

EnviroTech

Waste and Water Use: Tracking and Compliance Management System



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For organizations, required by law to track hazardous waste, water use and dangerous goods, ez2Track is a sleek digital solution that brings tracking and regulatory reporting at their fingertips, at a fraction of their current cost and efforts.



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ENVIRONMENTAL COMPLIANCE

- ▶ Most reporting submissions are digital
- ▶ Provincial Government suspending regular submissions
- ▶ Paper-based plans/processes:
 - ❖ Environmental Management Plans (EMP)
 - ❖ Emergency Response Plans (ERP)
 - ❖ **Hazardous Waste Manifesting**
 - ❖ **Transportation of Dangerous Goods (TDG) Shipping Documents**
 - ❖ **Bill of Lading/ Truck Tickets**
 - ❖ **Water Use Tracking**



HAZARDOUS WASTE MANIFESTS

- ▶ Directive 58 Requirements:
 - ❖ Tracking waste from cradle to grave
 - ❖ Annual Waste Disposition reports : 30 days
 - ❖ Penalties (\$50k individual; \$500k corporations)
 - ❖ Electronic Manifests allowed since 2015
- ▶ AEP Waste Control Regulation
- ▶ Ontario and BC
- ▶ Federal



Alberta Oilfield Waste Form

Form No.

A) GENERATOR (CONSIGNOR)				B) TRANSPORTER (CARRIER)															
COMPANY NAME:		OPERATOR/BA CODE (GENERATOR):		COMPANY NAME:				CITY:		PROV.		ADDRESS:		POSTAL CODE:					
ADDRESS:		CITY:		PROV.		POSTAL CODE:		DATE:		UNIT NO:		TELEPHONE:		FAX:					
SOURCE SITE LOCATION (SURFACE LOCATION):				Certification - I declare that I have received wastes as offered by the Generator in PART A for delivery to the Intended Receiver and that the information contained in PART B is correct and complete.															
LICENCE TYPE (W.P.F.) & LICENCE NUMBER: ▼																			
INTENDED RECEIVER				C) RECEIVER (CONSIGNEE)															
COMPANY NAME:		CITY:		PROV.		ADDRESS:		POSTAL CODE:		RECEIVING SITE LOCATION:		OPERATOR CODE/BA CODE:							
CITY:		PROV.		RECEIVING SITE LOCATION:		OPERATOR CODE/BA CODE:													
WASTE CODE	DROW or NON-DROW	UN NUMBER	TDG SHIPPING NAME (DOW)/COMMON NAME IF NON-DOW	CLASS	PACKING GROUP	QUANTITY SHIPPED	UNITS	PACKAGING NO.	PACKAGING CODE	HANDLING CODE	QUANTITY RECEIVED	UNITS	OIL %	WATER %	SOLID %	HANDLING CODE	TRANS DECOR		
	▼						▼					▼							
	▼						▼					▼							
	▼						▼					▼							
	▼						▼					▼							
SPECIAL HANDLING/EMERGENCY INSTRUCTIONS:											IF HANDLING CODE "01", "02" OR "21" SPECIFY:								
DATE SHIPPED:				TIME SHIPPED:				DATE RECEIVED:				TIME RECEIVED:							
I declare that the information in Part A is correct and complete. I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, are properly classified and packaged, have dangerous goods safety marks properly affixed or displayed on them, and are in all respects in proper condition for transport according to the Transportation of Dangerous Goods Regulations.											TELEPHONE / CELLULAR		IDENTIFY DISCREPANCIES BETWEEN WASTE RECEIVED AND DETAILS LISTED IN PART A IN THE COMMENTS SECTION.						
NAME OF AUTHORIZED PERSON (PRINT):				SIGNATURE:				24HR EMERGENCY NO											
COMMENTS											Certification - I declare that the information contained in PART C is correct and complete.								
											NAME OF AUTHORIZED PERSON (PRINT):								
											TELEPHONE:								
											SIGNATURE:								

SEE BACK FOR FORM INSTRUCTIONS

WATER USE

- ▶ Water Act:
 - ❖ Temporary Diversion Licenses (TDLs)
 - ❖ Water Act Licenses
 - ❖ Monitor and report Water Use
- ▶ Water Use Reporting System (WURS)
- ▶ Non-Compliances/ Enforcement:
 - ❖ AER charged Tamarack Valley Energy recently under Water Act
 - ❖ Notice of Non-compliance: Pembina, Teine Energy, Grand Rapids Pipeline, Gear Energy
 - ❖ Several administrative penalties

CHALLENGES

- ▶ Systems and processes not fit for purpose
 - ❖ Logistical issues with most of us Working from Home (WFH)
 - ❖ Paper as a transmission pathway during pandemics
 - ❖ Manual data entry subject to errors
- ▶ Inefficiencies/ Archaic
- ▶ Duplication of efforts
- ▶ Lack of real-time visibility
- ▶ Risk of Non-compliance



THE SOLUTION

- ▶ Cloud based digital solution, accessible anywhere
- ▶ Intuitive, easy to use, mobile friendly
- ▶ Efficient support - regulatory requirements, analytics
- ▶ Comprehensive solution
- ▶ No upfront investment
- ▶ Quick and high ROI



DANGEROUS GOODS, WATER USE AND HAZARDOUS WASTE: TRACKING MADE EASY!

EnviroApps



- Sustainability Reporting
- Cost Saving
- Regulatory Compliance
- Business Intelligence
- Dynamic Data Analysis
- No Duplication of Efforts
- Ready to Deploy Remotely
- No Manual Data Entry
- Auto-generated Notifications

LIVE DEMO



COMPLIANCE COST REDUCTION

Example : E&P Company generates 3,500 manifests/yr.

- ▶ \$40-60 per manifest = cost of compliance
- ▶ \$175,000 per year for E&P Company
- ▶ Similar admin costs at Waste Receiver's end
- ▶ ez2Track costs less than half for E&P Company
- ▶ More than 400% ROI combined (E&P and Receivers)
- ▶ More than 200% ROI for E&P Company



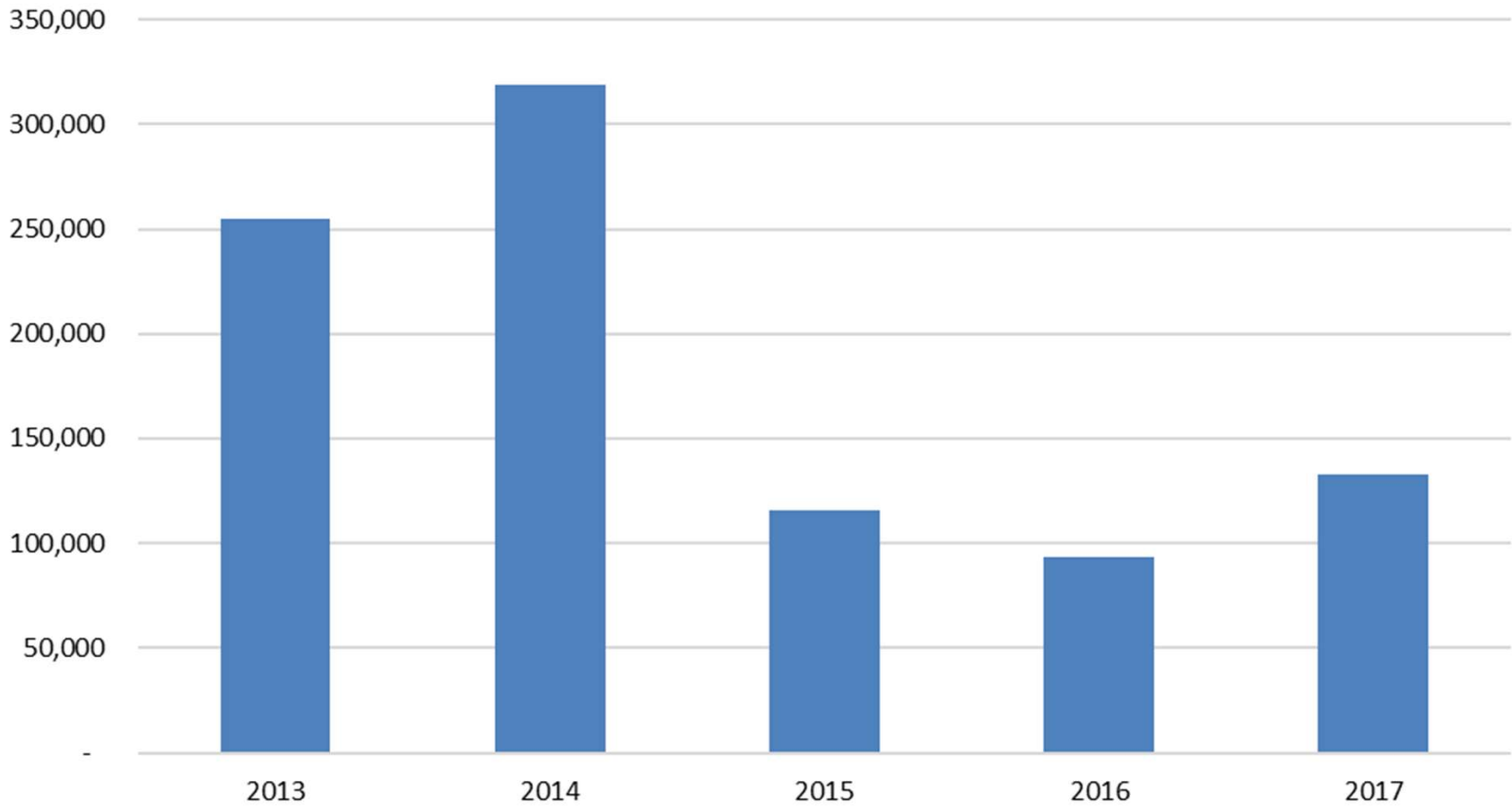
CASE STUDY

Five years of data, calculated actual distances and compared to optimum distances; potential time savings/ transportation cost savings:

- ▶ More than 30,000 manifests
- ▶ \$190/hr. transportation cost
- ▶ 63% of the time – distance optimized : Opportunity = 37%
- ▶ More than \$900,000 potential savings : ROI > 300%



Potential Transportation Cost Savings (\$)



KEY TAKEAWAYS

- ▶ Time to switch over to digital tools is now!
- ▶ Digital solutions don't require capital investment
- ▶ Pays for itself many times over in several ways
- ▶ Significantly lower risk of non-compliance
- ▶ Quick and easy implementation remotely
- ▶ Little to no training required



Questions?

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THANK YOU !

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www.enviroapps.ca