

Fugitive Emission Survey/FEMP/LDAR

Why engage Ener-Controls



A better, higher-quality FEMP/LDAR process

Ener-
Controls

Competition
(Intricate, Green
Path, Blue Chip,
etc.)

<p>Petrinex Facility IDs included. With ALL survey results for each location surveyed.</p> <p>Benefit: Facility ID is required to report survey results via Annual Methane Reporting. Without this, reporters are left “guessing” in tying a location to a reporting ID = confusion and errors.</p>	✓	Almost never
<p>Vent/Leak Separation. ALL methane sources and rates including planned venting (routine) and leaks (fugitive emissions). Identified separately.</p> <p>Benefit: Simplifies Annual Methane Report. Simplifies checks/reconciliation between One Stop (AMR) and Petrinex (where VENT is reported)</p>	✓	✗
<p>On-the-spot repairs. If simple leaks: no-charge as many are easily fixed/repaired.</p> <p>Benefit: Simple repairs done quickly on the spot. More complex repairs set up for ongoing monitoring and tracking</p>	✓	Sometimes
<p>No emissions? Video confirmation. Site videos confirming 0 emissions.</p> <p>Benefit: Convenient, at-your-fingertips backup if a Field inspector shows up or if there’s a Regulator inquiry.</p>	✓	✗
<p>Industry-low pricing. \$90 per hour for labor, \$40 for equipment rental, \$1.25/km for mileage</p>		Usually 20-40% more
<p>Un-paralleled reputation with Regulator and audit expertise: We built EPAP and methane-related EPAP compliance indicators for the AER and for SK Ministry. Our standing with Regulators is strong.</p> <p>Benefit: Compliance warranty – Regulator issues with work we do fixed at no extra charge.</p>	✓	✗

Our Survey Team – vetted, competent and cost-effective

	Ener-Controls team (via Solution Corp.)	HOW IT HELPS YOU
SURVEYORS VETTED	<ul style="list-style-type: none"> We have shopped Fugitive Emissions Rates across at least 15 Service Providers, screening out a few “fly by night” operators AND Providers too expensive. We have done the leg work for you! 	<ul style="list-style-type: none"> No valuable time spent interviewing and comparison-shopping multiple vendors – done! Our Selected Vendor strikes the best balance between competence/professionalism and cost.
BULK RATES/GROUP DISCOUNT	We negotiated with our Surveyors on your behalf, and offer you rock-bottom equipment rental, mileage and other hourly rates.	<ul style="list-style-type: none"> You get the benefit of “bulk rates” (think of it as a group discount). Labor \$90/hour, mileage at 1.45 cents per km, OGI camera + sampler at \$40 per hour. All of these are easily the best rates in our Industry.
SKILL	<p>Our survey staff meet the highest standards of professionalism. Please see:</p> <p>https://www.solutioncorp.ca/fugitive-emissions</p>	You can rest assured, the survey work will be conducted by experienced surveyors, skilled in the techniques required by the AER/Ministry.
SAFETY	Our survey staff are fully insured, and contractually bound to follow internal (and external, Ener-Controls) Health and Safety Standards.	<p>You can rest assured all OHS, other internal safety procedures will be followed to a “T”.</p> <p>Between Ener-Controls and our staff we have well over 7MM in CGL and 500K in E&O – eliminating safety risk for your company.</p>

Fugitive Emission Surveys – Convenience and Synergy

	WHAT WE OFFER	HOW IT HELPS YOU
CONVENIENCE	All (or most) of your Emissions / Methane related work under one roof.	<ul style="list-style-type: none">• No sifting through and coordinating multiple provides with dozens of invoices.• Ener-Controls issues at most 3 invoices to any client in any year – making compliance spend much easier to review/track.
INTEGRATION TO AMR FILING	All FEMP related data will be provided in a format easily integrated into the Annual Methane Report.	Other providers of FEMP Services, may (or may not) provide data in the format required for AMR reporting = square peg into round hole.
INTEGRATION TO EPAP	Fugitive Surveys should represent an EPAP control – one that you, as a producer, should be proud of and want to tell the AER about	<p>We integrate the results of the surveys, and ongoing management of your FEMP, into your EPAP annual audit and reporting.</p> <p>The way it should be!</p>

Introducing Emission CNTral

- Your FEMP/Survey data housed in a system (as AER D060 and SK rules requires)
- Easy to use – web-based interface
- See <https://www.cntr.al/emission-cntral/>

Advantages of using Emission CNTRal

Compliant

- AER D060 requires use of a “system” to house and manage leaks.
- Enables monitoring and surveillance of FEMP related data by facility (and equipment), making it much easier to act on findings
- CNTral deliver that at an excellent price.

Professional and Easy to use

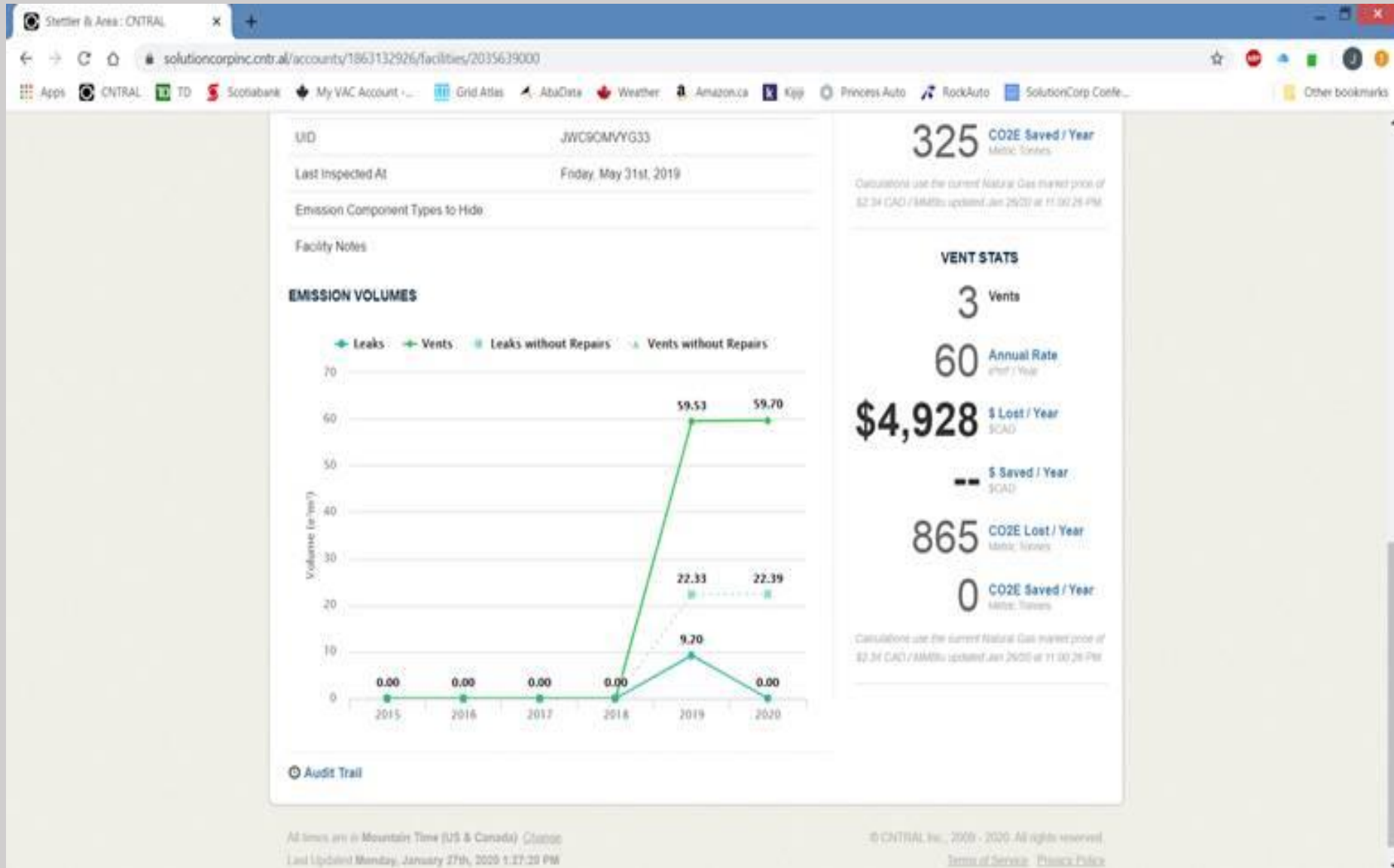
- The interface is **built** for Alberta and Saskatchewan producers. Geared towards oil and gas operations, and simple to navigate
- Focuses your compliance dollar on where leak rates are high, or trends are worrying

Why Use Emission CNTral

- **Because the Regulator requires a “System” to manage your FEMP.**
 - In all, AER D060 and Manual 16 (FEMP) make no less than 50 references to the need to house leak-related data in a system of some sort.
 - The AER has confirmed that Excel is not the “System” they require.
- **Because it makes business sense.**
 - For FEMP compliance to be achieved, the work must be organized and easy to do. Our experience has shown that an Excel spreadsheet:
 - Is not an “interactive” reporting system for documenting FEMP surveys.
 - Can be very time-consuming to create.
 - Emission CNTral delivers exactly what the Regulator intends and requires: less time on formatting excel, and more time on leak detection and repair.
 - See next set of slides please.

Monitor and track survey data at *any* level

- If no emissions detected at a specific site, the CNTral fee for facility is 0



Identify, tag and track – make it simple!

- Each emission source tagged and tracked for ease of review
- Any leak repair can be updated & closed-out by any internal user.

Adobe Acrobat Reader DC window showing a PDF document titled "CNTRAL - 2019 Tank Farm - [DEMO] SolutionCorp Inc. - 2020-01-27 14:27-04.pdf". The document displays a form for "Tag #01" with the following sections:

Location

DISTRICT	SUB DISTRICT Stettler	SUB SUB DISTRICT
FACILITY NAME Stettler & Area	LAND DESCRIPTION 100/10-05-039-19W4	TYPE Tank

Point Source

PROCESS BLOCK Tankage	PROCESS STREAM Crude Oil	COMMODITY	EMISSION TYPE Leak
COMPONENT TYPE Other : Thief Hatch	SIZE	MAKE N/A	MODEL N/A
COMPONENT DESCRIPTION Tank farm - gas escaping from thief hatch on tank #T1		POINT SOURCE NOTES	

Last Inspection

INSPECTED ON May 31, 2019 10:35:25 AM	INSPECTED BY Jim Flack	QUANTIFICATION METHOD None	RATE 0.0 L / min	DAILY RATE 0.0 e³m³
STATUS Not Leaking	SAFETY HAZARD? Unknown	INSPECTION NOTES Thief hatch replaced.		

Below the form is a photograph of a tank farm with a red line indicating a leak source.

Right sidebar (Adobe Acrobat Reader DC):

- Search "Drop Page"
- Export PDF
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- Create PDF
- Comment
- Combine Files
- Organize Pages
- Redact
- Protect
- Optimize PDF
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Make focused spend decisions on leak repair

- Quickly and visually identify the financial benefits of leak repair – anywhere, anytime

Adobe Acrobat Reader DC interface showing a PDF document titled "CENTRAL - 2019 Tank Farm - [DEMO] SolutionCorp Inc. - 2020-01-27 14-27-25.pdf". The document content displays a table of emission data for the 2019 Tank Farm, categorized by Tag #, Facility, Emission Source Description, Type, Process Block, Status, Rate, Annual Loss, and Annual Savings.

Tag #	Facility	Emission Source Description	Type	Process Block	Status	Rate	Annual Loss	Annual Savings
01	Stettler & Arns 100/10-05-039-1996	Tank farm - gas escaping from brief hatch on tank #T1	Leak	Tankage	Not Leaking	0.0 cfm	\$0.00	\$1,521.61
02	Stettler & Arns 100/10-05-039-1996	Tank farm - external known vent (1 intentional emission - tank venting through vent piping on tank #T2)	Vent	Tankage	Leaking	2.0 cfm Estimate	\$2,028.82	\$0.00
03	Stettler & Arns 100/10-05-039-1996	Tank farm - gas venting from vents on tank #T3.	Vent	Tankage	Leaking Repair in 45 Days	1.0 cfm Estimate	\$1,014.41	\$0.00
04	Stettler & Arns 100/10-05-039-1996	Tank farm - external known vent (1 intentional emission - tank venting through vent piping on tank #T4)	Vent	Tankage	Leaking	1.0 cfm Estimate	\$1,014.41	\$0.00

The interface includes a sidebar with various PDF tools such as Export PDF, Edit PDF, Create PDF, Comment, Combine Files, Organize Pages, Redact, Protect, Optimize PDF, Fill & Sign, Send for Review, and More Tools. The footer indicates the document is generated on the CENTRAL Platform™ by JOT Tank at Jan 27, 2020 2:27:25 PM, AD 0000-00-00-0000.

Keep Regulator-required audit trail

- Better audit tracking, along with proof of leak embedded within record

Point Source #01: CNTRAL

solutioncorpinc.cntral/accounts/1863132926/facilities/2035639000/emission_components/2148538697


Apps CNTRAL TD Scotiabank My VAC Account Grid Atlas AbuData Weather Amazon.ca Kijiji Princess Auto RockAuto SolutionCorp Confe... Other bookmarks

Audit Trail

May 31/19 10:17:00 Inspected by Jim Flack **Leaking**

Quantification Method	Estimate	Edit Move Delete
Rate	1.5 CF / min	
Recommendation	Repair / replace thief hatch	
Inspection Notes	Video #12005	
Entered By	Jim Flack	

+ Add Attachment



Download Edit Delete

Audit Trail

Audit Trail

Show off your emissions reduction success

- Search historical data without flipping through multiple cumbersome excel sheets

Report: 2019 Tank Farm : CNTRAL

solutioncorpinc.cntral/accounts/1863132926/reports/4293

Report Type: Emission Component

Time Zone: Mountain Time (US & Canada)

Created By: Jim Flack

Search Filters

Year: 2019

4 Search Results

Tag #	UID	Status	Description	Component Type	Rate	Reading (ppm)	Originally Inspected	Last Inspected
01	JWCAIH701ZO	Not Emission	Tank farm - gas escaping from thief hatch on tank #T1	Other: Thief Hatch	0.0 CF / min		May 31, 2019	May 31, 2019
02	JWCAL6L6Y7J	Venting	Tank farm - external known vent (1 intentional emission - tank venting through vent piping on tank #T2)	Vent: Tank Vent	2.0 CF / min		May 31, 2019	May 31, 2019
03	JWCANOEKWRD	Venting	Tank farm - gas venting from vents on tank #T3.	Vent: Tank Vent	1.0 CF / min		May 31, 2019	May 31, 2019
04	JWCAGM97TPQ	Venting	Tank farm - external known vent (1 intentional emission - tank venting through vent piping on tank #T4)	Vent: Tank Vent	1.0 CF / min		May 31, 2019	May 31, 2019

50 Per page

All times are in Mountain Time (US & Canada) [Change](#)

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