Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2018–December 31, 2018

SC FOUR RIVERS NUCLEAR PARTNERSHIP, LLC

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Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2018–December 31, 2018

Date Issued—June 2019

U.S. DEPARTMENT OF ENERGY Office of Environmental Management

Prepared by FOUR RIVERS NUCLEAR PARTNERSHIP, LLC, Managing the Deactivation and Remediation Project at the Paducah Gaseous Diffusion Plant under Contract No. DE-EM0004895

20190626 PCB Annual Document 2018 FINAL TS

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ACRONYMS

Certificate of Disposal
Code of Federal Regulations
calendar year
Diversified Scientific Services, LLC
U.S. Environmental Protection Agency
Integrated Waste Tracking System
Paducah Gaseous Diffusion Plant
treatment, storage, and disposal facility
Uniform Hazardous Waste Manifest

EXECUTIVE SUMMARY

This Annual Document of Polychlorinated Biphenyls (PCBs) at the Paducah Gaseous Diffusion Plant (PGDP), Paducah, Kentucky, for January 1, 2018–December 31, 2018, (Annual Document) was prepared to meet applicable requirements of the Toxic Substances Control Act, as codified in the *Code of Federal Regulations* at 40 *CFR* Part 761, Subpart J. The mailing address for the U.S. Department of Energy Paducah Gaseous Diffusion Plant is 5501 Hobbs Road, Kevil, Kentucky 42053. The physical address is 5600 Hobbs Road, Kevil, Kentucky 42053. The U.S. Environmental Protection Agency (EPA) Identification Number is KY8-890-008-982. The Annual Document provides records and information required by 40 *CFR* § 761.180(a), Records and Monitoring.

The Annual Records required by 40 *CFR* § 761.180(a)(1) are located in Sections 1–4 and address the signed manifests, certificates of disposal, waste storage area inspections, and spill cleanup activities, respectively. The information for the annual document log, which is required by 40 *CFR* § 761.180(a)(2), is located in Section 1 and Sections 5–7. The annual document log includes the name, address, and EPA identification number of the facility, unique manifest number of every PCB waste manifest generated by the facility during the calendar year (CY) (Section 1), PCB electrical equipment remaining in service at the end of the CY (Section 5), information on PCB waste shipped off-site and stored at the facility (Section 6), and PCB waste shipment receipt log (Section 7). The Appendices contain the PCB waste manifests, PCB waste certificates of disposal, PCB waste storage area inspection records, and PCB waste inventory tables.

The PCB items in service and PCB activities at the PGDP for CY 2018 are summarized below:

PCB transformers in service as of 12/31/2018:	0
Total PCBs in kg in PCB transformers as of 12/31/2018:	0
PCB large capacitors in service as of 12/31/2018:	0
PCB waste in kg ¹ generated in CY 2018:	12,956
PCB waste in kg^2 shipped off-site for treatment/disposal in CY 2018:	12,341
PCB waste in kg ³ remaining in storage for disposal as of 12/31/2018:	36,653

Throughout CY 2018, PGDP generated 13 manifested shipments of PCB wastes to off-site treatment/disposal facilities. Fourteen Certificates of Disposal were received in CY 2018 for PCB wastes disposed.

Due to the nature and history of operations at PGDP, all PCB waste is suspected of being radiologically contaminated, and all PCB waste is considered potentially radiologically contaminated until it is certified otherwise. The U.S. Department of Energy has ongoing programs to characterize the radiological contamination of waste so it can be disposed of appropriately. In accordance with 40 *CFR* § 761.65, PCB wastes shall not be stored for more than one year. Radiologically contaminated PCB wastes may be stored beyond the one-year limit as outlined in 40 *CFR* § 761.65(a)(1). Efforts to secure disposal of radioactive PCB waste items exceeding the one-year storage limitation are discussed in the *Annual Compliance Agreement Report for the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, January 1 through December 31, 2018*, FRNP-RPT-0091, dated June 2019 in accordance with the *Modification to the*

¹ The weights in kg are taken from the Integrated Waste Tracking System (IWTS), Requests for Disposal, or generator supplied information and may be estimated.

² The weights in kg were taken from the Uniform Hazardous Waste Manifests, as shown in Table 1.1, which differs from IWTS weights shown in Table D.4.

³ See note 1.

February 20, 1992, Compliance Agreement Between the United States Department of Energy and the United States Environmental Protection Agency, Washington, D.C., Toxic Substances Control Act, approved May 30, 2017.

1. PCB WASTE MANIFESTS

Uniform Hazardous Waste Manifests (UHWMs) of polychlorinated biphenyl (PCB) wastes shipped by the facility during the calendar year (CY) are annual records required by 40 *CFR* § 761.180(a)(1)(i). This section of the Annual Document contains the signed manifests of PCB wastes shipped off-site for disposal during CY 2018.

Thirteen manifests with 68 containers of solid and liquid PCB wastes were shipped for disposal. Copies of the UHWMs are located in Appendix A. PCB wastes were shipped to the following disposal sites:

- Energy*Solutions* disposal facility in Clive, UT;
- Diversified Scientific Services, LLC, (DSSI) Perma-Fix facility in Kingston, TN; and
- Clean Harbors Deer Park, LLC facility in LaPorte, TX.

Table 1.1 summarizes the 2018 manifested PCB waste shipments. The table includes the manifest number, the shipment destination, the number of PCB containers/items on the manifest, and the net weight in kilograms of PCBs containers/items shipped. The weights listed in this table were obtained from the UHWMs. The weights of wastes listed on the manifests were calculated based on the weight of the PCB-contaminated waste contents of the shipping container(s) or the estimated volume of the shipment. The weight on the manifest may differ from the weight recorded in the Integrated Waste Tracking System and the PCB and Additional Information attachment to the UHWM. When completing manifest documentation, the Deactivation and Remediation Contractor works with various treatment, storage, and disposal facilities (TSDFs) to facilitate acceptance. On occasion, the manifested weights are adjusted due to factors such as differences in the receiving facility's scale or because the TSDF requires the gross weight to be manifested instead of the net weight; however, the waste database is kept intact to reflect the operating weights while the waste was managed on-site.

UHWM Number	Date Shipped	Shipment Destination	Number of PCB Containers	Weight from UHWM (kg) ²
006841910JJK	2/20/2018	Energy <i>Solutions,</i> Clive, UT	12	543
006841911JJK	2/20/2018	Energy <i>Solutions,</i> Clive, UT	4	265
006841920JJK	5/14/2018	DSSI, Inc., Kingston, TN	12	2,130
006841926JJK	5/31/2018	Energy <i>Solutions,</i> Clive, UT	1	3
006841935JJK	5/14/2018 ¹	Energy <i>Solutions,</i> Clive, UT	3	484
006841936JJK	5/14/2018 ¹	Energy <i>Solutions</i> , Clive, UT	11	1,895
006841943JJK	7/31/2018	Energy <i>Solutions,</i> Clive, UT	1	2,858
006841953JJK	8/23/2018	DSSI, Inc., Kingston, TN	2	236
011797542FLE	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	16	3,044
019694504JJK	9/10/2018	Energy <i>Solutions,</i> Clive, UT	1	457
019694515JJK	9/20/2018	Energy <i>Solutions,</i> Clive, UT	1	157
019694524 JJK	9/26/2018	Energy <i>Solutions,</i> Clive, UT	3	78
019694525JJK	9/26/2018	Energy <i>Solutions,</i> Clive, UT	1	191
r	Fotal UHWM:	13	68	12.341

Table 1.1 PCB Waste Manifests Summary

¹ Shipment was remanifested from 006841925JJK on 6/28/2018 due to reprofiling of waste. ² The weights in kg were taken from the UHWMs which differs from IWTS weights shown in Table D.4.

2. PCB WASTE CERTIFICATES OF DISPOSAL

Certificates of Disposal (CDs) that have been received by the facility during the CY for PCB wastes disposed of are annual records required by 40 *CFR* § 761.180(a)(1)(ii). Fourteen CDs were received in 2018 from the following facilities:

- Energy*Solutions* disposal facility in Clive, Utah;
- Clean Harbors Deer Park, LLC facility in LaPorte, TX;
- DSSI Perma-Fix facility in Kingston, Tennessee; and
- Materials and Energy Corporation facility in Oak Ridge, TN.

Table 2.1 lists the UHWM number, disposal facility, date disposed of, number of PCB containers/items disposed of, and weight in kilograms of PCBs items shipped. The weights listed in the table were obtained from the UHWMs.

The CDs are presented in Appendix B. If the CD received in 2018 was for waste shipped in 2018 (all except UHWM 006841822JJK and 006841867JJK), the manifests are shown in Table 1.1 and Appendix A.

Removed from UHWM Date Service Date Shipped Disposer Containers Disposed of from UHWM (kg) ⁴ Date Disposed of Date CD Received 006841822JJK 9/15/2016 10/27/2016 DSSI Perma-Fix, Kingston, TN 5 880 12/7/2017 1/3/2018 006841867JJK 3/27/2015 5/18/2017 ¹ EnergySolutions , Clive, UT 1 1,787 12/7/2017 4/4/2018 006841910JJK 6/3/2015 2/20/2018 EnergySolutions , Clive, UT 12 543 9/28/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions , Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions , Clive, UT 3 484 12/20/2018 12/31/2018
UHWMServiceShippedDisposerDisposed of(kg) ⁴ ofReceived006841822JJK9/15/201610/27/2016DSSI Perma-Fix, Kingston, TN588012/7/20171/3/2018006841867JJK3/27/20155/18/2017 ¹ EnergySolutions, Clive, UT11,78712/7/20174/4/2018006841910JJK6/3/20152/20/2018EnergySolutions, Clive, UT125439/28/201812/6/2018006841911JJK3/11/20162/20/2018EnergySolutions, Clive, UT42656/29/201812/6/2018006841920JJK4/25/20175/14/2018DSSI Perma-Fix, Kingston, TN122,13011/13/201811/20/2018006841926JJK6/6/20175/31/2018EnergySolutions, Clive, UT1312/20/201812/31/2018006841935JJK5/3/20175/14/2018 ² EnergySolutions, Clive, UT348412/20/201812/31/2018
006841822JJK 9/15/2016 10/27/2016 DSSI Perma-Fix, Kingston, TN 5 880 12/7/2017 1/3/2018 006841867JJK 3/27/2015 5/18/2017 ¹ EnergySolutions, Clive, UT 1 1,787 12/7/2017 4/4/2018 006841910JJK 6/3/2015 2/20/2018 EnergySolutions, Clive, UT 12 543 9/28/2018 12/6/2018 006841911JJK 3/11/2016 2/20/2018 EnergySolutions, Clive, UT 4 265 6/29/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841867JJK 3/27/2015 5/18/2017 ¹ EnergySolutions, Clive, UT 1 1,787 12/7/2017 4/4/2018 006841910JJK 6/3/2015 2/20/2018 EnergySolutions, Clive, UT 12 543 9/28/2018 12/6/2018 006841911JJK 3/11/2016 2/20/2018 EnergySolutions, Clive, UT 4 265 6/29/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841910JJK 6/3/2015 2/20/2018 EnergySolutions, Clive, UT 12 543 9/28/2018 12/6/2018 006841911JJK 3/11/2016 2/20/2018 EnergySolutions, Clive, UT 4 265 6/29/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841911JJK 3/11/2016 2/20/2018 EnergySolutions, Clive, UT 4 265 6/29/2018 12/6/2018 006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841920JJK 4/25/2017 5/14/2018 DSSI Perma-Fix, Kingston, TN 12 2,130 11/13/2018 11/20/2018 006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841926JJK 6/6/2017 5/31/2018 EnergySolutions, Clive, UT 1 3 12/20/2018 12/31/2018 006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841935JJK 5/3/2017 5/14/2018 ² EnergySolutions, Clive, UT 3 484 12/20/2018 12/31/2018
006841936JJK 4/25/2017 5/14/2018 ² EnergySolutions, Clive, UT 11 1,895 6/18/2018 7/13/2018
006841943JJK 6/25/2018 7/31/2018 EnergySolutions, Clive, UT 1 2,858 10/5/2018 10/31/2018
Materials and Energy Corporation, Oak
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Materials and Energy Corporation, Oak
006843002JJK 11/22/2017 10/12/2017 Ridge, TN 1 1,065 1/31/2018 7/6/2018
Materials and Energy Corporation, Oak $11/20/2017$ $10/12/2017$ $Diam TN$
000843002JJK 11/22/2017 10/12/2017 Ridge, 1N 5 5,150 1/24/2018 7/0/2018
0068430051JK 11/22/2017 10/12/2017 Ridge TN 1 1.060 1/24/2018 7/6/2018
Materials and Energy Corporation, Oak
006843005JJK 11/22/2017 10/12/2017 Ridge, TN 2 2,015 1/31/2018 7/6/2018
Materials and Energy Corporation, Oak
006843006JJK 11/22/2017 10/12/2017 Ridge, TN 1 638 1/31/2018 7/6/2018
Materials and Energy Corporation, Oak
006843006JJK 11/22/2017 10/12/2017 Ridge, TN 2 2,020 3/15/2018 7/6/2018
Materials and Energy Corporation, Oak
00684300/JJK 11/22/2017 10/12/2017 Ridge, IN 1 1,055 1/31/2018 6/22/2018
$\frac{1}{1/22/2017} = \frac{1}{1/22/2017} = \frac{1}{1/22} = \frac{1}{1$
Materials and Energy Corporation. Oak
006843007JJK 11/22/2017 10/12/2017 Ridge, TN 1 1,063 1/31/2018 7/6/2018
011797542FLE 8/8/2018 9/7/2018 Clean Harbors Deer Park LaPorte. TX 16 3 044 10/25/2018 11/8/2018
01969450411K 9/12/2017 9/10/2018 EnergySolutions Clive IIT 1 457 9/17/2018 10/23/2018
01969451511K 10/4/2017 9/20/2018 EnergySolutions, Clive, 01 1 157 10/2018 10/21/2018
Totale 95 20.725

Table 2.1. PCB Waste	Certificates of Di	sposal Summary
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¹ Shipment was made without required UHWM. UHWM completed on 5/23/2017.

² Shipment was remanifested from 006841925JJK on 6/28/2018 due to reprofiling of waste material.

³ Manifests were generated on 1/10/2018 resulting from non-U.S. Department of Transportation- regulated wastes that

were shipped on 10/12/2017. Upon testing at the TSDF, the TSDF determined the wast was PCB on 11/22/2017.

⁴ The weights in kg were taken from the UHWMs, as shown in Table 1.1, which differs from IWTS weights shown in Table 6.4.

3. PCB WASTE STORAGE AREA INSPECTION RECORDS

Records of inspections performed in accordance with 40 *CFR* § 761.65(c)(5) are annual records required by 40 *CFR* § 761.180(a)(1)(iii).

Table 3.1 lists the PCB waste storage areas (i.e., a building or an area within a building) established and/or operated for PCB wastes at Paducah Gaseous Diffusion Plant (PGDP) during CY 2018. Appendix C contains information from the PCB Waste Inspection database and lists the dates of inspection and a "Yes/No" check to indicate if leaks/spills were found.

Building	Waste Area Designator
C-331	G-331-PCB-01 ^a
C-333	G-333-PCB-01 ^{a,b}
C-335	G-335-04 ^a
C-337	G-337-02 ^a
C-337	G-337-03 ^a
C-337	G-337-05 ^a
C-337	G-337-PCB-02 ^a
C-733	C-733
C-746-Q	C-746-Q
C-752-A	C-752-A
С-753-А	C-753-A
C-757	G-757-03 ^a

Table 3.1. PCB Waste Storage Areas at PGDP

^a Waste Area Designators that begin with a "G" indicate a generator staging area, which is a temporary storage area for non-Resource Conservation and Recovery Act, PCB, and/or low-level (radioactive) waste.

^b G-333-PCB-01 was closed on February 21, 2018.

4. PCB SPILL CLEANUP RECORDS

Records of cleanup and disposal of any spilled or leaked materials from PCB Items in storage in accordance with 40 *CFR* § 761.65(c)(5) are annual records required by 40 *CFR* § 761.180(a)(1)(iii). Because no spills occurred in PCB storage areas during CY 2018, there are no records.

5. PCB ELECTRICAL EQUIPMENT IN SERVICE

No PCB (\geq 500 ppm) transformers or PCB (\geq 500 ppm) large capacitors were in service at PGDP as of December 31, 2018, which is summarized in Table 5.1. In addition, no PCB transformers or PCB large capacitors were removed from service in CY 2018. Sixty-seven PCB transformers were removed from service, drained, and flushed during 2015. They were stored in place in C-337 during CY 2018. Residual flushate was removed over time as it drained through and collected in the units.

There are no CY 2018 PCB transformer maintenance records because there was no maintenance performed on these transformers, and the transformers currently are not in service.

Туре	Number in Service	Volume (gal)	PCB (kg)
PCB transformers*	0	0	0
PCB large high-voltage capacitors	0	0	0

Table 5.1. PCB Electrical Equipment in Serviceas of December 31, 2018

*There were 67 PCB transformers that were removed from service, drained, flushed, and stored in place in 2015 pending demolition to remove, because they are locked in place by facility structure members placed after the transformers.

6. PCB WASTE ACTIVITY

PCB waste activities performed by the facility during the CY 2018 are annual records required by 40 *CFR* § 761.180 (a)(2)(iii). The PCB Waste Activity Summary for CY 2018 is shown in Table 6.1. Detail tables supporting the summary table are located in Appendix D. Throughout the tables, the PCB Date, often referred to as PCB DTS (date to storage), reflects the date PCB waste was first added to a container and is the origin date of the container.

The PCB Waste Inventory for December 31, 2017, has been adjusted from the "PCB Waste Inventory as of December 31, 2017," reported as Table 10.9 of the *Annual Document of Polychlorinated Biphenyls at the Paducah Gaseous Diffusion Plant, Paducah, Kentucky, for January 1, 2017–December 31, 2017*, FRNP-RPT-0039. The net changes to the January 1, 2018, beginning inventory include adjustments because of in-process collection containers at the time of 2017 inventory, information received after the 2017 report submittal, and/or weight corrections. The detailed listing of the December 31, 2017, corrections and adjustments is provided in Appendix D, Table D.1.

The detailed listing of PCB waste generated during CY 2018 table is provided in Appendix D, Table D.2.

The detailed listing of the adjustments to the CY 2018 PCB inventory is provided in Appendix D, Table D.3.

The detailed listing of the PCB waste shipped in CY 2018 is provided in Appendix D, Table D.4.

The detailed listing of the PCB waste inventory as of December 31, 2018, is provided in Appendix D, Table D.5.

There was no PCB waste received from off-site facilities in CY 2018.

Table 6.1. PCB Waste Activity Summary for CY 2018

PCB Waste Items In Inventory	12/31/2017	7 Inventory	Corre Adjustmen Inv	ctions and ts to Beginning rentory ^a	1/1/2018	Inventory Generat		Generated		ons to 2018 entory ^b	Shipped for Disposal ^g		12/31/2018 Inventory	
	pc	kg	pc	kg	pc	kg	pc	kg			pc	kg	pc	kg
ARTICLES	2	32,795	0	0	2	32,795	0	0	0	0	0	0	2	32,795
PCB Transformers (drained)	2	32,795	0	0	2	32,795	0	0	0	0	0	0	2	32,795
ARTICLE CONTAINERS ^c	10	3,764	0	91	10	3,855	5	2,714	0	0	10	3,855	5	2,714
Large Capacitors	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Light Ballasts	9	2,946	0	91	9	3,036	2	272	0	0	9	3,036	2	272
Misc. Equip. (motors, pumps, etc.)	1	818	0	0	1	818	3	2,442	0	0	1	818	3	2,442
CONTAINERS	39	4,087	0	278	39	4,365	34	10,241	-6	-2,992	58	10,471	9	1,143
Liquids ^d	15	2,699	1	262	16	2,962	25	6,554	-5	-2,978	31	5,974	5	564
Solids	24	1,388	-1	15	23	1,403	9	3,687	-1	-14	27	4,496	4	579
BULK PCB REMEDIATION WASTE SOLIDS < 49 MG/Kg ^e	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ^f	51	40,645	0	369	51	41,014	39	12,956	-6	-2,992	68	14,325	16	36,653

pc = *piece count; kg* = *kilogram (rounded to the nearest whole number for the summaries)*

^a The Corrections and Adjustments to Beginning Inventory column includes adjustments because of in-process collection containers at time of 2017 inventory, information received after the 2017 report submittal, characterization waste category adjustments, and/or weight corrections. Weights reported in this summary include the weight of the container (drum/box), except for tanks/tankers.

^b The Adjustments to 2018 Inventory column includes adjustments due to repackaging of wastes or because of in-process collection containers during time of 2018 inventory. Weights reported in this summary

include the weight of the container (drum/box), except for tanks/tankers.

^c Article Containers are drums or boxes of PCB transformers, PCB large capacitors, electrical equipment, PCB light ballasts, or PCB small capacitors.

^d Portable (mobile) tanks and totes are counted as Containers.

^e PCB Remediation Waste Solids disposed at the onsite C-746-U Landfill.

^fDue to rounding, some of the weight totals may vary by 1 kg.

^g The weights in kg were taken from IWTS, which differs from the weights taken from Uniform Hazardous Waste Manifests, as shown in Table 1.1.

7. PCB WASTE SHIPMENT RECEIPT LOG

A PCB waste shipment receipt log is required by 40 *CFR* § 761.180(a)(2)(viii). The log is included as Table 7.1. The table is an excerpt from a data file, which includes a record of phone calls or other agreed method to confirm receipt of PCB waste shipments. Information in the log that is not required for this report has been omitted from Table 7.1.

Table 7.1. CY 2018 PCB Waste Shipment Receipt Log

	Actual	Shinmont			Date Manifact			
Shipment ID	Ship Date	Destination	UHWM #	Comments/Notes	Received	Comments for Manifest Inquiries and Requests	TSCA	Confirmation E-mail Received from TSDF
0750 04 0001	2/20/2019	EnergySolutions,	006941010111	(12) Dreams of DCD (LLW)	2/20/2010		TECA (T)	Received e-mail on 2-28-2018 from J. Gardner
9750-04-0001	2/20/2018	Clive, UI	006841910JJK	(12) Drums of PCB/LLW	2/28/2018		ISCA(I)	that snipment was received on 2-23-2018.
		Energy Solutions						Received e-mail on 2-28-2018 from L Gardner
9750-05-0001	2/20/2018	Clive UT	0068419111IK	(4) Drums of PCB/LLW	2/28/2018		т	that shipment was received on 2-23-2018
7150 05 0001	2,20,2010	01110, 01	0000119110011		2,20,2010	On 6-28-2018 Shipment 7340-08-0002 replaces original	-	
		EnergySolutions,				shipment 7340-08-0001, UHWM 006841925JJK minus		
7340-08-0002	6/28/2018	Clive, UT	006841936JJK	(1) ST-90 and (10) Drums of PCB/LLW	6/29/2018	three drums.	Т	
						On 6-28-2018 Shipment 9750-04-0002 replaces original		
		EnergySolutions,		(3) Drums of PCB/LLW (PCB Leaking		shipment 7340-08-0001, UHWM 006841925JJK for the		Received confirmation e-mail from Tom
9750-04-0002	6/28/2018	Clive, UT	006841935JJK	Ballasts)	6/19/2018	three drums.	Т	Wright on 5-18-2018.
								Received e-mail from S.J. Snipes on
		DSSI, Inc.,					_	5-14-2018 that shipment was received on
DSSI-18-059	5/14/2018	Kingston, TN	006841920JJK	(12) Drums of PCB Waste	5/29/2018		T	5-14-2018.
0750 02 0002	5/21/2010	EnergySolutions,	00004100000		C/0/2010		RCRA/ISCA	Received confirmation e-mail from Tom
9750-03-0002	5/31/2018	Clive, UI	006841926JJK	(1) Drum of MLLW/ISCA (Sample Returns)	6/8/2018		(R1)	Wright on 6-4-2018.
7240 08 0002	7/21/2019	Clive UT	006841042111	(1) PCP Oil Transport Tople	0/7/2010		т	Per Regina Pea, a verbal confirmation was
7340-08-0003	//51/2018	Clive, UI	000641945JJK	(1) FCB OII Trailsport Talk	0/7/2010	Received signed manifest on 8-30-2018 however	1	obtained for arrival on 8-2-2018.
				(18) Drums of RCRA Waste (Used Oil), (2)		management codes were not included due to further		
		DSSI, Inc.,		Drums of TSCA Waste (Used Oil) and (1)		sampling analysis being conducted. Received UHWM		Received confirmation e-mail from Tibby
DSSI-18-104	8/23/2018	Kingston, TN	006841953JJK	Drum of Non-DOT Regulated Waste (Used Oil)	8/30/2018	with codes on 10-10-2018.	RT	Snipes for delivery on 8-24-2018.
		6 1						Confirmation of arrival was requested on
								9-11-2018. Per e-mail from Vivian Barche
								dated 9-17-2018, that as of 9-15-2018 shipment
								has not reached its final destination and a
								confirmation would be sent when it does.
								Received e-mail from Vivian Barche with
		Clean Harbors Deer		(16) Drums of RCRA/TSCA Waste and (1)				signed manifest
011797542FLE	9/7/2018	Park, LaPorte, TX	011797542FLE	Drum of Non Regulated DOT Waste	9/21/2018		RT	dated 9-20-2018.
0750 01 0001	0/10/2010	EnergySolutions,	010/04/04/11/	(1) S1-90 of ISCA/MLLW with ACM	0/10/2010		DT	Confirmation from Albert Evans of delivery on
9750-01-0001	9/10/2018	Clive, UI	019694504JJK	(Pothead and PLC Cable)	9/18/2018		KI	9-14-2018. Per an e-mail from I aChelle Telfair, she spoke
								to Tom Wright via phone on
		EnergySolutions						9-24-2018 and he confirmed they received the
7340-08-0004	9/20/2018	Clive. UT	019694515JIK	(1) Drum of TSCA/LLW	9/28/2018		т	shipment.
		EnergySolutions,	22707 101035IX				-	Per LaChelle Telfair, Delivery confirmation on
9750-05-0002	9/26/2018	Clive, UT	019694524JJK	(3) Drums of TSCA/LLW-Spill Clean Up	10/4/2018		Т	9-28-2018.
		EnergySolutions,		(1) Drum of TSCA/LLW-Vent Duct Oil and				Per LaChelle Telfair, delivery confirmation on
9750-04-0003	9/26/2018	Clive, UT	019694525JJK	Water	10/4/2018		Т	9-28-2018.

APPENDIX A

PCB WASTE MANIFESTS

· · · · · · · · · · · · · · · · · · ·		1 - 4	_							
sase print or type. (Form designed for use on elite (12-pitch) typewriter.)	mergency Response Ph	none 14. Manife	Form st Tracking Nu	Approved. ON mber	B No. 2050					
WASTE MANIFEST KY 889000882 2	1-270-441-6	211 00	684	1910	JJK					
5. Gen # 80% NTW EPS NOACES Partnership. LLC. (FRNP) on behalf of Gene	appendenter		partment	of Energy						
the U.S. Department of Energy RP12118	Faducah Gas	eous Diffusion Pl	ant,							
Generator's Phone:										
6. Transporter 1 Company Name RSB LOGISTICS Inc.	U.S. EPA II	D Number M	AR00001	2005						
7. Transporter 2 Company Name	U.S. EPAIL) Number								
8. Designated Facility Name and Site Address Disposal Site-Treatment Facility		U.S. EPA II	Number							
US I-30 Exit 49, Clive, UT 84029										
1-435-884-0155		I	U	TD98259	8888					
Facility's Phone:	10 Containers		40.11-11		1000					
9a. 9b. 0.5. DOT Description (including Proper Shipping Raine, nazad Class, ib Runder, HM and Packing Group (if any))	No.	Type Quantity	Wt./Vol.	13. Wast	e Codes					
UN3077, Environmentally hazardous substances, solid, n.o.s.										
RQ (PCB), 9, PG III	12	DM 543	K							
² NECEIVEN										
3			++							
FEB 2 8 2018										
4.										
BY. A. H.			-							
Y .										
14. Special Hakkding Wesh Celoritation Standard History Control and Control an	n Start Date: N	/A I	PCB Start	Date: 0	8/03/15					
ERG # 171 In the event of an RQ Release, call 1-600-424-88	02	lf undel	iverable,	return to	general					
See PCB Attachment for Additional Info	ep 1/2/18	Shipme	ent ID: 97	50-04-00	01					
15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consionment are fully	and accurately describ	ed above by the proper s	hipping name, a	and are classified	packaged					
marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable in Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgme Logific that have a content of the content is defined to the terms of the attached EPA Acknowledgme Logific that have a content of the content is defined to the terms of the attached EPA Acknowledgme the strict function of the content of the content of the terms of the attached EPA Acknowledgme the strict function of the content of the content of the terms of the attached EPA Acknowledgme the strict function of the content of the terms of the attached EPA Acknowledgme the strict function of the terms of terms	ternational and national nt of Consent.	governmental regulations	s. If export shipn	nent and I am the	Primary					
Generator's/Offeror's Printed/Typed Name Signature		anuty generatory is use.		Month	Day Yo					
Kening Pear on behalf of DOE PO 1/2/18 1 16	gina Pi	en la		02	2011					
16. International Shipments Export from U.S.	Port of entry/ex	kit:		-aud						
Transporter signature (for exports only):	Date leaving U	.S.:								
17. Transporter Acknowledgment of Receipt of Materials										
Transporter 1 Printed/Typed Name Signature	· 1 1. De	2		Month	Day Ye					
Transnader 2 Printed/Turned Name	w surg z	Vail		Month	LUIV					
				1 1						
19a Discrepancy										
Quantity Type ,	Residue	L] Partial Rej	ection	L] Fu	I Rejection					
A CONTRACTOR OF	anifest Reference Num	ber:								
18b. Alternate Facility (or Generator)		U.S. EPA ID N	lumber							
,		(
Facility's Phone:										
18c. Signature of Alternate Facility (or Generator)				Month	Day Ye					
19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and rec	cycling systems)			6-2-1-1						
1/120		4.								
HIDA	nt as noted in from 19a									
Printed/Typed Name Signature	prod noted at item 10a			Month	Day Yea					
Thromaple bright	1)			10212	17/18					
Form 8700-22 (Rev 3-05) Previous editions are obsolete	NATED PADIC	TURA NEORM	BERLEY IN	10010	2 10					

Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DOE) are co-generators pursuant to a Co-Generator agreement dated September 13, 2017. Under this agreement, FRNP is responsible for performing all Resource Conservation and Recovery Act (RCRA) generator activities on behalf of both FRNP and DDE for all activities under the scope of FRNP's Contract DE-EM0004895, including, but not limited to, characterizing waste, manifesting waste to off-site facilities, packaging and labeling waste for transport, and storing and managing waste, in accordance with RCRA requirements. Transportation hereunder is for DDE and the actual total transportation charges paid are to be reimbursed by the Government pursuant to Contract DE-EM0004895.

PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841910 JJK

Shipment ID Number: 9750-04-0001

Shipment Date: 2/20/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	. Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net Wt (Ib)	Net Wt (Kg)
9b.1	119863	119863-01	PAD16C30778	PCB CONTAMINATED METAL	06/03/15	7.4	341	155	285	129
9b.1	119845	119845-59	PAD16C31103	PCB ABSORBENTS	04/22/16	7.4	78	35	22	10
9b.1	119845	119845-60	PAD16C31104	PCB ABSORBENTS	10/03/16	7.4	95	43	39	18
9b.1	119874	119874-05	PAD17C36201	PCB ABSORBENTS	10/06/15	7.4	249	113	193	88
9b.1	119874	119874-06	PAD17C35996	PCB ABSORBENTS	09/17/15	7.4	249	113	193	88
9b.1	119874	119874-07	PAD17C35999	PCB ABSORBENTS	12/16/15	7.4	129	59	73	33
9b.1	119874	119874-08	PAD17C35987	PCB ABSORBENTS	12/17/15	7.4	180	82	124	56
9b.1	119874	119874-09	PAD17C35997	PCB ABSORBENTS	01/22/16	7.4	177	80	121	55
9b.1	119874	119874-10	PAD17C35995	PCB ABSORBENTS	01/29/16	7.4	128	58	72	33
9b.1	119874	119874-11	PAD17C36000	PCB ABSORBENTS	04/08/16	7.4	90	41	34	15
9b.1	119874	119874-12	PAD17C35998	PCB ABSORBENTS	10/17/16	7.4	68	31	12	5
9b.1	119881	119881-01	PAD17C35789	PCB ABSORBENTS	09/03/15	4	86	39	30	14
		Totals	12			85.4	1870	849	1198	543

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Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

TA	UNIFORM HAZARDOUS	1. Generator ID Number		2. Page 1 of	3. Emergend	y Respon	se Phone	4. Manife	st Tracking	Number		
	WASTE MANIFEST	KY E	3890008982	2		-270-	-441-621	1 0(<u>)684</u>	119	11	JJK
	5. Generator's Name and Ma	Nuclear Partnershi	ip. LLC. (FRNP) or	n behalf	Factoria S	te Addres	s (if different)	han mailing add	THE OF	nergy	RP-112	118
	of the U.S. E	epartment of Eng	FOU FRNP RP T	1/2/18	Paducah	Gased	ous Diffus	ion Plant,				
	5511 Hobbs	Road, Kevil, KY 4:	2053	1	5511 Hol	bs Rd	l, Kevil, K	Y 42053				
	6. Transporter 1 Company Na	me			Ale	in production do not		U.S. EPA I	Number	and the second second		
	RSB LOGIST	TCS Inc.						1	1	WARC	000012	2005
	7. Transporter 2 Company Na	me	1					U.S. EPA ID	Number			
	0.0.1.1.5.10.11.	- J Cite Address	an a						Musekan			
	8. Designated Facility Name 2	ons Clive Disposal	I Site-Treatment F	acility				U.S. EFAIL	Number			
	US I-80 Exit	49, Clive, UT 8402	29									
	Facility's Phone: 1-43	5-884-0155								UTD9	82598	388
	9a, 9b. U.S. DOT Descrip	tion (including Proper Shipping	Name, Hazard Class, ID Number	r,		10. Conta	iners	11. Total	12. Unit	1	13. Waste C	odes
	HM and Packing Group (if	any))	Internet Proved to the			No.	Туре	Quantity	Wt./Vol.		1	
R		Idadive material,	Tow specific activity	Calial/Oxia	. / .	л	DM	285	10			
RAT	52 MBa Fice	in Exported	58, 10-88, 111-230,	30IIO/OXIC	7e' -	4	LIVI	200	n			
ENE	2.		Pedition children and interest and and									
0		FFR 2	8 2018								-	
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		81 X-	A								1	
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PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841911JJK

Shipment ID Number: 9750-05-0001

Shipment Date: 2/20/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	Net Wt (Ibs)	Net Wt (kg)	Maximum Activity MBq
9b.1	120906	120906-01	PAD16C32112	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-335	10/18/16	7.4	74	34	18	8	2
9b.1	121053	121053-01	PAD17C35586	PCB [·] BALLASTS, CAPACITORS AND SMALL TRANSFORMERS (COLLECTION)	03/21/17	2	107	49	51	23	5
9b.1	121161	121161-01	PAD17C35919	VENT DUCT SOLIDS	03/11/16	2	106	48	50	23	4
9b.1	121084	121084-01	PAD17C35962	PCB BALLASTS/TRANSFORMERS/CAPACITORS	04/25/17	7	522	237	466	211	41
		Totals	4			18.4	809	367	585	265	52

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

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se print or type. (Form desig	ned for use on elite (12	2-pitch) typewriter.)					Form	Approved. OM	B No. 2050-003
UNIFORM HAZARDOUS WASTE MANIFEST	1. Generator ID Number	KY 8880008882	2. Page 1 of 3. E	nergency Response 1-270-4	Phone 141-624	4. Manifest	Tacking Nu 584	1920	JJK
5. Generator's Name and Maili FOLS Fix	ng Address ers Nuclear Fla	rtnership, LLC, (FRN	Gene Files	rator's Site Address	(if different th	an mailing addres	5)	·	· ·
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8. Designated Facility Name ar	d Site Address	,	· · ·	······································		U.S. EPAID N	umber		
Diversiti	ed Scientific Se	rvices, Inc. (DSSI.)	52						
667 Gall	aher Rd, Kings	lon, TN 37763					TN	D9821091	42
Facilités Dhono:	1-865-376-8747	r				1 Č			
Do US DOT Descript	on (including Proper Shipp	ing Name Hazard Clase ID Number		10 Contair	nore	41 75 4-1	10.11.1		
HM and Packing Group (if	any))		•	No	Tyne	Quantity	12. Unit Wt./Vol.	13. Wast	e Codes
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Four Rivers Nuclear Portners									1
FRNP is responsible for perform	ning all Resource Conserva	Department of Energy (DOE) are co- ation and Recovery Act (RCRA) gene	-generators pursuant t rator activities on beh	to a Co-Generator ag alf of both FRNP and	greement dat d DOE for all :	ed September 13, activities under th	2017. Unde e scope of F	r this agreement, RNP's Contract DE	7-2-19
EM0004895, including, but not with BCBA requirements. Tran	limited to, characterizing	waste, manifesting waste to off-site	facilities, packaging a	nd labeling waste fo	or transport,	and storing and m	anaging wa	ste, in accordance	2-18
14. Special manuling instruction		TTT: "FADET A	ation charges paid are	to be reimbursed b	by the Govern	iment pursuant to	contract D		
FRG # 4	74 In the even	nt of me Fill Finders		🖛 Հ ոմ Կեսաս ես		14.15	blan L	late: UAF	25/17
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15. GENERATOR'S/OFFERO	R'S CERTIFICATION: 11	tereby declare that the contents of the	is consignment are full	ly and accurately depointed and path	scribed above	e by the proper shi	pping name	, and are classifier	d, packaged,
Exporter, I certify that the	contents of this consignme	ent conform to the terms of the attach	ed EPA Acknowledgm	ent of Consent.		Ioniai rogaladorioi	n oxport stil	phone and rain a	or minuty
I certify that the waste min	imization statement identil	fied in 40 CFR 262.27(a) (if I am a la	rge quantity generator)	or (b) (if I am a sma	ill quantity ge	nerator) is true.		<u>}</u>	
Generator's/Offeror's Printed/ I)	ped Name	LIL CHI FR	NF signature		A 1	• •		Month	Day year
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To, international ompinients	Import to U.S.	57771	Export from U.S.	Port of en	try/exit:				·
Transporter signature (for expo	ns only):			Date leavi	ng U.S.:"			· · · · · · · · · · · · · · · · · · ·	
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18b. Alternate Facility for Gene	rator)			wanirest Reference		U.S. EPA ID N	umber		
Facility's Phone:			· . ·		ч.,	4.			
18c. Signature of Alternate Fac	lity (or Generator)		· · · · · · · · · · · · · · · · · · ·			1		Month	Day Year
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19. Hazardous Waste Report M	anagement Method Codes	().e., codes for hazardous waste tre	atment, disposal, and	recycling systems)					
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20: Designated Facility Owner	or Operator: Certification of	f receipt of hazardous materials cove	red by the manifest ex	cept as noted in Iten	n 18a				
Printed/Typed Name		11	Signature					Month	Day, Year
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Form 8700-22 (Rev. 3-05)	Previous editions are of	bsolete. AL	2 1 2	- Maria		JESIGNATE	D EAC		ENEDATO
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PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 006841920 JJK

Shipment ID Number: DSSI-18-059

Shipment Date: 5/14/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)
9b.1	121073	121073-01	PAD17C35952	PCB VENTILATION DUCT OIL AND WATER	04/25/17	7.4	318	144	262	119
9b.1	121075	121075-01	PAD17C35954	PCB VENTILATION DUCT OIL AND WATER	04/25/17	6,35	432	196	376	171
9b.1	121077	121077-01	PAD17C35956	PCB VENTILATION DUCT OIL AND WATER	04/26/17	6.35	453	205	397	180
9b.1	121077	121077-02	PAD17C35971	PCB VENTILATION DUCT OIL AND WATER	05/01/17	6.68	476	216	420	191
9b.1	121077	121077-03	PAD17C35972	PCB VENTILATION DUCT OIL AND WATER	05/01/17	6.28	463	210	407	185
9b.1	121077	121077-04	PAD17C35976	PCB VENTILATION DUCT OIL AND WATER	05/01/17	6.48	456	207	400	181
9b.1	121077	121077-05	PAD17C36027	PCB VENTILATION DUCT OIL AND WATER	05/04/17	6.55	482	219	426	193
9b.1	121079	121079-01	PAD17C35958	PCB VENTILATION DUCT OIL AND WATER	04/25/17	6.55	466	211	410	186
9b.1	121079	121079-02	PAD17C35959	PCB VENTILATION DUCT OIL AND WATER	04/27/17	6.6	480	218	424	192
9b.1	121079	121079-03	PAD17C35960	PCB VENTILATION DUCT OIL AND WATER	07/12/17	5.9	372	169	316	143
9b.1	121079	121079-04	PAD17C35974	PCB VENTILATION DUCT OIL AND WATER	05/09/17	7.4	476	216	420	191
9b.1	121255	121255-01	PAD17C36199	Lube Oil/PCB Rinseate collected in Sight Glasses from Transformer Draining, Post-TSCA Rinse.	08/23/17	6.28	493	224	437	198
		Totals	12			78.82	5367	2434	4695	2130

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Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

t	UNIFO	RM HAZARDOUS	1. Generator ID	Number	3982	2. Page 1 c	of 3. Emerge	ncy Response	Phone	4. Man. est		umber 192	6.1	IK
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A-9



Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.
ND DISPOSAL NOTIFICATION AND CERTIFICATION

5 6 25/18

Generator Name:

Profile No.:

Manifest Doc. No. : State Manifest No .:

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🔟 Wastewater 🗌 1.

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2. corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

DEC 4	3 US EPA	4 SUBCATEGORY ENTER THE SUBCATEGORY DESCRIBTION - IF NOT APPLICABLE, SIMPLY CHECK N	IONE.	5. HOW MUST THE WASTE BE MANAGED?
	WASTE-CODE(S).	DESCRIPTION	NONE	ENTERILETTEREROM -
1	D007	Chromium		А
2	D008	Lead		A
3	•			
4				

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here If no UHCs are present in the waste upon its initial generation check here: \Box

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

3 6

-002

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

RESTRICTED WASTE REQUIRES TREATMENT A.

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS B,1

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS B.3 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS B.4 "I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

RESTRICTED WASTE SUBJECT TO A VARIANCE C.

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above. This hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT D.

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment." E.

WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. I hereby certify that Signature Form A1 Page 1 of 2

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

		SOLVENT WA	STE TREATMENT STANDARDS2		
F004 through E005 spent solvents constituents and their associated USERA hazardous waste corte(s)	Treatm	ent Standard	F004 through F005 spont solvent constituents and their associated USEPA hazardous	Treatment Stand	ard .
	Wastewaters	Nonwastewaters	Waste code(s)	Wastewaters	Nonwastewaters
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0
Cyclohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0,080	10
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30

¹ All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

² For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

³ These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Form A1 Page 2 of 2

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)											
Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	006841926JJK								
Profile No.:	9753-03-2002	State Manifest No.:	Ли								

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST	WW	NWW	CONSTITUENT	HOW MUST	WW	NWW
	THIS	(mg/l)	(mg/kg)		THIS	(mg/l)	(mg/kg)
	CONSTITUENT		unless		CONSTITUENT		unless
	BE MANAGED?	1.00	noted		BE MANAGED?		noted
Acenaphthylene	1	0.059	3.4	2-Chloro-1,3-butadiene	1	0.057	0.281
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane	1	0.27	6.0
Acetonitrile		5.6	381	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform	1/2/	0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether	11	0.055	7.2
Acylamide		191	231	p-Chloro-m-cresol	1 1 100	0.018	14
Acrylonitrile	<u> </u>	0.24	84	2-Chloroethyl vinyl ether	Lach I'm	0.0621	NA ¹
Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride	/00/ '	0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline	1 1	0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	L	0.059	3.4
Aramite		0.36	NA	o-Cresol	A	0.11	5.6
alpha-(BHC)		0,00014	0.066	m-Cresol	A	0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol	A	0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.0561	1.41
gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Barban		0.056 ¹	1.41	o,p'-DDD		0.023	0.087
Bendiocarb	/0	0.056 ¹ .	1.41	p,p'-DDD		0.023	0.087
Benomyl	1101	0.056 ¹	1.4	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene	11/13	0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride	1/6/	0.055 ¹	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³	100	0.11	6.8	Dibenz(a,h)anthracene		0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a.e)pyrene		0.061	NA
Benzo (g,h,i)pervlene		0.0055	1.8	1.2-Dibromo-3-chloropropane	/ / /	0.11	15
Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide	A	0.028	15
Bromodichloromethane		0.35	15	Dibromomethane	1/01	0.11	15
Bromomethane/Methyl					¥ /		10
Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0,055	15	o-Dichlorobenzene	K	0.088	6.0
n-Butyl alcohol	· · · ·	5.6	2.6	p-Dichlorobenzene	105 [. (0.090	6.0
Butylate		0.042'	1.4	Dichlorodifluoromethane		0.23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-		0.000	0.5	1,2-Dichloroethane		0.21	6.0
dinitrophenol/Dinoseb		0.066	2.5				
Carbaryl		0.006	0.14	1,1-Dichloroethylene		0.025	6.0
Carbenzadim	· / · · · · · · · · · · · · · · · · · ·	0.056	1.4	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.006	0.14	2,4-Dichlorophenol		0.044	14
Carboturan phenol		0.056	1.4	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan	1	0.0281	1.4'	cis-1,3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
p-Chloroaniline	1	0.46	16	Dieldrin	1	0.017	0.13
Chlorobenzene	L	0.057	6.0	Diethyl phthalate	L	0.20	28

CONSTITUENT	Ho	N MI	JST	WW	NWW	CONSTITUENT	HOW MUST	ww	NWW
	THIS	S		(mg/l)	(mg/kg)		THIS	(mg/l)	(mg/kg)
	CON	VSTI					CONSTITUENT		unless
Chlorobenzilate	NEDC I	WAN	AGED	0.10	NA	n-Dimethylaminoazobenzene		0.131	NA
2.4-Dimethyl phenol			/	0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate			-	0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate				0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene				0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol				0.28	160	Methyl methansulfonate		0.018	NA 1.C
2.4-Dinitrophenol				0.12	140	Metolcarh	/	0.014	4.0
2.6-Dinitrotoluene	<u> </u>			0.55	28	Mexacarbate	1 1	0.0561	1.4
Di-n-octyl phthalate				0.017	28	Molinate	I I I	0.0421	1.41
Di-n-propylnitrosamine				0.40	14	Naphthalene	· / P	0.059	5.6
1,4-Dioxane				12.0	170	2-Naphthylamine	177	0.52	NA
Diphenylamine	ļ			0.92	13'	o-Nitroaniline		0.27'	.14'
Diphenylnitrosamine				0.92	13	p-Nitroaniline		0.028	28
Disulfoton	<u> </u>			0.007	62	5-Nitro-o-toluidine		0.000	28
Dithiocarbamates (total)			{	0.028	281	o-Nitrophenol	<i> </i> '*	0.0281	13'
Endosulfan I				0.023 .	0.066	p-Nitrophenol	113	0.12	29
Endosulfan II				0.029	0.13	N-Nitrosodiethylamine	μ	0.40	28
Endosulfan sulfate				0.029	0.13	N-Nitrosodimethylamine		0.40	2.3 ¹
Endrin		-+		0.0028	0.13	N-Nitroso-di-n-butylamine	/	0.40	17
Endrin aldehyde				0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
EPIC	ļ			0.042	1.4	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate				0.057	10	N-Nitrosopyrolidine		0.013	35
Ethyl cyanide/Pronapenitrile	Ar	$\overline{\mathbf{t}}$		0.007	360	Oxamyl		0.0561	0.281
Ethyl ether	11	H^{-}		0.12	160	Parathion	1	0.014	4.6
Bis(2-Ethylhexyl)phthalate	1	T	1,40	0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	0.10	10
Ethyl methacrylate		T		0.14	160	Pebulate		0.0421	1.41
Ethylene oxide		Taf		0.12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur		10-	(0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene				0.068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene				0.059	3.4	Pentachloroethane		0,055	6,0
Formetanate hydrochloride				0.056'	1.4'	Pentachloronitrobenzene		0.055	4.8
Heptachlor				0.0012	0.066	Pentachiorophenol		0.089	1.4
				0.016	10.000	Phenanthrene		0.001	5.6
Hexachlorobutadiene				0.055	5.6	Phenol		0.039	62
Hexachlorocyclopentadiene				0.057	2.4 ·	Phorate	/ / /	0.021	4.6
HxCDDs (All Hexachrorodibenzo-p-dioxins)				0.000063	0.001	Phthalic acid	71	0.055 ¹	28 ¹
HxCDFs (All Hexachlorodibenzofurans)	T		-	0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloroethane				0.055	30	Physostigmine		0.056 ¹	1.4
Hexachloropropylene				0.035	30	Physostigmine salicylate		0,0561	1.41
Indeno(1,2,3-c,d)pyrene	1			0.0055	3.4	Promecarb	-1-1-6/18/	0.056'	1.4
lodomethane				0.19	170	Pronamide		0.093	1.5
Isobutyi alconol				0.021	0.066	Proposur	//	0.056	1.4
Isosafrole				0.021	2.6	Prosulfocarb		0.000	1.4
Kepone				0.0011	0.13	Pyrene		0.067	8.2
Methacrylonitrile				0.24	84	Pyridine		0.014	16
Methanol				5.6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene				0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb	1			0.0561	1.4'	1,2,4,5-Tetrachlorobenzene	1	0.055	14
Methomyl	1			0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	[0.25	0.18	Tetrachlorodibenzo-furans)		0.000063	0.001
3-Methylcholanthrene	<u> </u>			0.0055	15	1,1,1,2-letrachloroethane	· · · · · · · · · · · · · · · · · · ·	0.057	6.0
4,4 -methylene Dis(2- chloroaniline)	I			0.50	30	1,1,2,2-Tetrachloroethane	L	0.057	6.0

Form B1 Page 2 of 3

CONSTITUENT	HOW MUST	WW (mg/l)	NWW (mg/kg)	CONSTITUENT	HOW MUST	WW (mg/l)	
		2	unless			Wight	unless
Tetrachloroethylene		≁ 0.056	6.0				
2,3,4,6-Tetrachlorophenol	1	0.030	7.4	Antimony		1.9	2.1 mg/l
Thiodicarb		0.0191	1.4 ¹	Antimony	/	1.9	1.15 mg/l
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l
Toluene		0.080	10	Barium		1.2	7.6 mg/l
Toxaphene		0.0095	5 2.6	Barium		1.2	21 mg/l
Triallate		0.042 ¹	1.4 ¹	Beryllium	Λ	0.82	0.014 mg/l
Tribromomethane/Bromoform		0.63	15	Beryllium	AP /	0.82	1.22 mg/l
2,4,6-Tribromophenol		0.035	7.4	Cadmium	1	0.69	0.19 mg/l
1,2,4-Trichlorobenzene	101	0.055	19	Cadmium	100 16 18	0.69	0.11 mg/l
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane	W 16	P 0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene	100	0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)	1/	0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA ⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead		0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0,72	7.9	Lead		0.69	0.75 mg/l⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)	Ŋ.	NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2- trifluoroethane		0.057	30	Mercury (All others) -		0.15	0.025 mg/l TCLP
Triethylamine		0.081 ¹	1.5 ¹	Nickel .	А	3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP⁴
Vernolate		0.042 ¹	6.0 ¹	Selenium	. /	0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene		0.32	30	Silver		0.43	0.30 mg/l TCLP
				Silver	DD,	0.43	0.14 mg/l TCLP ⁴
				Sulfide	1 06/1	14	NA ²
				Thallium	116	1.4	0.078 mg/l TCLP ¹
				Thallium		1.4	0.20 mg/l TCLP ⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
				Zinc		2.61	4.3 mg/l TCLP ²

¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.
 ² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.
 ³ These compounds are regulated by the sum of their concentration instead of as individual constituents.
 ⁴ These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.
 ⁵ Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

Form B1 Page 3 of 3

Ple	ase	print or type. (Form designed for use on elite (12-pitch) typewriter.)			-			Form	Approved. ON	AB No. 20	50-0039
Î	U	INIFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST KY 3890008982	2. Page 1 of 3.	Emerge	b-441-	Phone 6211	4. Manifest	fracking Nu 684	^{mber} 1935	JJ	K
	5	Generator's Name and Mailing Address	Ur (FRNO)	enerator's	Site Address (I	f different tha	n mailing addres	s)			
		554 Habbs Faad, Kevil, Ku 420	53	Par	Jucch	Gase	ous D	ifru=	sion Pla	rt	
	G	Jenerator's Phone:		50	511 4	obbs	Rog-Ke	Nil K	y 420	53	
	6	RSB LOGISTICS FOC					IWAR	190000	1200	5	-
	7	Transporter 2 Company Name					U.S. EPAID N	lumber		-	
	8	3, Designated Facility Name and Site Address				-	U.S. EPAID N	lumber			
		Energy Solutions Chic Dispose	1 SterTre	Ime	at Fas	ility	LT	0982	598	89.7	
		US 1-80 EVIT 19, Chive, UT 840	29			·			•		
	F	9a. 9b. U.S. DOT Description (Including Proper Shipping Name, Hazerd Class, ID	Number,		10. Contain	878	11. Total	12. Unit	13. Wa	ste Codes	
	F	1.1.1.1.2912 (- 1) + · · + ·			No.	Туре	Quantity .	Wil/Vol.		1	
DATOD		Contonnated objects (SCA-11)	7, (PCB), NP	-237,	3	DW	484	K			
CENE		2.	"En	pter	Ĩ						
	Γ	3.									
	$\left \right $	4.	,		1.1.1						
					1					2	
		14. Special Handling Instructions and Additional Information ERG #162 EX-LUSTUR USE Ship	ment, See	PCE	Attac	hmer	+ Truch	2532	The PC	8.50	12117
	F	'our River's Nuclear Partnership, LLC (FRNP) and the U.S. Department of Energy (DDE) an 'RNP is responsible for performing sli Resource Conservation and Recovery Act (RCRA) g M0004895, including, but not limited to, characterizing waste, manifesting waste to off	e co-generators pursuant to generator activities on behal f-site facilities, packaging an	f of both d labelin	FRNP and DDE f g waste for trans	for all activities sport, and sto	es under the scop ring and managir	e of FRNP's (ig waste, in a	Contract DE-	ipment	110
		with RCRA requirements. Transportation hereunder is for DOE and the actual total trans 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contri 15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contribution of the second seco	sportation charges paid are t ents of this consignment are	to be retr e fully an	nbursed by the I d accurately des	Sovernment (scribed above	by the proper si	act DE-EMOC	e, and are classi	ied, packag	ged,
		marked and labeled/placarded, and are in all respects in proper condition for tran Exporter, I certify that the contents of this consignment conform to the terms of the I certify that the waste minimization statement identified in 40 CFR 262.27(a) (If	nsport according to applical he attached EPA Acknowled I am a large quantity genera	ble interr dgment c ator) or (allonal and national and nation of Consent. (if I am a sma	onal governm Il quantity ge	nental regulations nerator) is true.	. If export st	Ipment and I an	the Primar	у
		Ganerator's/Offeror's Printed/Typed Name LaChelk Telfair mbehelf of FR	NP 10		le	seep.	ć		Month	Day 28	Year 117
-	N I	16, International Shipments import to U.S.	Export from U.S	S.	Port of en	try/exit:					
-	FI.	Transporter Signature (for exponsionly); 17. Transporter Acknowledgment of Receipt of Materials			Date leave	ng 0.5.;			· · · ·		
TUC	¥]	Transporter 1 Printed/Typed Name	Signa	ture +	721/0-	19.60	al Card	500	Month	Day	Year
ASICI	ANJ	Transporter 2 Printed Oyped Name	e on signa	lure	1270	00-00		742	Nonth	Day	Year
F	Ĕ	18 Discrepancy	AECI	E	VE				<u> </u>		
Í	ſŀ	18a. Discrepancy Indication Space	Type	21	Residue		Partial Re	iection		Full Reject	ction
			JUN	63	2018	Number					
2	Ē	18b. Alternate Facility (or Generator)	BIT: Marker	XIA			U.S. EPA ID	Number			
1Car		Facility's Phone:	Ŷ		and the state of the second		1				
CHL		18c. Signature of Alternate Facility (or Generator)							Mont	n Day	Year
- International of the second s		19. Hazardous Waste Report Management Method Codes (i.e., codés for hazardous •	waste treatment, disposal, a	and recy	cling systems)						
L L	S.	1 k132	3.				4.				
		20. Designated Facility Owner or Operator; Certification of receipt of hazardous mater	rials covered by the manifes	st except	as noted in Iten	n 18a					
		Printed/Typed Name	Signa	1 and	. +	2			Month	Day	Year
E	PAI	Form 8700-22 (Rev. 3-05) Previous editions are obsolete.	DE	ESIG	ATED FA	CILITY	TO DESTIN	ATION	STATE (II	REOL	URED

Manifest Number: 06841935 JJK

Shipment ID Number: 9750-04-0002

Shipment Date: 5/14/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	Net Wt (Kg)	Maximum Activity MBq
9b.1	125105	125105-01	PAD17C35211	PCB ballasts (leaking)	05/03/17	6.5	442	200	386	175	31
9b.1	125105	125105-02	PAD17C35212	PCB ballasts (leaking)	05/03/17	7	534	242	478	217	33
9b.1	125105	125105-03	PAD17C35680	PCB ballasts (leaking)	05/15/17	5	260	118	204	93	24
		Totals	4			18.5	1236	561	1068	484	87

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

Plea	ie j	print or type. (Form designed for use on elite (12-pitch) typewriter.)						Form /	Approved. OM	B No. 205	0-0039
Î	UN	IFORM HAZARDOUS 1. Generator ID Number WASTE MANIFEST KY 889000 8992	2. Page 1 of Z	3, Emarge 1-27	ncy Response Pi a-441-	6211	4. Manifest Tr	s84	1936	JJK	$\boldsymbol{\zeta}$
	5. F S G 6.	Senerator's Name and Mailing Address aur Rivers Nuclear Partovership, LLC(F DOLI Habbos Frack, Kevil, Ky 42053 Interations Phone: Transporter 1 Company Name	PNP)	FR A	NP NP UCAN 11 Habt	different that Sources	us. EPAID N	Fusion	Plan 12053	ł	
	7.	Transporter 2 Company Name		•			U.S. EPAID N	mber	01200	5	
	8.	Designated Facility Name and Site Address	7	11. 1.			U.S. EPAID N	umber			
	F	Erergy Solutions Chive, Disposed 201 US I-80 Exit 49, Clive, UT 840. active phone: 1-43.5-884-01.55	29		use r	acilit	Y LETE	982	598	898	
	8	ia. Bb. U.S. DOT Description (including Proper Shipping Name, Hazard Cless, ID Number, and Packing Group (if any))			10. Contain No.	ars 1 Type	11. Total Quantity	12. Unit W1./Vol.	13. Wa	ste Codes	
RATOR -	Ŗ	1 WN2913, Radioctive natorial, surfa and abjects (SCA-ID), 7, (RCB), Np-257, The (1~234, solid/axide, 469 Mbs, Fisile, E	ce cent	2.50,	1	CM	1400	K,			
GENE	8	a 2002913, Rostinative naterial, surface alted objects (SCB-II), 7, (PCB), Np-237, FC U-234, mid/oxide, 363 MBg, Fissile As	- conta	Nn- 230,	.10	DM	495	X			
		3,									
	F	4.	;								
	FFEV	CONTRIVERSING AND A STREAM OF	erators pursuar r activities on b illites, packagin, on charges paid his consignmen ccording to app	t to a Co-I ehelf of bo g and labe are to be r t are fully i licable inh	Seperator agreem th FRNP and DDE impursed by the embursed by the and accurately de emailonal and nat	ional government	32.73 ptember 13,2017. its under the scop toring and managi pursuant to Cont we by the proper s mental regulation:	Under this s be of FRNP's ng waste, in ract DE-EMD hipping nam S. If export s	agreement, Contract DE- accordance 2004855. We, and are class hipment and lea	ified, packa n the Prima	+ ID : 6-0002 ged, ry
		Exporter, I certify that the contents of this consignment conform to the terms of the attack I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I em a is Generator's/Offeror's Printed/Typed Name	arge quantity ge Si	wiedgmen inerator) o ignatura	r (b) (if I am a smi	all quantity g	enerator) is true.	6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Mont	h Day	Year
-	ŀ	Loch 1/e Telfair mbehelf .F FENP		A	Della	Jul	sh		16	128	18
1000		Transporter signature (for exports only):] Export from	Ú.S.	Port of each	ntry/exit: ving U.S.;	_				
1	Ľ.	17. Transporter Acknowledgmant of Receipt of Materials	0	lanatura					Mari	b Dev	Vaca
1010.	NO'S	The solution of the Carrier Signature on	Ship	Mer	17340	5-68-	0001 (0	0684	192500	J Day	16as
	RA			nguarra				CT G		n Day	(ea)
-	Ì	18. Discrepancy		El		/E			Г	_	
		Quantity Type	h	JU	N Z 9 2 Manifesh Reference	018 ce Number:	L_] Partial R	ejection	L	_] Full Reja	ection
	CILI	IOD. AUBTINE CACANY (OF GENERATION)	B	l;	C W	Non-Markenson	U.S. EPAIL	1 IVLETIDOF			
	ALEUTA	Facility's Phone: 18c. Signature of Alternate Facility (or Generator)						and the second second	Mo	nth Day	Year
	NDIO	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste t	reatment, dispo	osal, and r	ecycling systems))					
		1. H132 2. H132	3	l.			4.				
		20. Designated Facility Owner or Operator; Certification of receipt of hazardous materials co Printed/Typed Name	wered by the m	anifest ex	cept as noted in It	em 18a	0	•	Мо	nth Day	Year
	ł	Albert Ewns	1	- B. write	and	7	Em		10	6120	118
Ē	PA	Form 8700-22 (Rev. 3-05) Previous editions are obsolete.		DESI	GNATED F	ACILIT	TO DEST	INATIO	N STATE	IF REC	UIRED)

Manifest Number: 006841936 JJK

Shipment ID Number: 7340-08-0002

Shipment Date: 5/14/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	125104	125104-01	PAD17C35649	Light ballasts	05/01/17	90	3802	1725	3087	1400	469
9b.2	121072	121072-01	PAD17C35951	SPILL CLEANUP FROM VENT DUCT TROUGHS	05/11/17	7.4	112	51	56	25	39
9b.2	121074	121074-01	PAD17C35953	SPILL CLEANUP FROM VENT DUCT TROUGHS	05/15/17	7.4	130	59	74	34	39
9b.2	121076	121076-01	PAD17C35955	SPILL CLEANUP FROM VENT DUCT TROUGHS	04/26/17	7.4	290	132	234	106	39
9b.2	121076	121076-02	PAD17C36601	SPILL CLEANUP FROM VENT DUCT TROUGHS	10/19/17	7.4	96	44	40	18	39
9b.2	121078	121078-01	PAD17C35957	VENT DUCT SOLIDS	04/25/17	7.4	114	52	58	26	39
9b.2	121078	121078-02	PAD17C35973	PCB SPILL CLEANUP DEBRIS	10/09/17	7.4	90	41	34	15	39
9b.2	121078	121078-03	PAD17C36606	SPILL CLEANUP DEBRIS	10/12/17	7.4	92	42	36	16	39
9b.2	121078	121078-04	PAD17C36618	SPILL CLEANUP DEBRIS	11/29/17	7.4	104	47	48	22	39
9b.2	121208	121208-01	PAD17C36211	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	07/10/17	7.4	362	164	306	139	39
9b.2	125127	125127-01	PAD17C36099	Capacitors/ballasts	06/26/17	3	262	119	206	93	16
		Totals	11			159.6	5454	2474	4179	1896	831

	11 6	anoratar ID Number		2 Doon 1 of	2 Emergency Person	Dhone	A Manifest	Tracking Nu	mhar	the second se	-
UNIFO	STE MANIFEST		00007		4 770 AAA	8044		1684	191	3.1.	K
5, Gene	rator's Name and Mailing Add	iress	08887		Generator's Site Addres	s (if different th	an mailing addre		104	5 00	14
F	our Rivers Nuclear F	Partnership, LLC, (FF	RNP)		FRNP on be	half of the	FRNP				
ог	behalf of FRNP				Paducah Ga	seous Diff	usion Plan	t.			
General	Habbs Road, K	evil. KY 42053			5511 Hobbs	Rd. Kevil.	KY 42053				
6. Trans	sporter 1 Company Name	and the second se	and the second se				U.S. EPA ID	Number			
С	AST Transportati	ion					1	CORODO	005389	3	
7. Trans	sporter 2 Company Name						U.S. EPA ID	Number	and the second second		-
							- 1-			-	
8. Desig	phated Facility Name and Site	Address					U.S. EPA ID	Number			
E	nergySolutions C	live Disposal Site-	Treatment Fat	cility							
U	S I-80 Exit 49, C	live, UT 84029					T .				
Facility	s Phone: 1-435-884	-0155	and the second					UTD982	598898		_
9a.	9b. U.S. DOT Description (in and Recking Group (if any))	cluding Proper Shipping Name,	Hazard Class, ID Numbe	¥,	10. Con	ainers	11. Total	12. Unit	13.	Waste Codes	
HM					No.	Туре	Quantity	Wt./Vol.			
RQ	UN 2913, Radioactiv	e material, surface con	taminated objects	(SCO-I), 7, ((PCB)						
	U-234, Solid/Oxide,	65 MBq, Fissile Excep	ted		1	BA	2858	K			
-	2										-
ľ								1 1			
	3.			1.12				1	-		
ľ	4. Four Rivers Nuclear Partner	ship, LLC (FRNP) and the U.S. De	partment of Energy (DOE)) are co-generators	s pursuant to a Co-Gene	rator agreemen	t dated Septemb	er 13, 2017. Un	der this agre	ement,	
	FRNP is responsible for per EM0004895, including, but	forming all Resource Conservatio not limited to, characterizing wa	n and Recovery Act (RCRA	A) venerator activit		ND and DOC fa	all activitian un	der the scone o	f FRNP's Con	stract DE	
			ste, manifesting waste to	off-site facilities,	ties on behalf of both F packaging and labeling	vaste for transp	ort, and storing a	and managing y	waste, in acco	ordance	-
	with RCRA requirements. Th	ransportation hereunder is for D	ste, manifesting waste to OE and the actual total tra	off-site facilities, pansportation charge	ties on behalf of both F packaging and labeling ges paid are to be reimb	vaste for transp ursed by the Go	ort, and storing a overnment pursu	and managing v ant to Contract	waste, in acco DE-EM0004	ordance 895.	
14. Spe	cial Handling Instructions and	Additional Information	ste, manifesting waste to OE and the actual total tra A SEE Above. S	off-site facilities, p ansportation charg	ties on behalf of both F packaging and labeling u ges paid are to be reimb	vaste for transp ursed by the Go	And storing a st	and managing v ant to Contract	waste, in acco DE-EM0004	ordance 895.	14
14. Spe T	ruck: 1408 Traile	ransportation hereunder is for D d Additional Information r: OTR63 TID: N/	A SEE Above. S	off-site facilities, pansportation charp	ties on behalf of both F packaging and labeling : ges paid are to be reimt for add from the reimt tion Start Date:	vaste for transp ursed by the Go N/A	Hation.	PCB Star	t Date;	08/25	/1
14. Spe T E	ruck: 1408 Traile	ransportation hereunder is for D d Additional Information r: OTR63 TID: N/ we event of an RQ	A See Above S Release, call 1	off-site facilities, pansportation char, Accumula 1-800-424-	ties on behalf of both F packaging and labeling ges paid are to be reimt for data from tion Start Date: 8802	Vaste for transp ursed by the Go	If undel	PCB Star iverable,	t Date; return	08/25 to gene	/1
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Manifest Number: 006841943 JJK

Shipment ID Number: 7340-08-0003

Shipment Date: 7/31/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (Ib)	Gross Wt (Kg)	Maximum Activity MBq
9b.1	121548	121548-01	PAD18C40626	PCB OIL TRANSPORT TANK WITH RESIDUALS	06/25/18	360	6480	2939	65
		Totals	1			360	6480	2939	65

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

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	24.0	Generator's Name Four Rivers Nucles 5511 Hobbs Road,	ir Partnership, i Kevii, KY 4205	LC, on behalf of FRNI 3	p	·····						
	25.	Transporter Comp	any Name	Interstate	e Ventures, Inc.	U.S. EPA ID Number TNR000023390					0	
·	26. 1	Transporter Compa	ny Name '		,	U.S. EPA ID Number				•		
	27a. HM	27b. U.S. DOT Description and Packing Group (if any)	(including Proper Shi	oping Name, Hazard Class, ID I	Number,	28, Conta No.	ners Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	35
	RQ	NA3082, Haza PG III	rdous Waste	liquid, n.o.s. (Lea	ad), (D008), 9,	1	DM	87	к	0008		
	RQ	UN3082, Envir n.o.s. (PCB), 9	onmentally I , PGIII	nce, liquid,	2	DM	238	к				
	RQ	NA3077, Haza Tetrachloroeth	rdous Waste ylene), (D00	, solid, n.o.s. (Lea 8, D039), 9, PG II	ad, í	2	DM	122	к	D008 D039	D018	
ERATOR -		NON DOT RE	GULATED			2	DM	178	ĸ			
							•					†
												<u> </u>
			anta a cada de anome			·						
ł	32. Sp	ecial Handling Instructions a ERG # 171 In See Attachmer	d Additional Informa the event of t for Additio	^{ion} an RQ Release, « nal Info	call 1-800-424-88	02	. ·	lf undelin Shipme	verable nt ID:	, retum DSSI-1	to gen 8 - 1 0	erat 4
SPORIER	33. Tra Printed	ansporter Acknowled d/Typed Name Ro Y	gment of Receipt of M	faterials	Signature	hz Mu	in J-			Mo I	nth Day 8 2	, y 3 ,
Y I IKAN	35. Dis	ACKNOWLED ACKNOWLED D/Typed Name ACKNOWLED		scet	Signature	I della	ØĴ	4	/	Mo	nth Day	/ / /
ED FACILIT	-			- B						· · ·		
ESIGNAI	30. Ha	LZAIOOUS WASTE REPORT MANA	jement Method Code	is (i.e., codes for hazardous wa	iste treatment, disposal, and i	ecyaing systems)		· · · · · · · · · · · · · · · · · · ·				
키		· . · ·			1 .	·				,		

Manifest Number: 006841953 JJK

Shipment ID Number: DSSI-18-104

Shipment Date: 8/23/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	Accumulation Date	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET WT (Kg)
9b.1	121121	121121-03	PAD17C35884	USED COMPRESSOR OIL		· · · · ·	4.68	268	122	212	96
9b.1	121162	121162-01	PAD17C35020	USED OIL (GENERATED FROM EQUIPMENT MAINTENANCE)		08/23/17	6.83	414	188	358	162
9b.1	121162	121162-02	PAD17C36033	USED OIL (GENERATED FROM EQUIPMENT MAINTENANCE)		08/23/17	6.28	260	118	204	93
9b.1	121162	121162-03	PAD17C36138	USED OIL (GENERATED FROM EQUIPMENT MAINTENANCE)		08/23/17	7.4	410	186	354	161
9b.1	121241	121241-01	PAD17C36140	Used Oil		08/15/18	6.02	392	178	336	152
9b.1	121241	121241-02	PAD17C36139	Used Oil		08/15/18	6.02	370	168	314	142
9b.1	121241	121241-03	PAD17C36451	Used Oil		08/15/18	7.4	292	132	236	107
9b.1	121241	121241-04	PAD17C36701	Used Oil		08/15/18	7.4	398	181	342	155
9b.1	121292	121292-01	PAD17C35800	Used oil (Non-Maintenance Buildings)			3.7	236	107	180	82
9b.1	121295	121295-01	PAD17C36651	Waste Oil		08/23/17	7.02	419.5	190	364	165
9b.1	121295	121295-02	PAD17C36652	Used Oil		08/23/17	7.22	422	191	366	166
9b.1	121295	121295-03	PAD18C40498	Used Oil		08/30/17	7	422	191	366	166
9b.1	121458	121458-01	PAD18C40451	USED OIL FROM MOBILE EQUIPMENT		03/08/18	7.4	426	193	370	168
9b.1	121458	121458-02	PAD18C40565	USED OIL FROM MOBILE EQUIPMENT		05/07/18	6.68	452	205	396	180
9b.1	121458	121458-03	PAD18C40566	USED OIL FROM MOBILE EQUIPMENT		06/25/18	4.04	384	174	328	149
9b.1	121460	121460-01	PAD18C40460	Used Motor Oil		03/08/18	2	138	63	82	37
9b.1	121461	121461-01	PAD18C40314	USED TRANSFORMER MINERAL OIL		08/15/18	2	204	93	148	67
9b.1	125150	125150-01	PAD17C36417	PCB OIL FROM C-400 ZONE, 16 J-BOX	09/19/17		4.68	318	144	262	119
9b.1	125150	125150-02	PAD17C36155	PCB OIL FROM C-400 ZONE 16, J-BOX	09/20/17		4.81	314	142	258	117
9b.1	121169	121169-03	PAD17C36197	OIL PADS		08/29/17	7.4	130	59	84	38
9b.1	121296	121296-02	PAD17C36248	Used Oil Filters		08/23/17	7.4	242	110	186	84
		Totals	21				123.38	6912	3135	5746	2606

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

(° e Attachment for (° re Attachment for insteas)

Shipment # : DSSJ-18-104

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	US Department of Energy (Paducah Site) Manifest Doc. No. :	006841953JJR
Profile No.:	State Manifest No.:	N/A

Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🔟 Wastewater 🗌 1.

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2 corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

DEE II	3-USEPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE SIMPLY CHECK	NONE	5 HOW MUST THE WASTE BE MANAGED?
	WASTECODE(S)	DESCRIPTION	NONE	ENTERLETTER FROM .
1	D008	Lead	\square	A
2	D018	Benzene	\square	A
3	D039	Tetrachloroethene	\boxtimes	А
4	D022	Chloroform	\square	А

To Identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here 🔀 If no UHCs are present in the waste upon its initial generation check here:

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

RESTRICTED WASTE REQUIRES TREATMENT Α.

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268,40.

For Hazardous Debris: 'This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS B.1

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS B.3 "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment." DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS B.4

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

C. RESTRICTED WASTE SUBJECT TO A VARIANCE This waste is subject to a national capacity variance; a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above. For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT D.

"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS E.

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature Aoni

______ Title_____ Waste Engineer______ Date__ 8/2/1/4

Form A1 Page 1 of 2

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTE TREATMENT STANDARDS											
F001 through E006 Spent solvent a constituents and their associated.	- Treatm	ent Standard', 35%	E001 through E005 spent	Treatment/Stan	lard 19 and 19 and 19 and						
USEPA hazardous waste code(s).	Wastewaters	Nonwastewaters	Waste.code(s)	Wastewaters	Nonwastewaters						
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³						
Benzene (F005)	0,14	10	Methylene chloride (F001, F002)	0.089	30						
n-Butanol (n-butyl-alcohol) (F003)	5.6	2,6	Methyl ethyl ketone (F005)	0,28							
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33						
Carbon tetrachloride (F001)	0.057	6,0	Nitrobenzene (F004)	0.068	14						
Chlorobenzene (F002)	0.057	6.0	2-Nitröpropäne (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	İNĊIN						
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16						
Cresol (m- and p- isomers) (F004)	0,77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0						
Cyclohexanone (F003)	0,36	0.75 (TCLP) ³	Toluène (F005)	0.080	10						
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6,0						
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	Ġ.O						
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6,0						
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30						
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30						
Isobutanol (Isobutyl Alcohol) (F005)	5,6	170	Xylenes: (sum of o-, m-, and p- isomers) (F003)	0.32	30						

¹ All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. -Wastewater units are mg/l, nonwastewater are mg/kg.

² For contaminated solls using the alternative soll treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

³ These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. [gnitable characteristic Wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory; that are managed In CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) - Greater than or equal to 10% total organic carbon.

D002;

D, Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Form A1 Page 2 of 2

19 containers Attachment for remetres

Ship Ment #; DSS I - 18-104

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	006841953JJK
Profile No.:		State Manifest No.:	NIA
This form is a continu	otion from form A1 for a wasta identified by more that	n five LISERA waste cod	o/subcatagony groups. This page by itself

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

DED#	HATABOAUS	ENTER THE SUBCATEGORY DESCRIPTION SIGNATERONT APPLICABLE SIMPLY CHECK	NON	E,	SEROW MUSIFIHE WASTE
	- WASTECODE(S)	DESCRIPTION	NO	NE	LETTER FROM FORM AT
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature Date 8/20/18

Title _ Waste Engineer

> Form A2 Page 1 of 2

19 Containers) (see housent for runbers) Shippent #: DSSI - 13-104

			mal QUIDCZTTV
Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	()) $()$ $()$ $()$ $()$ $()$ $()$ $()$

Profile No .:

State Manifest No .:

N/A

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

	1 US EPA	4.SUBCATEGORY ENTERTHE SUBCATEGORY DESCRIPTION IF NOT APPLICABLE, SIMPLY CHECK	K N	ONE		5. HOW MUST THE WASTE BEMANAGED2 ENTER
	WASTECODE(S)	DESCRIPTION		NON		LETTERFROM FORM A1
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature 8/20/18 Date

Title Waste Engineer

Form A2 Page 2 of 2

19 containers (see at - luent for reard »

Shipment #: DSSI-18-104

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)

Generator Name:	US Department of E	nergy (Paducah Site)	Manifest Doc. No. :	006841953JJK
Profile No.:			State Manifest No.:	NIA

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the LDR form.

Accessphiltylere Obes Adden Construction DEMAIL/OPEO Outer Operation Acesssphiltylere 0.069 3.4 2.Chloro-1.3-butadiene 0.057 15 Acesssphiltylere 0.069 3.4 2.Chloro-1.3-butadiene 0.057 15 Acesssphiltylere 0.061 5.7 bit2.2-hieroschylerher 0.038 6.0 Acesssphiltylere 0.061 5.7 bit2.2-hieroschylerher 0.035 6.2 Acesssphiltylere 0.061 6.7 bit2.2-hieroschylerher 0.035 6.2 Acesssphiltylere 0.061 0.24 0.061 0.061 0.065 6.2 Acroben 0.066 0.24 0.066 2.Chloroschylylylylether 0.055 6.5 Addrin 0.021 0.066 2.Chloroschylylylylether 0.056 8.4 Aranite 0.368 NA 2.Chloroschylylylylether 0.056 8.4 Aranite 0.368 NA 2.Chloroschylylylylether 0.056 8.4 Aranit	CONSTITUENT	HOW MUST	WW	NWW	CONSTITUENT	HOW MUST	WW	NWW
Accaraphitylene 0.669 3.4 Chlore-1,3-butadiene 0.057 0.28 Accaraphtylene 0.699 3.4 Chlore-1,3-butadiene 0.057 15 Acearaphtene 0.28 160 Chlore-thana 0.27 15.0 Acetontifie 5.6 3.8 Dis/2-Chloredthy/imtane 0.33 1.2 Acetontifie 0.461 0.461 Chloredthy/imtane 0.365 1.2 Acetontifie 0.28 NA Dis/2-Chloredthy/imtane 0.065 1.2 Acetontifie 0.28 140 Chloredthy/imtane 0.065 1.2 Accylamide 19 2.2 Difformerrersol 0.016 1.4 Acylamide 0.28 0.28 Chloredthy/imtane 0.056 6.6 Armine 0.021 0.066 2-Chloredthy/imtane 0.056 6.6 Armine 0.024 0.066 m-Creesol 0.77 5.8 Armine 0.025 0.4 Chloredthy/imtane 0.056 1.4'			(mg/l)	(mg/kg)				~ (mg/kg)
Description Construction Construction </td <td></td> <td>BEMANAGED2</td> <td>Constant of the second</td> <td>noted</td> <td></td> <td>BE MANAGED?</td> <td></td> <td>noted</td>		BEMANAGED2	Constant of the second	noted		BE MANAGED?		noted
Acenapthylene 0.069 3.4 Chlore-1.5-bulladies 0.057 0.28' Aceanapthene 0.069 3.4 Chloreelhane 0.27' 15 Acedontifie 5.6 38' bill/2-Chloreethylefter 0.33' 15/2 Acedontifie 0.66 140 Chloreethylefter 0.036' 12/2 Acedontifie 0.28' 140 Chloreethylefter 0.036' 12/2 Acedontifie 0.28' 140 Chloreethylefter 0.066' 12/2 Acedontifie 0.28' 140 Chloreethylefter 0.065' 12/2 Acylanido 19'2 20'2 Chloreethylefter 0.065' 12/2 Acylanidiu 0.28' Chloreethylefter 0.065' 12/2 Actionable 0.056' 0.28' Chloreethylefter 0.056' 6.6' Actionable 0.056' 0.28' Chloreethylefter 0.056' 6.6' Actionable 0.056' 14' 2-Chloreethylefter 0.056' 14' </td <td></td> <td>BEINANCED</td> <td></td> <td>inote d</td> <td></td> <td>PERMIT</td> <td></td> <td></td>		BEINANCED		inote d		PERMIT		
Aceacaptene 0.059 8.4 Chlorodibromorefhane 0.057 15 Acedone 0.28 160 Chlorodibromothane 0.27 8.0 Acetophenone 0.010 37 bis(2-chloroethy/jether 1 0.036 6.0 2.Acetophenone 0.029 140 Chloroffm 1 0.046 6.0 2.Acetophenone 0.029 140 Chloroffm 1 0.046 6.0 Acylonifila 0.24 84 2-Chloroethy/inylether 1 0.045 7.2 Acylonifila 0.021 0.066 12.3 p-Chloroethy/inylether 1 0.055 5.6 Acylonifila 0.021 0.066 12.4 Chloroephtalene 0.056 5.6 5.6 Achinacene 0.066 1.4 3-Chloropphylene 0.036 3.0 Anthracene 0.066 1.4 3-Chloropphylene 0.036 3.0 Anthracene 0.066 N-Cresol 0.11 6.6 1.4'r 1.4'r	Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene	<	- 0.057	0.28'
Acedonitrile 0.28 160 Chloreethane 0.27 6.0 Acedonitrile 5.6 361 bis(2-Chloreethy)methane 0.033 6.0 Acedonitrile 0.059 140 Chloreethy)methane 0.043 6.0 Accolanitile 0.23 NA bis(2-Chloreethy)methane 0.065 7.2 Acylamide 0.19 323 p-Chlorem-receval 0.018 14 Acylamide 0.24 BACohorem-receval 0.018 14 Acylamide 0.24 Chlorenchintalene 0.065 5.6 Aldrin 0.024 Chlorenchintalene 0.065 5.6 Anthracene 0.059 3.4 Chlorenchintalene 0.056 3.6 Anthracene 0.056 3.4 Chlorenchintalene 0.056 3.4 Anthracene 0.056 3.4 Chrosperpylene 0.056 3.4 Aramide 0.36 NA o-Cread 0.17 5.6 Detar(BHC) 0.0071 0.066	Acenapthene		0,059	3.4	Chlorodibromomethane		0.057	15
Acetophenome 6.6 38" big(2-R)rotechoxymethane 0.036 7.2 Acetophenome 0.036 37. big(2-R)rotechoxymethane 0.046 6.0 Acrolein 0.029 NA big(2-R)rotechoxymethane 0.055 7.2 Acylantifie 0.23 NA big(2-R)rotechoxymethane 0.056 7.2 Acylantifie 0.24 84 2-Chlorotechytivplether 0.052 NA* Aldrin 0.021 0.264 84 2-Chlorotechytivplether 0.055 5.6 Arminobleneyl 0.13 NA 2-Chlorotechytivplether 0.056 5.6 Arminobleneyl 0.13 NA 2-Chlorotechytivplether 0.056 5.6 Arminobleneyl 0.36 NA 0-Cresol 0.011 5.6 Arthracene 0.056 3.4 Chrysene 0.056 3.4 Arthracene 0.066 P-Cresol 0.77 5.6 Gelac-GPC/ 0.0024 0.066 P-Cresol 0.77 5.6	Acetone		0.28	160	Chloroethane		0.27	6.0
Acetophenone 0.010 9.7 big(2-chirorectry)/effor 0.033 6.0 Acardeim 0.059 140 Chirorectry)/effor 0.065 7.2 Acylamide 19' 23' p-Chirorectry)/effor 0.063 14 Acylamide 0.24' 24' p-Chirorectry)/effor 0.065' 7.2 Alclanb 0.056' 0.24' Chirorecthyl viryl etter 0.065' NA Alclanb 0.021' 0.066' 2.Chirorecthyl viryl etter 0.065' NA Alclanb 0.021' 0.066' 2.Chirorecthyl etter 0.065' 3.4' Aramite 0.056' 3.4' Chirorectorelenee 0.056' 3.4' Aramite 0.36 NA o-Creacl 0.11' 8.6' aphace(HC) 0.00014' 0.056' m-Creacl 0.77' 8.6' aptace(HC) 0.0014' 0.066' r-Creacl 0.77' 8.6' aparma-(HC) 0.0014' 0.066' r-Creacl 0.07''mg/' 8.0 0	Acetonitrile		5.6	38'	bis(2-Chloroethoxy)methane		0.036	7.2
2-Acetylamindituorene 0.059 140 Chloroform 0.045 6.0 Acrolein 0.23 NA big/2-Chlorolsopropy)ether 0.055 7.2 Acylanitia 0.24 NA big/2-Chlorolsopropy)ether 0.055 7.2 Acylanitia 0.24 2-Chloroethy Wing ther 0.056 0.062 NA Aldrin 0.021 0.066 2-ChloronethaneMethyl chloride 0.055 5.6 Aratina 0.021 0.066 2-Chloronephtylivity ether 0.055 5.6 Anthracene 0.059 3.4 Chrysene 0.036 30 Anthracene 0.059 3.4 Chrysene 0.036 30 Aratina 0.36 NA o-Cresol 0.77 5.6 Beta-GHC) 0.0014 0.066 p-Cresol 0.77 5.6 Bendicarb 0.056' 1.4' p.0'-DDD 0.023 0.087 Bendicarb 0.056' 1.4' p.0'-DDT 0.038 0.087 <t< td=""><td>Acetophenone</td><td></td><td>0.010</td><td>9.7</td><td>bis(2-Chloroethyl)ether</td><td></td><td>0.033</td><td>6.0</td></t<>	Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
Acrolani 0.29 NA bits(2-chlorolsoproyy)ether (0.055 7.2 Acylanida 19' 23' p-Chloro-mcresol 0.018 14 Acylanida 0.24 84 2-Chloroethy (inv) (ether 0.062 NA Aldicarb sulfone 0.056' 0.24' 2-Chloroethy (inv) (ether 0.055 5.6 Adrin 0.051 0.056 2-Chloroethy (inv) (ether 0.055 5.6 A-Amine 0.059 3.4 Chloroethane/Methyl 0.036 30 Anthracene 0.059 3.4 Chrysene 0.058 3.4 Aramile 0.35 NA o-Cresol 0.11 5.6 alpha-(FHC) 0.00014 0.066 m-Cresol 0.77 5.6 gamma-(BHC) 0.0017 0.066 m-Cresol 0.77 5.6 gamma-(BHC) 0.0056' 1.4' op-DDD 0.023 0.067 Bandiocarb 0.966' 1.4' op-DDT 0.038 0.087 Band	2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acylanide 19' 23' p-Chlorom-cresol 0.018 14 Acylonifile 0.24' 84 2.Chloromethy (why ether) 0.062' NA* Aldran 0.056' 0.24' Chloromethane/Methyl 0.19 30 Aldrin 0.021 0.066 2-Chloromethane/Methyl 0.055 5.6 Antinacene 0.059 3.4 Chloromethane/Methyl 0.038 30 Antinacene 0.059 3.4 Chloromethyne 0.056' 5.6 Aramole 0.36 NA o-Cresol 0.11 5.6 Aramole 0.36 NA o-Cresol 0.177 5.6 Aramole 0.36' NA o-Cresol 0.77 5.6 Mataran 0.066' 1.4' o-p'-DDD 0.023 0.087 Barban 0.056' 1.4' o-p'-DDD 0.023 0.087 Benzalohoi 0.056' 1.4' o-p'-DDD 0.023 0.087 Benzalohoi 0.055'	Acrolein	1	0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acrylonitile 0.24 84 2-Chlorosthyl vinyl ether 0.052* NA Aldicarb suttione 0.056* 0.28* Chloromstane/Methyl chloride 0.19 30 Addrin 0.026* 0.28* Chloromaphthalene 0.055 5.6 Annine 0.013 NA 2-Chloronaphthalene 0.036 30 Anthracene 0.059 3.4 Chrysene 0.059 3.4 Aramile 0.36 NA O-Cresol 0.11 5.6 Arathracene 0.066 m-Cresol 0.77 5.6 Deta-(BHC) 0.00014 0.066 m-Cresol 0.77 5.6 Gamma-(BHC) 0.0017 0.066 Cyclohexanone 0.38 0.75 mgl' Bendian 0.056* 1.4* o.pi-DDD 0.023 0.067 Bendian 0.056* 1.4* o.pi-DDF 0.033 0.067 Bendiach/ 0.055 8.0* p.pi-DDF 0.033 0.067 Benza (phintpracene 0.	Acylamide		19'	23'	p-Chloro-m-cresol		0.018	14
Aldcarb sulfone 0.654 ¹ 0.28 ¹ Chloromethane/Methyl chloride 0.19 30 Aldrin 0.021 0.066 2-Chloronsphthalene 0.055 5.6 Aralinobjhenyl 0.13 NA 2-Chlorophenol 0.044 5.7 Anlinacene 0.059 3.4 Chlorophenol 0.058 3.4 Aramia 0.38 NA o-Cresol 0.011 5.6 Aramia 0.36 NA o-Cresol 0.77 5.6 delta-(BHC) 0.00014 0.066 p-Cresol 0.77 5.6 delta-(BHC) 0.0027 0.0666 p-Cresol 0.77 5.6 gamma-(BHC) 0.0027 1.4' o.p-DDD 0.023 0.067 Barban 0.056' 1.4' o.p-DDD 0.023 0.067 Bendocarb 0.056' 1.4' o.p-DDD 0.023 0.067 Benzonkyl 0.056' 1.4' o.p-DDE 0.031 0.067 Benzonkylioranthene* <td< td=""><td>Acrylonitrile</td><td></td><td>0.24</td><td>84</td><td>2-Chloroethyl vinyl ether</td><td> </td><td>0.062'</td><td>NA '</td></td<>	Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.062'	NA '
Adrin 0.021 0.066 2-Chloronaphthalene 0.055 5.6 Araminobjhenyi 0.13 NA 2-Chlorophenol 0.044 5.7 Anlinacene 0.059 3.4 Chrysene 0.059 3.4 Antinacene 0.056 3.4 Chrysene 0.056 3.4 Aramile 0.36 NA c-Cresol 0.11 5.6 alpha-(BHC) 0.00014 0.066 m-Cresol 0.77 5.6 beta-(BHC) 0.0017 0.066 m-Cumenyl methylcarbamate 0.056' 1.4' gamma-(BHC) 0.0051' 1.4' o.p'-DDD 0.023 0.087 Bendiocarb 0.056' 1.4' o.p'-DDD 0.023 0.087 Bendiocarb 0.059' 3.4 o.p'-DDT 0.0031 0.087 Benz(a)nitracene A 0.14 10 p.p'-DDT 0.0031 0.087 Benz(a)nitracene A 0.14 10 p.p'-DDT 0.0031 0.067	Aldicarb sulfone		0.056 ¹	0.28 ¹	Chloromethane/Methyl chloride		0.19	30
4-Aminobiphenyl 0.13 NA 2-Chlorophenol 0.044 5.7 Andinacene 0.059 3.4 Chrysene 0.059 3.4 Aramite 0.059 3.4 Chrysene 0.059 3.4 Aramite 0.061 0.066 m-Cresol 0.11 5.6 blata(BHC) 0.00014 0.066 m-Cresol 0.77 5.6 blata(BHC) 0.00014 0.066 m-Cresol 0.077 5.6 oldta(BHC) 0.023 0.066 m-Cresol 0.056' 1.4' gamma/BHC) 0.0367 1.4' p.p'DDD 0.023 0.067 Bendorsh 0.056' 1.4' p.p'DDE 0.031 0.087 Benzola 0.055' 1.4' p.p'DDT 0.033 0.087 Benzola/biloranthene 0.055' 6.0' p.p'DDT 0.0039 0.087 Benzola/biloranthene* 0.11 6.8 Dibenz(a,l)anthracene 0.065 8.2 Benzola/biloranthene*	Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
Anilina 0.81 14 3-Chloroproylene 0.036 30 Anihracene 0.059 3.4 Chrysene 0.059 3.4 Aramita 0.36 NA o-Cresol 0.111 5.6 alpha (BHC) 0.00014 0.066 m-Cresol 0.77 5.6 bata-(BHC) 0.0014 0.066 m-Cumenyl methylcarbamate 0.056' 1.4' gamma-(BHC) 0.0361 0.066 m-Cumenyl methylcarbamate 0.056' 1.4' gamma-(BHC) 0.056' 1.4' 0.p'DDD 0.023 0.087 Bendocarb 0.056' 1.4' 0.p'DDE 0.031 0.087 Benzane 0.056' 1.4' 0.p'DDE 0.031 0.087 Benzale 0.056' 5.0' p.p'DDT 0.0039 0.087 Benzal(s)anthracene 0.055' 5.0' p.p'DDT 0.0039 0.087 Benzale 0.011 6.8 Dbenz(a,e)pyrene 0.061 NA Benzal(S)fluoranthene	4-Aminobiphenyl		0,13	NA	2-Chlorophenol		0.044	5.7
Anthracene 0.059 3.4 Chrysene 0.059 3.4 Aramite 0.36 NA o-Cresol 0.11 5.6 alphe.(BHC) 0.00014 0.066 m-Cresol 0.77 5.6 beta-(BHC) 0.023 0.066 m-Cumenyl methylcarbamate 0.056 ¹ 1.4" garma-(BHC) 0.026 1.4" o.p-DDD 0.023 0.067 Bendlocarb 0.056 ¹ 1.4" o.p-DDD 0.023 0.087 Benornyl 0.056 ¹ 1.4" o.p-DDE 0.031 0.087 Benzene A 0.14 10 p.p'-DDE 0.031 0.087 Benzela, anthracene 0.056 ¹ 1.4" o.p'-DDT 0.039 0.067 Benzela, anthracene 0.055 ¹ 3.4 o.p'-DDT 0.039 0.067 Benzo (Spluroanthene ^a 0.11 6.8 Dibenz(a, h)anthracene 0.0661 NA Benzo (Spluroanthene ^a 0.11 6.8 Dibenzon(a, h)anthracene 0.0671 <td< td=""><td>Anlline</td><td></td><td>0.81</td><td>14</td><td>3-Chloropropylene</td><td></td><td>0.036</td><td>30</td></td<>	Anlline		0.81	14	3-Chloropropylene		0.036	30
Aramite 0.36 NA o-Cresol 0.11 5.6 alpha-(BHC) 0.0014 0.066 m-Cresol 0.77 5.6 beta-(BHC) 0.0014 0.066 m-Cumenyl methylcarbamate 0.055 ¹ 1.4' garma-(BHC) 0.0017 0.066 Crycinexanone 0.067 5.6 Barban 0.056 ¹ 1.4' 0.p ² -DDD 0.023 0.087 Bendiocarb 0.056 ¹ 1.4' 0.p ² -DDD 0.023 0.087 Benzon 0.066 ¹ 1.4' 0.p ² -DDD 0.031 0.087 Benzon 0.056 ¹ 1.4' 0.p ² -DDT 0.031 0.087 Benzon 0.066 ¹ 1.4' 0.p ² -DDT 0.0039 0.067 Benzol(Shiuronthene ^a 0.11 6.8 Dibenz(a,hanthracene 0.065 8.2 Benzol(Shiuronthene ^a 0.11 6.8 Dibenz(a,hanthracene 0.061 NA Benzol(Shiuronthene ^a 0.11 15.8 Dibenz(a,hanthracene 0.061 NA	Anthracene		0.059	3.4	Chrysene		0.059	3.4
alpha.(BHC) 0.00014 0.066 m-Cresol 0.77 5.6 delta-(BHC) 0.0014 0.066 m-Currenyl methylcarbamate 0.056' 1.4' garma.(BHC) 0.005' 1.4' 0.p'-DDD 0.023 0.067 Barban 0.056' 1.4' 0.p'-DDD 0.023 0.087 Bendiocarb 0.056' 1.4' 0.p'-DDE 0.031 0.087 Benomyl 0.055' 1.4' 0.p'-DDE 0.031 0.087 Benzene A 0.14 10 p.p'-DDE 0.031 0.087 Benzal chloride 0.055' 6.0' p.p'-DDT 0.0039 0.087 Benzal (chloride 0.055' 6.0' p.p'-DDT 0.0039 0.087 Benzal (chloride rathtene* 0.11 6.8 Dibenz(a,h)anthracene 0.061 NA Benzal (chloride rathtene* 0.11 6.8 Dibernomethane 0.11 15 Benzal (chloride rathtene* 0.11 6.8 Dibernomethane 0.11	Aramite		0.36	NA	o-Cresol		0.11	5.6
beta-(BHC) 0.00014 0.0066 p-Cresol 0.77 5.6 delta-(BHC) 0.023 0.066 m-Cumenyl methylcarbamate 0.056 ¹ 1.4 ¹ gamma-(BHC) 0.056 ¹ 1.4 ¹ 0.p ² -DDD 0.052 ¹ 1.4 ¹ Barban 0.056 ¹ 1.4 ¹ 0.p ² -DDD 0.023 0.067 Benoroyi 0.056 ¹ 1.4 ¹ 0.p ² -DDE 0.031 0.067 Benzene A 0.14 10 p.P ² -DDE 0.031 0.067 Benz(a)anthracene 0.055 ¹ 6.0 ¹ p.P ² -DDT 0.0039 0.087 Benz(a)anthracene 0.055 ¹ 6.0 ¹ p.P ² -DDT 0.0039 0.087 Benz(a)(pluranthene ^a 0.11 6.8 Dibenz(a,h)anthracene 0.061 NA Benzo(b)(puranthene ^a 0.11 6.8 Dibenz(a,h)anthracene 0.061 NA Benzo(a)(puranthene ^a 0.11 6.8 Dibenz(a,h)anthracene 0.11 15 Benzo(a)(purene 0.061 3.4	alpha-(BHC)	•	0.00014	0.066	m-Cresol		0.77	5.6
delta-(BHC) 0.023 0.066 m-Cumenyl methylcarbamate 0.056 ¹ 1.4 ¹ Barban 0.056 ¹ 1.4 ¹ 0.p ² -DDD 0.023 0.087 Bendiocarb 0.056 ¹ 1.4 ¹ 0.p ² -DDD 0.023 0.087 Benomyl 0.056 ¹ 1.4 ¹ 0.p ² -DDE 0.031 0.087 Benomyl 0.056 ¹ 1.4 ¹ 0.p ² -DDE 0.031 0.087 Benzene A 0.14 10 p.p ² -DDE 0.031 0.087 Benzelohoride 0.055 ¹ 6.0 ¹ p.p ² -DDT 0.0039 0.087 Benzo(biluoranthene ³ 0.11 6.8 Dibenz(a.p)prene 0.065 8.2 Benzo(biluoranthene ³ 0.11 6.8 Dibenz(a.p)prene 0.061 NA Benzo (a, h, her her her dibromide 0.055 1.8 1,2-Dibromos-cheropropane 0.11 15 Berzo (a, h, her her dibromide 0.055 1.5 O-Dichiorobenzene 0.068 6.0 Bromodichioromethane 0.35 <td< td=""><td>beta-(BHC)</td><td></td><td>0.00014</td><td>0.066</td><td>p-Cresol</td><td></td><td>0.77</td><td>5.6</td></td<>	beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
garma-(BHC) 0.0017 0.066 Cyclohexanone 0.36 0.75 mg/l Barban 0.056 ³ 1.4 ¹ o.p ¹ -DDD 0.023 0.087 Bendlocarb 0.056 ³ 1.4 ¹ o.p ¹ -DDD 0.023 0.087 Benomyl 0.056 ³ 1.4 ¹ o.p ¹ -DDE 0.031 0.087 Benzene A 0.14 10 p.p ¹ -DDE 0.031 0.087 Benzalchoide 0.065 ¹ 6.1 ¹ 0.p ¹ -DDT 0.0039 0.087 Benzo(b)fluoranthene ³ 0.11 6.8 Dibenz(a,h)anthracene 0.051 8.2 Benzo(c)fluoranthene ³ 0.11 6.8 Dibenz(a,p)gyrene 0.061 NA Benzo(a)pyrene 0.061 3.4 Ettylene dibromide 0.023 15 Bromodichloromethane 0.35 15 Dibromoethane/ 0.031 15 Bromodichloromethane 0.35 15 Dibromoethane 0.36 6.0 Bromide 0.042 ¹ 1.4 ¹ Dichlorobenzene	delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate		0.0561	1.41
Barban 0.056 ¹ 1.4 ¹ 0.p ¹ -DDD 0.023 0.087 Bendlocarb 0.056 ¹ 1.4 ¹ 0.p ¹ -DDD 0.023 0.087 Benzon A 0.14 10 p.p ¹ -DDE 0.031 0.087 Benzene A 0.14 10 p.p ¹ -DDE 0.033 0.087 Benzal chloride 0.055 3.4 0,p ¹ -DDT 0.0039 0.087 Benzal chloride 0.055 ¹ 6.0 ¹ p.p ¹ -DDT 0.0039 0.087 Benzo (G)(huranthene ³ 0.11 6.8 Dibenz(a,h)anthracene 0.0661 NA Benzo (g,h,l)perylene 0.061 3.4 1,2-Dibromos-chloropropane 0.111 15 Berodo(B)(ruoranthene ⁴) 0.061 3.4 1,2-Dibromos-chloropropane 0.011 15 Berodo(B)(ruoranthene 0.055 15 Dibromomethane 0.028 15 Bromodichloromethane 0.055 15 o-Dichlorobenzene 0.036 6.0 Horomophenyl phenyl ether 0.055	gamma-(BHC)		0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l ¹
Bendiocarb 0.056' 1.4' p.p'-DDD 0.023 0.087 Benomyl 0.056' 1.4' o.p'-DDE 0.031 0.087 Benzene A 0.14 10 p.p'-DDE 0.033 0.087 Benzene 0.059' 3.4 o.p'-DDT 0.0039 0.087 Benzelchorde 0.055' 6.0' p.p'-DDT 0.0039 0.087 Benzelchorde 0.055' 1.8 1.2-Dibromos-chiorpopane 0.011 15 Benzo(Qifluoranthene* 0.011 6.8 Dibenz(a,h)anthracene 0.061 NA Benzo(Qi,h)perylene 0.0055 1.8 1,2-Dibromos-chiorpopane 0.111 15 Benzo(a)pyrene 0.061 3.4 1,2-Dibromos-chiorpopane 0.111 15 Bromodichoromethane 0.35 15 Dibromos-chiorpopane 0.111 15 Bromodichoromethane 0.35 15 o-Dichlorobenzene 0.036 6.0 Hormos-chiorophenyl phenyl ether 0.042' 1.4' Dichorod	Barban		0.0561	1.41	o,p'-DDD		0.023	0.087
Benomyl 0.056 ³ 1.4 ¹ 0.pP-DDE 0.031 0.087 Benzene A 0.14 10 p.pP-DDE 0.031 0.087 Benzal chloride 0.059 3.4 o.pP-DDT 0.0039 0.087 Benzal chloride 0.055 ¹ 6.0 ⁴ p.pP-DDT 0.0059 0.087 Benzolk/luoranthene ⁴ 0.11 6.8 Dibenz(a,h)anthracene 0.055 8.2 Benzolk/luoranthene ⁴ 0.11 6.8 Dibenz(a,e)pyrene 0.061 NA Benzolk/luoranthene ⁴ 0.061 3.4 1,2-Dibromomethane 0.028 15 Bromodichloromethane 0.35 15 Dibromomethane 0.028 15 Bromodichloromethane 0.355 15 Dibromomethane 0.036 6.0 Hormodichloromethane 0.055 15 o-Dichlorobenzene 0.088 6.0 Bromodichloromethane 0.055 1.4 ^a Dichlorobenzene 0.080 6.0 Bromodichloromethane 0.055 1.5 <	Bendiocarb		0.056 ¹	1.41	p,p'-DDD		0.023	0.087
Benzene A 0.14 10 p.p-DDE 0.031 0.067 Benz(a)anthracene 0.069 3.4 o,p'-DDT 0.0039 0.087 Benza (choride 0.065 ¹ 6.0 ¹ p.p'-DDT 0.0039 0.087 Benza (choride 0.065 ¹ 6.0 ¹ p.p'-DDT 0.0039 0.087 Benza (choride 0.011 6.8 Dibenz(a, e)pyrene 0.061 NA Benzo (a),h)perylene 0.0061 3.4 1,2-Dibromo-3-chloropropane 0.011 15 Benzo (a),h)perylene 0.061 3.4 1,2-Dibromo-3-chloropropane 0.011 15 Bromodichloromethane 0.035 15 Dibromomethane/ 0.028 15 Bromodichloromethane 0.355 15 Dibromomethane 0.036 6.0 4-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichloromethane 0.23 7.2 Butyl benzyl phthalate 0.042 ¹	Benomyl		0.056'	1.41	o,p'-DDE		0.031	0.087
Benza(a)anthracene 0.059 3.4 0.pP-DDT 0.0039 0.087 Benza (chloride 0.055' 6.0' p.p'-DDT 0.0039 0.087 Benza (chloride 0.011 6.8 Dibenz(a,h)anthracene 0.055 8.2 Benzo (chluoranthene* 0.11 6.8 Dibenz(a,e)pyrene 0.061 NA Benzo (chluoranthene* 0.011 6.8 Dibenz(a,e)pyrene 0.061 NA Benzo (chluoranthene* 0.061 3.4 1,2-Dibromo-3-chloropropane 0.11 15 Benzo (a)pyrene 0.061 3.4 1,2-Dibromomethane/ 0.028 15 Bromothane/Methyl 0.11 15 m-Dichlorobenzene 0.036 6.0 Bromide 0.11 15 m-Dichlorobenzene 0.088 6.0 -Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.088 6.0 Butyl benzyl phthalate 0.042 ¹ 1.4 ¹ Dichloroethane 0.23 7.2 Butyl benzyl phthalate 0.066 ¹ 1.4 ¹	Benzene	A	0.14	10	p,p'-DDE		0.031	0.087
Benzal chloride 0.055 ¹ 6.0 ¹ p.P-DT 0.039 0.037 Benzo(b)fluoranthene ³ 0.11 6.8 Dibenz(a,h)anthracene 0.055 8.2 Benzo(k)fluoranthene ³ 0.11 6.8 Dibenz(a,e)pyrene 0.061 NA Benzo(k)fluoranthene ³ 0.001 8.4 1.2-Dibromo-3-chloropropane 0.11 15 Benzo(k)fluoranthene ³ 0.061 3.4 1.2-Dibromo-3-chloropropane 0.11 15 Benzo(k)fluoranthene 0.061 3.4 1.2-Dibromo-s-chloropropane 0.11 15 Bromodichloromethane 0.35 15 Dibromosthane 0.11 15 Bromodehane/Methyl 0.11 15 m-Dichlorobenzene 0.036 6.0 Bromodehane/Methyl 0.011 15 o-Dichlorobenzene 0.088 6.0 N-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.059 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichloroethane 0.23 7.2 Butylate 0.066 <	Benz(a)anthracene		0.059	3.4	o,p'-DDT		0,0039	0.087
Benzo(b)fluoranthene ³ 0.11 6.8 Dibenz(a,h)anthracene 0.055 8.2 Benzo(k)fluoranthene ³ 0.11 6.8 Dibenz(a,e)pyrene 0.061 NA Benzo (g,h,i)perylene 0.001 3.4 1,2-Dibromomethane/ Ethylene dibromide 0.011 15 Benzo (a)pyrene 0.061 3.4 1,2-Dibromomethane/ Ethylene dibromide 0.028 15 Bromodichloromethane 0.35 15 Dibromomethane/ Ethylene dibromide 0.011 15 Bromodichloromethane 0.35 15 o-Dichlorobenzene 0.036 6.0 Herronphenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 Patyl alcohol 5.6 2.6 p-Dichlorobenzene 0.035 6.0 Butyl benzyl phthalate 0.042' 1.4' Dichlorodifluoromethane 0.23 7.2 Butyl benzyl phthalate 0.066' 2.5 1,2-Dichloroethane 0.21 6.0 Carbon divide 0.066' 1.4' trans-1,2-Dichloroethylene 0.054 30	Benzal chloride		0.0551	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(k)fluoranthene ³ 0.11 6.8 Dibenz(a,e)pyrene 0.061 NA Benzo (g,h,i)perylene 0.0055 1.8 1,2-Dibromo-3-chloropropane 0.11 15 Benzo(a)pyrene 0.061 3.4 1,2-Dibromo-3-chloropropane 0.028 15 Bromodichloromethane 0.35 15 Dibromomethane/ 0.011 15 Bromodichloromethane/Methyl 0.11 15 m-Dichlorobenzene 0.036 6.0 Bromothane/Methyl 0.11 15 m-Dichlorobenzene 0.038 6.0 Bromothane/Methyl 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.089 6.0 Butylate 0.042 ¹ 1.4 ⁴ Dichlorobenzene 0.23 7.2 Butylate 0.042 ¹ 1.4 ⁴ Dichlorobenzene 0.23 7.2 Butylate 0.017 28 1,1-Dichloroethane 0.21 6.0 Carbaryl 0.066 ¹ 0.14 ¹ <td< td=""><td>Benzo(b)fluoranthene³</td><td></td><td>0.11</td><td>6,8</td><td>Dibenz(a,h)anthracene</td><td></td><td>0.055</td><td>8.2</td></td<>	Benzo(b)fluoranthene ³		0.11	6,8	Dibenz(a,h)anthracene		0.055	8.2
Benzo (g,h.l)perylene 0.0055 1.8 1.2-Dibromo-3-chloropropane 0.11 15 Benzo (a) pyrene 0.061 3.4 1,2-Dibromo-3-chloropropane 0.028 15 Bromodichloromethane 0.35 15 Dibromomethane 0.11 15 Bromodichloromethane 0.35 15 Dibromomethane 0.11 15 Bromodie 0.11 15 m-Dichlorobenzene 0.036 6.0 4-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 A-Bromophenyl phenyl ether 0.042 ¹ 1.4 ¹ Dichlorodifluoromethane 0.23 7.2 Butylate 0.042 ¹ 1.4 ¹ Dichlorodifluoromethane 0.23 7.2 Butylate 0.017 28 1,1-Dichloroethane 0.025 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carboryl 0.006 ¹ 1.4 ¹ trans-1,2-Dichloroethylene 0.054 30 Carboryl 0.006 ¹	Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo(a)pyrene 0.061 3.4 1,2-Dibromomethane/ Ethylene dibromide 0.028 15 Bromodichloromethane 0.35 15 Dibromomethane 0.11 15 Bromodichloromethane/Methyl Bromide 0.11 15 Dibromomethane 0.036 6.0 A-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorobenzene 0.059 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorobenzene 0.028 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorobenzene 0.23 7.2 Butylate 0.066 2.5 1,2-Dichloroethane 0.025 6.0 Carbon 0.066 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbonuran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbofuran 0.005 ¹ 1.4 ¹	Benzo (g,h,i)perylene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
Bromodichloromethane 0.35 15 Dibromomethane 0.11 15 Bromomethane/Methyl 0.11 15 m-Dichlorobenzene 0.036 6.0 Bromoide 0.011 15 m-Dichlorobenzene 0.036 6.0 A-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butyl benzyl phthalate 0.042' 1.4' Dichlorodifluoromethane 0.23 7.2 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.059 6.0 S-sec-Butyl-4,6- 0.066' 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006' 0.14' 1,1-Dichloroethylene 0.025 6.0 Carbonuran 0.006' 0.14' 1,2-Dichlorophenol 0.044 14 Carbonuran 0.006' 0.14' 2,4-Dichlorophenol 0.044 14 Carbonuran 0.005' 1.4' 2,6-Di	Benzo(a)pyrene		0.061	3.4	1,2-Dibromomethane/ Ethylene dibromide		0.028	15
Bromomethane/Methyl Bromide 0.11 15 m-Dichlorobenzene 0.036 6.0 4-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorobenzene 0.059 6.0 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.025 6.0 Carbaryl 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carboruan 0.006 ¹ 0.14 ¹ 1,2-Dichloroethylene 0.025 6.0 Carboruan 0.006 ¹ 1.4 ¹ trans-1,2-Dichlorophenol 0.044 14 Carboruan phenol 0.056 ¹ 1.4 ¹ 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carboru disulfide 3.8	Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromide 0.11 13 In-Dichlorobenzene 0.035 5.0 4-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorodifluoromethane 0.23 7.2 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.059 6.0 2-sec-Butyl-4,6- 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carboryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carboryl 0.006 ¹ 0.14 ¹ 1,2-Dichloroethylene 0.025 6.0 Carboruran 0.006 ¹ 0.14 ¹ 1,2-Dichloropthylene 0.025 6.0 Carboruran 0.005 ¹ 1.4 ¹ 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP ¹ <	Bromomethane/Methyl		0.14	15	m Dichlerebenzene		0.026	6.0
4-Bromophenyl phenyl ether 0.055 15 o-Dichlorobenzene 0.088 6.0 n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butyl alcohol 0.042' 1.4' Dichlorobenzene 0.23 7.2 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.23 6.0 S-sec-Butyl-4,6- 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006' 0.14' 1,1-Dichloroethylene 0.025 6.0 Carbaryl 0.006' 0.14' 1,1-Dichloroethylene 0.025 6.0 Carbondium 0.056' 1.4' trans-1,2-Dichloroethylene 0.025 6.0 Carbondran 0.056' 1.4' trans-1,2-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l 2,4-Dichlorophenol 0.044 14 Carbon disulfide 0.057 6.0 1,2-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.028'	Bromide		0.11	15			0.030	0.0
n-Butyl alcohol 5.6 2.6 p-Dichlorobenzene 0.090 6.0 Butylate 0.042 ¹ 1.4 ¹ Dichlorodifluoromethane 0.23 7.2 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.059 6.0 2-sec-Butyl-4,6- dinitrophenol/Dinoseb 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbonzadim 0.056 ¹ 1.4 ¹ trans-1,2-Dichloroethylene 0.054 30 Carbonduran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbonduran 0.005 ¹ 1.4 ¹ 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP ¹ 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropane 0.85 18 C	4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
Butylate 0.042' 1.4' Dichlorodifluoromethane 0.23 7.2 Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.059 6.0 2-sec-Butyl-4,6- dinitrophenol/Dinoseb 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbanyl 0.006' 0.14' 1,1-Dichloroethylene 0.025 6.0 Carbanyl 0.006' 0.14' 1,1-Dichloroethylene 0.025 6.0 Carbonzadim 0.056' 1.4' trans-1,2-Dichloroethylene 0.025 6.0 Carbonzadim 0.056' 1.4' trans-1,2-Dichloroethylene 0.054 30 Carbondisulfide 0.056' 1.4' 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP' 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbosulfan 0.028' 1.4' cis-1,3-Dichloropropane 0.85 18 Carbosulfan 0.028' 1.4' cis-1,3-Dichloropropylene 0.036 18 Chlorodane (alpha and	n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butyl benzyl phthalate 0.017 28 1,1-Dichloroethane 0.059 6.0 2-sec-Butyl-4,6- dinitrophenol/Dinoseb 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbonzadim 0.056 ¹ 1.4 ¹ trans-1,2-Dichloroethylene 0.054 30 Carbofuran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP ¹ 2,4-Dichlorophenoyzacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.046 16 Dieldrin 0.017 0.13 Chloroanilline 0.057 6.0 Dieldrin 0.017 0.13	Butylate		0.042'	1.4'	Dichlorodifluoromethane		0.23	7.2
2-sec-Butyl-4,6- dinitrophenol/Dinoseb 0.066 2.5 1,2-Dichloroethane 0.21 6.0 Carbaryl 0.006 ³ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbenzadim 0.056 ¹ 1.4 ¹ trans-1,2-Dichloroethylene 0.054 30 Carbofuran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbofuran phenol 0.056 ¹ 1.4 ¹ 2,4-Dichlorophenol 0.044 14 Carbofuran phenol 0.056 ¹ 1.4 ¹ 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l 2,4-Dichlorophenol 0.72 10 Carbon disulfide 3.8 TCLP ¹ 2,4-Dichlorophenol 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18	Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
Carbaryl 0.006 ¹ 0.14 ¹ 1,1-Dichloroethylene 0.025 6.0 Carbenzadim 0.056 ¹ 1.4 ¹ trans-1,2-Dichloroethylene 0.054 30 Carbofuran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbofuran phenol 0.056 ¹ 1.4 ¹ 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l 2,4-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l 2,4-Dichlorophenolyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 P-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	2-sec-Butyl-4,6- dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Carbaryl		0.0061	0.141	1,1-Dichloroethylene		0.025	6.0
Carbofuran 0.006 ¹ 0.14 ¹ 2,4-Dichlorophenol 0.044 14 Carbofuran phenol 0.056 ¹ 1.4 ¹ 2.6-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP ¹ 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 P-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbenzadim		0.056 ¹	1.41	trans-1,2-Dichloroethylene		0.054	30
Carbofuran phenol 0.056 ¹ 1.4 ¹ 2.6-Dichlorophenol 0.044 14 Carbon disulfide 3.8 4.8 mg/l TCLP ¹ 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbofuran		0.0061	0.141	2,4-Dichlorophenol		0.044	14
Carbon disulfide 3.8 4.8 mg/l TCLP1 2,4-Dichlorophenoxyacetic acid/2,4-D 0.72 10 Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbofuran phenol		0.056 ¹	1.41	2.6-Dichlorophenol		0.044	14
Carbon tetrachloride 0.057 6.0 1,2-Dichloropropane 0.85 18 Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbosulfan 0.028 ¹ 1.4 ¹ cis-1,3-Dichloropropylene 0.036 18 Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane	1	0.85	18
Chlordane (alpha and gamma isomers) 0.0033 0.26 trans-1,3-Dichloropropylene 0.036 18 p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Carbosulfan		0.028 ¹	1.41	cis-1,3-Dichloropropylene		0.036	18
p-Chloroaniline 0.46 16 Dieldrin 0.017 0.13 Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	Chlordane (alpha and gamma isomers)		0.0033	0.26	trans-1,3-Dichloropropylene		0.036	18
Chlorobenzene 0.057 6.0 Diethyl phthalate 0.20 28	p-Chloroaniline		0.46	16	Dieldrin	1	0.017	0.13
	Chlorobenzene		0.057	6.0	Diethyl phthalate	K>	0.20	28

Form B1 Page 1 of 3

CONSTITUENT	Нои	/ MUS	T. 2. I	ww.	NWW	CONSTITUENT	HOW MUST	ww	NWW
		CTIT	IENT	' (mg/l)	(mg/kg)		THIS	(mg/l)	(mg/kg)
	BEN	IANA	GED?		noted		BEMANAGED?		noted
Chlorobenzilate				0.10	NA	p-Dimethylaminoazobenzene	a chronic son de relation de la companya de la companya de la companya de la companya de la companya de la comp	0.131	NA
2,4-Dimethyl phenol				0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate				0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate				0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene	ļ			0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol	+			0.28	160	Methyl methansulfonate		0.018	INA I I I
2,4-Dinitrophenol	+	·		0.12	140	Motologrh		0.014	4.0
2.4-Dinitrotoluene	1			0.52	28	Mexacarbate		0.056	1.4
	+			0.00	28	Molinate		0.030	14
Di-n-propyInitrosamine		_		0.40	14	Naphthalene		0.059	5.6
1.4-Dioxane	1	<u></u>		12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³	1			0,92	131	o-Nitroaniline		0.271	14
DiphenyInitrosamine ³	1	**************************************		0.92	131	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine				0.087	NA	Nitrobenzene		0.068	14
Disulfoton	1			0.017	6.2	5-Nitro-o-toluidine		0.32	-28
Dithiocarbamates (total)				0.028	28'	o-Nitrophenol		0.0281	13'
Endosulfan I	ļ			0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II	ļ	<u> </u>		0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosultan sulfate	<u> </u>			0.029	0.13	N-Nitrosodimethylamine		0.40	2,3'
Endrin aldobydo			- <u> </u>	0.0028	0.13	N-Nitrosomethylethylemine		0.40	11
		<u></u>	1	0.025	1 41	N-Nitrosomorpholine		0.40	23
Ethyl acetate			1	0.042	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene	1			0.057	110	N-Nitrosopyrrolidine		0.013	35
Ethyl cvanide/Propanenitrile	<u> </u>			0.24	360	Oxamyl		0.0561	0.281
Ethyl ether	<u> </u>			0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate		1		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	0.10	10
Ethyl methacrylate		-+		0.14	160	Pebulate	·······	0.0421	1.41
Ethylene oxide				0,12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur				0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene		Τ		0.068	3L.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene		<u> </u>		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride				0.0561	1.4'	Pentachloronitrobenzene		0.055	4.8 .
Heptachlor				0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide				0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene		1		0.055	10	Phenalthrene		0.059	5,6
Hexachioroputadiene		1		0.055	0,0	Phenol		0.039	0.2
				0.057	2.4	Filotale		0.021	4.0
Hexachrorodibenzo-p-dioxins)				0.000063	0.001	Phthalic acid		0.055 ¹	28 ¹
Hexachlorodibenzofurans)				0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachioroetnane				0.000	30	Physostigmine	·····	0.056	1.4
Indepo(1.2.3-c.d)pyrene		~~~~~		0.035	34	Promecarb		0.050	1.4
Indomethane				0.19	65	Pronamide		0.000	1.4
Isobutyl alcohol				5.6	170	Propham		0.0561	1.41
Isodrin	-+			0.021	0.066	Propoxur		0.0561	1.4
Isosafrole				0.081	2.6	Prosulfocarb		0.0421	1.41
Kepone				0.0011	0.13	Pyrene		0,067	8.2
Methacrylonitrile				0,24	84	Pyridine		0.014	16
Methanol				5,6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene				0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb Methomyl				0.056 ¹	1.4' 0.14 ¹	1,2,4,5-Tetrachlorobenzene TCDDs (All		0.055	14
Methoxychlor				0.25	0.18	Tetrachlorodibenzo-p-dioxins) TCDFs (All		0.000063	0.001
	 			0.0055	45	I etrachlorodibenzo-furans)		0.057	
3-iviethylcholanthrene	<u> </u>	·		0.0055	10	1,1,1,2-1 etrachioroethane		0.057	ь,0
chloroaniline)	Ľ		\rightarrow	0.50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

Form B1 Page 2 of 3 . ..

CONSTITUENT	HOW MUST	WW (mg/l)	NWW (mg/kg)	CONSTITUENT	HOW MUST	WW (mg/l)	NWW (mg/kg)
	GONSTITUENT BE MANAGED?		unless	Contract of the second seco	CONSTITUENT BE MANAGED?		unless
Tetrachloroethylene	<	0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol	1	0.030	7.4	Antimony		1.9	2.1 mg/l TCI P
Thiodicarb	1	0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0561	1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene		0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate		0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform		0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		0.055	19	Cadmium	A	0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane		0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP ⁴
Trichloroethylene		0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane		0.020	30	Cyanides (Amenable)		0.86	30 ¹
2,4,5-Trichlorophenol		0.18	7.4	Fluoride		35	NA⁴
2,4,6-Trichlorophenol		0.035	7.4	Lead	А	0.69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T		0.72	7,9	Lead		0.69	0.75 mg/l⁴ TCLP
1,2,3-Trichloropropane		0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2- trifluoroethane		0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine		0.0811	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate		0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP ⁴
Vernolate		0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride		0.27	6.0	Selenium		0.82	5.7 mg/l TCLP ⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene	\swarrow	0.32	30	Silver		0.43	0.30 mg/l TCLP
·				Silver		0.43	0.14 mg/l TCLP ⁴
				Sulfide		14	NA ²
				Thallium		1.4	0.078 mg/l TCLP ¹
	B.			Thallium		1.4	0.20 mg/l TCLP⁴
				Vanadium		4.3 ²	1.6 mg/l TCLP ²
4			>	Zinc	А	2.61	4.3 mg/l TCLP ²

 ¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.
 ² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.
 ³ These compounds are regulated by the sum of their concentration instead of as individual constituents.
 ⁴ These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.

adoption by the state.
 Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

Form B1 Page 3 of 3

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PAD-WD-0868-R1

RFD Number	WID Number	RCRA	UHC
1. 121121	121121-03		Zn Pb
2, 121162	121162-01	D018 benzene	Cd Pb Zn
		D039	
		tetrachloroethene	
3. 121162	121162-02	D018 benzene	Cd Pb Zn
		. D039	
		tetrachloroethene	
4. 121162	121162-03	D018 benzene	Cd Pb Zn
		D039	
		tetrachloroethene	
5. 121241	121241-01	D022 Chloroform	Zn
		D039 tetrachloroethene	
6. 121241	121241-02	D022 Chloroform	Zn
		D039 tetrachloroethene	
7. 121241	121241-03	D022 Chloroform	Zn
		D039 tetrachloroethene	
8. 121241	121241-04	D022 Chloroform	Zn
		D039 tetrachloroethene	
9, 121292	121292-01		Zn
10. 121295	121295-01	D008 Lead	Cd Zn
		D018 Benzene	
		D039 Tetrachloroethene	
11, 121295 [°]	121295-02	D008 Lead	Cd Zn
		D018 Benzene	
		D039 Tetrachloroethene	
12. 121295	121295-03	D008 Lead	Cd Zn
		D018 Benzene	
		D039 Tetrachloroethene	
13, 121458	121458-01	D018 Benzene	Pb Zn
		D039 Tetrachloroethene	
14. 121458	121458-02	D018 Benzene	Pb Zn
	·	D039 Tetrachloroethene	
15. 121458	121458-03	D018 Benzene	Pb Zn
		D039 Tetrachloroethene	
16. 121460	121460-01	D018 Benzene	Zn
17. 121461	121461-01	D008 Lead	Cd Zn
18. 125150	125150-01		Benzene, PCBs
19. 125150	125150-02		Benzene, PCBs

	Shipment # !	DSSI	-18-104
12.00			

(21169-03, 12/296-02) See Attachment LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	US Department of Energy (Paducah Site)	_ Manifest Doc. No. :	006841953JJK
Profile No.:		State Manifest No.:	NA

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🛛 Wastewater 🗌

Containers

2. Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

PFF #	3. US EPA	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	IONE.	5. HOW MUST THE WASTE BE MANAGED?
	WASTE CODE(S)	DESCRIPTION	NONE	ENTER LETTER FROM BELOW
1	D008	Lead	\square	A
2	D018	Benzene	\square	А
3	D039	Tetrachloroethene	\square	А
4	D022	Chloroform	\square	А

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here If no UHCs are present in the waste upon its initial generation check here:

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

Α.	RESTRICTED WASTE REQUIRES TREATMENT
	This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.
	For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
B.1	RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS
	"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this
	certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and
	maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are
	significant penalties for submitting a false certification, including the possibility of fine and imprisonment."
B.3	GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS
	"I certify under penaity of law that I have personally examined and am ramiliar with the treatment technology and operation of the treatment process used to support this certify under penaity of law that I have personally examined and am ramiliar with the treatment process used to support this certify under penaity of law that I have personally examined and am ramiliar with the treatment process used to support this certify under penaity of law that I have personally examined and am ramiliar with the treatment process used to support this certify under penaity of law that I have personally examined and am ramiliar with the treatment technology and operation of the treatment process used to support this certify under penaity of law that the treatment penaity of the treatment technology and operation of the treatment process used to support this certify under penaity of law that the treatment penaity of the treatment technology and operation of the treatment process used to support this certify under the treatment penaity of the treatment technology and operation of the treatment process used to support this certify under the treatment penaity of the treatment penaity of the treatment technology and operation of the treatment penaity of the trea
	certaincation. Based upon my inquity or mose monotonas minimeduately responsible for obtaining this minimatori, i beneve that the nonwastewater organic constituents have
	been treated by comparison in times as specified in 200.42 ratie it. They been unable to detect the normalized provide and in a specification including the possibility of fine and impriconment."
R 4	ends to analyze for sourcements - rain water for significant pointaites for submitting a raise contractant, including the possibility of the and imprisorment.
D .4	"I certify under benalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This
	decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties
	for submitting a false certification, including the possibility of fine and imprisonment."
C.	RESTRICTED WASTE SUBJECT TO A VARIANCE
	This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above.
	For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."
D.	RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT
	"I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this
	certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. T believe that the information I submitted is true, accurate and complete.
E	Tain aware that there are significant penalties to submitting a raise centrication, including the possibility of line of imprisonment, was see the significant penalties for submitting a raise centrication, including the possibility of line of imprisonment,
L.,	This waste is a newly identified waste that is not currently subject to any 40 CER Part 268 restrictions
I hereby	certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.
•	I I LA

Signature Aoni Stal	Title	Waste Engineer	Date_	8/23/18
			-	

Form A1 Page 1 of 2

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

SOLVENT WASTETREATMENT STANDARDS						
Foot phrough Foot spent solvent, constituents and their associated.	Treatm	ent Standard	E001-through E005 spent - solvent constituents and their - associated USEPA hazardous	TreatmentStand	larc	
USEPA hazardous waste code(s).	- Wastewaters -	Nonwastewaters	waste code(s)	Wastewaters	Nonwastewaters	
Acetone (F003)	0,28	160	Methanol (F003)	5.6	0.75 (TCLP) ³	
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30	
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36	
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33	
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14	
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN	
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16	
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	6.0	
Cyclohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10	
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0	
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0	
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0	
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30	
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30	
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30	

¹ All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

² For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

³ These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) - Greater than or equal to 10% total organic carbon.

D002;

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Form A1 Page 2 of 2

Containers		
12/169-9	121296-02	Q
See Attem	ment	

Shipment A	F.′	DSSI	-18	-10Y

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	006841953JSK
Profile No.:		State Manifest No.:	NIA

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself IS NOT an acceptable Land Disposal Notification and Certification Form.

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 not have a subcategory.). Also identify in column o now the wasternise so managed, epone constituent as increasing a constituent (s) and underlying hazardous constituent (s) if applicable, must be listed and attached.

	3. US EPA	A SUBCATEGORY	NO	NE.	5 HOW MUST THE WASTE
REF#	WASTE CODE(S)	DESCRIPTION	S NC	ONE	LETTER FROM FORM A1,
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Signature bri Date 8/21/18 Title_ Waste Engineer

Form A2 Page 1 of 2

Containers 1169 3, 121296-023 See Attachment 121169

Ship Ment # : DSSI -18-104

N /A

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

Generator Name	US Department of Energy (Paducah Site)	Manifest Doc. No. 1	DDLQLIQG3TTK.
Generator Name:	US Department of Energy (Paducan Sile)	Mannest Doc. No.	

Profile No.:

This form is a continuation from form A1 for a waste identified by more than five USEPA waste code/subcategory groups. This page by itself <u>IS NOT</u> an acceptable Land Disposal Notification and Certification Form.

State Manifest No.:

Continue (from form A1, Page 1) to identify ALL USEPA hazardous wastes that apply to this waste shipment (as defined by 40 CFR 261). For each waste number, identify the corresponding subcategory (write in the description from 40 CFR 268.40, or check NONE if the waste does not have a subcategory.). Also identify in column 5 how the waste must be managed. Spent solvents are listed on Form A1, Page 2. F039 constituent(s) and underlying hazardous constituent(s) if applicable, must be listed and attached.

	3, USEPAR	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION OF NOT APPLICABLE, SIMPLY CHECK	(N(DNE		5. HOW MUST THE WASTE BE MANAGED2 ENTER
A REF R	WASTE CODE(S)	DESCRIPTION		ON	E	LETTER FROM FORM A1, PAGE 1
36	<		Rife	1946	922 <u>9</u> 3	
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information.

Title Waste Engineer

Form A2 Page 2 of 2

Date 8/2///8

lontainers 12116 23 121296-02 See +Hachment

Ship Hent #: DSSI-18-104

F039/UNDERLYING HAZARDOUS CONSTITUENT (UTS) (Phase IV)

Generator Name:	US Department of Energy (Paducah Site)	Manifest Doc. No. :	006841953JJK

Profile No .:

State Manifest No.:

N A

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST	WW	NWW	CONSTITUENT	HOW MUST	WW	NWW
	THIS	(mg/l)	(mg/kg)		THIS	(mg/l)	- (mg/kg) 😪
	CONSTITUENT		-unless		CONSTITUENT		unless
	BE MANAGED?		noted		BE MANAGED?		noted
Acenaphthylene		0.059	3.4	2-Chloro-1,3-butadiene	K	- 0.057	0.281
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38'	bis(2-Chloroethoxy)methane		0.036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether	1	0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acvlamide		191	231	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.0621	NA ¹
		1		Chloromethane/Methyl			
Aldicarb sulfone		0.056	0.28	chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenvl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene	[0.059	34
Aramite		0.36	NA	o-Cresol	├─── ├ ───	0.11	5.6
alpha _r (BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)		0.023	0.066	m-Cumenyl methylcarbamate	├	0.0561	1 41
gamma-(BHC)		0.0017	0.066	Cyclohexanone	├ <i>├</i>	0.36	$0.75 m d/l^{1}$
Barban		0.0561	1.41	o n'-DDD		0.023	0.087
Bendiocarb		0.056	1.41	n n'-DDD		0.023	0.007
Benomyl		0.0561	141	o n'-DDE		0.031	0.007
Benzene	Α	0.000	10	p p'-DDE		0.031	0.007
Benz(a)anthracene	<u></u>	0.059	3.4	o n'-DDT		0.0039	0.007
Benzal chloride		0.0551	6.0'	n n'-DDT	├	0.0000	0.007
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a b)anthracene	├	0.055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a e)pyrene		0.061	NA NA
Benzo (g h i)pervlene		0.0055	1.8	1 2-Dibromo-3-chloropropage		0.11	15
Delize (g,n,i)perficite		0.0000	1.0	1.2-Dibromomethane/	├─── <i>│</i> ────	10.11	13
Benzo(a)pyrene		0.061	3.4	Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl		0.00		Biblemethane		0.11	15
Bromide		0.11	15	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	60
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.0421	1.4	Dichlorodifluoromethane		0.23	72
Butyl benzyl phthalate		0.017	28	1 1-Dichloroethane		0.059	6.0
2-sec-Butyl-4 6-		0.011	20			0.000	0.0
dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0.21	6.0
Carbary		0.0061	0.141	1.1-Dichloroethylene		0.025	60
Carbenzadim		0.0561	1.41	trans-1 2-Dichloroethylene		0.054	30
Carbofuran		0.0061	0.141	2 4-Dichlorophenol		0.044	14
Carbofuran nhenol		0.0561	141	2.6-Dichlorophenol		0.044	14
Calbolulari prenol		0,000	4.8 mg/l	2.4-Dichlorophenovyacetic		0,044	14
Carbon disulfide		3.8	TCLP	acid/2,4-D		0.72	10
Carbon tetrachloride		0.057	6.0	1,2-Dichloropropane	1	0.85	18
Carbosulfan		0.028 ¹	1.41	cis-1,3-Dichloropropylene		0,036	18
Chlordane (alpha and gamma		0.0022	0.26	trans-1,3-Dichloropropylene		0.036	18
somers)		0.0033	16	Dioldrin		0.017	0.42
		0.40	60	Diothyl abthalata	L	0.017	0.13
Unioropenzene		0,057	0,0	Dietnyi phthalate	≝>	0.20	28

Form B1 Page 1 of 3

CONSTITUENT	Ĥ	ow I	MÜST		ww	NWW	CONSTITUENT	HOW MUST	ww	NVVW
	T	HIS	тіті)) Тіті))		(mg/l)	- (mg/kg)		CONSTITUENT	(mg/l)	(mg/kg)
	R		NAG	-191 FD?-		noted		BE MANAGED?		noted
Chlorobenzilate					0.10	NA	p-Dimethylaminoazobenzene		0.131	NA
2,4-Dimethyl phenol	+>				0.036	14	Methylene chloride		0.089	30
Dimethyl phthalate					0.047	28	Methyl ethyl ketone		0.28	36
Di-n-butyl phthalate					0.057	28	Methyl isobutyl ketone		0.14	33
1,4-Dinitrobenzene					0.32	2.3	Methyl methacrylate		0.14	160
4,6-Dinitro-o-cresol	_				0.28	160	Methyl methansulfonate		0.018	NA
2,4-Dinitrophenol					0.12	160	Methyl parathion		0.014	4.6
2,4-Dinitrotoiuene					0.32	140	Mexagerbata		0.056	1.4
Di n octyl phthalata	+				0.00	28	Molinate		0.030	1.4
Di-n-propylnitrosamine		······			0.40	14	Naphthalene		0.059	5.6
1.4-Dioxane	+-				12.0	170	2-Naphthylamine		0.52	NA
Diphenylamine ³	+				0.92	131	o-Nitroaniline	1	0.271	141
DiphenyInitrosamine ³					0.92	13 ¹	p-Nitroaniline		0.028	28
1,2-Diphenylhydrazine					0.087	NA	Nitrobenzene		0.068	14
Disulfoton					0.017	6.2	5-Nitro-o-toluidine		0.32	28
Dithiocarbamates (total)	_				0.028	28'	o-Nitrophenol		0.028'	13'
Endosulfan I					0.023	0.066	p-Nitrophenol		0.12	29
Endosulfan II				1	0.029	0.13	N-Nitrosodiethylamine		0.40	28
Endosulfan sulfate	+			 	0.029	0.13	N-Nitrosodimetnylamine	}	0.40	2.3
Endrin aldabyda	+			<u> </u>	0.0026	0.13	N-Nilloso-ul-II-Dutylaillille		0.40	11
Endin aldenyde					0.023	1.41	N-Nitrosomorpholine		0.40	2.3
Ethyl acetate	+	~~~~~			0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl benzene	1-				0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethyl cyanide/Propanenitrile	1				0.24	360	Oxamyl		0.0561	0.281
Ethyl ether					0.12	160	Parathion		0.014	4.6
Bis(2-Ethylhexyl)phthalate			1		0.28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	A	0.10	10
Ethyl methacrylate	1				0.14	160	Pebulate		0.0421	1.41
Ethylene oxide					0.12	NA	Pentachlorobenzene		0.055 ¹	10 ¹
Famphur					0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluoranthene			1		0.068	3L.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Fluorene	1		1		0.059	3.4	Pentachloroethane		0.055	6.0
Formetanate hydrochloride					0.0561	1.41	Pentachloronitrobenzene		0.055	4.8
Heptachlor					0.0012	0.066	Pentachlorophenol		0.089	7.4
Heptachlor epoxide	<u> </u>				0.016	0.066	Phenacetin		0.081	16
Hexachlorobenzene					0.055	10	Phenanthrene		0.059	5.6
Hexachioroputadiene	_				0.055	24	Phenol		0.039	6.2
		-+			0.037	2.4	Filolate		0.021	4.0
Hexachrorodibenzo-p-dioxins)					0.000063	0.001	Phthalic acid		0.0551	281
Hexachlorodibenzofurans)					0.000063	0.001	Phthalic anhydride	·	0.055	28 ¹
Hexachloroethane					0.025	30	Physostigmine	······	0.056	1.4
Indepo(1,2,3,c,d)pyropo					0.035	34	Promecarb	·	0.0561	1.4
Indeno(1,2,3-C,d)pyrene					0.0055	65	Pronamide		0.056	1.4
Isobutyl alcohol		+			56	170	Pronham		0.0561	1.5
Isodrin		1			0.021	0.066	Propoxur		0.0561	1.4
Isosafrole		f			0.081	2.6	Prosulfocarb		0.0421	1.4
Kepone					0.0011	0.13	Pyrene	······	0.067	8.2
Methacrylonitrile					0.24	84	Pyridine		0.014	16
Methanol					5.6	0.75 mg/l ¹	Safrole		0.081	22
Methapyrilene					0.081	1.5	Silvex/2,4,5-TP		0.72	7.9
Methiocarb					0.056 ¹	1.41	1,2,4,5-Tetrachlorobenzene		0.055	14
Methomyl					0.028 ¹	0.14 ¹	TCDDs (All Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
Methoxychlor	Γ				0.25	0.18	TCDFs (All Tetrachlorodibenzo-furans)		0.000063	0.001
3-Methylcholanthrene	T				0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
4,4'-Methylene bis(2-	K				0.50	30	1.1.2.2-Tetrachloroethane		0.057	60
chloroaniline)				/			, , ,			

CONSTITUENT	HOW MU THIS	ST	WW .(mg/l)	NWW (mg/kg)	CONSTITUENT	HOW MUST THIS	WW (mg/l)	NWW (mg/kg)
	BEMANA	UENT GED?		unless noted		CONSTITUENT BEMANAGED?		unless noted
Tetrachloroethylene	<		0.056	6.0	INORGANIC CONSTITUENTS			
2,3,4,6-Tetrachlorophenol		/	0.030	7.4	Antimony		1.9	2.1 mg/l TCLP
Thiodicarb			0.0191	1.4 ¹	Antimony		1.9	1.15 mg/l TCLP ⁴
Thiophanate-methyl		0.0		1.4 ¹	Arsenic		1.4	5.0 mg/l TCLP
Toluene			0.080	10	Barium		1.2	7.6 mg/l TCLP
Toxaphene		1	0.0095	2.6	Barium		1.2	21 mg/l TCLP ⁴
Triallate			0.042 ¹	1.4 ¹	Beryllium		0.82	0.014 mg/l TCLP
Tribromomethane/Bromoform			0.63	15	Beryllium		0.82	1.22 mg/l TCLP ⁴
2,4,6-Tribromophenol		1	0.035	7.4	Cadmium		0.69	0.19 mg/l TCLP
1,2,4-Trichlorobenzene		1	0.055	19	Cadmium	A	0.69	0.11 mg/l TCLP ⁴
1,1,1-Trichloroethane			0.054	6.0	Chromium (Total)		2.77	0.86mg/l TCLP
1,1,2-Trichloroethane			0.054	6.0	Chromium (Total)		2.77	0.60 mg/l TCLP⁴
Trichloroethylene			0.054	6.0	Cyanides (Total)		1.2	590
Trichloromonofluoromethane			0.020	30	Cyanides (Amenable)		0,86	30 ¹
2,4,5-Trichlorophenol			0.18	7.4	Fluoride		35	NA⁴
2,4,6-Trichlorophenol			0.035	7.4	Lead	A	0,69	0.37 mg/l
2,4,5-Trichlorophenoxyacetic acid/2,4,5-T			0.72	7.9	Lead		0.69	0.75 mg/l⁴ TCLP
1,2,3-Trichloropropane			0.85	30	Mercury (Nonwastewater from Retort)		NA	0.20 mg/l TCLP
1,1,2-Trichloro-1,2,2- trifluoroethane			0.057	30	Mercury (All others)		0.15	0.025 mg/l TCLP
Triethylamine			0.081 ¹	1.5 ¹	Nickel		3.98	5.0 mg/l TCLP
Tris-(2,3- Dibromopropyl)phosphate			0.11	0.10 ¹	Nickel		3.98	11 mg/l TCLP⁴
Vernolate			0.042 ¹	6.0 ¹	Selenium		0.82	0.16 mg/l TCLP
Vinyl chloride			0.27	6.0	Selenium		0.82	5,7 mg/l TCLP⁵
Xylenes – mixed isomers (sum of o-,m-, and p-xylene	¥	\rightarrow	0.32	30	Silver		0,43	0.30 mg/l TCLP
					Silver		0.43	0,14 mg/l TCLP ⁴
					Sulfide		14	NA ²
					Thallium		1.4	0.078 mg/l TCLP ¹
					Thallium		1.4	0.20 mg/l TCLP ⁴
					Vanadium		4.3 ²	1.6 mg/l TCLP ²
4				\longrightarrow	Zinc	А	2.61	4.3 mg/l TCLP ²

 ¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.
 ² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.
 ³ These compounds are regulated by the sum of their concentration instead of as individual constituents.
 ⁴ These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state. ⁵ Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste.

This becomes effective in authorized states upon adoption by the state.

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Die	and prin	tortung (Form dogin	nod for upp on a	lite (12 pitet	·ouritor)					C		For	Approved	OMP No.	2050 0020
Piea			1. Generator ID N	lumber	., pewriter.)	2. Pa	ge 1 of	3. Emergency Re	sponse Pho	one	4. Manifest	Tracking N	umber	OIVID INO.	2000-0038
T	WA	STE MANIFEST		KY 88	2892000			4_270	AAA R	244	0.0	684	195	3 1.	JK
	5. Gen	erator's Name and Mailir	g Address	L S I SHENKS	reg and the we had bed bed for the		G	enerator's Site A	ddress (if d	lifferent that	an mailing addre	ess)			
	1. A.	Four Rivers Nu	dear Partner	rship, LLC	(FRNP)			FRNP	on heha	alf of th	. FRNP				
	1	on behalf of FR	VP					Ordine	in Grand		CINNE:	and a			
	Genera	tors Phohenhhs Ro	ad Kevil Kv	/ 42053			1 I.	EE44 LI	n Gabe	1942 A.M.	I PAY YOUE	99 H. L.			
	6. Tran	sporter 1 Company Nam	e	-126 GA 63 63				: 1: 1 () P	11131346 PE1	a, nev i	U.S. EPA ID	Number			
		Interstate Ver	turae Ine									77.5.107.07			
	7. Tran	sporter 2 Company Nam	e								U.S. EPA ID	Number	0002333	10	
	8. Desi	ignated Facility Name an	d Site Address								U.S. EPA ID	Number			
	1.1	Diversified So	ientifin Ser	vines In	0										
		867 Collabor	Del Kiened	Arnew This	17760										
	Facility	's Phone: 4 4 7 4	nu., ningsi	ion, in a	\$7703						1.				
3	1 dointy	9h U.S. DOT Description	on (including Prope	er Shinning Nar	ne Hazard Class II	D Number		10	Containers		11. Total	TND9	8210814	2	
	HM	and Packing Group (if a	iny))	i onipping run	no, nazara olabo, n	D Humbor,		No.		Туре	Quantity	Wt./Vol.	13.	Waste Code:	S
		1.												-	and the second s
OR	RQ	NA3082, Haza	idous Waste I	iquid, n.o.s	;. (Benzene, T	etrachloroeth	ylene),	· ·					DAte	masa	
SAT		(0018, 0039), 1	9, PG III					6		DM	913	K		2000	
NEI		2.						_							
B	RC	NA3082, Haza	dous Waste I	lauld, n.o.s	. (Chieroform.	. Tetrachioro	thylene	1	1.0						
1		(0022, 0039), 9	P. PG III					4		DM	556	t.c	UUZZ	0039	
		3.								hell 1 2 1	202	100			
	RQ	NA3082, Hazar	dous Waste I	lquid, n.o.s	. (Lead, Tetra	chloroethyler	(e), (DO)	. 60						main	
		D039), 9, PG II	Redo.			-		3	-	DM	497	K	2000	0018	0039
		4.			R							1.1			
	RO	NA3082, Hazar	dous Waste II	iquid, n.o.s	i. (Benzene), (D018), 9, PG		Since					Dava		
	2							1		DM	37	K	DUTOT		
	14. Spe	ecial Handling Instruction	s and Additional In	formation							1				
		Truck: 336 Tr	ailer: 5300	32 TID: 1	2058551	Acc	umulat	ion Start D:	ate: 08	/22/47	× .	POD	met Dentos	004	0/17
	1.1	ERG # 171	n the even	t of an F	O Palasca	0.0011.00	6 A 5 A	0000	atolo - Satsak	4.6532.3.1	1.2 1		art crate.	UBA	19717
	1. 3	Gas DCD Alts	mbrum march Sanci	A shattaraa	iw itercebe	, can 1-ou	0-424-	-000%			it unde	liverabl	e, returr	to ger	nerator
	15 G	ENERATOR'S/OFFERO	R'S CERTIFICATIO	ON: Lhereby c	fectare that the conf	tents of this consi	unment are	e fully and accura	telv descrit	bed above	by the proper s	hipping nam	and are class	sified packa	aged
	m	arked and labeled/placa	ded, and are in all	respects in pro	per condition for tra	ansport according	to applical	ble international a	and national	l governm	ental regulations	s. If export sh	ipment and I	am the Prima	ary
	E	xporter, I certify that the operation that the operation of the sector o	contents of this con	signment confo	orm to the terms of t	the attached EPA	Acknowled	dgment of Conse ator) or (b) (if Lan	nt. n a small ai	iantity der	erator) is true				
	Genera	tor's/Offeror's Printed/Tv	ped Name	t identified in 4	0 01 TC 202.27 (a) (ii	i i ani a laige qua	Signa	ture		anity ger		V1	Mor	th Dav	Year
	K	lacion	0				I	Noni	a 1 1	Pa.	1 1		10	122	VB
V 	16. Inte	ernational Shipments			1			Regir	a i	ar-	P		0	n	1 hard
Ľ	Tranco	ortor signature (for even	Import t	o U.S.			rt from U.S	6. / Po	rt of entry/e	exit:					
2	17 Tran	nsporter Acknowledgmen	t of Receipt of Mate	erials				Da	te leaving c				-		1
TE	Transpo	orter 1 Printed/Typed Nar	ne	indio .			Signa	ture				-	Mon	th Day	Year
SOF OF		P	Muna	. /			l	N.	U1				10	1 1 1 2	110
NSF	Transpo	orter 2 Printed/Typed Na	ne	/			Signa	ture	"her	A	1		Mor	th Day	Year
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Î	TO. DISC	crepancy				-								_	
	18a. Di	screpancy indication Spa	ice Qua	Intity		Туре		Residu	le		Partial Re	jection	- <u>-</u>	Full Reje	ection
	2			ECI	ENE	R									
7	10h Alt	tornata Facility (or Conor	ator)					Manifest Re	ference Nu	mber:		Numbor			
F	TOD. AIL	lemale Facility (of Gener		DCT 1	0 2018	11					U.S. EFAID	Number			
ACI											1				
D	Facility'	's Phone:	ity (or Constant	$- \lambda$	44	\$A							I Ma	nth Day	Voor
TE	100. 30	gnature of Alternate Pacil	ity (or Generator)	q1	••• ••• ••• ••• ••• •••								IVIO	ina Day	I
SNA				10.1.5										5	
SIC	19. Haz	ardous Waste Report Ma	anagement Method	I Codes (i.e., co	odes for hazardous	waste treatment,	disposal, a	and recycling sys	tems)	1.55	1.	-			
D	1.	11 -		2.	11 -		3.		-	121	4.	11			
1		TOST	>		1705	-0		H	0.54	0	a charle	[m]	050		
	20. Des	ignated Engility Owner a	r Operator: Certifica	ation of receipt	of hazardous mate	erials covered by t	he manifes	st except as noted	d in Item 18	a		-	U"		
	D.'	Signated Facility Owner o	. /				01	A							10000
	Printed/	Typed Name	EALLAN	Me	E		Signa	iture		5	Ma		Mo		
-	Printed/	Typed Name	ENYON	MEI			Signa	ture	no	J.	Na		Mo	B 24	l 18

UNIFORM HAZARDOUS WASTE MANIFEST 21. Generator ID Number	22. Page	23. Mani	fest Tracking N	umber	080 10	e.	
(Continuation Sheet) (Continua	đ.	<u> </u>	1	UKB041;	703 JJI	N Star 15	
Four Rivers Nuclear Partnership, LLC, on behalf of PRNP							
25. Transporter Company Name	4- - -	<u></u>	U.S. EPA ID	Number			
Interstate Ventures, Inc.	-		U.S. EPA ID	Number	TNROO	02339	<u>0</u>
26. Transporter Company Name				<u></u>			
27a. 27b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	28. Conta No.	ainers Type	29. Total Quantity	30. Unit Wt./Vol.	31.	Waste Code	S
NA3082, Hazardous Waste liquid, n.o.s. (Lead), (D008), 9,	-	575. A	87	1	8000		
	and a second	UM	07				
UN3082, Environmentally hazardous substance, liquid,	2.1	DM	228	K			
n.o.s. (PCB), 9, PGIII		A. C. Stand V. T. V.	8-4 Well Star				<u></u>
NA3077, Hazardous Waste, solid, n.o.s. (Lead,			100	1.	0008	D018	00
	dire .	6423.63	1, Se Ker,	185	D039		
NON DOT REGULATED							
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32. Special Handling Instructions and Additional Information				<u> </u>		L	1
See Altachment for Additional Info	Bull (4	Shinme	verapie nt ID	, retum nssi-1	to gen a -10	eraŭ 4
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A Transporter Arknowledgment of Receipt of Materials	22	-				5 23	<u>, 17</u>
Printed/Typed Name	re	11	Ú.		Ma	onth Da	y Y
55. Discrepancy	<u>rdel</u>	<u>e s</u>	<u> </u>		0	<u>. Ki</u>	<u>/</u>)
6. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, an	d recycling systems)	H	250				
	L						

Ple	ase print or type. (Form de	signed for use on eli	# ite (12-pitch)-typewriter	PG 18044	60049	SC PPW	7/12/3	2018	Form	Approved	OMB No	2050-0039
T†	UNIFORM HAZARDOUS	1. Generator ID Nu	umber		2. Page 1 of 3. Eme	rgency Response	e Phone	4. Manifest	17C	750	12 F	
	WASTE MANIFEST	XY889	0008982		Genera	O) 483-3 or's Site Address	if different th	han mailing addres	<u>+ -</u>	104		
	Four Rivers Nuc	lear Partners	hip, LLC		•			-				
	5511 Hobbs Ro	be			SAL	AE						
	Generator's Phone, (270	441-6698			1							
	6. Transporter 1 Company N	ame	1.4. 6					USEPAID	Number			
	Clean Harbors (nvironmenta	IServices, Inc.					MAD	039	3223	250	
	7. Transporter 2 Company N	ame	Alala		·			NNI	1684	1018	482	
	S Designated Facility Name	and Site Address	THE	r (m	<u> </u>			U.S EPAID	Vumber	100	1-0	
	Clean Harbors D	eer Park, LLC	C					TYO	055	1413	78	
	2027 Independ	ence Parkwa	v South									
	Fadility's Phone	(281) 930-2	2300			······			r			
	Sa 9b. U.S. DOT Descr	ption (including Proper	r Shipping Name. Hazard (Class, ID Number,		10. Conta	iners	11. Total	12. Unit	13.	Waste Code	85
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	Four Rivers Nuclear Pa	rtnership, LLC (FRNP) a	and the U.S. Department o	f Energy (DOE) are	co-generators pursuant	to a Co-Generator	agreement d	lated September 1	.1. 3, 2017. Und	er this agrees	ment,	1
	FRNP is responsible for EM0004895, Including	but not limited to, cha	rce Conservation and Reco- aracterizing waste, manife:	sting waste to off-s	nerator activities on bel ite facilities, packaging	alf of both FRNP : ind labeling wast	and DOE for a e for transport	il activities under t t, and storing and r	the scope of managing w	FRNP's Contr Iste, in accor	act DE-	<u> </u>
	with RCRA requirement	ts. Transportation her	eunder is for DOE and the	actual total transpo	ortation charges paid ar	e to be reimburse	d by the Gove	rnment pursuant t	to Contract (E-EM000489	5.	<u>.</u>
	1.CH1030668	ERG#1	71 16KS1	5 True	6280	Accus	vo latio	nstat	Date	5218	118	
	241709976	1855	1012.	Va	~ 601U	PCB	Stort	Dote: 2	7/8/1		a	
	Contract retained ov	generator confe	Is agency authority	v on initiai tra	nsporter to add o	r substitute	additional	transporters	on gener	HCFC ator's bei	nari	
	15. GENERATOR'S/OFFE	ROR'S CERTIFICATIO	ON: I hereby declare that	the contents of this	s consignment are fully	and accurately de	escribed abov	e by the proper sh	ipping nam	e, and are cla	assified, paci	vaged.
	Exporter 1 certify that 0	caroed, and are in all the contents of this cont	signment conform to the te	erms of the attache	d EPA Acknowledgmer	t of Consent	uunai guveni	nental regulations	it export si	upinen and i		iai y
	I certify that the waste i Generator's Otferor's Printed	ninimization statement	I identified in 40 CFR 262	27(a) (d I am a larg	e quantity generator) o Signature	r (b) (if I am a sm	all quantity ge	enerator) is true		Mo	onth Dav	Year
	1 chall Tal	Fire h	hlf FROM	f	Re	LlL ~	bal	~		10	717	118
F	16. International Shipments			<u>ار ا</u>		Port of e	ntru/av			I		1.10
Z	Transporter signature (for e)	ports only)	15 0.3	L		Date leav	ring U.S.					
R	17 Transporter Acknowledgn	ent of Receipt of Mate	inals		0							View
OR1	Irapeporter 1 Printed/Typen	Name			Signature	and 1	H	4		1	9 1 - 7	118
SP	Transcorter 2 Printed/Typed	Name	• • • • • • • • • • • • • • • • • • •		Signature	my l	100	/		I	xith Day	Year
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T.	18. Discrepancy	3			Fra	<u> </u>					11,0	
	10 Discrepancy Indication	Space Quar	ntity	Туре	[Residue		Partial Re	vection /	i	Eus Re	writing
	VI AL INT	The		_ 1,1.c	- chai	red L	ind	TWIE	Add	+C	1 -	eriusi.
1	Nr LaChelle 1	Ither Un	c/ yum+	y And I	WCH	laniest Referenc	e Number.		10-9	-18	215	
E	180. Allemate Facility (of Ge	nerator)	1	(100.1	ECE	=11/	U.S. EPAID	Number			
FAC	Facility's Rivana					lata Carl Br	no 🕅 1 1					
ED	18c Signature of Alternate F	actility (or Generator)				OCT 0	4 201	8		м	onth Da	y Year
NAT						0010	EAL		1.		1	
SIG	19. Hazardous Waste Repor	Management Method	Codes (i.e., codes for ha	zardous waste trea	Itment, disposal, and re	cycling system	14	Lowed	ld	upr	Dere	mal
B	1. H040		2		3 3	A	V	4.		10	()	
11	20 Detroy ded Earths Own	u or Operator Obdit-	ation of record of home-t-	ue matañale	od by the sum fact a	ot as pated in th	m 18- 1					•
	Printed/Typed Name	a or operator. Opding	auch of receipt of nazardos	natengis cover	Signature	pras noted in Ite	m 10a	100		M	pymak, Da	Year
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-						the second second second second second second second second second second second second second second second s		the second second second second second second second second second second second second second second second se				

A Form 8700-22 (Rev. 3-05) Previous editions are obsolete. Clean Harbors has the appropriate permits for and will accept the waste the generator is shoping. LITY TO DESTINATION STATE (IF REQUIRED) 1

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Ple	ase pr	int or type (Form designed for use on elite (12-pitch) typewriter.)			Form	Approved. OMB No. 2050-0039
	UNI	CONTINUATION Sheet)	23 Pan	23. Manifest Tracking	Number 79	7542FLE
	24.0	FOLOR Rappers Nuclear Activership	,110			
	25. 1	Transworter 3 Company Name Clean Harbors ENV. S	Serv.,I	nc. M	ID Number 400子	1322250
	26. 1	ransporter	·····	U S. EPA	ID Number	
	27a HM	275 U.S. DOT Description (including Proper Shipping Name, Hazard Class. ID Number, and Packing Group (I any))	28. Contain No	ers 29. Total Type Quantity	30 Unit Wt Nol	31 Waste Codes
						· · · · · · · · · · · · · · · · · · ·
NERATOR	 	0				
99		Y				
	32 S	pecta: Handling Instructions and Additional Information				
PORTER	33 Ti Printe	ansporter - 2 Acknowledgment of Rector of Materia's AlTyped Name Signature	· · · · · · · · · · · · · · · · · · ·	Happ		Man 5 Day Yea
TRANSI	94. Ti Printe	ansporter Acknowledgment of Receipt of Materials dfTyped Name Signature				Month Day Year
D FACILITY	35. D	iscrepancy				
ESIGNATEI	36 4	azardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and re	ocycling systems)		1	
	L	2700 724 (Dec 2.05) Deces and deces are should be			ODECTINA	TION STATE UP DE OUIDECL

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Manifest Number: 011797542 FLE

Shipment ID Number: 011797542 FLE

Shipment Date: 9/7/2018

UHWM Section	RFD	Container / WASTE ID	Description	PCB Date to Storage	Accumulation Storage Date	WASTE VOLUME (ft3)	GROSS WT (lb)	GROSS WT (Kg)	NET WT (Ib)	NET WT (Kg)
9b.1	121603	121603-04	PCB Transformer Oil	8/8/2018	08/27/18	7	434	197	378	171
9b.1	121603	121603-05	PCB Transformer Oil	8/8/2018	08/27/18	7	444	201	388	176
9b.1	121603	121603-06	PCB Transformer Oil	8/8/2018	08/27/18	7	450	204	394	179
9b.1	121603	121603-07	PCB Transformer Oil	8/8/2018	08/27/18	7	444	201	388	176
9b.1	121603	121603-08	PCB Transformer Oil	8/8/2018	08/27/18	7	434	197	378	171
9b.1	121603	121603-09	PCB Transformer Oil	8/8/2018	08/27/18	7	426	193	370	168
9b.1	121603	121603-10	PCB Transformer Oil	8/8/2018	08/27/18	7	440	200	384	174
9b.1	121603	121603-11	PCB Transformer Oil	8/8/2018	08/27/18	7	432	196	376	171
9b.1	121603	121603-12	PCB Transformer Oil	8/8/2018	08/27/18	7	442	200	386	175
9b.1	121603	121603-13	PCB Transformer Oil	8/8/2018	08/27/18	7	436	198	380	172
9b.1	121603	121603-14	PCB Transformer Oil	8/8/2018	08/27/18	7	416	189	360	163
9b.1	121603	121603-15	PCB Transformer Oil	8/8/2018	08/27/18	7	430	195	374	170
9b.1	121603	121603-16	PCB Transformer Oil	8/8/2018	08/27/18	7	440	200	384	174
9b.1	121603	121603-17	PCB Transformer Oil	8/8/2018	08/27/18	7	426	193	370	168
9b.1	121603	121603-18	PCB Transformer Oil	8/8/2018	08/27/18	7	424	192	368	167
9b.1	121603	121603-19	PCB Transformer Oil	8/8/2018	08/27/18	7	178	81	122	55
9b.2	120928	120928-01	Faulted Transformer	NA	NA	10	356	161	276	125
			Totals:			122	7052	3199	6076	2756

Equal Employment Opportunity, all provisions of the Executive Order 11246, as amended by Executive Order 11375, and of the rules, regulations, and relevant orders of the Secretary of Labor are incorporated herein.

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Hugen, Alisa

From:	Telfair, Chelle
Sent:	Thursday, October 04, 2018 10:47 AM
То:	'Barche, Vivian E'; Cranford, Nathan Ryan
Cc:	Fralix,Tim; Stahr, Sonia; Hugen, Alisa
Subject:	RE: PCB confirmation of arrival

Perfect. Thank you. Path forward any PCBs headed to TX will be documented in KG. Thank you for checking for us. Chelle

From: Barche, Vivian E [mailto:Barche.VivianE@cleanharbors.com] Sent: Thursday, October 04, 2018 10:24 AM To: Telfair, Chelle; Cranford, Nathan Ryan Cc: Fralix, Tim; Stahr, Sonia; Hugen, Alisa Subject: RE: PCB confirmation of arrival

A 45 Good Morning Chelle,

Thank you for the manifest correction approval. El is correcting it now. We will continue to want the weight of most waste to be in pounds for any future shipments. We only have a requirement for PCB drums to be weighed as Kilograms per the State of Texas. I apologize for the confusion.

Safety Starts with Me: Live It 3-6-5

Vivian Barche Customer Service Representative Clean Harbors (o) 615.643.3182 (c) 615.571.2349 barche.viviane@cleanharbors.com www.cleanharbors.com



From: Telfair, Chelle <Chelle.Telfair@pad.pppo.gov>
Sent: Thursday, October 4, 2018 9:52 AM
To: Barche, Vivian E <Barche.VivianE@cleanharbors.com>; Cranford, Nathan Ryan <cranfordr@cleanharbors.com>
Cc: Fralix,Tim <Tim.Fralix@pad.pppo.gov>; Stahr, Sonia <Sonia.Stahr@pad.pppo.gov>; Hugen, Alisa <Alisa.Hugen@pad.pppo.gov>
Subject: RE: PCB confirmation of arrival

Please make corrections to manifest 011797542FLE.

But please note that these original OUTS codes were designated by Clean Harbors. Also, some consistencies for UHMW weights would be appreciated. Clean Harbors, for years, has been the only company we work with that has always wanted the weight to be in pounds, not kilograms. Except for this time, the facility wants kilograms (which is actually a UHWM requirement).

Could we get direction on how Clean Harbors would like weight documented for future shipments please? We just like to be consistent and have as few as possible line through, initial & date changes.

Thank you. Chelle

From: Barche, Vivian E [mailto:Barche.VivianE@cleanharbors.com]
Sent: Thursday, October 04, 2018 9:35 AM
To: Hugen, Alisa; Cranford, Nathan Ryan
Cc: Telfair, Chelle; Fralix,Tim; Stahr, Sonia
Subject: RE: PCB confirmation of arrival
Good Morning,
My apologies. The El Dorado facility, just reached out to mage.

My apologies. The El Dorado facility just reached out to me about manifest # 011797542FLE. They are requesting permission to change: Line 1 from 5800pd to 3044k Line 1 TWC # Outs2971 should read OUTS297H Line 2 is not carrying TWC # OUTS3191 I believe once we have permission to make changes to the manifest, we will be able to pull the COD shortly after. Do we have permission to make the correction to the manifest? Thanks for your help.

Safety Starts with Me: Live It 3-6-5

Vivian Barche Customer Service Representative Clean Harbors
							F			050 0000
A l	UNIFORM HAZARDOUS 1. Generator ID Number	2. Page 1 of	3. Emergen	cy Response	Phone	4. Manifest	Tracking N	umber	UMB NO. 2	050-0035
	WASTE MANIFEST KY8890008982	2	1-2170	-44-1	621		969	1450)4 Ju	IK -
	5. Generator's Name and Malling Address Four Rivers Nuclear Partnership, UC 5511 Habbs Road, Kevil, Ky 42053 Generator's Phone:	(FRNP) F Po-	RNP Lucch	1 Gos 2 Gos 2 Gos	seous l Red, Ke	s) Siffi	ision 1 Ky 42	plant as:3	
	6. Transporter 1 Company Name					U.S. EPAID	Number	1	200	
	7. Transporter 2 Company Name					U.S. EPAID N	- 000	0022	384	
Ш						-STE	982	598	RYR	1/10/18
	8. Designated Facility Name and Sile Address Energy Solutions Clive Disposed Site Treatment Facility, Interstate 8 Facility's Phone: 1-435-834-0155	-Was 30,Ex Clive,	te it 49 UT 8	4029	7		Number	2.599	7893	}
	9a. 9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, HM and Packing Group (if any))	· .		10. Contain No.	ers Type	11. Total Quantity	12. Unit Wt./Vol.	13.	Waste Codes	i
NERATOR -	¹ UN2912, Wester, Radioactive med 20 specific activity (LSA-I), 7, (Asto ND-232, Ru-238, TUFY, U-234, Solid/Astide, 1	tericl, lestes, P 184MB	1000 (5),	1	cm	457	ĸ	Dade		
3	3.									
	4.									
	 14: Special rational instructions and volume an instruction 14: Special rational instructions and volume and instruction. 15: 2005 85: 110: 2005	RBS Sev, co is consignment a cording to applic ed EPA Acknowl rge quantity gen	The fully and a cable internal ledgment of (b)	Addi Addi accurately des ional and nativ Consent. (iff am a sma	1/12/17 4-88 <u>hiancl</u> scribed above onal governme Il quantity gen	Accum oz I I by the proper st ental regulations rerator) is true.	wleti Fund Ship ipping nam	the and are cla	te Detej Loko conene ID:975 issified, packa am the Prima	9/12/ <u>4</u> aged, ary
+	Generator's Offenor's Printed/Typed Name Loch_I = Telfor'r onhehelf . P-the FRN 16. International Shipments		nature Rec	200	Jost A	aio		Mo C	nth Day	Year
RINI	Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials			Date leavin	ng U.S.:					
TRANSPORT	Transporter 1 Printed/Typed Name	Sigr Sigr Sigr	nature neture	www.	Am	w		Mo Mo	nth Day 9//0 onth Day	Year / 8 Year
Î	18. Discrepancy 18a. Discrepancy Indication Space Quantity Type			Residue		Partial Re	jection		🗌 Full Reje	ection
	18h Allamata Sociilitu (ar Connector)		Manif	est Reference	Number:					
FACILIT	Facility's Phone:	K	SE	P 1 8	3 2018	0.5. EFAID	NUMDer			
SNATED	18c. Signature of Alternate Facility (or Generator)	1	1	AH	[M	onth Day	Yea
DESIC	19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste tre 1. 4. 2. 2.	atment, disposa 3.	I, and recycli	ng systems)		4.	and the second second second second second second second second second second second second second second secon			
. 1					- 10-					
	20. Designated Facility Owner or Operator: Certification of feceipt of hazardous materials cove	ered by the mann	test except a	s noted in ftem	1108					
ļ	20. Designated racially Owner of Operator: Certification of receipt of hazardous materials cove Printed/Typed Name Albert Guns	sred by the mann Sig	nature	s noted in item	1100	non		Mo	onth Day 9 13	Year

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PCB and Additional Information Attachment, Page 2 of 2

Manifest Number: 019694504 JJK

Shipment ID Number: 9750-01-0001

Shipment Date: 9/10/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Start Date	Accumulation Storage Date	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	121272	121272-01	PAD17C36454	Pothead and PLC Cable	9/12/17	09/12/17	60	1804	818	1008	457	184
		Totals	1				60	1804	818	1008	457	184

LAND DISPOSAL NOTIFICATION AND CERTIFICATION

Generator Name:	FRNP US Department of Energy (Paducal Site)	Manifest Doc. No, :	019694524 JJK
Profile No.:	9758-01-0001	State Manifest No.:	NA

1. Is this waste a non-wastewater or wastewater? (See 40 CFR 268.2) Check ONE: Non-wastewater 🛛 Wastewater 🗌

Identify ALL USEPA hazardous waste codes that apply to this waste shipment, as defined by 40 CFR 261. For each waste code, identify the 2. corresponding subcategory, or check NONE if the waste code has no subcategory. Spent solvent standards are listed on the following page. If F039, multi-source leachate applies those constituents must be listed and attached by the generator. If D001-D043 requires treatment of the characteristic and meet 268.48 standards, then the underlying hazardous constituent(s) present in the waste must be listed and attached.

REF #	3. US EPA HAZARDOUS	4. SUBCATEGORY ENTER THE SUBCATEGORY DESCRIPTION. IF NOT APPLICABLE, SIMPLY CHECK N	IONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM
	WASTE CODE(S)	DESCRIPTION	NONE	BELOW
1	D008	LEAD		A
2	<			
3				
4	<	· · · · · · · · · · · · · · · · · · ·		>

To identify F039 or D001-D043 underlying hazardous constituent (s), use the "F039/Underlying Hazardous Constituent Form" provided (Form B1) and check here 🔀 If no UHCs are present in the waste upon its initial generation check here:

To list additional USEPA waste code(s) and subcategorie(s), use the supplemental sheet provided (Form A2) and check here:

HOW MUST THE WASTE BE MANAGED? In column 5 above, enter the letter (A, B1, B3, B4, C, D, or E) below that describes how the waste must be managed to comply with the land disposal regulations (40 CFR 268.7). Please understand that if you enter the letter B1, B3, B4, or D, you are making the appropriate certification as provided below. (States authorized by EPA to manage the LDR program may have regulatory citations different from the 40 CFR citations listed below. Where these regulatory citations differ, your certification will be deemed to refer to those state citations instead of the 40 CFR citations.

RESTRICTED WASTE REQUIRES TREATMENT Α,

This waste must be treated to the applicable treatment standards set forth in 40 CFR Part 268.40.

K For Hazardous Debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE TREATED TO PERFORMANCE STANDARDS B.1

"I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification. Based on my inquiry of those individuals immediately responsible for obtaining this information, I believe that the treatment process has been operated and maintained properly so as to comply with the treatment standards in 40 CFR Part 268.40 without impermissible dilution of the prohibited waste. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment,"

GOOD FAITH ANALYTICAL CERTIFICATION FOR INCINERATED ORGANICS **B.3** "I certify under penalty of law that I have personally examined and am familiar with the treatment technology and operation of the treatment process used to support this certification, Based upon my inquiry of those individuals immediately responsible for obtaining this information, I believe that the nonwastewater organic constituents have been treated by combustion in units as specified in 268.42 Table 1. I have been unable to detect the nonwastewater organic constituents despite having used best good faith efforts to analyze for such constituents. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment." DECHARACTERIZED WASTE REQUIRES TREATMENT FOR UNDERLYING HAZARDOUS CONSTITUENTS B.4

"I certify under penalty of law that the waste has been treated in accordance with the requirements of 40 CFR 268.40 or 268.49, to remove the hazardous characteristic. This decharacterized waste contains underlying hazardous constituents that require further treatment to meet treatment standards. I am aware that there are significant penalties for submitting a false certification, including the possibility of fine and imprisonment."

RESTRICTED WASTE SUBJECT TO A VARIANCE C,

This waste is subject to a national capacity variance, a treatability variance, or a case-by-case extension. Enter the effective date of prohibition in column 5 above, For hazardous debris: "This hazardous debris is subject to the alternative treatment standards of 40 CFR Part 268.45."

RESTRICTED WASTE CAN BE LAND DISPOSED WITHOUT FURTHER TREATMENT D. "I certify under penalty of law I personally have examined and am familiar with the waste through analysis and testing or through knowledge of the waste to support this certification that the waste complies with the treatment standards specified in 40 CFR 268 Subpart D. I believe that the information I submitted is true, accurate and complete. J am aware that there are significant penalties for submitting a false certification, including the possibility of fine or imprisonment."

WASTE IS NOT CURRENTLY SUBJECT TO PART 268 RESTRICTIONS E.

This waste is a newly identified waste that is not currently subject to any 40 CFR Part 268 restrictions.

I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. _____ Title_ Waste Engineer_____ Date_ 9/5/18

Signature Aonia Stah

121272-01

Form A1 Page 1 of 2

LAND DISPOSAL NOTIFICATION AND CERTIFICATION (PHASE IV)

If the waste identified on the first page of this form is described by any of the following USEPA hazardous waste codes: F001, F002, F003, F004, F005, and all solvent constituents will not be monitored by the treater, then each constituent MUST be identified below by checking the appropriate box, and this page must accompany the shipment, along with the previous page of this form. If the waste code F039 describes this waste, then the corresponding list of constituents must be attached. If D001-D043 require treatment to 268.48 standards, then the underlying hazardous constituent(s) must also be attached.

		SOLVENT WAS	TE TREATMENT STANDARDS		
FD04 through F005 spent solvent constituents and their associated	Treatm	ent Standard 1	F001 through F005 spert solvent constituents and their associated USEPA hazardous	Treatment-Stand	lardi 🤤 🖓
USEPA nazardous waste code(s)	Wastewaters	Nonwastewaters	waste code(s).	Wastewaters	Nonwastewaters
Acetone (F003)	0.28	160	Methanol (F003)	5.6	0.75 (TCLP) ³
Benzene (F005)	0.14	10	Methylene chloride (F001, F002)	0.089	30
n-Butanol (n-butyl alcohol) (F003)	5.6	2.6	Methyl ethyl ketone (F005)	0.28	36
Carbon disulfide (F005)	3.8	4.8 (TCLP) ³	Methyl isobutyl ketone (F003)	0.14	33
Carbon tetrachloride (F001)	0.057	6.0	Nitrobenzene (F004)	0.068	14
Chlorobenzene (F002)	0.057	6.0	2-Nitropropane (F005)	INCIN or {(WETOX or C HOXD) followed by CARBN}	INCIN
o-Cresol (F004)	0.11	5.6	Pyridine (F005)	0.014	16
Cresol (m- and p- isomers) (F004)	0.77	5.6	Tetrachloroethylene (F001, F002)	0.056	· 6.0
Cyclohexanone (F003)	0.36	0.75 (TCLP) ³	Toluene (F005)	0.080	10
o-Dichlorobenzene (F002)	0.088	6.0	1,1,1-Trichloroethane (F001, F002)	0.054	6.0
2-Ethoxyethanol (F005) also called ethylene glycol, monoethyl ether	INCIN or BIODG	INCIN	1,1,2-Trichloroethane (F002)	0.054	6.0
Ethyl acetate (F003)	0.34	33	Trichloroethylene (F001, F002)	0.054	6.0
Ethyl benzene (F003)	0.057	10	Trichloromonofluoromethane (F002)	0.020	30
Ethyl ether (F003)	0.12	160	1,1,2-Trichloro-1,2,2- trifluoroethane (F002)	0.057	30
Isobutanol (Isobutyl Alcohol) (F005)	5.6	170	Xylenes (sum of o-, m-, and p- isomers) (F003)	0.32	30

¹ All spent solvent treatment standards are measured through a total waste analysis (TCA), unless otherwise noted. Wastewater units are mg/l, nonwastewater are mg/kg.

² For contaminated soils using the alternative soil treatment standards, the treatment standards for F001-F005 spent solvents must be a 90% reduction of the constituents or less than 10x the standard listed.

³ These solvents require a TCLP standard with units of mg/l.

SUBCATEGORY REFERENCE

D001:

A. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in non-CWA/non-CWA equivalent/non-Class I SDWA systems.

B. Ignitable characteristic wastes, except for the 40 CFR 261.21(a) (1) High TOC subcategory, that are managed in CWA/CWA-equivalent or Class I SDWA systems.

C. High TOC Ignitable characteristic liquids subcategory based on 40 CFR 261.21(a) (1) - Greater than or equal to 10% total organic carbon.

D002:

D. Corrosive characteristic wastes that are managed in non-CWA/non-CWA-equivalent/non-Class I SDWA systems.

E. Corrosive characteristic wastes that are managed in CWA, CWA-equivalent, or Class I SWDA systems.

Form A1 Page 2 of 2

					2	1272-01
Generator	L <i>I</i> Name: US D	AND DISPOSAL NOTIFICATION A FRNP して 9-7-18 epartment of Energy (Paducah Site)	AND CERTIFICATION	PHAS) ا 19	E IV) ሬን	4504 JJK
Profile No.	:	9750-01-0001	State Manifest No.:			AIA
This form i IS NOT ar Continue (each wast not have a constituen	is a continuation fin acceptable Land (from form A1, Pag te number, identify a subcategory.). Al t(s) and underlying	om form A1 for a waste identified by more Disposal Notification and Certification For ge 1) to identify ALL USEPA hazardous wa the corresponding subcategory (write in the so identify in column 5 how the waste mus g hazardous constituent(s) if applicable, m	than five USEPA waste co m. astes that apply to this wast ne description from 40 CFR t be managed. Spent solve ust be listed and attached.	te shipmer 268.40, c ents are lis	legory nt (as or che ited oi	defined by 40 CFR 261). For ck NONE if the waste does n Form A1, Page 2. F039
	3. US EPA	4. SUBC		A CHECKN	ONE.	5. HOW MUST THE WASTE
REF#	HAZARDOUS	ENTER THE SUBCATEGORT DESCRIPTION.	IF NUT APPLICABLE, SIMPL		UNE.	BE MANAGED? ENTER
	WASTE CODE(S)	DESCRIPTI	ON	1	IONE	PAGE 1
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature <u>Atomic</u> <u>Atomic</u> <u>Atomic</u> <u>Date</u> <u>9/5//8</u> Earm A2

Form A2 Page 1 of 2

				121	272-01
	LÆ	ND DISPOSAL NOTIFICATION AN	ID CERTIFICATION (PH	ASE IV)
Generator N	Jame: U IS D	RNP	Manifest Doc. No : 🕥	1969	4504 JTK
					<u>. 0</u>
Profile No.: This form is <u>IS NOT</u> an	s a continuation fr acceptable Land	om form A1 for a waste identified by more th Disposal Notification and Certification Form.	_ State Manifest No.: an five USEPA waste code/su	bcategory	y groups. This page by itself
Continue (f For each w does not ha	from form A1, Pag aste number, ider ave a subcategor	e 1) to identify ALL USEPA hazardous wast ntify the corresponding subcategory (write in /.). Also identify in column 5 how the waste	es that apply to this waste ship the description from 40 CFR 2 must be managed. Spent solv	oment (as 168.40, or ents are l	defined by 40 CFR 261). check NONE if the waste isted on Form A1, Page 2.
F039 const	tituent(s) and und	erlying hazardous constituent(s) if applicable	, must be listed and attached.	NE BORNER HUNDRO	
REF#	3. US EPA HAZARDOUS	4. SUBCAT ENTER THE SUBCATEGORY DESCRIPTION. IF	EGORY NOT APPLICABLE, SIMPLY CHEC	KNONE.	5. HOW MUST THE WASTE BE MANAGED? ENTER LETTER FROM FORM A1,
	MEDIC COPE(O)	DESCRIPTION		NONE	PAGE 1
36	<				
37			······································		
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I hereby certify that all information submitted in this and all associated documents is complete and accurate, to the best of my knowledge and information. Signature <u>domaination</u> <u>dtach</u> Title <u>Wasta Enginee</u> <u>Date 9/5/18</u>

Form A2 Page 2 of 2

K

			121272-01
	F039/UNDERLYING HAZARDOUS	CONSTITUENT (UTS) (Phase IV)
Generator Name:	HRNP US Department of Energy (Paducal Site)	Manifest Doc. No. :	019694504 JJK
Profile No.:	9753-01-0001	State Manifest No.:	AИ

If D001-D043 requires treatment to the 40 CRF 268.48 standards, then each underlying hazardous constituent (UHC) present in the waste at the point of generation and at a level above the Universal Treatment Standard (UTS) constituent specific standard must be listed. Write the letter (A1, B1, B2, B3, or C that corresponds to the letter on the land disposal form A1) beside each constituent present to properly describe how the constituent(s) must be managed under 40 CFR 268.7. If contaminated soil requires treatment to 40 CFR 268.49 standards, then each UHC in the waste at the point of generation and at a level above 10 times the UTS must be listed. Write the appropriate letter which corresponds to the letter on the LDR form.

CONSTITUENT	HOW MUST	WW	NWW	CONSTITUENT	HOW MUST	WW	NWW
	THIS	(mg/l) ~	(mg/kg)		THIS	(mg/l)	(mg/kg)
	CONSTITUENT		unless		CONSTITUENT		unless
	BE MANAGED?		noted		BE MANAGED?		noted
Acenaphthylene	K	0.059	3.4	2-Chloro-1,3-butadiene	<	0.057	0.281
Acenapthene		0.059	3.4	Chlorodibromomethane		0.057	15
Acetone		0.28	160	Chloroethane		0.27	6.0
Acetonitrile		5.6	38 ¹	bis(2-Chloroethoxy)methane		0,036	7.2
Acetophenone		0.010	9.7	bis(2-Chloroethyl)ether		0.033	6.0
2-Acetylaminofluorene		0.059	140	Chloroform		0.046	6.0
Acrolein		0.29	NA	bis(2-Chloroisopropyl)ether		0.055	7.2
Acylamide		19 ¹	23 ¹	p-Chloro-m-cresol		0.018	14
Acrylonitrile		0.24	84	2-Chloroethyl vinyl ether		0.0621	NA ¹
		0.0561	0.201	Chloromethane/Methyl		0.40	
Aldicard sulfone	1 1	0.056	0.20	chloride		0.19	30
Aldrin		0.021	0.066	2-Chloronaphthalene		0.055	5.6
4-Aminobiphenyl		0.13	NA	2-Chlorophenol		0.044	5.7
Aniline		0.81	14	3-Chloropropylene		0.036	30
Anthracene		0.059	3.4	Chrysene		0.059	3.4
Aramite		0.36	NA	o-Cresol	1	0.11	5.6
alpha-(BHC)		0.00014	0.066	m-Cresol		0.77	5.6
beta-(BHC)		0.00014	0.066	p-Cresol		0.77	5.6
delta-(BHC)	1 1	0.023	0.066	m-Cumenyl methylcarbamate		0.0561	1.41
gamma-(BHC)	1 1	0.0017	0.066	Cyclohexanone		0.36	0.75 mg/l^1
Barban	1	0.0561	1.41	o,p'-DDD		0.023	0.087
Bendiocarb		0.0561	1.41	p,p'-DDD		0.023	0.087
Benomyl		0.0561	1.41	o,p'-DDE		0.031	0.087
Benzene		0.14	10	p,p'-DDE		0.031	0.087
Benz(a)anthracene		0.059	3.4	o,p'-DDT		0.0039	0.087
Benzal chloride		0.0551	6.0 ¹	p,p'-DDT		0.0039	0.087
Benzo(b)fluoranthene ³		0.11	6.8	Dibenz(a,h)anthracene		0,055	8.2
Benzo(k)fluoranthene ³		0.11	6.8	Dibenz(a,e)pyrene		0.061	NA
Benzo (g.h.i)pervlene		0.0055	1.8	1,2-Dibromo-3-chloropropane		0.11	15
	1	0.001	0.4	1,2-Dibromomethane/		0.000	
Benzo(a)pyrene		0,061	3.4	Ethylene dibromide		0.028	15
Bromodichloromethane		0.35	15	Dibromomethane		0.11	15
Bromomethane/Methyl		0.11	45	m Diablarahangana		0.000	
Bromide		0.11	10	m-Dichlorobenzene		0.036	6.0
4-Bromophenyl phenyl ether		0.055	15	o-Dichlorobenzene		0.088	6.0
n-Butyl alcohol		5.6	2.6	p-Dichlorobenzene		0.090	6.0
Butylate		0.0421	1.4 ¹	Dichlorodifluoromethane		0,23	7.2
Butyl benzyl phthalate		0.017	28	1,1-Dichloroethane		0.059	6.0
2-sec-Butyl-4,6-				1 2-Dichloroethane		0.21	6.0
dinitrophenol/Dinoseb		0.066	2.5	1,2-Dichloroethane		0,21	0.0
Carbaryl		0.006 ¹	0.14 ¹	1,1-Dichloroethylene		0.025	6.0
Carbenzadim		0.056 ¹	1.4 ¹	trans-1,2-Dichloroethylene		0.054	30
Carbofuran		0.0061	0.14 ¹	2,4-Dichlorophenol		0.044	14
Carbofuran phenol		0.0561	1.4 ¹	2.6-Dichlorophenol		0.044	14
Carbon disulfide		3.8	4.8 mg/l TCLP ¹	2,4-Dichlorophenoxyacetic acid/2,4-D		0.72	10
Carbon tetrachloride	1	0.057	6.0	1,2-Dichloropropane		0.85	18
Carbosulfan	+	0.0281	1.41	cis-1 3-Dichloropropylene		0.036	18
Chlordane (alpha and gamma	1	3,010			1	5,030	
isomers)		0.0033	0.26	trans-1,3-Dichloropropylene	[0,036	18
p-Chioroaniline	ļ <u>,</u>	0.46	10	Dielarin	ļ	0.017	0.13
Unioropenzene		0,057	0.0	Dieutyi phthalate		0.20	128

Form B1 Page 1 of 3

121272-01

THS Unght Imgko THS CONSTITUENT Different Different 2.4-Dimship renefic 0.00 1.4 Methy method sciences 0.28 0.00 <t< th=""><th>CONSTITUENT</th><th>HOWN</th><th>IUST.</th><th></th><th>ww</th><th>NWW</th><th>CONSTITUENT</th><th>HOW MUST</th><th>WW</th><th>NWW</th></t<>	CONSTITUENT	HOWN	IUST.		ww	NWW	CONSTITUENT	HOW MUST	WW	NWW
CONSTITUEN Construction CONSTITUEN Construction CONSTITUEN Construction Construction <thconstruction< th=""> Construction</thconstruction<>		THIS			(mg/l)	(mg/kg)		THIS	(mg/l)	(mg/kg) 👘
Construction Description Description <thdescription< th=""> <thdescription< th=""></thdescription<></thdescription<>		CONST	ITUEN	IT .		unless		CONSTITUENT		unless
Characteristic 0.13 PM P-Longity-infrazionane 0.12 PM 2.4 Abministy physical 0.037 14 Methyden cylindia 0.04 33 Dir-bruity physical 0.167 28 Methyden cylindia 0.14 33 J-Abministame 0.22 2.3 Methy methansuffonta 0.14 180 J-Abministame 0.23 12.3 Methy methansuffonta 0.014 NA J-Abministame 0.32 12.3 Methy methansuffonta 0.014 4.8 J-Abministame 0.32 140 Methy methansuffonta 0.066 1.4 J-Abministame 0.32 140 Methyden methansuffonta 0.067 1.4 Di-acycythintale 0.32 120 Methyden methansuffonta 0.062 1.4 Di-acycythintale 0.32 130 Abitrophydenta 0.622 NA Di-acycythintale 0.32 140 Phydenta 0.22 NA Di-acycythintale 0.32 120 Phydenta		BE MA	NAGE	D?-	NEW COMPANY	noted with		BE MANAGED?		noted
2.4-Umerty presid 10.83 14 Network provide 0.04 30 2.4-Umerty presid 0.32 2.3 Methy ethylation 0.34 33 3.4-Diarbor provide 0.32 2.3 Methy ethylation 0.014 4.6 2.4-Diarbor provide 0.32 2.3 Methy ethylation 0.014 4.6 2.4-Diarbor provide 0.32 2.3 Methy ethylation 0.036 4.6 2.4-Diarbor provide 0.32 2.3 Methylation 0.067 1.4 2.4-Diarbor provide 0.32 1.4 Methylation 0.067 1.4 2.4-Diarbor provide 0.45 2.8 Methylation 0.067 1.4 2.4-Diarbor provide 0.46 2.4 Methylation 0.067 1.4 Dehenylation 0.46 2.4 Methylation 0.067 1.4 Dehenylation 0.22 2.4 Methylation 0.067 1.4 Dehenylation 0.22 2.4 Methylation 0.067 1.4<	Chlorobenzilate	<			0.10	NA NA	p-Dimethylaminoazobenzene		0.13	NA
Dimension Discription Set NetWork National Discription Discription <td>2,4-Dimethyl phenol</td> <td></td> <td></td> <td></td> <td>0.036</td> <td>14</td> <td>Methylene chloride</td> <td></td> <td>0.089</td> <td>30</td>	2,4-Dimethyl phenol				0.036	14	Methylene chloride		0.089	30
Database Display Sign (Markov) Display Display <thdisplay< th=""> Display Display</thdisplay<>	Dimethyl phthalate				0.047	28			0.28	36
1/2 E-TROUCHER 1/2 - TROUCHER 1/2 - T	DI-n-butyi phthalate			-+	0.057	20	Methyl isobutyl ketone		0.14	33
S. Z. Hill Co-Curston D. C. S. Line D. C. S. Line <thd. c.="" line<="" s.="" th=""> D. C. S. Line D</thd.>	1,4-Dimitrobenzene			+	0.32	160	Methyl methannulfanata		0.14	100
2 - Difficulture 0.32 140 Metric Dub multiple 0.069 1.4 2 - Difficulture 0.85 28 Metric Dub multiple 0.069 1.4 Di-norcy/intersom/ne 0.40 14 Naphthelene 0.059 1.4 Di-norcy/intersom/ne 0.92 13 -Altroauline 0.27 1.4 Diphenyfamine* 0.92 13 -Altroauline 0.27 1.4 Diphenyfamine* 0.92 13 -Altroauline 0.26 28 Diphenyfamine* 0.92 13 -Altroauline 0.26 28 Diphenyfamine* 0.62 28 -Altroauline 0.32 28 Difucationates (tal.) 0.28 28 -Mitroauline 0.42 24 Endositian II 0.028 0.13 N-Mitroachurante 0.40 12 28 Endositian III 0.029 0.13 N-Mitroachurante 0.40 12 23 Endositian Utate 0.029 0.13 N-Mitroachurante <	2 4 Dinitrophonol				0.20	160	Methyl merathion		0.018	INA A C
2.8-Editionablema 0.66 28 Mexacarbare 0.0687 1.4 De-nachy phintesite 0.407 28 Molinate 0.059 6.8 De-nachy phintesite 0.40 14 Nephrophintesite 0.62 N.N DiphonyIntrosomine* 0.92 13* 0-Nitroamilite 0.62 8.8 DiphonyIntrosomine* 0.92 13* 0-Nitroamilite 0.628 28 DiphonyIntrosomine* 0.92 13* 0-Nitroamilite 0.628 28 Divisionamine* 0.92 14* Nitrobenzee 0.068 14 Divisionamine* 0.027 0.068 Nitrobenzee 0.028 28 Divisionamine* 0.027 0.028 0.068 Nitrobenzee 0.028 13* Endoutian I 0.028 0.028 0.018 Nitrosomine* 0.40 2.3 Endoutian II 0.028 0.13 Nitrosomine* 0.40 2.3 Endoutian II 0.028 0.14 Nitrosomine* <	2.4-Dinitrophenol			+	0.12	140	Metolcarb		0.014	4.0
Dis-Body Doins Doins Doins Doins Dis-Body Hollingta 0.40 14 Nanchishere 0.65 6.6 14-Discance 12.0 170 2-Vaphthylamine 0.658 6.6 Dipherydninitosamine* 0.92 13' 2-Viscanelline 0.028 28 Dipherydninitosamine* 0.92 13' 2-Viscanelline 0.028 28 Dipherydninitosamine* 0.067 NA Nitocherzane 0.068 14 Dibusthylamine 0.067 NA Nitocherzane 0.028 28 Disulton 0.017 6.2 6.41 0.028 13' Endosulfan II 0.029 0.13 N-Nitrosoditrydymine 0.40 2.8 Endosulfan III 0.0228 0.13 N-Nitrosoditrydymine 0.40 2.3 Endosulfan III 0.0228 0.13 N-Nitrosoditrydymine 0.40 2.3 Endosulfan III 0.0228 0.13 N-Nitrosoditrydymine 0.40 2.8 <	2.4-Dinitrotoluene			+	0.52	28	Mexacarbate		0.050	1.4
Dispergiptilitesamile 0.40 14 Nepthelene 0.059 6.5 L/Diparginitesamile 12.0 170 2-Naphtyminite 0.52 NN Dipherginitesamile 0.92 13° p-Nitroaniline 0.228 23° 1_2-Dipherginitesamile 0.028 23° p-Nitroaniline 0.028 28 1_2-Dipherginitesamile 0.028 28° Nitroberzene 0.026 14 Dihlocatisamile 0.023 0.03 Nitroberzene 0.028 13° Endosuftan 0.023 0.066 p-Nitrophenol 0.022 13° Endosuftan suffate 0.029 0.13 N-Nitrosodinthylightymine 0.40 28° Endosuftan suffate 0.029 0.13 N-Nitrosonthylightymine 0.40 17 Endosuftan suffate 0.024 1.4 N-Nitrosonthylightymine 0.40 17 Endosuftan suffate 0.024 1.4 N-Nitrosonthylightymine 0.40 2.3 Endosuftan suffate 0.024 1.4 <	Di-n-octyl phthalate			+	0.00	28	Molinate		0.000	1.4
1.4.Dispane 12.0 170 2.4.Vaphtykamine 0.52 1.4. Dipherydnitreamine* 0.92 13* 0-Hitspanine 0.27* 14* Dipherydnitreamine* 0.92 13* 0-Hitspanine 0.028 28 Diputydnitreamine* 0.92 13* 0-Hitspanine 0.028 28 Disulton 0.017 6.2 5-Nito-cholidine 0.028 28 Disulton 0.028 2.8* 0-Nitophenol 0.028 13* Endosufin sulfate 0.029 0.13 N-Nitosodinet/yamine 0.40 28 Endosufin sulfate 0.029 0.13 N-Nitosodinet/yamine 0.40 2.3 Endosufin sulfate 0.028 0.13 N-Nitosocierthue 0.13 35 Endosufin sulfate 0.042* 1.4* N-Nitosocierthue 0.013 35 Endosufin sulfate 0.042* 1.4* N-Nitosocierthue 0.013 35 Endosufin sulfate 0.24 360 Notitosocierthue 0.014 <td>Di-n-propylnitrosamine</td> <td></td> <td></td> <td>+</td> <td>0.40</td> <td>14</td> <td>Naphthalene</td> <td></td> <td>0.059</td> <td>5.6</td>	Di-n-propylnitrosamine			+	0.40	14	Naphthalene		0.059	5.6
Optimizing 0.92 13' 0-Nitropalline 0.27' 14' 12-Dipherylhydrazine 0.92 13' 0-Nitropalline 0.028 28 12-Dipherylhydrazine 0.027 14' 0-Nitropalline 0.028 28 Dihlocarbarnates (tota) 0.028 28' 0-Nitrophenol 0.023 13' Endosulfan 0.028 0.13 N-Nitrosodiethylamine 0.40 28' Endosulfan 0.029 0.13 N-Nitrosodiethylamine 0.40 2.3' Endin 0.028 0.13 N-Nitrosodiethylamine 0.40 2.3' Endin 0.022 1.4' N-Nitrosocienthylamine 0.40 2.3' Endin 0.022 1.3' N-Nitrosocienthylamine 0.40 2.3' Endin attrate 0.34' 3' N-Nitrosocienthylamine 0.41 3.5' Endy canade/Propanentrifie 0.24' 36' Oza'' 2.3' Color 2.3' Endin attrate 0.24' 16' Doza''	1 4-Dioxane			+	12.0	170	2-Naphthylamine		0.52	NA NA
Dipherphiltrosamine 0.028 13" p-Nitroanline 0.028 128 Disulforn 0.067 NA Nitrobertantes 0.068 14 Disulforn 0.028 28 0-Nitrophenol 0.022 28 Endosulfan I 0.028 28 0-Nitrophenol 0.12 29 Endosulfan II 0.029 0.13 N-Nitrosodientylamine 0.40 2.3 Endosulfan II 0.029 0.13 N-Nitrosodientylamine 0.40 2.3 Endosulfan II 0.028 0.13 N-Nitrosodientylamine 0.40 2.3 Endosulfan II 0.028 0.13 N-Nitrosodientylamine 0.40 2.3 Endosulfan II 0.028 0.13 N-Nitrosontpheline 0.40 2.3 Endosulfan II 0.026 0.13 N-Nitrosontpheline 0.40 2.3 Eltyl acata 0.057 10 N-Nitrosontpheline 0.41 2.3 Eltyl acata 0.24 36 Oxamyl 0.566 0.28	Diphenylamine ³			†	0.92	131	o-Nitroaniline		0.271	141
12.25 [pherwykydrazine 0.067 NA Nitrobenzene 0.068 14 Disuldon 0.017 6.2 5-Nitrophenol 0.322 28 Dithicorthamates (tota) 0.028 28 0-Nitrophenol 0.121 29 Endosulfan I 0.023 0.066 p-Nitrophenol 0.40 28 Endosulfan II 0.029 0.13 N-Nitrosodiethylamine 0.40 2.3 Endon 0.028 0.13 N-Nitrosodiethylamine 0.40 2.3 Endin 0.028 0.13 N-Nitrosodiethylamine 0.40 2.3 Ethyl assistion 0.0421 1.4' N-Nitrosophyndine 0.40 2.3 Ethyl assistion 0.0427 1.4' N-Nitrosophyndine 0.41 2.3 Ethyl assistion 0.0427 1.4' N-Nitrosophyndine 0.41 2.3 Ethyl assistion 0.0427 1.4' N-Nitrosophyndine 0.013 35 Ethyl assistion 0.24 380 Oxamyl 0.0614 <	Diphenylnitrosamine ³				0.92	131	p-Nitroaniline		0.028	28
Disultion 0.017 6.2 5-Nite-3-folduline 0.028 28 Endesufan I 0.028 24° -Nitrophenol 0.027 13' Endesufan II 0.028 0.066 p-Nitrophenol 0.12 29 Endesufan II 0.029 0.13 N-Nitrosodientylamine 0.40 2.3' Endenular suffate 0.029 0.13 N-Nitrosodientylamine 0.40 2.3' Endenular Suffate 0.022 0.13 N-Nitrosodientylamine 0.40 2.3' Endenular Suffate 0.026 0.13 N-Nitrosomorpholine 0.40 2.3' Ethyl ancate 0.042' 1.4' N-Nitrosomorpholine 0.40 2.3' Ethyl senate 0.34' 38 N-Nitrosomorpholine 0.013 35 Ethyl senate 0.34' 38' Control 0.014' 4.5' Ethyl senate 0.12' 160 Parathion 0.014' 4.5' Ethyl senate 0.12' NA Pentechoroberase of al Acolors) <td< td=""><td>1.2-Diphenvihvdrazine</td><td></td><td></td><td></td><td>0.087</td><td>NA</td><td>Nitrobenzene</td><td></td><td>0,068</td><td>14</td></td<>	1.2-Diphenvihvdrazine				0.087	NA	Nitrobenzene		0,068	14
Dihlocarbanates (dtal) 0.028 28' 0-Nitrophenol 0.028' 13'' Endosulfan II 0.029 0.13 N-Nitrosodiethylamine 0.40 28' Endosulfan II 0.029 0.13 N-Nitrosodiethylamine 0.40 28' Endin II 0.029 0.13 N-Nitrosodimethylamine 0.40 2.3' Endin II 0.028 0.13 N-Nitrosodimethylamine 0.40 2.3' Endin II 0.028' 0.13 N-Nitrosodimethylamine 0.40 2.3' Ethyl astropholine 0.040 2.3' N-Nitrosophylamine 0.40 2.3' Ethyl astropholine 0.041 14' N-Nitrosophylamine 0.41 2.3' Ethyl astropholine 0.024' 14' N-Nitrosophylamine 0.01' 4.6' Ethyl astropholine 0.12' 10 N-Nitrosophylamine 0.01' 4.6' Ethyl astropholine 0.14' 160 Peatropholine 0.01' 10' Ethyl astropholine 0.14' 160	Disulfoton				0.017	6.2	5-Nitro-o-toluidine		0,32	28
Endesulfan I 0.023 0.066 p-Nitrophenol 0.12 29 Endesulfan II 0.029 0.13 N-Nitrosaddirbylamine 0.44 2.3' Endoulfan sulfate 0.029 0.13 N-Nitrosaddirbylamine 0.44 2.3' Endrin 0.0226 0.13 N-Nitrosad-th-bulylamine 0.44 2.3 EPrid control 0.042' 1.4' N-Nitrosamethylethylamine 0.44 2.3 Ethyl anzane 0.042' 1.4' N-Nitrosamethylethylamine 0.013 36 Ethyl anzane 0.042' 1.4' N-Nitrosampoline 0.013 36 Ethyl anzane 0.12 160 Parathion 0.014' 4.6 Elg(2-Ethylnexyl)phthalate 0.12 160 Parathion 0.014' 4.6 Elg(2-Ethylnexyl)phthalate 0.12 NA Pentachoroberzene 0.025' 10' Ethyl anzanization 0.017 15 Pentachoroberzene 0.055' 10' Ethyl anzanization anzanionandibanza-p-dioxnis 0.00035	Dithiocarbamates (total)				0,028	281	o-Nitrophenol		0.0281	13 ¹
Endosulfan II 0.029 0.13 N-Nitrosodinethylamine 0.40 28 Endosulfan sulfate 0.029 0.13 N-Nitrosodinethylamine 0.40 2.3' Endrin 0.028 0.13 N-Nitrosodinethylamine 0.40 2.3' Endrin aldehyle 0.027 0.13 N-Nitrosodinethylyamine 0.40 2.3' Ethyl acetate 0.042' 1.4' N-Nitrosodinethylyamine 0.40 2.3' Ethyl berzene 0.057' 10 N-Nitrosodinethylamine 0.068' 0.22' Ethyl berzene 0.057' 10 N-Nitrosodinethylamine 0.068' 0.22' Ethyl ethor 0.12 160 Parathion 0.014' 4.6 Bia(2-Ethylhexylphthalate 0.14 160 Pearathion 0.042' 1.4' Ethyl methacrylate 0.14 160 Pearathionobenzone 0.065' 10' Ethyl methacrylate 0.14 160 Pearathionobenzone 0.065' 0.01' Ethyl methacrylate 0.047' 15<	Endosulfan I				0.023	0.066	p-Nitrophenol		0.12	29
Endouling sulfate (0.292 0.13 N-Nitrosco-dri-hytylamine (0.40) 2.3' Endrin (0.028 0.13 N-Nitrosco-dri-hytylamine 0.40 17 Endrin aldehyde (0.026 0.13 N-Nitroscompthylathylamine 0.40 2.3 Eftyl acetate (0.042 1.4' N-Nitroscopprolotine 0.013 35 Eftyl parate (0.042 1.4' N-Nitroscopprolotine 0.013 35 Eftyl parate (0.12 160 Oxarnyl (0.056' 0.23' Eftyl enter (0.12 160 Parathion (0.14 4.6 Elfyl-tehre (0.14 160 Pachata (0.01 10 Elfyl enter (0.14 160 Pachata (0.01 11 Ehryl acetate (0.14 160 Pachata (0.025' 1.0' Elfyl enter (0.017 15 PactObs (All (0.0035' 0.001 Fluorante (0.056' 1.4' Pattachorodbenzortrans) (0.	Endosulfan II				0,029	0.13	N-Nitrosodiethylamine		0.40	28
Endin 0.0028 0.13 N-Nitrosend-H-butylamine 0.40 17 Endin alder/yda 0.025 0.13 N-Nitrosender/heleflyamine 0.40 2.3 EPTC 0.042' 1.4' N-Nitrosender/heleflyamine 0.40 2.3 Ethyl benzene 0.057 10 N-Nitrosegpernel/nel 0.013 35 Ethyl benzene 0.057 10 N-Nitrosegpernel/nel 0.056' 0.22' Ethyl ether 0.12 160 Parathon 0.061' 0.24' 1.4' Ethyl ether 0.12 160 Parathon 0.014' 4.6 Bis(2-Ethylhexylphthalate 0.28 28 isomers or al Arociors) A 0.10' 10' Ethyl endox/ate 0.14 160 Pentablorobenzene 0.062'' 10' Fuoranthene 0.068 3.4 PercDis (All 0.000035 0.001 Fluorene 0.056' 1.4' Pentachlorobenzene 0.055 6.0 Fuorene 0.055 1.4' <	Endosulfan sulfate				0.029	0.13	N-Nitrosodimethylamine		0,40	2.31
Endra aldehyde 0.025 0.13 N-Nitrosomethylethylamine 0.40 2.3 Efryd acetale 0.34 33 N-Nitrosompholine 0.40 2.3 Ethyd acetale 0.34 33 N-Nitrosophonoline 0.013 35 Ethyd pandle/Propanenitrile 0.24 360 Oxamy 0.056*/ 0.28' Ethyl pandle/Propanenitrile 0.24 360 Oxamy 0.064*/ 4.6 Ethyl pandle/Propanenitrile 0.24 360 Oxamy 0.014 4.6 Ethyl pandle/Propanenitrile 0.24 360 Oxamy 0.014 4.6 Ethyl acetale 0.12 NA Parathlon 0.014 4.6 Ethyl methacrylate 0.12 NA Pentachloroberzene 0.055 10* Floorene 0.056*// 3.4 Pentachloroberzene 0.055 6.0 Floorene 0.056*// 1.4* Pentachloroberzene 0.055 6.0 Floorene 0.055 1.4* Pentachloroberzene 0.055<	Endrin		1		0.0028	0.13	N-Nitroso-di-n-butylamine		0.40	17
EPTC 0.042 ⁺ 1.4 ⁺ N-Nitroscomproline 0.043 2.3 Ethyl acetate 0.357 10 N-Nitroscopyrolidine 0.013 35 Ethyl benzene 0.057 10 N-Nitroscopyrolidine 0.014 4.6 Ethyl ether 0.12 160 Parethon 0.014 4.6 Ethyl ether 0.12 160 Parethon 0.014 4.6 Ethyl methacrylate 0.14 160 Parethon 0.042 ⁺ 1.4 ⁺ Ethyl methacrylate 0.14 160 Parethon/obsenzene 0.055 ⁺ 10 ⁻ Ethylene oxide 0.14 160 Petachiorobenzene 0.065 ⁺ 10 ⁻ Famphur 0.017 15 Petachorobenzene 0.055 ⁺ 6.0 Fluorente 0.068 3.4 Petachorobenzene 0.055 ⁺ 6.0 Fluorente 0.055 1.4 ⁺ Petachorobenzene 0.055 ⁺ 6.0 Fluorente 0.065 1.6 ⁺ Petachorobrobenzene 0.055 ⁺	Endrin aldehyde				0.025	0.13	N-Nitrosomethylethylamine		0.40	2.3
Ethyl acetate 0.34 33 N-Nitrosopiperidine 0.013 35 Ethyl expinde/Propanelhile 0.027 10 N-Nitrosopiperidine 0.013 35 Ethyl expinde/Propanelhile 0.24 360 Oxarnyl 0.056 ¹ 0.24 Ethyl expinde/Propanelhile 0.24 360 Oxarnyl 0.014 4.6 Ethyl expinde/Propanelhile 0.24 180 Parathion 0.014 4.6 Ethyl enenenlikie 0.22 Total PCBs (sum of all PCB 0.042 ¹ 1.4 ¹ Ethylene oxide 0.14 160 PeolDa (skiinobenzane 0.055 ¹ 10 ¹ Famphur 0.017 15 Petachiorobitenzonrans) 0.00035 0.001 Fluorene 0.068 3.4 Petachiorobitenzonrans) 0.00035 0.001 Fluorene 0.055 3.4 Petachiorobitenzonrans) 0.056 6.0 Formetanata hydrochoide 0.066 ¹ 1.4 ¹ Petachiorobitenzonrans) 0.055 6.8 Fepacabitor opoxide 0.016 <td< td=""><td>EPTC</td><td></td><td></td><td></td><td>0.0421</td><td>1.4'</td><td>N-Nitrosomorpholine</td><td></td><td>0.40</td><td>2.3</td></td<>	EPTC				0.0421	1.4'	N-Nitrosomorpholine		0.40	2.3
Ethyl berzene 0.057 10 N-Nirosopyroldine 0.013 35 Ethyl dehar 0.24 360 Oxamy 0.056 ⁺ 0.28 ⁺ Ethyl dehar 0.12 160 Parathion 0.014 4.6 Bil(2-Ethylnexyl)phthalate 0.28 28 Total PCBs (sum of all PCB (sum	Ethyl acetate				0.34	33	N-Nitrosopiperidine		0.013	35
Ethyl cyandte/Propanenitrile 0.24 380 Oxamyl 0.066' 0.28' Ethyl ether 0.12 160 Parathilon 0.014 4.6 Bis(2-Ethylhexyl)phthalate 0.28 28 Total PCBs (sum of all PCB isomers or all Aroctors) A 0.10 10 Ethyl methacrylate 0.14 160 Pebulate 0.042' 1.4' Ethyl methacrylate 0.12 NA Pentachlorobenzene 0.065' 10' Ethyl methacrylate 0.017 15 PectOS (All Pentachloroitherap-p-dioxins) 0.000035 0.001 Fluorantene 0.068 3.4 Pentachloroithorothane 0.055 6.0 Fluorante 0.055 3.4 Pentachloroithorothane 0.055 6.0 Formetanate hydrocholde 0.056 1.4' Pentachloroithorophenol 0.088 7.4 Heptachlor 0.061 0.066 Phenacetin 0.056' 6.2 Heptachlorophonel 0.055 1.4' Pentachlorophonel 0.056' 5.6 Hestach	Ethyl benzene				0.057	10	N-Nitrosopyrrolidine		0.013	35
Ethylether 0.12 160 Parathion 0.014 4.6 Bis/2-Ethylnexylphthalate 0.28 28 Total PCBs (sum of all PCBs A 0.10 10 Bis/2-Ethylnexhylphthalate 0.14 160 Pebulate 0.042' 1.4' Ethylene oxide 0.12 NA Pentachloroditenzo-p-dioxins) 0.00035 0.001 Famphur 0.017 15 Pectors (All pectors) 0.000035 0.001 Fluorente 0.068 3.4 Pentachloroditenzofurans) 0.000035 0.001 Fluorene 0.066' 1.4' Pentachloroditenzofurans) 0.00035 6.0 Formetanate hydrochloride 0.066' 1.4' Pentachloroditenzofurans) 0.00035 6.0 Heptachlor 0.066' 1.4' Pentachlorophenol 0.083 7.4 Heptachlorobenzene 0.055 5.6 Phenactin 0.021 4.6 Hexachlorobenzene 0.055 5.6 Phenactin 0.039 6.2 Hexachlorobenzene 0.055<	Ethyl cyanide/Propanenitrile				0.24	360	Oxamyl		0.056	0.28'
Bis(2-Ethylhexyl)phthalate 0.28 28 Iotal PCBs (sum car al Arcolors) A 0.10 10 Ethyl methacrylate 0.14 160 Pebulate or all Arcolors) 0.042" 1.4" Ethylene oxide 0.12 NA Pentachlorobenzene 0.065" 10" Famphur 0.017 15 Pentachlorobienzo-p-dioxins) 0.000035 0.001 Fluoranthene 0.066 3.4 Pentachlorobienzo-p-dioxins) 0.000035 0.001 Fluorene 0.0650 3.4 Pentachlorobienzo-p-dioxins) 0.000035 6.0 Fluorene 0.065 1.4" Pentachlorobicnetanae 0.055 6.0 Formetanate hydrochioride 0.065 1.4" Pentachlorobenzene 0.088 7.4 Heptachlor opoxide 0.016 0.066 Pentachlorobenzene 0.089 6.6 Hexachloroburane 0.055 5.6 Phenol 0.039 6.2 Hexachloroburane 0.055 3.0 Physostigmine 0.056" 1.4" Hexachlorobur	Ethyl ether				0.12	160	Parathion		0.014	4.6
Ethy methacrylate 0.14 160 Pebulate 0.042 1.4' Ethylene oxide 0.12 NA Pentachloroblenzene 0.055' 10' Famphur 0.017 15 PecCDIS (All PecCDS (All Petachloroblenzep-clioxins) 0.000035 0.001 Fluoranthene 0.068 3.4 Pentachloroblenzop-clioxins) 0.000035 0.001 Fluoranthene 0.059 3.4 Pentachloroblenzop-clioxins) 0.000035 0.001 Fluorante 0.058 3.4 Pentachloroblenzop-clioxins) 0.000035 0.001 Fluorante 0.059 3.4 Pentachloroblenzop-clioxins) 0.00035 0.001 Heptachlor epoxide 0.012 0.066 Phenacetin 0.081 16 Hexachlorobucideine 0.055 5.6 Phenol 0.039 6.2 Hexachlorobucideine 0.057 2.4 Phorate 0.021 4.6 McCDF (All 0.00063 0.001 Phthalic anlydride 0.056' 1.4' Hexachlorophenylene 0.035<	Bis(2-Ethylhexyl)phthalate				0,28	28	Total PCBs (sum of all PCB isomers or all Aroclors)	А	0.10	10
Ethylene oxide 0.12 NA Pentachlorobenzene 0.055 ⁺ 10 ⁺ Famphur 0.017 15 PecDDs (All Pentachlorodibenzo-p-dioxins) 0.00035 0.001 Fluoranthene 0.068 3.4 Pentachlorodibenzofurans) 0.00035 0.001 Fluorene 0.059 3.4 Pentachlorodibenzofurans) 0.055 6.0 Formetanate hydrochloride 0.056 ⁺ 1.4 ⁺ Pentachlorobenzene 0.055 4.8 Heptachlor 0.0012 0.066 Pentachlorobenzene 0.059 5.6 Hexachlorobenzene 0.055 5.6 Phenactin 0.039 6.2 Hexachlorobenzene 0.055 5.6 Phenol 0.039 6.2 Hexachlorobenzene 0.057 2.4 Phorate 0.021 4.6 Hexachlorobenzene 0.056 ⁺ 3.0 Physostigmine 0.055 ⁺ 28 ⁺ Hexachloropclopentaleine 0.055 3.0 Physostigmine salicylate 0.056 ⁺ 1.4 ⁺ Hexachloroptylene 0.035	Ethyl methacrylate		1		0.14	160	Pebulate		0.042 ¹	1.41
Famphur 0.017 15 PecDDs (All Pentachlorodibenzo-p-dioxins) 0.00035 0.001 Fluoranthene 0.068 3.4 PecDFs(All Pentachlorodibenzofurans) 0.00035 0.001 Fluorene 0.059 3.4 Pentachlorodibenzofurans) 0.0055 6.0 Formetanate hydrochloride 0.056 1.4' Pentachloronitrobenzene 0.055 4.8 Heptachlor 0.0012 0.066 Pentachloronitrobenzene 0.059 5.6 Hexachlorobuzote 0.055 5.6 Phenol 0.039 6.2 Hexachlorobuzote 0.057 2.4 Phorate 0.021 4.6 Hexachlorobuzote 0.057 2.4 Phorate 0.021 4.6 Hexachlorodibenzo-p-dioxins) 0.00063 0.001 Phthalic acid 0.055' 28' Hexachlorodibenzofurans) 0.00063 0.001 Phthalic anhydride 0.056' 1.4' Hexachlorodibenzofurans) 0.055 30 Physostigmine salicylate 0.056' 1.4' Hexachlororophyle	Ethylene oxide		1		0.12	NA	Pentachlorobenzene		0.0551	10 ¹
Fluoranthene 0.068 3.4 PecDFs(All Pentachlorodibenzofurans) 0.000035 0.001 Fluorene 0.059 3.4 Pentachlorodibenzofurans) 0.055 6.0 Formetanate hydrochloride 0.059 1.4' Pentachloronitrobenzene 0.055 6.0 Heptachlor 0.012 0.066 Pentachloronitrobenzene 0.081 16 Hexachlorobenzene 0.055 5.6 Phenactin 0.081 16 Hexachlorobudadiene 0.055 5.6 Phenol 0.039 6.2 Hexachlorobudadiene 0.057 2.4 Phorate 0.021 4.6 HxCDFs (All 0.000063 0.001 Phthalic acid 0.055 28 ⁴ Hexachlorobudatane 0.055 30 Physostigmine 0.056' 1.4' Hexachloropropylene 0.035 3.4 Promecarb 0.056' 1.4' Hexachloropropylene 0.035 3.4 Promecarb 0.056' 1.4' Indeno(1,2,3-c,d)pyrene 0.055 3.4 <	Famphur		Ι		0.017	15	PeCDDs (All Pentachlorodibenzo-p-dioxins)		0.000035	0.001
Fluorene 0.059 3.4 Pentachloroethane 0.055 6.0 Formetanate hydrochloride 0.066 ⁺ 1.4 ⁺ Pentachloronitrobenzene 0.055 4.8 Heptachlor 0.0012 0.066 Phentachloronitrobenzene 0.089 7.4 Heptachlor epoxide 0.016 0.066 Phenacetin 0.081 16 Hexachlorobutadiene 0.055 10 Phenanthrene 0.059 5.6 Hexachlorobutadiene 0.057 2.4 Phorate 0.021 4.6 HxCDDs (All 0.00063 0.001 Phtalic acid 0.055 28 ¹ Hxachlorobutadiene 0.055 30 Physostigmine alloylate 0.056 ⁺ 1.4 ⁺ Hexachloroptropylene 0.035 30 Physostigmine alloylate 0.056 ⁺ 1.4 ⁺ Hexachloroptropylene 0.035 3.4 Promecarb 0.066 ⁺ 1.4 ⁺ Idexachloroptropylene 0.035 3.4 Promecarb 0.066 ⁺ 1.4 ⁺ Idexachloroptropylene 0.035	Fluoranthene				0,068	3.4	PeCDFs(All Pentachlorodibenzofurans)		0.000035	0.001
Formetanate hydrochloride 0.056' 1.4' Pentachloronitrobenzene 0.055 4.8 Heptachlor 0.0012 0.066 Pentachlorophenol 0.089 7.4 Heptachlor epoxide 0.016 0.066 Phenacetin 0.081 16 Hexachlorobenzene 0.055 10 Phenanthrene 0.059 5.6 Hexachlorocyclopentadiene 0.057 2.4 Phorate 0.021 4.6 Hexachlorocyclopentadiene 0.057 2.4 Phorate 0.021 4.6 Hexachlorocyclopentadiene 0.055 30 Phthalic acid 0.055' 28 ¹ Hexachlorocyclopentadiene 0.035 30 Physostigmine salicylate 0.056' 1.4' Hexachloropylene 0.035 3.4 Promecarb 0.056' 1.4' Indeno(1,2,3-c,d)pyrene 0.056 7.7 Propharm 0.056' 1.4' Idexachloropylene 0.021 0.066 Propxur 0.056' 1.4' Isodrin 0.021 0.066	Fluorene	{	-,,		0.059	3.4	Pentachloroethane		0.055	6.0
Heptachlor 0.0012 0.066 Pentachlorophenol 0.089 7.4 Heptachlor epoxide 0.016 0.066 Phenactin 0.081 16 Hexachlorobenzene 0.055 10 Phenacthrene 0.059 5.6 Hexachlorocyclopentadlene 0.057 2.4 Phorate 0.021 4.6 HXCDDS (All 0.000063 0.001 Phthalic acid 0.055 28 ⁴ Hexachlorocyclopentadlene 0.055 30 Physostigmine 0.055 ⁴ 28 ⁴ Hexachlorodibenzofurans) 0.000063 0.001 Phthalic acid 0.055 ⁴ 28 ⁴ Hexachlorodibenzofurans) 0.000063 0.001 Phthalic acid 0.055 ⁴ 1.4 ⁴ Hexachlorodibenzofurans) 0.00005 3.0 Physostigmine 0.056 ⁴ 1.4 ⁴ Hexachlorophylene 0.035 3.4 Promecarb 0.056 ⁵ 1.4 ⁴ Indenci(1,2,3-c,d)pyrene 0.021 0.066 Propham 0.056 ⁵ 1.4 ⁴ Isobutyl alcohol 5.6	Formetanate hydrochloride				0.056 ¹	1.41	Pentachloronitrobenzene		0.055	4.8
Heptachlor spoxide 0.016 0.066 Phenacetin 0.081 16 Hexachloroberzene 0.055 10 Phenanthrene 0.059 5.6 Hexachlorobutadiene 0.057 2.4 Phorate 0.021 4.6 Hxachlorobutadiene 0.057 2.4 Phorate 0.021 4.6 Hxachlorobutadiene 0.055 30 Phthalic acid 0.055 28 ¹ Hexachlorodibenzo-p-dioxins) 0.00063 0.001 Phthalic anhydride 0.055 28 ¹ Hexachlorodibenzofurans) 0.0055 30 Physostigmine 0.056 ¹ 1.4 ¹ Hexachlorodibenzofurans) 0.035 30 Physostigmine salicylate 0.056 ¹ 1.4 ¹ Hexachlorobuthane 0.019 65 Pronamide 0.056 ¹ 1.4 ¹ Indexnol12,2,3-c,d)pyrene 0.0055 3.4 Promearb 0.056 ¹ 1.4 ¹ Indexnol12,2,3-c,d)pyrene 0.019 65 Prosulfocarb 0.056 ¹ 1.4 ¹ Isodrin 0.021 0	Heptachlor				0.0012	0.066	Pentachlorophenol		0.089	7.4
Hexachlorobenzene 0.055 10 Phenanthrene 0.059 5.6 Hexachlorocyclopentadiene 0.057 5.6 Phenol 0.039 6.2 Hexachlorocyclopentadiene 0.057 2.4 Phorate 0.021 4.6 HxCDDs (All Hexachlorocibenzop-dioxins) 0.000063 0.001 Phthalic acid 0.055 28 ⁴ Hexachlorocibenzofurans) 0.000063 0.001 Phthalic anhydride 0.055 28 ⁴ Hexachlorocibenzofurans) 0.0055 30 Physostigmine salicylate 0.056 ⁵ 1.4 ⁴ Hexachloropropylene 0.035 30 Physostigmine salicylate 0.056 ⁵ 1.4 ⁴ Iodomethane 0.19 65 Promecarb 0.056 ⁵ 1.4 ⁴ Iodomethane 0.021 0.066 Propoxur 0.056 ⁵ 1.4 ⁴ Isodrin 0.021 0.066 Propxur 0.056 ⁵ 1.4 ⁴ Isodrin 0.021 0.066 Propxur 0.066 ⁵ 1.4 ⁴ Isodrin 0.024 8.4 <td>Heptachlor epoxide</td> <td>1</td> <td></td> <td></td> <td>0.016</td> <td>0.066</td> <td>Phenacetin</td> <td></td> <td>0.081</td> <td>16</td>	Heptachlor epoxide	1			0.016	0.066	Phenacetin		0.081	16
Hexachlorobutadiene 0.055 5.6 Phenol 0.039 6.2 Hexachlorocyclopentadiene 0.057 2.4 Phorate 0.021 4.6 HxCDDS (All 0.00063 0.001 Phthalic acid 0.055 ⁴ 28 ⁴ HxCDDS (All 0.00063 0.001 Phthalic anhydride 0.055 28 ⁴ Hexachlorocibenzofurans) 0.00063 0.001 Phthalic anhydride 0.055 28 ⁴ Hexachlorocibenzofurans) 0.0055 30 Physostigmine 0.056 ⁴ 1.4 ⁴ Hexachloropropylene 0.0055 3.4 Promecarb 0.066 ⁴ 1.4 ⁴ Indeno(1, 2, 3-c, d)pyrene 0.0055 3.4 Promecarb 0.066 ⁴ 1.4 ⁴ Iodomethane 0.19 65 Pronamide 0.093 1.5 Isobutyl alcohol 5.6 170 Propham 0.056 ⁴ 1.4 ⁴ Isosafrole 0.021 0.066 Prosulfocarb 0.042 ⁴ 1.4 ⁴ Isosafrole 0.024 84 Pyrdine <td>Hexachlorobenzene</td> <td></td> <td></td> <td></td> <td>0.055</td> <td>10</td> <td>Phenanthrene</td> <td></td> <td>0.059</td> <td>5.6</td>	Hexachlorobenzene				0.055	10	Phenanthrene		0.059	5.6
Hexachlorocyclopentadiene 0.057 2.4 Phorate 0.021 4.6 HxCDDs (All Hexachlorodibenzo-p-dioxins) 0.000063 0.001 Phthalic acid 0.055 ⁴ 28 ⁴ Hexachlorodibenzo-p-dioxins) 0.000063 0.001 Phthalic anhydride 0.055 28 ⁴ Hexachlorodibenzo-proglene 0.055 30 Physostigmine 0.056 ⁴ 1.4 ⁴ Hexachloropropylene 0.035 30 Physostigmine salicylate 0.056 ⁴ 1.4 ⁴ Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056 ⁴ 1.4 ⁴ Iodomethane 0.19 65 Propharm 0.056 ⁴ 1.4 ⁴ Isobutyl alcohol 5.6 170 Propharm 0.056 ⁴ 1.4 ⁴ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ⁴ 1.4 ⁴ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Wethacrylonitrile 0.24 84 Pyridine 0.041 16 Wethacrylonitrile 0.24 <td< td=""><td>Hexachlorobutadiene</td><td></td><td></td><td></td><td>0,055</td><td>5.6</td><td>Phenol</td><td></td><td>0.039</td><td>6.2</td></td<>	Hexachlorobutadiene				0,055	5.6	Phenol		0.039	6.2
HxCDDs (All Hexachrorodibenzo-p-dioxins) 0.000063 0.001 Phthalic acid 0.055 ¹ 28 ¹ HxCDFs (All Hexachlorodibenzofurans) 0.000063 0.001 Phthalic anhydride 0.055 28 ¹ Hexachlorodibenzofurans) 0.0055 30 Physostigmine 0.056 ¹ 1.4 ¹ Hexachloropropylene 0.035 30 Physostigmine salicylate 0.066 ¹ 1.4 ¹ Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056 ¹ 1.4 ¹ Iodomethane 0.19 65 Pronamide 0.095 ¹ 1.4 ¹ Isobutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isosafrole 0.0011 0.166 Prosulfocarb 0.042 ¹ 1.4 ¹ Isosafrole 0.0011 0.13 Pyrene 0.067 8.2 Wethacrylonitrile 0.24 84 Pyreine 0.067 8.2 Wethacrylonitrile 0.026 ¹ 1.4 ¹ 1.2,4,5-Tetrachlorobenzene 0.055 14 Methograph <t< td=""><td>Hexachlorocyclopentadiene</td><td></td><td></td><td></td><td>0.057</td><td>2.4</td><td>Phorate</td><td></td><td>0.021</td><td>4.6</td></t<>	Hexachlorocyclopentadiene				0.057	2.4	Phorate		0.021	4.6
HxCDFs (All Hexachlorodibenzofurans) 0.00063 0.001 Phthalic anhydride 0.055 281 Hexachlorodibenzofurans) 0.055 30 Physostigmine 0.056' 1.4' Hexachloroptopylene 0.035 30 Physostigmine salicylate 0.056' 1.4' Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056' 1.4' Indeno(1,2,3-c,d)pyrene 0.019 65 Pronamide 0.056' 1.4' Iodomethane 0.19 65 Pronamide 0.056' 1.4' Isobrit/ alcohol 5.6 170 Propharm 0.056' 1.4' Isobrit/ alcohol 0.021 0.066 Propoxur 0.056' 1.4' Isosafrole 0.081 2.6 Prosulfocarb 0.042' 1.4' Kepone 0.0011 0.13 Pyrene 0.0667 8.2 Wethacrylonitrile 0.24 84 Pyridine 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0	HxCDDs (All Hexachrorodibenzo-p-dioxins)				0.000063	0.001	Phthalic acid		0.055 ¹	281
Hexachloroethane 0.055 30 Physostigmine 0.066 ¹ 1.4 ¹ Hexachloropropylene 0.035 30 Physostigmine salicylate 0.056 ¹ 1.4 ¹ Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056 ¹ 1.4 ¹ Iodomethane 0.19 65 Pronamide 0.093 1.5 Isobutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isodarin 0.021 0.066 Propxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methaorylnitrile 0.24 84 Pyridine 0.081 22 Methaol 5.6 0.75 mg/1 ¹ Safrole 0.081 22 Methaorylinene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methaorylinene 0.028 ¹ 0.14 ¹ TCDDs (All TCDDs (All 0.00063 <td>HxCDFs (All Hexachlorodibenzofurans)</td> <td>T</td> <td></td> <td></td> <td>0.000063</td> <td>0.001</td> <td>Phthalic anhydride</td> <td></td> <td>0.055</td> <td>28¹</td>	HxCDFs (All Hexachlorodibenzofurans)	T			0.000063	0.001	Phthalic anhydride		0.055	28 ¹
Hexachloropropylene 0.035 30 Physostigmine salicylate 0.056 ¹ 1.4 ¹ Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056 ¹ 1.4 ¹ Iodomethane 0.19 65 Pronamide 0.093 1.5 Isobutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isodrin 0.021 0.066 Propoxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.081 22 Methacrylonitrile 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methocarb 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methoxychlor 0.25 0.18 TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDDFs (All Tetrachlorodibenz	Hexachloroethane	Ì			0.055	30	Physostigmine		0.056 ¹	1.4 ¹
Indeno(1,2,3-c,d)pyrene 0.0055 3.4 Promecarb 0.056 ¹ 1.4 ¹ Iodomethane 0.19 65 Pronamide 0.093 1.5 Isodutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isodrin 0.021 0.066 Propoxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.081 22 Methagyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methocarb 0.055 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methoxychlor 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.00063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.00063 0.001 Methoxychlor 0.50 30 1,1,2,2-Tetrachloroethan	Hexachloropropylene				0.035	30	Physostigmine salicylate		0.0561	1.41
Indext 0.19 65 Pronamide 0.093 1.5 Isobutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isobutyl alcohol 0.021 0.066 Propoxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.081 22 Methanol 5.6 0.75 mg/l ¹ Safrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methoryl 0.028 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methoryl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.00063 0.001 Methoxychlor 0.25 15 1,1,1,2-Tetrachloroethane	Indeno(1,2,3-c,d)pyrene				0.0055	3.4	Promecarb		0.056 ¹	1.4 ¹
Isobutyl alcohol 5.6 170 Propham 0.056 ¹ 1.4 ¹ Isodrin 0.021 0.066 Propxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.014 16 Wethanol 5.6 0.75 mg/l ¹ Safrole 0.081 22 Methaorylene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methocarb 0.028 ¹ 0.4 ¹ TCDDs (All 0.055 14 Methoxychlor 0.25 0.18 TCDFs (All 0.00063 0.001 Methyleholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4.4 Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	lodomethane				0.19	65	Pronamide		0.093	1.5
Isodrin 0.021 0.066 Propoxur 0.056 ¹ 1.4 ¹ Isosafrole 0.081 2.6 Prosulfocarb 0.042 ¹ 1.4 ¹ Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.014 16 Methanol 5.6 0.75 mg/l ¹ Safrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methonyl 0.028 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methonyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 Methoylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Isobutyl alcohol				5.6	170	Propham		0.056 ¹	1.4'
Isosafrole 0.081 2.6 Prosulfocarb 0.042' 1.4' Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.014 16 Methanol 5.6 0.75 mg/l Safrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methonyl 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methonyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Isodrin				0.021	0.066	Propoxur		0.056	1.4'
Kepone 0.0011 0.13 Pyrene 0.067 8.2 Methacrylonitrile 0.24 84 Pyridine 0.014 16 Methanol 5.6 0.75 mg/l ¹ Safrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methoryl 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methonyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4 ² -Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Isosafrole				0.081	2.6	Prosulfocarb		0.042'	1.4'
Wethacryionitrile 0.24 84 Pyridine 0.014 16 Methanol 5.6 0.75 mg/l ¹ Safrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methocarb 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methomyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 B-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Kepone				0.0011	0.13	Pyrene		0.067	8.2
Vietnanol 5.6 0.75 mg/l Satrole 0.081 22 Methapyrilene 0.081 1.5 Silvex/2,4,5-TP 0.72 7.9 Methiocarb 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methomyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4.4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Methacrylonitrile				0.24	84	Pyridine		0.014	16
vietnapyrilene 0.081 1.5 Silvex/2,4,5-1P 0.72 7.9 Methiocarb 0.056 ¹ 1.4 ¹ 1,2,4,5-Tetrachlorobenzene 0.055 14 Methomyl 0.028 ¹ 0.14 ¹ TCDDs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Methanol				5.6	U./5 mg/l'			0.081	22
vietniocarb 0.050 1.4 1,2,4,5-1 etrachloropenzene 0.055 14 Methomyl 0.028 ¹ 0.14 ¹ TCDbs (All Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Methapyrilene				0.0501	1.0	SIIVEX/2,4,5-1P		0.72	1.9
Methomyl 0.028' 0.14' Tetrachlorodibenzo-p-dioxins) 0.000063 0.001 Methoxychlor 0.25 0.18 TCDFs (All Tetrachlorodibenzo-furans) 0.000063 0.001 B-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4.4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0					0.000	1.4	TCDDs (All		0.055	14
Viethoxychlor 0.25 0.18 ICOL'S (All Tetrachlorodibenzo-furans) 0.00063 0.001 3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Methomyl		. <u></u>		0.028'	U.14'	Tetrachlorodibenzo-p-dioxins)		0.000063	0.001
3-Methylcholanthrene 0.0055 15 1,1,1,2-Tetrachloroethane 0.057 6.0 4,4'-Methylene bis(2- 0.50 30 1,1,2,2-Tetrachloroethane 0.057 6.0	Methoxychlor	l			0.25	0.18	Tetrachlorodibenzo-furans)		0.000063	0.001
4.4'-Methylene bis(2-	3-Methylcholanthrene				0.0055	15	1,1,1,2-Tetrachloroethane		0.057	6.0
	4,4'-Methylene bis(2-			÷	0,50	30	1,1,2,2-Tetrachloroethane		0.057	6.0

CONSTITUENT NWW CONSTITUENT HOW MUST WW: HOW MUST WW NWW (mg/kg) THIS (mg/l) THIS (mg/l) (mg/kg) CONSTITUENT CONSTITUENT unless unless BE MANAGED? noted **BE MANAGED?** noted INORGANIC 6.0 0.056 Tetrachloroethylene CONSTITUENTS 2.1 mg/l 2,3,4,6-Tetrachlorophenol 0.030 7.4 Antimony 1.9 TCLP 1.15 mg/l TCLP⁴ 1.4^{1} Thiodicarb 0.0191 Antimony 1.9 5.0 mg/l 0.0561 1.4^{1} Thiophanate-methyl Arsenic 1.4 TCLP 7.6 mg/l 0.080 10 Barium 1.2 Toluene TCLP 21 mg/l TCLP⁴ 2.6 0.0095 Barium 1.2 Toxaphene 0.014 mg/l 1.4¹ 0.0421 Triallate Beryllium 0.82 TCLP 1.22 mg/l 15 0.82 0.63 Beryllium Tribromomethane/Bromoform **TCLP**⁴ 0.19 mg/l 7.4 Cadmium 0.035 0.69 2,4,6-Tribromophenol TCLP 0.11 mg/l TCLP⁴ 1,2,4-Trichlorobenzene 0.055 19 Cadmium 0.69 0.86mg/l 0.054 6.0 Chromium (Total) 2.77 1,1,1-Trichloroethane TCLP 0.60 mg/l 1,1,2-Trichloroethane 0.054 6.0 Chromium (Total) 2.77 TCLP 0.054 6.0 Cyanides (Total) 12 590 ^{Trichloroethylene} 30¹ Trichloromonofluoromethane 0.020 30 Cyanides (Amenable) 0.86 7.4 Fluoride NA⁴ 2,4,5-Trichlorophenol 0.18 35 0.035 7.4 Lead 0.69 0.37 mg/l 2,4,6-Trichlorophenol 2,4,5-Trichlorophenoxyacetic 0.75 mg/l⁴ 7.9 Lead 0.69 0.72TCLP acid/2,4,5-T Mercury (Nonwastewater from 0.20 mg/l 1,2,3-Trichloropropane 0.85 30 NA Retort) TCLP 1,1,2-Trichloro-1,2,2-0.025 mg/l 0.057 30 Mercury (All others) 0.15 TCLP trifluoroethane 5.0 mg/l 1.5¹ 0.0811 Nickel Triethylamine 3.98 TCLP 11 mg/l TCLP⁴ Tris-(2,3- 0.10^{1} Nickel 0.11 3.98 Dibromopropyl)phosphate 0.16 mg/l 6.0¹ Vernolate 0.0421 Selenium 0.82 TCLP 5.7 mg/l TCLP⁵ 0.27 6.0 Vinyl chloride Selenium 0.82 Xylenes - mixed isomers (sum) 0.30 mg/l 0.32 30 Silver 0.43 ⇒ TCLP of o-,m-, and p-xylene 0.14 mg/l Silver 0,43 TCLP^{*} Sulfide NA² 14 0.078 mg/l Thallium 1.4 TCLP¹ 0.20 mg/l Thallium 1.4 **TCLP**⁴ 1.6 mg/l TCLP² 4.3² Vanadium 4.3 mg/l TCLP² Zinc \rightarrow \rightarrow 2.61

¹ These constituents are only applicable as underlying hazardous constituents. These constituents are not constituents that require treatment in F039 wastes.

² Not an underlying hazardous constituent requiring treatment in a D001-D043 waste.

³ These compounds are regulated by the sum of their concentration instead of as individual constituents.

⁴ These constituents are effective in authorized states or states with no LDR program on 8/24/99. These concentrations are effective in all other states upon adoption by the state.

⁵ Effective 8/24/98 in unauthorized states or states with no LDR program. Selenium at 5.7 mg/l is not an underlying hazardous constituent in D001-D043 waste. This becomes effective in authorized states upon adoption by the state.

> Form B1 Page 3 of 3

121272-01

leas	e pr	rint or type.							Form Ap	proved. OME	8 No. 2050-00	039
Î	UNI V	IFORM HAZARDOUS VASTE MANIFEST	8982	2. Page 1 of 3.	Emerger	or 441	10ne -(621)	4. Manifest Ti	acking Numb	515	JJK	
	5. G	enerator's Name and Mailling Address	ership.U	CER	enerator's	Site Address (if	different than O	mailing address	5)			
	T	-11 Habbs Road, Kevil, K	442053	Crisk	11)	PRIV	r n.h	20500	~ NiF	Fusior	Plant	t l
	Gen	nerator's Phone: 1-270-441-5025	-			5511	Habb	s Rd.	Levil.	KU 42	053	
ŀ	6. T	ransporter 1 Company Name						U.S. EPA ID N	lumber	~ 0		
	7 T	Transporter 2 Company Name						U.S. EPAID N	umber	2200	í	_
	8.0	Designated Facility Name and Site Address	15:4-	RIL	111.2	r. L.	1:1	U.S. EPAID N	lumber			
	E	-nergy solutions clive Dop	117840	7.9	ves	ie iaci	may	15	2987	5988	898	
	Fa	1-30 EXII 1, 1105,	5					1			- 10	
	98	a. 9b. U.S. DOT Description (including Proper Shipping Name, Ha	azard Class, ID Number	r,		10. Contain	ers	11. Total	12. Unit	12 100	to Cadaa	-
11	H	and Packing Group (If any))				No.	Туре	Quantity	Wt./Vol.	15. 144		
B	0	UN2913, Radiacetive N	retericlys	urtice	27	٨	000	1000	IV L			
RAT	r	te-99. Th-230 (1-234, solid lox	10, 1, (PC	o Fissile	Erro	to	DIAL	121	F			
ENE		2.		11	T							
1	1											-
	+	3.	and an an an an an an an an an an an an an						++			-
												-
	L								+			
		Four Rivers Nuclear Partnership, LLC (FRNP) and the U.S. Department FRNP is responsible for performing all Resource Conservation and Re-	of Energy (DOE) are co- covery Act (RCRA) gener	generators pursua rator activities on l	ant to a Co behalf of l	-Generator agree both FRNP and De	ement dated S DE for all activ	eptember 13, 20 Ities under the s	17. Under this cope of FRNP's	Contract DE-		
		EM0004895, Including, but not limited to, characterizing waste, mani with RCRA requirements. Transportation hereunder is for DOE and th	festing waste to off-site le actual total transport	facilities, packagli ation charges paid	ng and lab d are to be	eling waste for the reimbursed by t	ransport, and he Governme	storing and man nt pursuant to C	aging waste, in ontract DE-EMC	accordance 004895.		
	1	14. Special Handling Instructions and Additional Information	1205851	6 "PRI	0896	5'	PC	Bster	+ Dete	19/04	117	
	,	EPG-#162 In the event of	on Rafe	lease, co	-11 1-	-800-4	24-98	302 7	f unde	liveral	sherter	um
		Exclusive Use Shipment, S	e Altach	notter	Add	itisal	ILFU	Shi	ament	ID:73	40-00-	1000
		 GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby decl marked and labeled/placarded and are in all respects in property. 	are that the contents of condition for transport	this consignment	t are fully licable inte	and accurately de	escribed abov	e by the proper	shipping name	, and are class	ified, packaged	i,
		Experies, I certify that the contents of this consignment conform	to the terms of the atta	ched EPA Acknow	wledgmen	t of Consent.	all quantity of	anomtor) is true	nar it expertent	phone and T ta	in the Finnery	
	١ŀ	Generator's/Offeror's Printed/Typed Name		Si	ignature		ian quantity y			Mont	h Day	Year
	ţ	LaChelle Teller on behal	t of FRA	JP I	25	Jul	, Jul	an		19	20	18
	E	16. International Shipments Import to U.S.		Export from	U.S.	Port of e	entry/exit:					
ł	2	Transporter signature (for exports only): 17. Transporter Acknowledgment of Receipt of Materials			- /	Date lea	wing U.S.:	,				
	Ë	Transporter 1 Printed/Typed Name		Si	ignatuje) I		TH		Mon	h Day	Year
	g)	KOBERT WRIGHT			K	obus		<u>AN X</u>			120	18
	RAN	Transporter 2 Printed Typed Name		ľ	signature			/		Mon I	m Day	rear
	+	18. Discrepancy				V/F	A V			I		
		18a. Discrepancy Indication Space Quantity	Туре		and a	Residue	R. I.	Partia	Rejection	[Full Reject	ion
					0.0	.201Q						
	≥	18b. Alternate Facility (or Generator)		SEP	29	Manifest Referei	nce Number;	U.S. EPA	ID Number			
	CILI			10	1-		4					
	DE	Facility's Phone:	<u> </u>	- AA	K					Тм	onth Day	Vear
	IATE	in organization of rationato rational (or deficially)		UN						in the second se		l
	SIGN	19. Hazardous Waste Report Management Method Codes (i.e., co	des for hazardous was	te treatment, disp	iosal, and	recycling system	15)					<u> </u>
	B	1		1	3.			4.				
		20. Designated Facility Owner or Operator: Certification of receipt	of hazardous materials	covered by the m	nanifest e	cept as noted in	liem 18a					
		Printed/Typed Name	materials of materials	. corored by man	Signature	3				М	onth Day	Year
	ł	Thomas Wright			7.	=M-				0	9 24	18
	EP	A Form 8700-22 (Rev. 12-17) Previous editions are obsole	te.			D	ESIGNAT	ED FACIL	ITY TO EF	'A's e-MA	NIFEST S	YSTE

PCB & Additional Information Attachment, Page 2 of 2

Manifest Number: 019694515 JJK

Shipment ID Number: 7340-08-0004

Shipment Date: 9/20/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (lb)	Gross Wt (Kg)	NET WT (lb)	NET Wt (Kg)	Maximum Activity MBq
9b.1	121277	121277-01	PAD17C36240	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	10/04/17	7.4	403	183	347	157	23
		Totals	1			7.4	403	183	347	157	23

riease	printed type:	1			And a state of the second second second second second second second second second second second second second s		and the second se	and the local day of the second s	- OIII	in oprovou. Of	10110.
	NIFORM HAZARDOUS	1. Generator ID Num	398000 88	32	2, Page 1 of 3. Eme	270-44	-624	4. Manifest	969	452	1 J.
5.0	Generator's Name and Mal	Nuclear R	streship,	USIF	RNP Genera	tor's Site Address	(if different the	an mailing addre	ss)		
5	5511 Habb	s Road, K	evil, Ky 42	1053	-	Pedre	aho	Sesearch	, Difi	fusion f	len
Ger	nerator's Phone:	270-441-	5025			5511	Habbs	Rd, Ke	N.K	14205:	3
0.1	Interstet	e Vantu	Res, Inc.					I TNR	Number	23380	1
7.1	Transporter 2 Company Na	ime	The second second second second second second second second second second second second second second second s					U.S. EPA ID	Number		
										1	
	Lesignated Facility Name	Piana Cliu	e Disposel	Site -	But wes	te facili	k,	U.S. EPA ID	Number		
11 (IS I-OO E	=kit 49, C	Live, UT &	3402.9			1	atd	982	5988	8
Fac	cility's Phone: 1-4	35-884-	- 0155				T				4
9a HM	a. 9b. U.S. DOT Descrip M and Packing Group (otion (Including Proper S if any))	Shipping Name, Hazard C	lass, ID Number,		10. Contai	ners Type	11. Total Quantity	12. Unit Wt Mol	13. Wa	stevdes
	11113177	Faviran	atall here	ordens su	batur.	140.	Type	Quantif	111.1 VOI.		-'T
5K	Solid, nos	(PCB), P.	RG-III			3	DM	78	K		
3	2									──┼─	
B											
	3.										
	4 Four Rivers Nuclear	Partnership, LLC (FRNP)	and the U.S. Department	of Energy (DOE) a	re co-generators pursu	ant to a Co-Genera	tor agreement	dated Septembe	r 13, 2017. L	Inder this agreen	nent,
	EM0004895, Includi	for performing all Resou ng, but not limited to, ct	urce Conservation and Rec naracterizing waste, manif	esting waste to of	generator activities on f-site facilities, packagi	behalf of both FRI ng and labeling wi	IP and DOE for iste for transpo	all activities und ort, and storing a	nd managing	g waste, in accord	iance
		And the second se					and Listhe Co	vernment nursit	int to Contra	1CT DE-EMIUUU489	
14.	with RCRA requirem	ions and Additional Infor	reunder Is for DOE and the mation	e actual total tran	sportation charges paid	f are to be reimbu	BNJ	-1.5+	(ma - 1	allist	8
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Additional Information Attachment, Page 2 of 2

Manifest Number: 019694524 JJK

Shipment ID Number: 9750-05-0002

Shipment Date: 9/26/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (ib)	Gross Wt (Kg)	NET WT (Ib)	NET Wt (Kg)
9b.1	121424	121424-02	PAD18C40020	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	04/18/18	7.4	110	50	54	24
9b.1	121424	121424-03	PAD18C40029	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	06/07/18	7.4	116	53	60	27
9b.1	121424	121424-04	PAD18C40027	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	08/09/18	7.4	114	52	58	26
		Totals	3			22.2	340	154	172	78

5. Ge	ASTE MANIF	est and Mailing	Address	0-2	1000	5878	L Gen Ge	nerator's Site Addre	ss (if different th	an mailing addre	. 303 ss)	1456	20 1	JJI	N
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98.	9b. U.S. DO and Packing	T Description Group (if an	(including Prop	er Shipping Nam	e, Hazard Clas	ss, ID Number,		10. Cor	tainers	11. Total Quantity	12. Unit Wt /Vol.	13	. Waste C	odes	-
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Additional Information Attachment, Page 2 of 2

Manifest Number: 019694525 JJK

Shipment ID Number: 9750-04-0003

Shipment Date: 9/26/2018

UHWM Section	RFD	Container / WASTE ID	Barcode	Description	PCB Date to Storage	NET VOLUME (ft3)	GROSS WT (ib)	Gross Wt (Kg)	NET WT (Ib)	NET Wt (Kg)
9b.1	121423	121423-01	PAD18C40023	VENTILATION DUCT OIL AND WATER	04/23/18	7.4	476	216	420	191

Totals 1

7.4 476 216 420 191

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APPENDIX B

PCB WASTE CERTIFICATES OF DISPOSAL

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RT

COD Number: TS2017054

EPA ID# TND982109142

657 Gallaher Road Kingston, TN 37763

Certificate of Disposal

Diversified Scientific Services, Inc. of Kingston, TN is providing this certificate to confirm the disposal of TSCA Regulated PCB waste by Alternate Thermal Treatment (40CFR 761.60(e)).

Hereby certifies such destruction on: 12/7/2017

Attached list of containers from Shipment Number DSSI-16-112

Shipped.on Hazardous Waste Manifest Number 006841822JJK

Generator NameUS Dept of Energy - Fluor Federal Services, Inc.EPA ID No.KY8890008982Address5600 Hobbs Road

City, State, Zip Paducah Contact Regina Pea KY 42001-::

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U. S. C. 1001 and 15 U. S. C. 2615), I certify that the information contained In or accompanying this document is true, accurate, and complete. As to the Identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as a company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete:

JAN 0 3 2018

By: Dawn Garrett

Tite: Waste Tracking Shipping Signature:

Certificate of Destruction TS2017054

ShipmentNumber	HazManifestNumber	WPSNumber	Package A	ItemNumber	2 StarGeneratorCode	nCampalgnNum	EDateBurnStop	WasteCode	DateReceived
DSSI-16-112	006841822JJK	16-10-042	73133	120357-01	KYFLU01	17-018	07-Dec-17	Bulk Liquid - PCBs	27-Oct-16
DSSI-16-112	006841822JJK	16-10-042	73134	120357-02	KYFLU01	17-018	07-Dec-17	Bulk Liquid - PCBs	27-Oct-16
DSSI-16-112 ·	006841822JJK	16-10-042	73135	120357-03	KYFLU01	17-018	07-Dec-17	Bulk Liquid - PCBs	27-Oct-16
DSSI-16-112	006841822JJK	16-10-042	73136	120357-04	KYFLU01	17-018	07-Dec-17	Bulk Liquid - PCBs	27-Oci-16
DSSI-16-112	006841822JJK	16-10-042	73137	120357-05	KYFLU01	17-018	07-Dec-17	Bulk Liquid - PCBs	27-Oct-16



1

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment 9701-26-0001 Disposal Date 12/07/2017

Manifest

41867

Volume (Cu/Ft) 798.0 Process Landfill Disposal Location Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brian Beynon Dec 12 2017 6:09 AM

Brian Beynon Operations Manager

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-5

Date

cosign

for

Fluor Federal Services

Materials and Energy Corporation 2010 Hwy 58 Suite 1020 Oak Ridge, TN 37830

EPA ID: TNR000005397

This certificate acknowledges that the following manifested shipments have been disposed of as detailed below.

			Shipment ETTP-17-171	Manifest 006843007JJK	
Item Number 120543-26	Package Number 111309	Incoming Shipment ETTP-17-171	Process Trans-Shipment	Date Shipped 1/31/2018	Discussion Waste shipped to DSSI

JUN 2 2 2018

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Joseph Crider

6/22/2018

for

Fluor Federal Services

Materials and Energy Corporation 2010 Hwy 58 Suite 1020 Oak Ridge, TN 37830

EPA ID: TNR000005397

This certificate acknowledges that the following manifested shipments have been disposed of as detailed below.

			Shipment ETTP-17-168	Manifest 006843002JJK	j
	Package	Incoming		Date	
Item Number	Number	Shipment	Process	Shipped	Discussion
120543-03	111271	ETTP-17-168	Trans-Shipment	2/15/2018	Waste shipped to DSSI
120543-31	111277	ETTP-17-168	Trans-Shipment	2/15/2018	Waste shipped to DSSI



Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Joseph Crider

6/22/2018

Materials and Energy Corporation 2010 Hwy 58 Suite 1020 Oak Ridge, TN 37830

CERTIFICATE OF DISPOSAL

for

Fluor Federal Serivces

EPA ID: TNR000005397

This certificate acknowledges that the following manifested shipments have been disposed of as detailed below.

Shipment Manifest ETTP-17-168 ETTP-17-170 ETTP-17-171

	Package	Incoming		Date	
Item Number	Number	Shipment	Process	Shipped	Discussion
120338-03	111269	ETTP-17-168	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120543-01	111270	ETTP-17-168	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120543-29	111276	ETTP-17-168	Trans-Shipment	1/31/2018	Waste shipped to DSSI
120543-32	111278	ETTP-17-168	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120543-33	111279	ETTP-17-168	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120543-08	111295	ETTP-17-170	Trans-Shipment	3/15/2018	Waste shipped to DSSI
120543-10	111296	ETTP-17-170	Trans-Shipment	1/31/2018	Waste shipped to DSSI
120543-15	111299	ETTP-17-170	Trans-Shipment	3/15/2018	Waste shipped to DSSI
120543-34	111311	ETTP-17-171	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120543-30	111292	ETTP-17-169	Trans-Shipment	1/24/2018	Waste shipped to DSSI
120338-04	111283	ETTP-17-169	Trans-Shipment	1/31/2018	Waste shipped to DSSI
120543-07	111286	ETTP-17-169	Trans-Shipment	1/31/2018	Waste shipped to DSSI
120543-36	111312	ETTP-17-171	Trans-Shipment	1/31/2018	Waste shipped to DSSI
120543-35	111280	ETTP-17-168	Trans-Shipment	1/24/2018	Waste shipped to DSSI

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

Joseph Crider



7/6/2018

Manifest

41936

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

<u>Shipment</u> 7340-08-0002 Disposal Date 06/18/2018 Volume (Cu/Ft) 171.0 <u>Process</u> Landfill

Disposal Location Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

Brian Beynon Jul 13 2018 7:46 AM

Brian Beynon Operations Manager

> 423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-9

Date

cosign

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment 9750-01-0001 Disposal Date 09/17/2018

Manifest

94504

Volume (Cu/Ft) 93.0 Process Landfill Disposal Location Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

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Brian Beynon Sep 28 2018 1:50 PM

Brian Beynon Operations Manager

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000

Date

cosign

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment	Manifest	Disposal Date	Volume (Cu/Ft)	Process	Disposal Location
7340-08-0003	41943	10/05/2018	1,472.0	Landfill	Mixed Waste
7340-08-0004	94515	10/05/2018	7.5	Landfill	Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

SS.	Brian Beynon Oct 19 2018 10:48 AM	cosign
rian Beynon	Date	

B **Operations Manager**

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000



Clean Harbors Deer Park, LLC 2027 Independence Parkway South La Porte TX, 77571 TXD055141378 (281) 930-2300

CERTIFICATE OF DISPOSAL

Manifest Mailing Name:	Four Rivers Nuclear Partnership, LLC			
Manifest Mailing Address:	5511 Hobbs Road	Job Address:	5511 Hob	bs Road
	Kevil, KY, 42053		Kevil, KY	42053
Customer Contact Name:	Mrs Chelle Telfair			

				Date Recei	ved:	9/20/2018	
Generator EPA ID: KY8890008982		Load #:		404946			
Sales Ord	der#:	180446	60049	Manifest #:		011797542FLE	
Original CH ID #	Date Removed From Service	Unit Type	Serial # / Customer ID	Material Description	Disposal Date	Method of Disposal	Disposal Facility
68410031	8/8/2018	DM	121603-12 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facllity
68410032	8/8/2018	DM	121603-11/	High Btu PCB Llquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410033	8/8/2018	DM	121603-13 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410034	8/8/2018	DM	121603-7 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410035	8/8/2018	DM	121603-10 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410036	8/8/2018	DM	121603-4 /	High Btu PCB Liquids For Incineration	10/25/2018	Inclneration	Deer Park, TX Facility
68410037	8/8/2018	DM	121603-6 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410038	8/8/2018	DM	121603-5 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410039	8/8/2018	DM	121603-18 /	High Btu PCB Llquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410040	8/8/2018	DM	121603-16 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410041	8/8/2018	DM	121603-17 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410042	8/8/2018	DM	121603-8 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410043	8/8/2018	DM	121603-19 /	High Btu PCB Llquids For IncIneration	10/25/2018	Incineration	Deer Park, TX Facility
68410044	8/8/2018	DM	121603-15 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410045	8/8/2018	DM	121603-14 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility
68410046	8/8/2018	DM	121603-9 /	High Btu PCB Liquids For Incineration	10/25/2018	Incineration	Deer Park, TX Facility

Under Civil and Criminal Penalties of Law for the making or submission of false or fraudulent statements or representations (18 U.S.C. 1001 and 15 U.S.C. 2615), I certify that the information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate, and complete.

SV:

Page 1 of 2

lo

Authorized Agent

Thursday, November 08, 2018

Date

NOV 0 8 2018

Page 2 of 2

EPA ID # TND982109142

COD Number:

TSDSSI-18-059-20181113

DIVERSIFIED SCIENTIFIC SERVICES, INC.



Certificate of Disposal

US Dept of Energy - Four Rivers (formerly Fluor Federal Services, Inc.)

Diversified Scientific Services, Inc. of Kingston, Tennessee is providing this certificate to confirm the disposal of TSCA Regulated PCB waste by Alternate Thermal Treatment (40CFR 761.60(e)).

Hereby certifies such destruction on: <u>11/13/2018</u>

Attached list of containers from Shipment Number

DSSI-18-059

Shipped on Hazardous Waste Manifest Number

006841920JJK

Generator Name EPA ID No. Address

KY8890008982 5511 Hobbs Ro

5511 Hobbs Road

Contact

accurate, and complete.

Paducah, KY 42001-LaChelle Telfair

information contained in or accompanying this document is true, accurate, and complete. As to the identified section(s) of this document for which I cannot personally verify truth and

accuracy, I certify as a company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, By: Ralph Sheffield

Title: Waste Tracking Representative

Signatur

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U. S. C. 1001 and 15 U. S. C. 2615). I certify that the

2 0 2018

B-14

Certificate of Disposal

1

TSDSSI-18-059-20181113

Shipment Number	Haz Manifest Number	WPS Number	Package Number	ltem Number	Burn Campaign Number	Date Processed	Generator Code	Waste Code	Date Received
DSSI-18-059	006841920JJK	18-05-019	77141	121073-01	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77142	121075-01	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77143	121077-01	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77144	121077-02	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77145	121077-03	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77146	121077-04	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77147	121077-05	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77148	121079-01	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77149	121079-02	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77150	121079-03	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77151	121079-04	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018
DSSI-18-059	006841920JJK	18-05-019	77152	121255-01	18-012	11/13/2018	KYFLU01	Bulk Liquid - PCBs	5/14/2018

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Manifest

41910

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

Shipment 9750-04-0001 **Disposal Date** 09/28/2018

Volume (Cu/Ft) 90.0

Process Landfill

Disposal Location Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

	Brian Beynon Oct 5 2018 8:55 AM		cosign
rian Beynon		Date	
perations Manager			

B 0

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-16

<u>Manifest</u>

41911

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

<u>Shipment</u> 9750-05-0001 <u>Disposal Date</u> 06/29/2018 <u>Volume (Cu/Ft)</u> 30.0 <u>Process</u> Landfill Disposal Location Mixed Waste



cosign

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.



Brian Beynon Jun 29 2018 11:25 AM

Brian Beynon Operations Manager

> 423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-17

<u>Manifest</u>

41935

CERTIFICATE OF DISPOSAL

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

<u>Shipment</u> 9750-04-0002 <u>Disposal Date</u> 12/20/2018 <u>Volume (Cu/Ft)</u> 22.5 <u>Process</u> Landfill

Disposal Location Mixed Waste

DEC 3 1 2018

The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

	Brian Beynon Dec 28 2018 11:25 AM	
~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		cosign
Brian Beynon Operations Manager	Date	

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-18

3 miles South, Exit 49, I-80 Clive, Utah 84029 EPA ID: UTD982598898

#### DOE, Paducah, Paducah

This certificate acknowledges that the following manifested shipments have been disposed of as listed below:

<b>Shipment</b>	<u>Manifest</u>	Disposal Date	Volume (Cu/Ft)	Process	<b>Disposal Location</b>
9750-03-0001	41913	12/20/2018	7.5	Landfill	Mixed Waste R
9750-03-0002	41926	12/20/2018	0.8	Landfill	Mixed Waste RT
9750-03-0003	41934	12/20/2018	45.0	Landfill	Mixed Waste



The total volume above represents the cubic feet of waste disposed of at EnergySolutions' Disposal Facility Landfill. Disposal is subject to EnergySolutions' Radioactive Material License, all other applicable licenses, permits and regulations, and the Disposal Agreement.

Under civil and criminal penalties of law for the making or submission of false or fraudulent statements or representations (18 U.S.C 1001 and 15 U.S.C. 2615) I certify that the information contained in or accompanying this document is true, accurate and complete. As to the identification section(s) of this document for which I cannot personally verify truth and accuracy, I certify as the company official having supervisory responsibility for the persons who, acting under my direct instructions, made the verification that this information is true, accurate and complete.

	Brian Beynon Dec 28 2018 11:25 AM	cosign	
Brian Beynon Operations Manager		Date	

423 West 300 South, Salt Lake City, Utah 84101 Telephone (801) 649-2000 B-19 THIS PAGE INTENTIONALLY LEFT BLANK
**APPENDIX C** 

PCB WASTE STORAGE AREA INSPECTION RECORDS

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Buildin	eg Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-331					
	G-331-PCB-01	1/10/2018			
	G-331-PCB-01	1/23/2018			
	G-331-PCB-01	2/21/2018		$\checkmark$	
	C 221 DCD 01	2/21/2010			
	G-331-PCB-01	3/21/2018			
	G-331-PCB-01	4/18/2018			
	0.001100.01	1,10,2010			
	G-331-PCB-01	5/16/2018			
	G-331-PCB-01	6/13/2018			

Monday, June 10, 2019

Buildin	ig Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-331-PCB-01	7/18/2018			Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( c )(5) 30 day inspection requirement has been documented and added to inspection records.
	G-331-PCB-01	8/16/2018			
	G-331-PCB-01	9/13/2018			
	G-331-PCB-01	10/10/2018			
	G-331-PCB-01	11/7/2018			
	G-331-PCB-01	12/5/2018			
C-333	G-333-PCB-01	1/10/2018			

Monday, June 10, 2019

Buildin	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-333-PCB-01	1/23/2018			
C-335					
	G-335-04	1/10/2018			
	G-335-04	1/23/2018		$\checkmark$	
	C 335 04	2/20/2018			
	G-333-04	2/20/2018		V	
	G-335-04	3/21/2018			
	G-335-04	4/18/2018			
			_	_	
	G-335-04	5/16/2018			

*Monday, June 10, 2019*  $G = G_{2}^{2}$ 

 $G = GSA \quad S = SAA$ 

Page 3 of 20

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-335	-04	6/13/2018			
G-335	-04	7/18/2018		V	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( $c$ )(5) 30 day inspection requirement has been documented and added to inspection records.
G-335	-04	8/16/2018			
G-335	-04	9/13/2018			
G-335	-04	10/10/2018			
G-335	-04	11/7/2018			
G-335	-04	12/5/2018			

C-337

Monday, June 10, 2019  $G = GSA \quad S = SAA$ 

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-:	337-02	1/10/2018			
G-:	337-02	1/23/2018			
G-:	337-02	2/20/2018			
G-:	337-02	3/21/2018			
G-:	337-02	4/18/2018			
G-:	337-02	5/16/2018			
G-:	337-02	6/13/2018			
G-:	337-02	7/18/2018		V	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( c )(5) 30 day inspection requirement has been documented and added to inspection records.

Monday, June 10, 2019 G = GSA

 $G = GSA \quad S = SAA$ 

Page 5 of 20

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3	37-02	8/16/2018			
G-3	37-02	9/13/2018			
G-3	37-02	10/10/2018			
G-3	37-02	11/7/2018			
G-3	37-02	12/5/2018			
G-3	37-03	1/10/2018			
G-3	37-03	1/23/2018			
G-3	37-03	2/20/2018			

Monday, June 10, 2019 G=

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3	37-03	3/21/2018			
G-3	37-03	4/18/2018			
G-3	37-03	5/16/2018			
G-3	37-03	6/13/2018			
G-3	37-03	7/18/2018			Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( $c$ )(5) 30 day inspection requirement has been documented and added to inspection records
G-3	37-03	8/16/2018			requirement has been documented and added to hispection records.
G-3	37-03	9/13/2018			
G-3	37-03	10/10/2018			

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-3	37-03	11/7/2018			
G-3	37-03	12/5/2018			
G-3	37-05	1/10/2018			
G-3	37-05	1/23/2018			
G-3	37-05	2/20/2018			
G-3	37-05	3/21/2018			
G-3	37-05	4/18/2018			
G-3	37-05	5/16/2018			

*Monday, June 10, 2019* G = GS

Buildin	g Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-05	6/13/2018			
	G-337-05	7/18/2018		V	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( c )(5) 30 day inspection requirement has been documented and added to inspection records.
	G-337-05	8/16/2018		$\checkmark$	
	G-337-05	9/13/2018			
	G-337-05	10/10/2018			
	G-337-05	11/7/2018			
	G-337-05	12/5/2018			
	G-337-PCB-02	1/10/2018			

*Monday, June 10, 2019* G=G

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G	-337-PCB-02	1/23/2018			
G	-337-PCB-02	2/20/2018			
G	-337-PCB-02	3/21/2018		✓	
G	-337-PCB-02	4/18/2018		◄	
G	-337-PCB-02	5/16/2018		◄	
G	-337-PCB-02	6/13/2018			
G	-337-PCB-02	7/18/2018		V	Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( $c$ )(5) 30 day inspection requirement has been documented and added to inspection records.
G	-337-PCB-02	8/16/2018			

Monday, June 10, 2019 G=GS

 $G = GSA \quad S = SAA$ 

Page 10 of 20

Buildir	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	G-337-PCB-02	9/13/2018			
	G-337-PCB-02	10/10/2018			
	G-337-PCB-02	11/7/2018			
	G-337-PCB-02	12/5/2018			
C-733	C-733	1/17/2018		V	
	C-733	2/13/2018			
	C-733	3/13/2018			

PCB Waste Inspection Summary Report

*Monday, June 10, 2019* G = G

 $G = GSA \quad S = SAA$ 

Page 11 of 20

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-733		4/11/2018			
C-733		5/8/2018			
C-733		5/29/2018			
C-733		6/19/2018			
C-733		7/17/2018			
C-733		8/14/2018			
C-733		9/10/2018			
C-733		10/9/2018			

Monday, June 10, 2019 G

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-73	3	11/6/2018			
C-73	3	12/4/2018			
C-746-Q					
C-74	6-Q	1/17/2018			
C-74	6-Q	2/13/2018			
C-74	6-Q	3/13/2018			
C-74	6-Q	4/11/2018			
C-74	6-Q	5/8/2018			

Monday, June 10, 2019 G = GSA

 $G = GSA \quad S = SAA$ 

Page 13 of 20

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-74	6-Q	5/29/2018			
C-74	6-Q	6/19/2018			
C-74	6-Q	7/17/2018			
C-74	6-Q	8/14/2018			
C-74	6-Q	9/10/2018			
C-74	6-Q	10/9/2018			
C-74	6-Q	11/6/2018			
C-74	6-Q	12/4/2018			

Monday, June 10, 2019 G=G

				1	U I
Building	g Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-752-A					
(	C-752-A	1/17/2018			
(	C-752-A	2/13/2018		$\checkmark$	
(	C-752-A	3/13/2018			
(	C-752-A	4/11/2018			
		5/5/0010	_		
(	C-752-A	5/7/2018			
(	○ 752 A	5/20/2018			
(	J-132-A	JI 27I 2018		V	
(	C-752-A	6/19/2018			
,	0,0211	0/17/2010		<b>V</b>	

Monday, June 10, 2019

Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
С	C-752-A	7/17/2018			
C	C-752-A	8/14/2018			
C	C-752-A	9/10/2018			
C	C-752-A	10/9/2018			
C	C-752-A	11/6/2018			
C	C-752-A	12/4/2018			
С-753-А					
C	C-753-A	1/17/2018			

Monday, June 10, 2019 G = GSA

 $G = GSA \quad S = SAA$ 

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Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
C-753	-A	2/13/2018			
C-753	-A	3/13/2018			
C-753	-A	4/11/2018			
C-753	-A	5/8/2018			
C-753	-A	5/30/2018			
C-753	-A	6/19/2018			
C-753	-A	7/17/2018			
C-753	-A	8/14/2018			

Monday, June 10, 2019

Buildir	ng Area	Date Inspected	Leaks Yes	Leaks No	Comments
	C-753-A	9/10/2018			
	C-753-A	10/9/2018			
	C-753-A	11/6/2018			
	C-753-A	12/4/2018			
C-757	G-757-03	1/10/2018			
	G-757-03	1/23/2018			
	G-757-03	2/21/2018			

Monday, June 10, 2019

 $G = GSA \quad S = SAA$ 

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Building	Area	Date Inspected	Leaks Yes	Leaks No	Comments
G-7	257-03	3/21/2018			
G-7	257-03	7-03 4/18/2018			
G-7	757-03	5/17/2018			
G-7	757-03	6/13/2018			
G-7	757-03	7-03 7/18/2018			Supplemental inspection information demonstrating continued compliance with 40 CFR 761.65( $c$ )(5) 30 day inspection requirement has been documented and added to inspection records
G-7	757-03	8/16/2018			requirement has been documented and added to hispection records.
G-7	257-03	9/13/2018			
G-7	257-03	10/10/2018			

Monday, June 10, 2019  $G = GSA \quad S = SAA$ 

Buildin	g Area	Date Inspected	Leaks Yes	Leaks No	Comments	
	G-757-03	11/7/2018				
	G-757-03	12/5/2018				

**APPENDIX D** 

PCB WASTE INVENTORY TABLES

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# TABLES

D.1.	Corrections and Adjustments to the December 31, 2017, Inventory	D-5
D.2.	PCB Waste Generated in CY 2018	D-6
D.3.	Adjustments to CY 2018 Inventory	D-10
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D.5	PCB Waste Inventory as of December 31, 2018	D-16

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Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
0	121277	121277-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/C APACITORS	10/4/2017	Solid (S)	91	Various	TSCA MIXED (TM)	Weight changed from 91 kg to 183 kg
0	121072	121072-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/11/2017	S	3	C-331	ТМ	Weight changed from 48 kg to 51 kg
0	121073	121073-01	PCB Container	VENTILATION DUCT OIL AND WATER C-331	4/25/2017	Liquid (L)	36	C-331	ТМ	Weight changed from 108 kg to 144 kg
0	121074	121074-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/15/2017	S	12	C-333	TM	Weight changed from 47 kg to 59 kg
0	121076	121076-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	10/19/2017	S	7	C-335	ТМ	Weight changed from 37 kg to 44 kg
0	121077	121077-06	PCB Container	VENTILATION DUCT OIL AND WATER	5/9/2017	L	10	C-335	ТМ	Weight changed from 198 kg to 208 kg
0	121078	121078-04	PCB Container	SPILL CLEANUP DEBRIS	11/29/2017	S	24	C-337	TM	Weight changed from 24 kg to 47 kg
0	121079	121079-04	PCB Container	PCB VENTILATION DUCT OIL AND WATER	5/9/2017	L	184	C-337	ТМ	Weight changed from 32 kg to 216 kg
1	121255	121255- 02*	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST-TSCA RINSE	10/10/2017	L	32	C-337	ТМ	Information received after 2017 report submittal
-1	125151	125151-01	PCB Container	PCB CONTAMINATED PPE, ETC C-400, ZONE 16, J-BOX OIL DRAINING	9/20/2017	S	-29	C-400	RCRA MIXED (RM)	Changed from TSCA LLW to RCRA LLW
		TOTAL	CORRECTION	NS AND ADJUSTMENTS TO THE DECEN	ABER 31, 2017, I	NVENTORY:	369			

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Category
121516	121516-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ ETC.	4/25/2018	194	Solid (S)	C-752-A	Various	TSCA MIXED (TM)
121546	121546-01	PCB Article Container	PCB/LEAD CABLE AND POTHEAD	6/27/2018	836	S	C-752-A	Various	RCRA/TSCA Mixed (RTM)
121546	121546-02	PCB Article Container	POTHEADS	8/10/2018	884	S	C-752-A	Various	RTM
121546	121546-03	PCB Article Container	TRANSFORMER POTHEADS	7/25/2018	723	S	C-752-A	Various	RTM
121625	121625-01*	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ ETC.	8/28/2018	78	S	C-757	Various	ТМ
121075	121075-02	PCB Container	PCB VENTILATION DUCT OIL AND WATER	1/9/2018	10	Liquid (L)	C-752- ARPK	C-333	ТМ
121423	121423-01	PCB Container	VENTILATION DUCT OIL AND WATER	4/23/2018	216	L	C-752-A	Proc Bldgs	ТМ
121423	121423-02	PCB Container	VENTILATION DUCT OIL AND WATER	6/13/2018	202	L	C-752-A	Proc Bldgs	ТМ
121423	121423-03	PCB Container	VENTILATION DUCT OIL AND WATER	9/25/2018	226	L	C-752-A	Proc Bldgs	ТМ
121423	121423-04*	PCB Container	VENTILATION DUCT OIL AND WATER	11/1/2018	92	L	C-752-A	Proc Bldgs	ТМ
121424	121424-01	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	3/20/2018	14	S	C-335- RPK	Proc Bldgs	ТМ
121424	121424-02	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	4/18/2018	50	S	C-752-A	Proc Bldgs	ТМ
121424	121424-03	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	6/7/2018	53	S	C-752-A	Proc Bldgs	ТМ
121424	121424-04	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	8/9/2018	52	S	C-752-A	Proc Bldgs	ТМ
121424	121424-05	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	9/5/2018	48	S	C-752-A	Proc Bldgs	ТМ
121424	121424-06*	PCB Container	RAG, PANS, PLASTIC, PADS, PPE	11/7/2018	31	S	C-752-A	C-337	ТМ

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Category
121548	121548-01	PCB Container	PCB OIL TRANSPORT TANK	6/25/2018	2,939	S	C-752-A	C-746-B	ТМ
121603	121603-01	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	1,043	L	C-752- ARPK	C-537	TM
121603	121603-02	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	1,043	L	C-752- ARPK	C-537	ТМ
121603	121603-03	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	680	L	C-752- ARPK	C-537	ТМ
121603	121603-04	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	197	L	C-752-A	C-537	RCRA/TSCA Non-Rad (RTN)
121603	121603-05	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	201	L	C-752-A	C-537	RTN
121603	121603-06	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	204	L	C-752-A	C-537	RTN
121603	121603-07	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	201	L	C-752-A	C-537	RTN
121603	121603-08	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	197	L	C-752-A	C-537	RTN
121603	121603-09	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	193	L	C-752-A	C-537	RTN

RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Category
121603	121603-10	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	200	L	C-752-A	C-537	RTN
121603	121603-11	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	196	L	C-752-A	C-537	RTN
121603	121603-12	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	200	L	C-752-A	C-537	RTN
121603	121603-13	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	198	L	C-752-A	C-537	RTN
121603	121603-14	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	189	L	C-752-A	C-537	RTN
121603	121603-15	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	195	L	C-752-A	C-537	RTN
121603	121603-16	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	200	L	C-752-A	C-537	RTN
121603	121603-17	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	193	L	C-752-A	C-537	RTN
121603	121603-18	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	192	L	C-752-A	C-537	RTN
121603	121603-19	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C- 537-GT-61 AND C-537-GT-63	8/8/2018	81	L	C-752-A	C-537	RTN

Table D.2. PCB	Waste	Generated in	CY 2018	(Continued)
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RFD	Waste ID	PCB Item	Description	PCB Date	Gross Wt (kg)	Physical	Current Facility	Source	Waste Category	
121618	121618-01	PCB Container	OIL FILLED DOOR CLOSERS	8/22/2018	333	S	C-752-A	C-400	ТМ	
121618	121618-02	PCB Container	OIL FILLED DOOR CLOSERS	9/5/2018	167	S	C-752-A	C-400	ТМ	
121645	121645-01	PCB Container	UNUSED LAB CHEMICALS	9/27/2018	5	L	C-733	C-710	RTM	
	TOTAL PCB WASTE GENERATED IN CY 2018: 12,956									

Adj	RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Source	Waste Cat	Comments
-1	121075	121075-02	PCB Container	PCB VENTILATION DUCT OIL AND WATER	1/9/2018	Liquid (L)	-10	C-333	TSCA MIXED (TM)	Repacked into 121073-01
-1	121077	121077-06	PCB Container	VENTILATION DUCT OIL AND WATER	5/9/2017	L	-208	C-335	TM	Repacked into 121073-01
0	121255	121255- 02*	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST-TSCA RINSE	10/10/2017	L	7	C-337	TM	Generated more waste during 2018
-1	121424	121424-01	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	3/20/2018	Solid (S)	-14	Proc Bldgs	TM	Repacked into 121076-02
-1	121603	121603-01	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537-GT-61 AND C- 537-GT-63	8/8/2018	L	-1043	C-537	TM	Repacked into 121603-09
-1	121603	121603-02	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537-GT-61 AND C- 537-GT-63	8/8/2018	L	-1043	C-537	TM	Repacked into 121603-15
-1	121603	121603-03	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537-GT-61 AND C- 537-GT-63	8/8/2018	L	-680	C-537	TM	Repacked into 121603-19
				TOTAL ADJUSTMENTS TO	CY 2018 INVI	ENTORY:	-2992			

* Collection containers as of December 31, 2018. Weight estimated.

Table D.4	PCB Waste Shipped	l for Disposal in CY 2018

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
121053	121053-01	PCB Article Container	PCB BALLASTS, CAPACITORS AND SMALL TRANSFORMERS (COLLECTION)	3/21/2017	C-752-A	49	Solid (S)	Various	TSCA MIXED (TM)	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841911JJK
121084	121084-01	PCB Article Container	PCB BALLASTS/TRANSFORMERS/CAPACITORS	4/25/2017	C-752-A	237	s	Various	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841911JJK
121208	121208-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	7/10/2017	C-752-A	164	S	C-757	TM	5/14/2018	Energy <i>Solutions</i> , Clive, UT	006841936JJK
121272	121272-01	PCB Article Container	POTHEAD AND PLC CABLE	9/12/2017	C-752-A	818	S	Various	RCRA/TSCA Mixed (RTM)	9/10/2018	Energy <i>Solutions</i> , Clive, UT	019694504JJK
121277	121277-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS	10/4/2017	C-752-A	183	S	Various	TM	9/20/2018	Energy <i>Solutions</i> , Clive, UT	019694515JJK
125104	125104-01	PCB Article Container	LIGHT BALLASTS	5/1/2017	C-752-A	1,725	S	C-400	ТМ	5/14/2018	Energy <i>Solutions</i> , Clive, UT	006841936JJK
125105	125105-01	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	C-752-A	200	S	C-400	ТМ	5/14/2018	Energy <i>Solutions</i> , Clive, UT	006841935JJK
125105	125105-02	PCB Article Container	PCB BALLASTS (LEAKING)	5/3/2017	C-752-A	242	S	C-400	ТМ	5/14/2018	Energy <i>Solutions</i> , Clive, UT	006841935JJK
125105	125105-03	PCB Article Container	PCB BALLASTS (LEAKING)	5/15/2017	C-752-A	118	S	C-400	ТМ	5/14/2018	Energy <i>Solutions</i> , Clive, UT	006841935JJK
125127	125127-01	PCB Article Container	CAPACITORS/BALLASTS	6/26/2017	C-752-A	119	S	C-400	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
119845	119845-59	PCB Container	PCB ABSORBENTS	4/22/2016	C-752-A	35	S	C-337	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119845	119845-60	PCB Container	PCB ABSORBENTS	10/3/2016	C-752-A	43	S	C-337	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119863	119863-01	PCB Container	PCB CONTAMINATED METAL	6/3/2015	C-752-A	155	S	C-337	ТМ	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK
119874	119874-05	PCB Container	PCB ABSORBENTS	10/6/2015	C-752-A	113	S	C-337	TM	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK
119874	119874-06	PCB Container	PCB ABSORBENTS	9/17/2015	C-752-A	113	S	C-337	TM	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK
119874	119874-07	PCB Container	PCB ABSORBENTS	12/16/2015	C-752-A	59	S	C-337	TM	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK

RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
119874	119874-08	PCB Container	PCB ABSORBENTS	12/17/2015	C-752-A	82	S	C-337	TM	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK
119874	119874-09	PCB Container	PCB ABSORBENTS	1/22/2016	C-752-A	80	S	C-337	TM	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119874	119874-10	PCB Container	PCB ABSORBENTS	1/29/2016	C-752-A	58	S	C-337	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119874	119874-11	PCB Container	PCB ABSORBENTS	4/8/2016	C-752-A	41	S	C-337	TM	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119874	119874-12	PCB Container	PCB ABSORBENTS	10/17/2016	C-752-A	31	S	C-337	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841910JJK
119881	119881-01	PCB Container	PCB ABSORBENTS	9/3/2015	C-752-A	39	S	C-333	TM	2/20/2018	Energy <i>Solutions</i> , Clive, UT	006841910JJK
120906	120906-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS FROM C-335	10/18/2016	C-752-A	34	S	C-335	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841911JJK
121072	121072-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/11/2017	C-752-A	51	S	C-331	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121073	121073-01	PCB Container	VENTILATION DUCT OIL AND WATER C-331	4/25/2017	C-752-A	144	Liquid (L)	C-331	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121074	121074-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	5/15/2017	C-752-A	59	S	C-333	TM	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121075	121075-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	C-752-A	196	L	C-333	TM	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121076	121076-01	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	4/26/2017	C-752-A	132	S	C-335	TM	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121076	121076-02	PCB Container	SPILL CLEANUP FROM VENT DUCT TROUGHS	10/19/2017	C-752-A	44	S	C-335	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121077	121077-01	PCB Container	VENTILATION DUCT OIL AND WATER	4/26/2017	C-746-Q	205	L	C-335	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121077	121077-02	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	C-746-Q	216	L	C-335	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121077	121077-03	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	C-746-Q	210	L	C-335	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121077	121077-04	PCB Container	VENTILATION DUCT OIL AND WATER	5/1/2017	C-746-Q	207	L	C-335	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121077	121077-05	PCB Container	VENTILATION DUCT OIL AND WATER	5/4/2017	C-746-Q	219	L	C-335	TM	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK

Table D.4. PCB	Waste Shipped f	or Disposal in	CY 2018 (	(Continued)
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RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
121078	121078-01	PCB Container	VENT DUCT SOLIDS	4/25/2017	C-752-A	52	S	C-337	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121078	121078-02	PCB Container	PCB SPILL CLEANUP DEBRIS	10/9/2017	C-752-A	41	S	C-337	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121078	121078-03	PCB Container	SPILL CLEANUP DEBRIS	10/12/2017	C-752-A	42	S	C-337	ТМ	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121078	121078-04	PCB Container	SPILL CLEANUP DEBRIS	11/29/2017	C-752-A	47	S	C-337	TM	5/14/2018	EnergySolutions, Clive, UT	006841936JJK
121079	121079-01	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/25/2017	C-746-Q	211	L	C-337	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121079	121079-02	PCB Container	PCB VENTILATION DUCT OIL AND WATER	4/27/2017	C-746-Q	218	L	C-337	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121079	121079-03	PCB Container	PCB VENTILATION DUCT OIL AND WATER	7/12/2017	C-752-A	169	L	C-337	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121079	121079-04	PCB Container	PCB VENTILATION DUCT OIL AND WATER	5/9/2017	C-752-A	216	L	C-337	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121161	121161-01	PCB Container	VENT DUCT SOLIDS	3/11/2016	C-752-A	48	S	Proc Bldgs	ТМ	2/20/2018	EnergySolutions, Clive, UT	006841911JJK
121255	121255-01	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST-TSCA RINSE.	8/23/2017	C-746-Q	224	L	C-337	ТМ	5/14/2018	DSSI, Inc., Kingston, TN	006841920JJK
121423	121423-01	PCB Container	VENTILATION DUCT OIL AND WATER	4/23/2018	C-752-A	216	L	Proc Bldgs	TM	9/26/2018	EnergySolutions, Clive, UT	019694525JJK
121424	121424-02	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	4/18/2018	C-752-A	50	S	Proc Bldgs	TM	9/26/2018	EnergySolutions, Clive, UT	019694524 JJK
121424	121424-03	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	6/7/2018	C-752-A	53	S	Proc Bldgs	TM	9/26/2018	EnergySolutions, Clive, UT	019694524 JJK
121424	121424-04	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	8/9/2018	C-752-A	52	S	Proc Bldgs	ТМ	9/26/2018	EnergySolutions, Clive, UT	019694524 JJK
121548	121548-01	PCB Container	PCB OIL TRANSPORT TANK	6/25/2018	C-752-A	2,939	S	C-746-B	TM	7/31/2018	Energy <i>Solutions</i> , Clive, UT	006841943JJK
121603	121603-04	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	197	L	C-537	RCRA/TSCA Non-Rad (RTN)	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE

Table D.4. PCB W	aste Shipped f	or Disposal in	CY 2018 (	(Continued)
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RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
121603	121603-05	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	201	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-06	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	204	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-07	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	201	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-08	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	197	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-09	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	193	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-10	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	200	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-11	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	196	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-12	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	200	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-13	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	198	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-14	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	189	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-15	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	195	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-16	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	200	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-17	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	193	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
RFD	Waste ID	PCB Item	Description	PCB Date	Current Facility	Gross Wt (kg)	Physical	Source	Waste Category	Ship Date	Ship Location	Manifest
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121603	121603-18	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	192	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
121603	121603-19	PCB Container	PCB CONTAMINATED TRANSFORMER OILS (ELECTRICAL INSULATING OIL) FROM C-537- GT-61 AND C-537-GT-63	8/8/2018	C-752-A	81	L	C-537	RTN	9/7/2018	Clean Harbors Deer Park, LaPorte, TX	011797542FLE
125118	125118-01	PCB Container	SAMPLE RETURNS FROM C-400	6/6/2017	C-752-A	7	S	C-400	RTM	5/31/2018	Energy <i>Solutions</i> , Clive, UT	006841926JJK
125150	125150-01	PCB Container	PCB OIL FROM C-400 ZONE, 16 J-BOX	9/19/2017	C-752-A	144	L	C-400	ТМ	8/23/2018	DSSI, Inc., Kingston, TN	006841953JJK
125150	125150-02	PCB Container	PCB OIL FROM C-400 ZONE 16, J-BOX	9/20/2017	C-752-A	142	L	C-400	ТМ	8/23/2018	DSSI, Inc., Kingston, TN	006841953JJK
TOTAL PCB WASTE SHIPPED FOR DISPOSAL IN CY 2018: 14,325												

## Table D.4. PCB Waste Shipped for Disposal in CY 2018 (Continued)

Table D.5. PCE	Waste Invento	ry as of D	ecember 31,	2018
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RFD	Waste ID	PCB Item	Description	PCB Date	Physical	Gross Wt (kg)	Current Facility	Source	Waste Category
106744	106744-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER B983126. FORMERLY STAGE AT C-337 U2C3 "B" LOCATION.	11/7/2005	Solid (S)	15,649	C-337	C-337	TSCA MIXED (TM)
107839	107839-01	PCB Article	DAMAGED, DISCONNECTED, DE-ENERGIZED, AND DRAINED PCB TRANSFORMER RHL-0610. FORMERLY STAGED AT C-337 U2C8 "B" LOCATION.	6/27/2004	S	17,146	C-337	C-337	ТМ
121516	121516-01	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC	4/25/2018	S	194	C-752-A	Various	ТМ
121546	121546-01	PCB Article Container	PCB/LEAD CABLE AND POTHEAD	6/27/2018	S	836	C-752-A	Various	RCRA/TSCA Mixed (RTM)
121546	121546-02	PCB Article Container	POTHEADS	8/10/2018	S	884	C-752-A	Various	RTM
121546	121546-03	PCB Article Container	TRANSFORMER POTHEADS	7/25/2018	S	723	C-752-A	Various	RTM
121625	121625-01*	PCB Article Container	PCB LIGHT BALLASTS/TRANSFORMERS/CAPACITORS/ETC.	8/28/2018	S	78	C-757	Various	ТМ
121255	121255-02*	PCB Container	LUBE OIL/PCB RINSEATE COLLECTED IN SIGHT GLASSES FROM TRANSFORMER DRAINING, POST- TSCA RINSE.	10/10/2017	Liquid (L)	39	C-752-A	C-337	ТМ
121423	121423-02	PCB Container	VENTILATION DUCT OIL AND WATER	6/13/2018	L	202	C-752-A	Proc Bldgs	ТМ
121423	121423-03	PCB Container	VENTILATION DUCT OIL AND WATER	9/25/2018	L	226	C-752-A	Proc Bldgs	TM
121423	121423-04*	PCB Container	VENTILATION DUCT OIL AND WATER	11/1/2018	L	92	C-752-A	Proc Bldgs	TM
121424	121424-05	PCB Container	SPILL CLEANUP DEBRIS FROM VENT DUCT TROUGHS	9/5/2018	S	48	C-752-A	Proc Bldgs	ТМ
121424	121424-06*	PCB Container	RAG, PANS, PLASTIC, PADS, PPE	11/7/2018	S	31	C-752-A	C-337	TM
121618	121618-01	PCB Container	OIL FILLED DOOR CLOSERS	8/22/2018	S	333	C-752-A	C-400	TM
121618	121618-02	PCB Container	OIL FILLED DOOR CLOSERS	9/5/2018	S	167	C-752-A	C-400	TM
121645	121645-01	PCB Container	UNUSED LAB CHEMICALS	9/27/2018	L	5	C-733	C-710	RTM
TOTAL PCB WASTE INVENTORY AS OF DECEMBER 31, 2018: 36,653									

* Collection containers as of December 31, 2018. Weight estimated.