

THE ONLY way to make sure you are improving is to measure your performance.



# Environmental Messenger

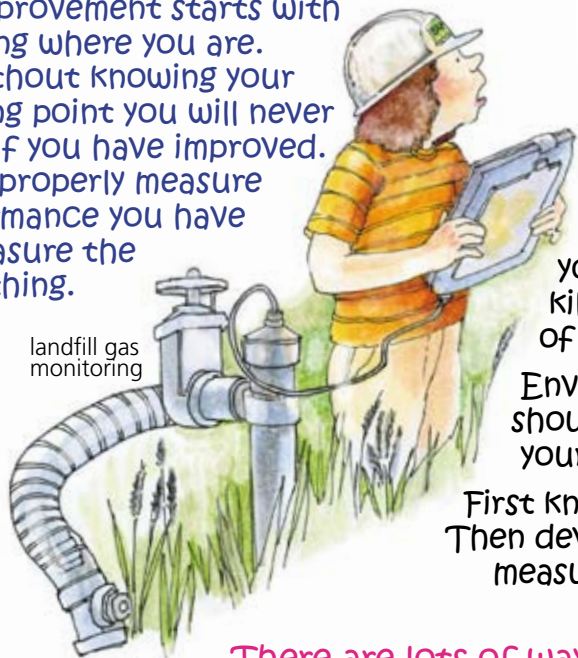
Higher Environmental Performance

## PERFORMANCE MEASUREMENT

Taking the time to plan for improvement starts with knowing where you are.

Without knowing your starting point you will never know if you have improved.

To properly measure performance you have to measure the right thing.



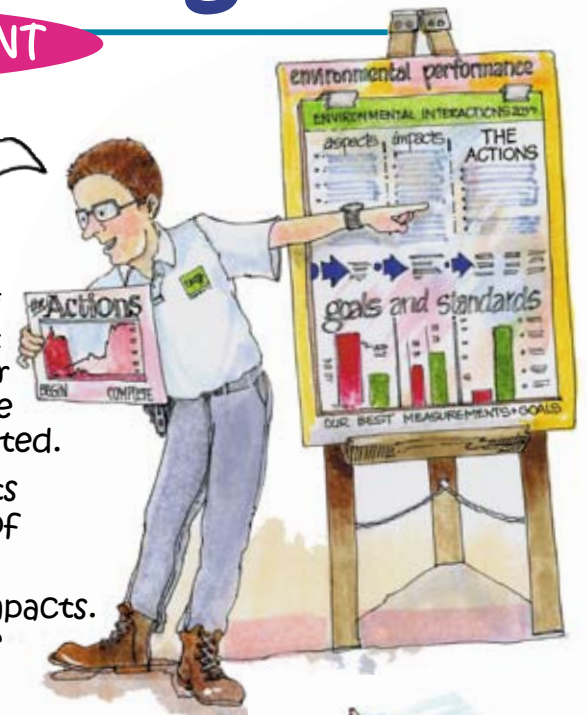
landfill gas monitoring

YOU CAN SET STANDARDS AND GOALS BUT WITHOUT MEASUREMENT YOU WILL NEVER KNOW IF YOU ARE MEETING THEM.

For instance, if you were measuring the fuel efficiency of your equipment you would not monitor cost per hour or kilometre you would measure the volume of fuel used per hour or kilometre operated.

Environmental Performance measurements should be developed from an assessment of your interactions with the environment.

First know your environmental aspects and impacts. Then develop your environmental performance measures based on your potential impacts.



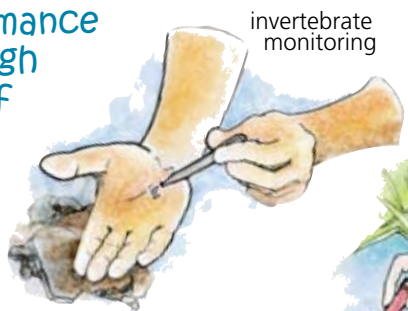
There are lots of ways to measure environmental performance.

Environmental Performance can be assessed through direct measurement of inputs and outputs:

- noise level monitoring
- vibration monitoring
- groundwater sampling
- surface water sampling
- dust monitoring
- stack emission testing
- volume of hazardous waste produced
- volume of non-hazardous waste produced
- volume of materials recycled
- pump and flow measurements
- resource use raw materials



gas emissions monitoring



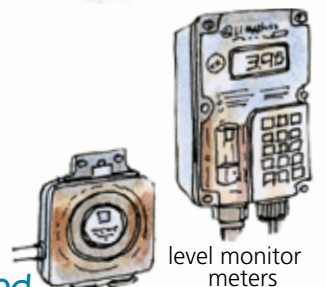
invertebrate monitoring



water temperature



weather monitoring



level monitor meters

or by calculations and modeling based on inputs, outputs and processes:

- direct greenhouse gas emissions
- groundwater movement and impacts
- chemical loadings of surface water discharges
- movement of air emissions from processes

or by direct observations through inspections of

- tanks, pumps and pipes
- housekeeping
- odour, dust and noise emissions
- combustion equipment
- equipment that is vital to preventing pollution



invertebrate sampling



ground water sampling



dust monitor



stack monitoring

chemical analysis G.C.M.S.

### Questions

What environmental performance measures does your facility have in place?

What inspections are made at your facility to monitor environmental performance?

What other things would you suggest be monitored at your site?

Environmental performance is an integral part of your operation's overall health. A good performer performs well in all aspects of their business: financial, environmental, health and safety and product/service quality.

Developing environmental performance measures allows you to accurately decide where to make changes to better support the environment.

Imagine a world where environmental performance is as important as financial performance.

*As long as I can conceive something better than myself I cannot be easy unless I am striving to bring it into existence or clearing the way for it.*

George Bernard Shaw

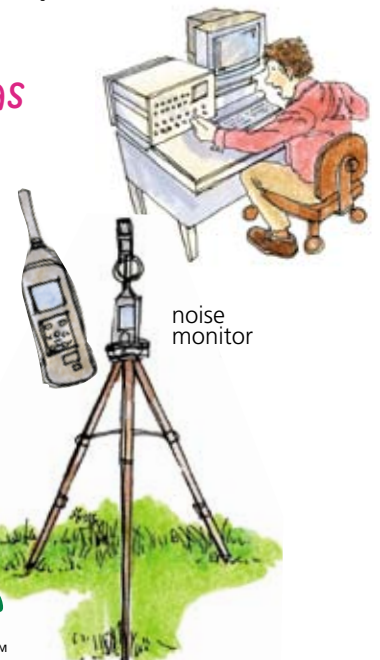


Higher Environmental performance



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noise monitor