (S.U.)	6.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	34.1 mS
% Solids	2.02
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/11-2021
Receiving ID#	108112101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DTT
Sampled by	RB

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	34500
% Solids	2.54
Turbidity	Yes No
Color	
TSS (%)	101
Radiation Screen (as needed)	
Lab Signature/Initials	DTT

Receiving & Departure Approval Form

FINGERPRINT FORM

Republic Industrial and Energy Solutions, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/11/2024
Receiving ID#	IO8112102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(DT)
Sampled by	AB

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	6.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.9
Conductivity	347.05
% Solids	2.05
Turbidity	Yes No
Color	
TSS (%)	(0.1)
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-11-21
Receiving ID#	108112103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DJT
Sampled by	

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Turbidity	Yes No
Color	
TSS (%)	2.68
% Solids	
Conductivity	35.5 uS
Temperature (F)	70.5
Radiation Screen (as needed)	
Lab Signature/Initials	DJT

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-11-21
Receiving ID#	108112104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>100
pH (S.U.)	6-6.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	355.05
% Solids	3.45
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/12-2021
Receiving ID#	1081221 01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(D.J.)
Sampled by	BB

LAB INFORMATION	
Compatible? (RT# )	4
PCBS (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	210
pH (S.U.)	6.60
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	35.9ms
% Solids	2.41
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	(D.J.)

Receiving & Departure Approval Form

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Republic Industrial and Energy Solutions, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	05/12/2021
Receiving ID#	108122102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BS

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.0
Conductivity	367 $\mu$ S
% Solids	2.45
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

Receiving & Departure Approval Form



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RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-12-21
Receiving ID#	10812103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	D.H.

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	> 100
Flash Point (F)	> 100
pH (S.U.)	6.64
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes NO
Oil in Sample?	Yes NO
Temperature (F)	73.0
Conductivity	36.9ms
% Solids	3.00
Turbidity	Yes NO
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-22-21
Receiving ID#	108122104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	AM

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	114
pH (S.U.)	6.71
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	36.3 mS
% Solids	2.83
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

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REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/13-2021
Receiving ID#	I08132101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	VH
Sampled by	RS

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.68
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
% Solids	2.65
Turbidity	Yes No
Color	
TSS (%)	501
Radiation Screen (as needed)	
Lab Signature/Initials	JH

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REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/13-2021
Receiving ID#	IO8132102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H
Sampled by	BR

LAB INFORMATION	
Compatible? (RT# )	✓
PCBS (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214D
pH (S.U.)	6.67
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.0
Conductivity	38.1ms
% Solids	2.66
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-13-21
Receiving ID#	IO81321-03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H
Sampled by	TG

LAB INFORMATION	
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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	38.2 mS
% Solids	5.90
Turbidity	Yes No
Color	
TSS (%)	5.01
Radiation Screen (as needed)	
Lab Signature/Initials	JH

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-15-21
Receiving ID#	I081321254
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	> 140
pH (S.U.)	6.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	32.10ms
% Solids	2.94
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

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REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-14-21
Receiving ID#	108142101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.J.
Sampled by	RW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2100
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	385.5
% Solids	2.80
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.J.

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FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-14-21
Receiving ID#	108142102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.J.
Sampled by	AW

LAB INFORMATION	
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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	4000
% Solids	3.34
Turbidity	Yes No
Color	
TSS (%)	10.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.M.

Receiving & Departure Approval Form



FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	108162101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(Signature)
Sampled by	(Signature)

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	210
pH (S.U.)	6-6.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	40.6 <del>4.5</del>
% Solids	3.25
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	(Signature)

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	1081621-02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DJD
Sampled by	TG

55T-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	1.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.9
Conductivity	41.2ms
% Solids	4.91
Turbidity	Yes No
Color	
TSS (%)	0.25
Radiation Screen (as needed)	
Lab Signature/Initials	DJD

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	1081621-02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.T.
Sampled by	76

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	2140
pH (S.U.)	1.54
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.2
Conductivity	39.6
% Solids	3.87
Turbidity	Yes No
Color	
TSS (%)	78.1
Radiation Screen (as needed)	
Lab Signature/Initials	JD

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	6-16-21
Receiving ID#	I061621-03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(D)
Sampled by	RO

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	514
pH (S.U.)	6.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.4
Conductivity	39.75
% Solids	
Turbidity	Yes No
Color	
TSS (%)	LD.1
Radiation Screen (as needed)	
Lab Signature/Initials	

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	108162104 SST-1
Manifest #	Line
Land Ban Cert Included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	
Sampled by	BO

LAB INFORMATION	
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	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	2.54ms
% Solids	2.65
Turbidity	Yes No
Color	
TSS (%)	< 0.5
Radiation Screen (as needed)	
Lab Signature/Initials	SST

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	208162104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	NW

SST-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.37
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	29.805
% Solids	1.73
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	Z08162104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.J.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	240
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	41.2 mS
% Solids	3.51
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	108162105
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.W.

SS-7-1

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 100
pH (S.U.)	6.05
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Turbidity	Yes No
Color	
TSS (%)	LDI
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

93.5ms



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-16-21
Receiving ID#	108162105
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	G.T.
Sampled by	P.W.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	714
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	36.705
% Solids	344
Turbidity	Yes No
Color	
TSS (%)	101
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/17-2021
Receiving ID#	108172101-1
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(J7)
Sampled by	BB

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 190
pH (S.U.)	6.22
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	43.2 μS
% Solids	3.78
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	(J7)

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/17-2021
Receiving ID#	FO8172101-2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	DB
Sampled by	DB

LAB INFORMATION	
Compatible? (RT# )	Y
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 147
pH (S.U.)	6.69
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	36.6 us
% Solids	3.30
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	DB

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	05/17-2024
Receiving ID#	205172402-2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	BB

Well 1

205172402-2 I 05172102-1

LAB INFORMATION	
Compatible? (RT#)	✓
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
pH (S.U.)	6.73
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.6
Conductivity	351.25
% Solids	2.166
Turbidity	Yes No
Color	
TSS (%)	16.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-17-21
Receiving ID#	1021721033
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	<i>BR</i>
Sampled by	<i>BR</i>

well 2

LAB INFORMATION	
Compatible? (RT# )	1
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2290
pH (S.U.)	6.00
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.1
Conductivity	47.805
% Solids	3.79
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	<i>D.H.</i>

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8/17/2021
Receiving ID#	1081721-03
Manifest #	Line
Land Ban Cert included	Yes
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	BO

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	71.8
Conductivity	53.2ms
% Solids	4.59
Turbidity	Yes
Color	No
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/17/2021
Receiving ID#	1081721-03
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	B.D.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2190
pH (S.U.)	6.63
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	34.4ms
% Solids	2.39
Turbidity	Yes No
Color	
TSS (%)	12.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9.17.21
Receiving ID#	Z08172108
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
pH (S.U.)	6.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	35.1ms
% Solids	2.60
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.



RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-17-21
Receiving ID#	108172104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	D.H.

SST-1

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>14
pH (S.U.)	6.47
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.3
Conductivity	31.7ms
% Solids	4.79
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-17-21
Receiving ID#	108172104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	

SST-2

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	4.75
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	34.2 us
% Solids	2.55
Turbidity	Yes No
Color	
TSS (%)	(0.1)
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/18-2021
Receiving ID#	IR08182101-1
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	BB

LAB INFORMATION	
Compatible? (RT# )	✓
PCBs (ppm) (Oily Waste Only)?	✓
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.44
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	450.5
% Solids	3.88
Turbidity	Yes No
Color	
TSS (%)	< 5.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

WELL 1  
551 2

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/18-2021
Receiving ID#	IOS182101-2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	G.M.
Sampled by	BB

well 2  
sst 1

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.78
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.1
Conductivity	371.35
% Solids	2.91
Turbidity	Yes No
Color	
TSS (%)	< 0.1
Radiation Screen (as needed)	
Lab Signature/Initials	G.M.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	9.17.21
Receiving ID#	7091721CS
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H
Sampled by	AV

SS2-2

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	5.97
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	47.8ms
% Solids	4.96
Turbidity	Yes No
Color	
TSS (%)	2.01
Radiation Screen (as needed)	
Lab Signature/Initials	J.H

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/18/2021
Receiving ID#	5061821-02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	BO
Sampled by	5-11

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	> 140
pH (S.U.)	6.94
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.6
Conductivity	30.7ms
% Solids	2.23
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/18/2021
Receiving ID#	IOG182102-EST-2
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.J.
Sampled by	BO

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2192
pH (S.U.)	6.65
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.0
Conductivity	41.8ms
% Solids	3.33
Turbidity	Yes No
Color	
TSS (%)	201
Radiation Screen (as needed)	
Lab Signature/Initials	J.N.

Receiving & Departure Approval Form

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/14/2021
Receiving ID#	106182103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	O.H.
Sampled by	B.D.

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	>140
pH (S.U.)	5.21
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	42.2ms
% Solids	3.84
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.H.



FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08/16/2021
Receiving ID#	IO6152103 557-1
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	BO

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	44.7 mS
% Solids	4.24
Turbidity	Yes No
Color	
TSS (%)	50.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-19-21
Receiving ID#	10382101
Manifest #	19
Land Ban Cert included	Yes
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	S.H.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only?)	
TOC ppm (CC Waste Only?)	
Flash Point (F)	2140
pH (S.U.)	6.24
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes
Oil in Sample?	No
Temperature (F)	70.4
Conductivity	34.6ms
% Solids	3.54
Turbidity	Yes
Color	No
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-18-21
Receiving ID#	Z08182104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	(D#)
Sampled by	

CSF-1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2142
pH (S.U.)	6.03
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.4
Conductivity	41.7 mS
% Solids	3.36
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	(S#)

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-18-21
Receiving ID#	908182104
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.M.
Sampled by	

LAB INFORMATION	
Compatible? (RT# )	
PCBS (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	598
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.2
Conductivity	44.2
% Solids	3.34
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08-19-21
Receiving ID#	E081921-02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	(JH)
Sampled by	

SST 1

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	5.17
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	72.3
Conductivity	557ms
% Solids	4.47
Turbidity	Yes No
Color	
TSS (%)	(0.1)
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08-19-21
Receiving ID#	108192103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	D.H.

LAB INFORMATION	
Compatible? (RT#)	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	144
pH (S.U.)	5.40
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.8
Conductivity	44.7ms
% Solids	2.98
Turbidity	Yes No
Color	
TSS (%)	(6)
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	06/19/2021
Receiving ID#	IO81921014
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	BJ
Sampled by	BJ

LAB INFORMATION	
Compatible? (RT#)	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214D
pH (S.U.)	6.58
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.5
Conductivity	44.1
% Solids	4.33
Turbidity	Yes No
Color	
TSS (%)	70.1
Radiation Screen (as needed)	
Lab Signature/Initials	BJ

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	1-8-20-21
Receiving ID#	I08202102
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	210
pH (S.U.)	6.55
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.9
Conductivity	455.5
% Solids	3.70
Turbidity	Yes No
Color	
TSS (%)	70
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.



FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-20-21
Receiving ID#	TC8202103
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	D.H.
Sampled by	

LAB INFORMATION	
Compatible? (RT# )	X
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.53
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	77.3
Conductivity	447.5
% Solids	3.85
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	(S.S.)

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-21-21
Receiving ID#	IO&E 2101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	H.V.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	6.7
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	71.0
Conductivity	45.75
% Solids	23.6
Turbidity	Yes No
Color	
TSS (%)	
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-23-21
Receiving ID#	Z082321-01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.T.
Sampled by	GW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	214
pH (S.U.)	6.4
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	76.6
Conductivity	48.5
% Solids	4.70
Turbidity	Yes No
Color	
TSS (%)	6.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.T.

FINGERPRINT FORM

Republic Industrial and Energy Solutions, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	08-27-21
Receiving ID#	Z082721-01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time In	
Time out	
Received by	G.H.
Sampled by	G.H.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	> 140
pH (S.U.)	6.27
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	22.3ms
Conductivity	76.0
% Solids	1.39
Turbidity	Yes No
Color	
TSS (%)	40.1
Radiation Screen (as needed)	
Lab Signature/Initials	G.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-30-21
Receiving ID#	108302101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	DB

LAB INFORMATION	
Compatible? (RT# )	
PCBS (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	
pH (S.U.)	3.8
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.02
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.5
Conductivity	507ms
% Solids	2.78
Turbidity	Yes No
Color	
TSS (%)	LD.1
Radiation Screen (as needed)	
Lab Signature/Initials	D.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8.30.21
Receiving ID#	1083021 01
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	S.H.
Sampled by	AW

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	5140
pH (S.U.)	6.62
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.01
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	70.7
Conductivity	5.69ms
% Solids	0.73
Turbidity	Yes No
Color	
TSS (%)	7.01
Radiation Screen (as needed)	
Lab Signature/Initials	S.H.

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC

RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-3-21
Receiving ID#	708312101
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	J.H.
Sampled by	J.H.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	2140
pH (S.U.)	5.50
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.1
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	73.2
Conductivity	86.8
% Solids	17.00
Turbidity	Yes No
Color	
TSS (%)	20.1
Radiation Screen (as needed)	
Lab Signature/Initials	J.H.

Receiving & Departure Approval Form

FINGERPRINT FORM

REPUBLIC INDUSTRIAL AND ENERGY SOLUTIONS, LLC


RECEIVING & APPROVAL FORM

RECEIVING INFORMATION	
Date	8-31-21
Receiving ID#	1083121-02
Manifest #	Line
Land Ban Cert included	Yes No
EGT Approval #	
Generator	
Client	
Transporter	
Time in	
Time out	
Received by	D.H.
Sampled by	T.G.

LAB INFORMATION	
Compatible? (RT# )	
PCBs (ppm) (Oily Waste Only)?	
TOC ppm (CC Waste Only)?	
Flash Point (F)	>140
pH (S.U.)	6.89
Cyanides? (mg/L)	
Sulfides? (ppm)?	
Specific Gravity	1.03
Physical Description	
Stream Consistency	Yes No
Oil in Sample?	Yes No
Temperature (F)	78.5
Conductivity	419 $\mu$ S
% Solids	3.15
Turbidity	Yes No
Color	
TSS (%)	<0.1
Radiation Screen (as needed)	
Lab Signature/Initials	S.H.



## WASTE PROFILES

		<b>Republic Services</b> 18500 N. Allied Way, Phoenix, AZ 85054	
<b>SPECIAL WASTE DEPARTMENT DECISION</b>			
Waste Profile # 64402131852		Expiration Date 6/25/2022	
<b>I. Decision Request:</b>			
<input checked="" type="checkbox"/> Initial		<input type="checkbox"/> Recertification	
<input type="checkbox"/> Change		<input type="checkbox"/> Disposal Facility: 6440 - Detroit Industrial Well	
Generator Name: CHEMTOOL INC. Generator Site Address: 1165 PRAIRIE HILL RD City: ROCKTON County: <input type="text"/> State: IL Zip: <input type="text"/>			
Name of Waste: FIREWATER/ STORMWATER Estimated Annual Volume: 750,000 Gallons			

**II. Special Waste Department Decision:**  Approved  Rejected

Management Method(s):  Landfill  Solidification  Bioremediation  Deep Well  Transfer Facility

Problematic Special Waste according to Republic?  Yes  No

If yes, which one?

Approved by Special Waste Review Committee?  Yes  No  Not Applicable

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.

**III. Facility Decision: Precautions, Conditions or Limitations on Approval**

**Special Waste Analyst Signature:**  **Date:** 8/20/2021

**Name (Printed):** Stephen Brown

**General Manager or Designer:**  **Date:** 8/20/2021

**Name (Printed):** John Rossi

Approved  Rejected

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

**Republic Industrial and Energy Solutions, LLC**  
 28470 Citrin Dr, Romulus, MI 48174, Telephone 734 946 1000, Fax 734 946 1002  
 Profile # 64402131852

**GENERATOR INFORMATION**

Name: **CHEMTOOL INC.**  
 Facility Address: **1165 PRAIRIE HILL RD**  
 City: **ROCKTON**  
 State: **IL** Zip Code: **61072**  
 Contact: **RANDY STEPHANI** Title: **EHS MNGR** Phone: (920) **540-6175** Fax: ( )  
 USA EPA ID # \_\_\_\_\_

**BILLING INFORMATION**

Company Name: **ALLSOURCE ENVIRONMENTAL**  
 Address: **2777 FINLEY RD / SUITE #15**  
 City: **DOWNERS GROVE** State: **IL** Zip Code: **60515**  
 Attention: **NICK KOVANDA** Title: **MANAGER** Phone: (615) **391-0094** Fax: ( )  
 Name of Waste/Common Chemical Name: **FIREWATER / STORMWATER**  
 Process Generating Waste (Please be specific, incomplete information may delay the approval process):

**WASTE INFORMATION**

The fire that occurred at the Chemtool Inc. plant on June 14, 2021, located at 1165 Prairie Hill Rd, Rockton, Illinois, generated firewater from the emergency response activities that followed to extinguish the fire. As the fire generated, it was collected by a vacuum truck and placed into a frac tank pending analysis prior to disposal. Stormwater has also been generated throughout the cleanup process and collected similarly.  
 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: **IL014**  
**PHYSICAL CHARACTERISTICS OF WASTE**

Color:	<input type="checkbox"/> White/Clear <input type="checkbox"/> 0-1 % <input type="checkbox"/> 3-5 % <input type="checkbox"/> 1-3 % <input type="checkbox"/> > 5%	Layers:	<input type="checkbox"/> Multi layered <input type="checkbox"/> Bi-Layered <input checked="" type="checkbox"/> Single Phase	Specific Gravity:	<input type="checkbox"/> < 0.8 <input checked="" type="checkbox"/> 1.0-1.2 <input type="checkbox"/> 0.8-1.0 <input type="checkbox"/> 1.3-1.4 <input type="checkbox"/> Exact / Other
Suspended Solids	<input type="checkbox"/> < 2 <input type="checkbox"/> 2-4 <input type="checkbox"/> 4-6 <input checked="" type="checkbox"/> 6-8 <input type="checkbox"/> 8-10 <input type="checkbox"/> 10-12.5 <input type="checkbox"/> > 12.5	pH:	<input type="checkbox"/> < 7.3 <input type="checkbox"/> 7.3-10.0 <input type="checkbox"/> 10.1-14.0 <input type="checkbox"/> 14.1-20.0 <input type="checkbox"/> > 20.0 <input type="checkbox"/> None <input type="checkbox"/> Open Cup <input type="checkbox"/> Closed Cup	VOC Concentration -	<input type="checkbox"/> < 500 <input type="checkbox"/> PPM (MUST BE COMPLETED)

**TOTAL COMPOSITION OF WASTE - MUST BE EQUAL TO OR GREATER THAN 100% (LIST EACH CONSTITUENT <= 0.1%)**  
 CONSTITUENT MAX MIN  
 WASTEWATER > 90 < 99  
 MISCELLANEOUS SMALL DEBRIS > 1 < 5  
 GREASE COMPONENTS & OIL > 1 < 5  
 CONSTITUENT MAX MIN

