

PREDICT · PRIORITIZE · PROTECT

Stop searching the whole network. Give crews a clear place to start.

Fracta Leak Zones uses your pipe and break records with our Likelihood of Failure (LOF) model to prioritize leak investigations. Adding SCADA exports, our recommended path, turns that risk ranking into a leakage signal.

FROM REACTIVE TO TARGETED

TODAY

- Leak surveys sweep miles of pipe with no clear starting point
- Non-revenue water is a number on a report, not a map
- Crews respond after a break surfaces or a customer calls

WITH LEAK ZONES

- Crews start in areas prioritized for leak investigation
- Pipe and break history focus effort on the higher-risk parts of the network
- Field checks confirm which priority areas contain leaks

HOW IT WORKS

01 · FIND THE ZONES

Start with existing records

Our LOF model combines your pipe inventory and break history with environmental data to prioritize areas for leak investigation.

02 · RECOMMENDED

Add operating context

A SCADA export 1 to 4 times a year, plus zone/facility GIS, shows where water is being lost. No live connection.

03 · CONFIRM IN THE FIELD

Act, then refresh

Your crews (or our optional field partners) confirm leaks on site. Updated zones are delivered 1, 2, 3 or 4 times a year, depending on your package.

WHAT YOU RECEIVE

- ✓ Map of priority areas for leak investigation
- ✓ Ranked pipes to guide investigation in each zone
- ✓ Clear visual outputs your crews can work from
- ✓ Refreshes 1 to 4 times a year, timed so you can act on each set

WHAT YOU DO NOT NEED

- ✓ No new sensors or hardware in the ground
- ✓ No live SCADA connection: a historical export 1 to 4 times a year (recommended, not required)
- ✓ No prior Fracta risk assessment
- ✓ No perfect data: send what you have, we confirm scope

FRACTA LOF MODEL

Pipe + environmental data

Your pipe and break records plus environmental data Fracta supplies (soil, climate, topography)

+

RECOMMENDED ENHANCEMENT

SCADA + zone/facility GIS

A SCADA export 1 to 4 times a year shows where water is being lost

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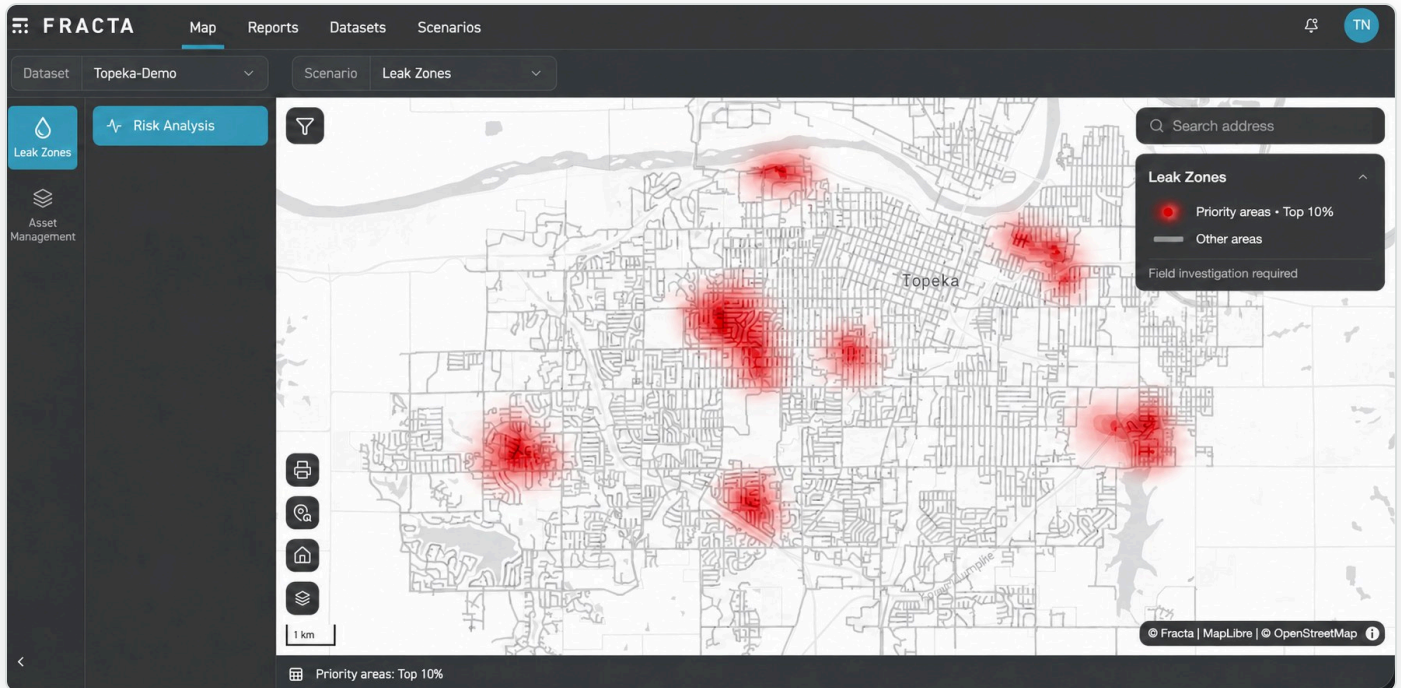
LEAK ZONES

Where to look, and which pipes

Priority areas and pipes for field investigation

What your crews see

Every delivery lands in the Fracta platform as a map of priority areas, so crews know where to start before they roll a truck.



Example Leak Zones output in the Fracta platform: priority areas (top 10%) flagged for field investigation. Demonstration data.

FOUR PACKAGES · 1, 2, 3 OR 5 YEAR TERMS

BRONZE 1x a year	SILVER 2x a year	GOLD 3x a year	PLATINUM 4x a year
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Recommended: one SCADA export per delivery, so 1 to 4 times a year. Never a live connection.

What we need, at a glance

Start with GIS pipe inventory and break history. Fracta adds environmental data to prioritize areas for leak investigation. Neither SCADA nor zone/facility GIS is needed to get started, but we recommend both: SCADA is what turns a risk ranking into a leakage signal.

MINIMUM · GIS Pipe inventory ID, install date, material, diameter	MINIMUM · RECORDS Break history Date and pipe ID or location per break	RECOMMENDED · SCADA Operational data Hourly flows, tank levels and pressures	RECOMMENDED · GIS Zones & facilities Zone polygons, facility points, connections
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01 Operational data RECOMMENDED

File formats

CSV or Excel

Interval

One reading per hour, 24 hours a day

How often you send it

1 to 4 times a year, matching your package. Never a live connection

History

Most recent 5 years preferred; send what is available

Not required to start, but recommended for the sharpest targeting. Include hourly records from every operated asset: plant outlets, pump/booster stations, wells, tanks and flow/pressure meters. Flag any asset without records.

Data	What to include	Status
Metered flows	Hourly flow from every plant outlet, well, pump/booster station and zone boundary meter. Timestamp, meter/tag ID, flow and units. Cover all inflows, outflows and transfers.	RECOMMENDED
Tank storage	Hourly level or stored volume for every storage tank. Timestamp, tank ID and units, plus a level-to-volume table (or tank shape, diameter and usable height).	RECOMMENDED
Pressure	Hourly pressure from all operated assets, including every pump/booster station and tank. Timestamp, meter/tag or asset ID, pressure and units.	RECOMMENDED
Operating records	Pump run status or schedules; dates of shutdowns, meter faults or replacements, valve changes, flushing, firefighting and major overnight use.	HELPFUL

Export tips that speed up your results

- State the time zone, daylight-saving convention and recording interval.
- Tell us whether values are rates, interval volumes or cumulative totals, and whether they are station totals or individual pump readings.
- Keep original field names, quality flags (e.g. BAD) and gaps, and note any known meter issues.
- Please do not replace missing readings with zero. Leave them blank.

How to send it

- Upload files through the secure transfer method agreed with your Fracta contact. No live SCADA connection: just an export 1 to 4 times a year.
- Include a short field/tag legend with units.
- If data are missing, identify the affected assets, zones, dates and intervals. We will confirm the assessment scope with you.

02 GIS: zones and facilities RECOMMENDED

File formats

Zipped shapefile (all component files), GeoPackage, geodatabase or GeoJSON

Please state

Coordinate system and units

Recommended alongside SCADA. Cover the entire network; IDs should match your exports and pipe inventory.

Data	What to include	Status
Zone boundaries	Polygons for all pressure zones or district metered areas (DMAs), with zone IDs.	RECOMMENDED
Facilities and connections	Points for every operated plant, pump/booster station, well, tank and flow/pressure meter, with asset IDs. Connections between zones with linked pipe/zone IDs and flow direction. Note which zones each facility supplies and any unmetered connections.	RECOMMENDED

03 Pipe inventory and break history REQUIRED

Only these two datasets are required. They feed our LOF model, and Fracta supplies the environmental data. Fracta's standard LOF data request still applies.

Data	What to include	Required
Pipe inventory (GIS)	Pipe ID, Installation Date, Pipe Material and Pipe Diameter. IDs must be unique and complete; blanks in the other columns are fine.	YES
Break history	A date for each break, plus the Pipe ID or a usable location (address or coordinates).	YES

COMMON QUESTIONS

Do we need to give Fracta access to our SCADA system?

No. We only need a CSV or Excel export 1 to 4 times a year, matching your package. Recommended, not required.

Our data has gaps. Can we still move forward?

Yes. Send what you have and flag what is missing. We will tell you up front how gaps affect scope.

How often are leak zones refreshed?

Once, twice, three or four times a year (Bronze, Silver, Gold or Platinum), so your team has time to investigate and act on each set before the next one arrives.

Who confirms the leaks?

Your crews confirm leaks in the field. If you prefer, Fracta can include on-site pinpointing through a leak detection partner as an optional add-on.

Ready to find your leaks faster?

Send us your files, or book a 30-minute data review and we will walk through what you have together.

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