



E-Manifesting



2018 Environmental Conference, MARYLAND-DISTRICT OF COLUMBIA UTILITIES ASSOCIATION

Important Legislative Milestones

- October 5th, 2012 the Hazardous Waste Electronic Manifest Establishment Act was established
- February 7th, 2014 “One Year Rule” established policy and legal framework
- October, 2017 Final Rule for User Fees published
- June 30th, 2018 Official launch of E-manifest system
- EPA is continuing to develop their system (adding features, patching bugs)
- As of 9/26/18, less than 1000 manifests have been created electronically

Looking Forward

- June 30th, 2023 Anticipated Phase Out of Paper Manifest

What is “E-Manifest”?

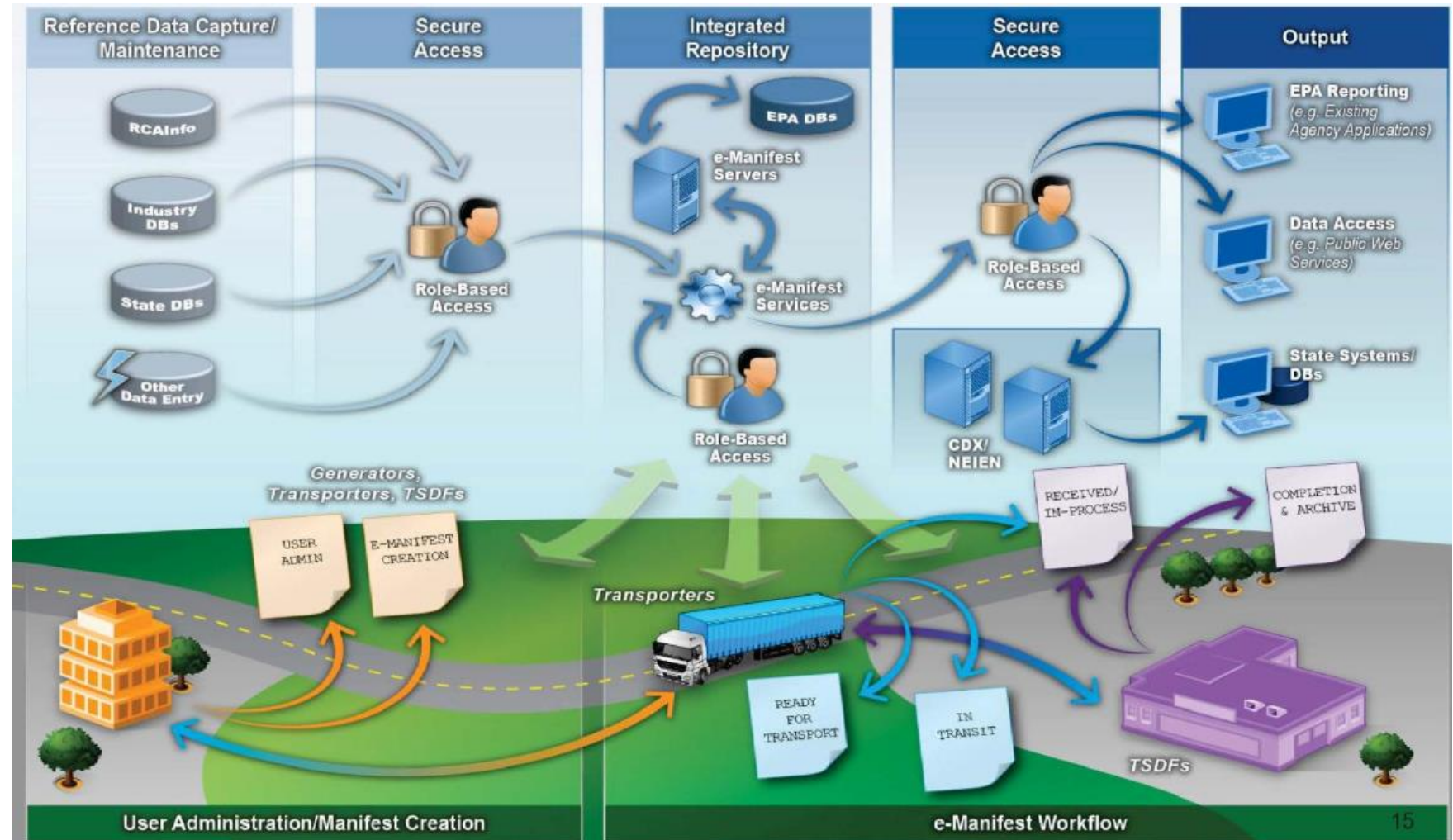
- US EPA has established a nationwide system for tracking hazardous waste shipment electronically

The system is known as electronic manifest system

- The e-manifest system modernizes the RCRA cradle-to-grave hazardous waste management tracking
- This new system should, in theory, reduce time, resources and provide cost savings for industry and states.

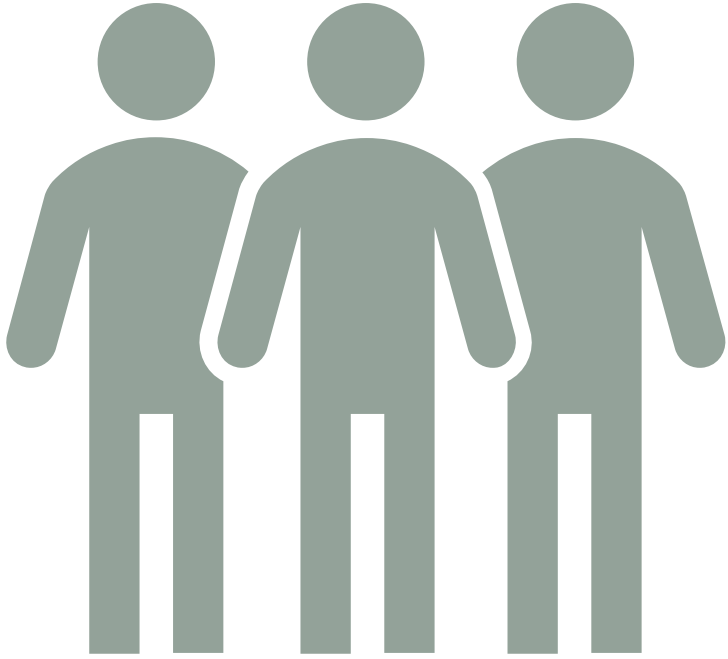
Who is Electronic Manifesting For?

- Generators
- Transporters
- TSDF
- State Agencies
- The Public



4 10/15/2018

As of June 30th



- Receiving facilities are submitting copies of the manifest to the EPA and EPA is collecting user fees depending on how they are submitted
- All records are sent to the EPA
- States, tribes and public personnel have access to manifest data
- Utilization is immediately effective in all states

Fees

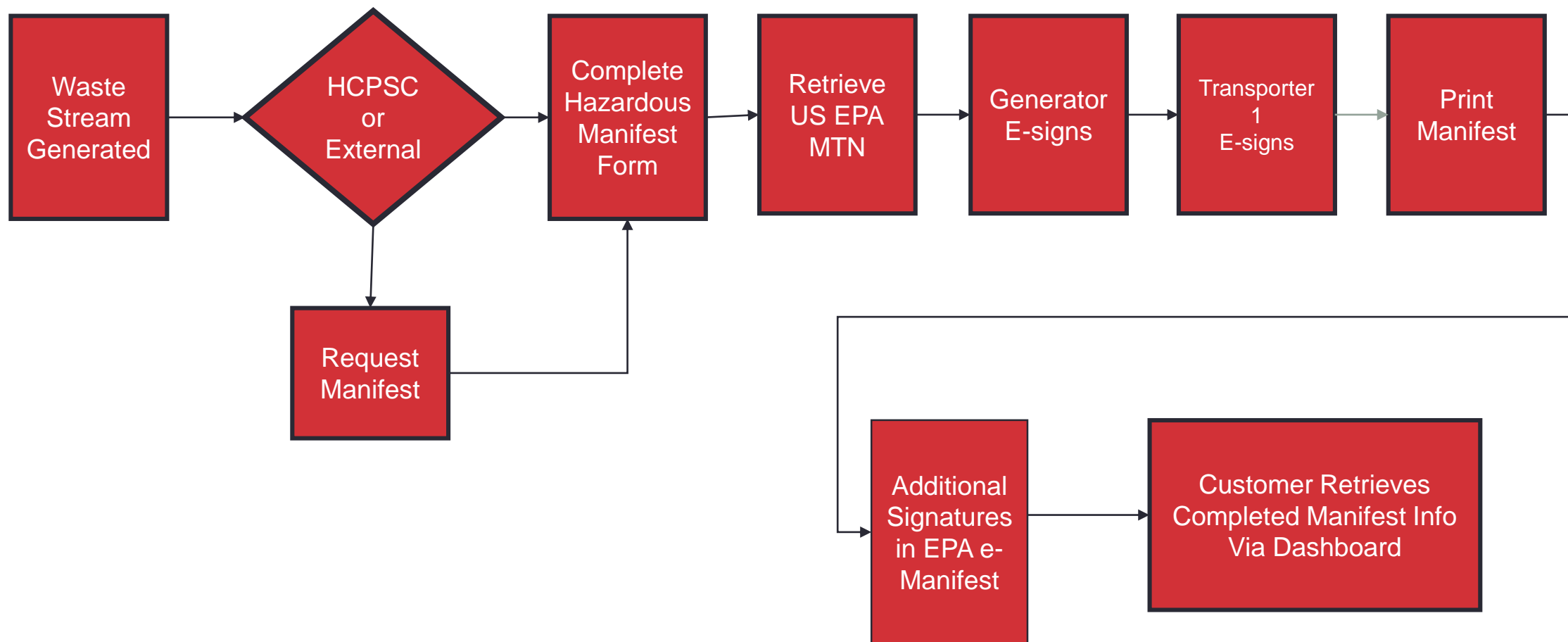
- The per manifest fees under the User Fee Rule varies based on the type of manifest and how the manifested is submitted

Manifest Submission	Types	Fee
Paper Manifest Types	Mailed Paper	\$15.00
	Image Only	\$10.00
	Image + Data	\$6.50
Electronic Manifest (includes hybrid)	Electronic	\$5.00

API Key System Features

- Customer centric portals
- Isolated and secure environment for each customer, and secure access for HCPSC, Customer, and Contractor user
- Limited offline functionality
- Manifest printing to support DOT requirements
- Document retention for manual entries
- Tracking Capabilities that mirror existing Waste Tracker Platform

High Level – Hazardous Waste



High Level –Customer Vendor Manual Entry- Mockup

Create Shipment

Vendor	<div>PSC</div>	Customer	<div>ComEd</div>	PCB	<div>No</div>
Shipping Doc Number	<div></div>	Profile	<div>-- Select --</div>	COD Date	<div>Select Date</div>
Date Shipped	<div>Select Date</div>	Container Qty	<div></div>	PCBConc (ppm)	<div></div>
Date Return Copy	<div>Select Date</div>	Container Type	<div>-- Select --</div>	PCB Date Processed	<div>Select Date</div>
Waste Metric ID	<div>-- Select --</div>	Waste Qty	<div></div>	PCB Eqpt/Material Type	<div>-- Select --</div>
Customer Region	<div>-- Select --</div>	UOM	<div>-- Select --</div>	PCB Oil Filled	<div>Not Set</div>
Waste Gen Address	<div></div>	Pounds of Waste	<div></div>	PCB Serial #(s)	<div></div>
Waste Gen City	<div></div>	COC WO	<div></div>	PCB Job Site	<div></div>
Transporter	<div>-- Select --</div>	Customer WO	<div></div>	PCB KVA	<div></div>
		Customer Task	<div></div>		
Comments	<div></div>				

Save & Close

Save & New

Save & Copy

Back to List

Manifest Request -Mockup

Customer	ComEd ▼
Profile	-- Select -- ▼
Container Qty	
Container Type	-- Select -- ▼
Waste Qty	
UOM	-- Select -- ▼
Pounds of Waste	
COC WO	
Customer WO	
Customer Task	

Integration fo e-Manifesting with Waste Portal Shipment Page

Shipment List:

[Create Shipment](#)

Show 20 records

Action	Vendor	Customer	Doc Number	Date Shipped	Date Return Copy	Waste Metric ID	Waste Gen Location	Waste Gen Address	Waste Gen City	Transporter
▼ Cont	▼ Con	▼ Contai	▼ Contains...	▼ On...	▼ On...	▼ Contains...	▼ Contains...	▼ Contains...	▼ Contains...	▼ Contains...
Edit	PSC	ComEd	12012016NONRWET	12/1/2017	12/31/2016	10	CHICAGO NORTH REGION		CHICAGO	DisposAll
Edit	PSC	ComEd	12012016NONRWET	12/1/2017	12/31/2016	10	CHICAGO SOUTH REGION		CHICAGO	DisposAll
Edit	PSC	ComEd	016664002JJJ	1/10/2017		02	CHICAGO NORTH REGION	13TH & WABASH	CHICAGO	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016664002JJJ	1/10/2017		02	CHICAGO NORTH REGION	13TH & WABASH	CHICAGO	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016663579JJJ	1/9/2017		09	DIXON REGION	919 1ST ST	DIXON	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016664006JJJ	1/9/2017		02	CHICAGO NORTH REGION	3500 N. CALIFORNIA AVE	CHICAGO	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016463159JJJ	1/9/2017		10	MAYWOOD DVA REGION	31ST & GUNDERSON	BERWYN	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016663579JJJ	1/9/2017		08	DIXON REGION	919 1ST ST	DIXON	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016665525JJJ	1/9/2017		02	CHICAGO SOUTH REGION	3201 S MILLARD	CHICAGO	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016663580JJJ	1/9/2017		03	DIXON REGION	919 1ST ST	DIXON	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016664005JJJ	1/9/2017		02	CHICAGO NORTH REGION	5734 W RACE AVE	CHICAGO	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016668318JJJ	1/9/2017		10	STREATOR REGION	HICKRY & BLOOMINGTON	STREATOR	PSC - INDUSTRIAL OUTSOURC
Edit	PSC	ComEd	016663579JJJ	1/9/2017		09	DIXON REGION	919 1ST ST	DIXON	PSC - INDUSTRIAL OUTSOURC

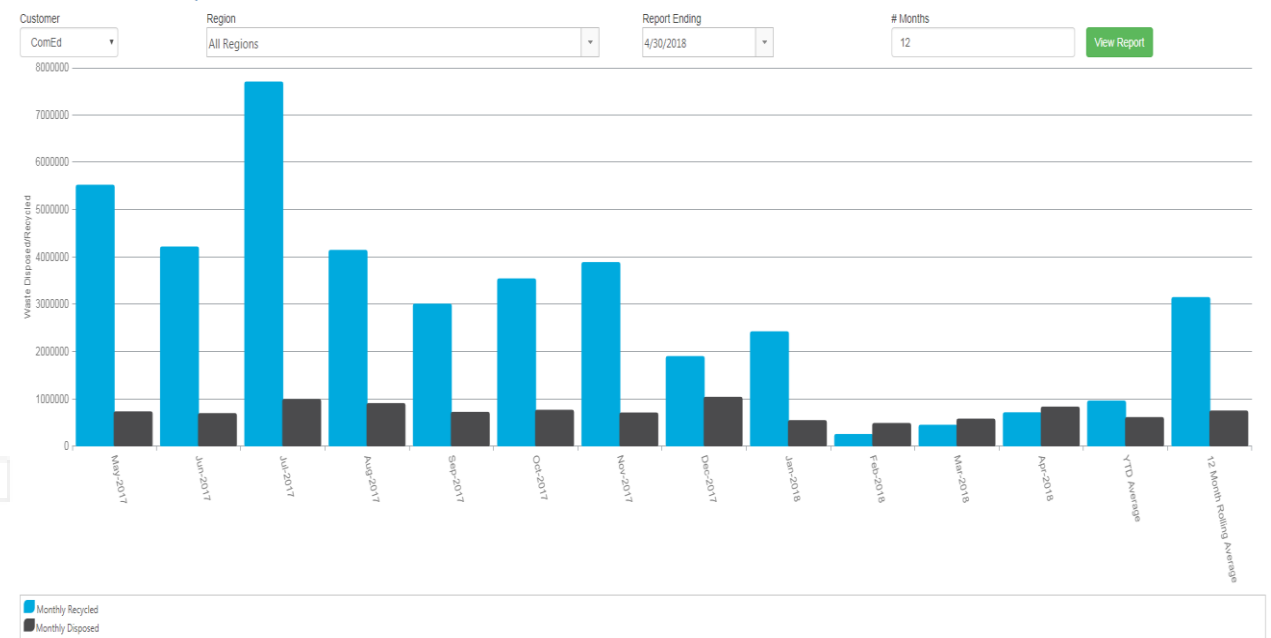
- Better management of shipped waste and improved waste tracking
- Utilization as a program management tool
- Data is right at the customers finger tips.
- Ensure better ISO-14001 compliance
- Reports or customizable
- Generate Monthly/Annual Waste Reports-
 - Non Hazardous / Hazardous

Customer Landing Page- Mockup

Recycled vs Target



Industrial Waste Disposition



Waste Portal Viewable Shipment Page

Shipment List:

Action	Manifest	Vendor	Customer
Edit	Manifest	PSC	ComEd
Edit	Manifest	PSC	ComEd

Please print or type.

UNIFORM HAZARDOUS WASTE MANIFEST		1. Generator ID Number ILD984827337	2. Page 1 of 1	3. Emergency Response Phone 844-334-2468	4. Manifest Tracking Num 100002076ELC		
5. Generator's Name and Mailing Address COM ED ELGIN REPORTING CTR 2 LINCOLN CTR OAKBROOK TERRACE IL, 60181			Generator's Site Address (if different than mailing address) 350 SECOND ST ELGIN IL, 60120				
Generator's Phone: 630-688-9468							
6. Transporter 1 Company Name PHILIP WEST INDUSTRIAL SERVICES			U.S. EPA ID Number CAR000177527				
7. Transporter 2 Company Name EMCO CHEMICAL DISTRIBUTORS			U.S. EPA ID Number ILD005070495				
8. Designated Facility Name and Site Address EMCO CHEMICAL DISTRIBUTORS INC 4909 70TH AVE KENOSHA WI, 53144			U.S. EPA ID Number WID988615613				
Facility's Phone: 262-658-4000							
9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any)) 1. UN3028, Batteries, Dry, Containing Potassium Hydroxide, Solid, 8, PG III			10. Containers No. Type		11. Total Quantity	12. Unit Wt./Vol.
				4 DF		380	P

ATOR ☒

Edit	Manifest	PSC	ComEd	016210967JJK	7/22/2018	8/12/2016	02	Mayw
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Waste Portal Regulatory Reporting

Haz Waste Summary

Customer: Region: Start Date: End Date: Haz Waste Option:

Region	Region US EP...	Region IL EPA...	Profile	Haz Waste Co...	Source Code	Form Code	Disposal Facility	Facility EPA ID	Management ...	Waste Density	Waste Lb	Transporter	USEPAID	Hauling Perm
BOLINGBROOK REGION	ILD103182754	1974155002	Mixed Aerosols	D001	G11	W801	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H141	16.68	60	PSC - INDUSTRIAL OUTSOURCING, LP	UTD988074274	5188
CHICAGO NORTH REGION	ILT180015216	0316005543	Flamm. Loosepack	D001	G09	W004	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H061					
CHICAGO NORTH REGION	ILT180015216	0316005543	LEAD	D008	G19	W209	Spring Grove Resource Recovery Inc.	OHD0008166...						
CHICAGO NORTH REGION	ILT180015216	0316005543	Lead Contaminated Debris	D008	G39	W301	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H141					
CHICAGO NORTH REGION	ILT180015216	0316005543	Mixed Aerosols	D001	G11	W801	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H141					
CHICAGO SOUTH REGION	ILD112422944	0316005493	CORROSIVE LOOSEPACK (INORGANIC/...	D002	G11	W110	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H141					
CHICAGO SOUTH REGION	ILD112422944	0316005493	CYANIDE SOLUTION (ELECTRO-PLATING)	D011	G11	W312	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H141					
CHICAGO SOUTH REGION	ILD112422944	0316005493	Flammable Lab Pack	D007,U220	G11	W004	Tradebe Treatment and Recycling of Wisconsin	WID988580056	H061					

Region: Chicago South Region							EPA ID: ILD112422944					
Sum of WasteQty												
PCB_TYPE DESIGNATION	ProfileName	OSD/Transport Date	DocNumber	PCBCODDate	PCBDateProcessed	PCBEqptMatType	PCBSerialNo	PCBConc	DISPOSAL METHOD	TSDF	Total	WasteUOMCode
ARTICLE	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	9/12/2014	012859994jkl	3/11/2015	2/5/2015	BUSHINGS	1682119, 1682118, 1682120	68, 72, 69	Disposal Method I, L	A-Line	4268 K	
ARTICLE Sum											4268 K	
ARTICLE Count											1 No.	
CONTAINER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	5/1/2014	008373480jkl	3/11/2015	6/5/2014	Soil/spoils/debris	N/A	>500	Disposal Method L	A-Line	14 K	
CONTAINER	PCB Contaminated Soil - Chicago South	8/14/2014	013208499JJK	8/19/2014	8/19/2014	Soil/spoils/debris	N/A	>500	DISP L	Badger disp of WI	2500 K	
CONTAINER	PCB OIL	7/28/2014	013208343JJK	3/11/2015	2/5/2015	Oil	N/A	190	DISP I	A-Line	200 K	
CONTAINER	PCB SOIL	5/21/2014	013216726JJK	6/12/2014	5/21/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	2272 K	
CONTAINER	PCB SOIL	6/4/2014	013216338JJK	6/16/2014	6/4/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	9000 K	
CONTAINER	PCB SOIL	6/5/2014	013216339JJK	6/5/2014	6/5/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	9000 K	
CONTAINER	PCB SOIL	7/11/2014	013209104JJK	8/4/2014	7/11/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	169 K	
CONTAINER	PCB SOIL	7/20/2014	013209097JJK	8/14/2014	7/20/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	591 K	
CONTAINER	PCB SOIL	7/21/2014	013209101JJK	8/14/2014	7/21/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	381 K	
CONTAINER	PCB SOIL	8/27/2014	013207981JJK	9/25/2014	9/25/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	243 K	
CONTAINER	PCB SOIL	10/22/2014	013216073JJK	11/7/2014	11/7/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	89	
CONTAINER	PCB SOIL	10/22/2014	013216074JJK	11/7/2014	11/7/2014	Soil/spoils/debris	N/A	>50	DISP L	Wayne Disposal LF	189 K	
CONTAINER	TSCA REGULATED USED OIL >49 PPM PCB	6/3/2014	013216340JJK	3/11/2015	8/19/2014	Oil	N/A	83, 88	Disposal Method I	A-Line	382 K	
CONTAINER	TSCA REGULATED USED OIL >49 PPM PCB	8/26/2014	013207983JJK	9/17/2014	9/17/2014	Oil	N/A	>49	DISP I	A-Line	95 K	
CONTAINER	TSCA REGULATED USED OIL >49 PPM PCB	9/16/2014	013208343JJK	3/11/2015	2/5/2015	Oil	N/A	190	Disposal Method I	A-Line	200 K	
CONTAINER Sum											25325 K	
CONTAINER Count											15 No.	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	1/31/2014	008373420JJK	8/11/2014	6/30/2014	Pole	C475253	95	Disposal Method I	A-Line	513.64 K	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	4/16/2014	008373463JJK	3/11/2015	9/18/2014	Pole	C462146	61, 122, 219	Disposal Method I,R	A-Line	1390.91 K	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	4/30/2014	008373464JJK	3/11/2015	9/18/2014	Pole	C440257-56P, B54325, C407305	60, 61, 87	Disposal Method I, R	A-Line	1045.45 K	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	5/1/2014	008373480jkl	3/11/2015	9/18/2014	Pole	62m9510	68	Disposal Method I, R	A-Line	292 K	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	6/17/2014	008373496JJK	3/11/2015	8/19/2014	Pole	35852-31	205	Disposal Method R & I	A-Line	386 K	
TRANSFORMER	ELECTRICAL EQUIPMENT WITH LIQUIDS 50-499 PPM PCB	7/17/2014	012859960JJK	3/11/2015	8/22/2014	Pad	740498501	69	Disposal Method R, C	A-Line	909 K	
TRANSFORMER Sum											4537 K	
TRANSFORMER Count											6 No.	
Grand Total											34130 K	

Environmental Compliance Thru Waste Tracker

- Track wastes managed by HydroChemPSC & **all of customer's Environmental Contractors** Monthly metrics reporting.
- **Generate** annual waste reports (SARA/Tier II, Hazardous Waste, Chicago Liquid Waste, etc.).
- ComEd PCB document log
- Tracks all EPA ID Numbers, Facilities for Compliance

Questions