

# CASE STUDY

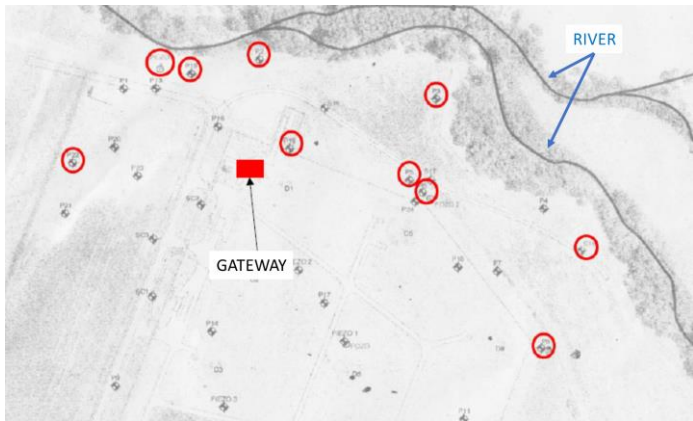
## Monitoring groundwater of a tank farm

### THE SCOPE OF PROJECT

Underground Storage Tank farm inside an airport had a significant spill that reached the river and generated significant environmental impact. Cleaning and restoration included the creation of 50 monitoring wells. After restoration a monthly inspection of the wells was established in order to avoid new leaks to the river.

### THE CHALLENGE

As it was a restrained area (airport) manual inspections required permits every time a monitoring campaign was made. Also, the big area that had to be covered made manual inspections very slow process.



3 wells monitored with SST wireless devices

### THE SOLUTION

It was agreed with the Regulators that the monitoring wells near to the river where going to be monitored daily with SST sensor to detect any new spill or reboot of the old one as soon as possible.

Installation of sensors putting the emitters on top to increase communication in an extensive area.



System was installed in less than two days and data was sent daily to SST servers where 24/7 monitoring was established. Customer could access data through web-application to see data information of all sensors on real time

Estacion: [wolfster](#)

Fecha	P10	P12	P13	P14	P16	P19	P20	P6	P7	P8
2017-07-18 10:58:04	●	●	●	●	●	●	●	●	●	●
2017-07-17 10:57:58	●	●	●	●	●	●	●	●	●	●
2017-07-16 10:57:59	●	●	●	●	●	●	●	●	●	●
2017-07-15 10:57:39	●	●	●	●	●	●	●	●	●	●
2017-07-14 10:58:22	●	●	●	●	●	●	●	●	●	●
2017-07-13 11:14:43	●	●	●	●	●	●	●	●	●	●
2017-07-12 11:14:55	●	●	●	●	●	●	●	●	●	●
2017-07-11 11:15:05	●	●	●	●	●	●	●	●	●	●
2017-07-10 11:14:48	●	●	●	●	●	●	●	●	●	●
2017-07-09 11:14:49	●	●	●	●	●	●	●	●	●	●
2017-07-08 11:14:45	●	●	●	●	●	●	●	●	●	●
2017-07-07 11:14:48	●	●	●	●	●	●	●	●	●	●
2017-07-06 11:14:54	●	●	●	●	●	●	●	●	●	●
2017-07-05 11:14:43	●	●	●	●	●	●	●	●	●	●
2017-07-04 11:14:54	●	●	●	●	●	●	●	●	●	●
2017-07-03 11:14:44	●	●	●	●	●	●	●	●	●	●
2017-07-02 11:14:45	●	●	●	●	●	●	●	●	●	●
2017-07-01 11:14:48	●	●	●	●	●	●	●	●	●	●

### THE OUTCOME

System has been in place monitoring 24/7 for over 4 years. During that time three new spills were detected that were immediately tackled before reaching the river and reducing significantly the environmental impact as well as remediation costs.

No manual monitoring had to be done during this time generating significant savings.