



# HERBICIDE (GLYPHOSATE) ENQUIRIES

## ***If I think trees or plants on my property have been poisoned, what can I do?***

Glyphosate is a broad-spectrum, non-selective systemic herbicide used for the control of most types of plants. Here in Australia it is most familiar under the trade names Roundup and Zero. It is highly soluble in water and is quickly absorbed through plant tissues and through the plant to the growing points, where it blocks the synthesis of three critical amino acids. Without these critical amino acids, the plant cannot grow or conduct a number of essential biochemical processes.

Glyphosate works only when applied to the green parts of plants; the presence of bark blocks its absorption. It works only when plants are actively growing – typically during warmer weather.

## **Toxicology**

When used according to the label instructions, glyphosate poses little risk of toxicity to humans and other animals. Numerous tests and studies have shown that glyphosate is safe when used correctly. No long-term effects have been seen, and glyphosate does not accumulate in the body. However, some formulations are toxic to fish on account of the surfactants used in them.

## **Breakdown in soil**

Glyphosate has an average half-life of 47 days in soil, meaning that it can take 6 months for >99% of it to break down. However, it is strongly adsorbed to most soils, and thus does not leach or run off appreciably. Soil microorganisms then break it down. It has a comparable fate in water.

## **Signs of Glyphosate spraying**

Within the first week after application, plants generally show no signs of anything, although growth stops immediately. Then within the second week, leaves start to yellow or bleach and distort. By the end of the second week, plants are dead.

If you have read through the following testing capabilities and wish to proceed with Glyphosate testing, please fill out the enquiry form below & email to [info@sesl.com.au](mailto:info@sesl.com.au)

<b>ABN</b>	<b>WEBSITE</b>	<b>PHONE</b>	<b>EMAIL</b>	<b>HEADOFFICE/LAB</b>
70 106 810 708	sesl.com.au	1300 30 40 80	info@sesl.com.au	16 Chilvers Rd Thornleigh NSW 2120



# HERBICIDE (GLYPHOSATE) ENQUIRY FORM

## CONTACT DETAILS

CONTACT NAME:

MOBILE/ PHONE:

ADDRESS:

EMAIL:

## TESTING DETAILS

TYPE OF TESTING:

GLYPHOSATE & AMPA IN PLANT TISSUE

GLYPHOSATE IN SOIL

GLYPHOSATE IN WATER

DO YOU REQUIRE THE FOLLOWING:

RESULTS ONLY

RESULT INTERPRETATIONS

RECOMMENDATIONS

TURNAROUND TIME (TAT):

YES

NO

IS THIS FOR LEGAL PROCEEDINGS?

YES

NO

## SAMPLING DETAILS

DO YOU REQUIRE A SAMPLE COLLECTOR?

YES

NO

IF SO, PLEASE STATE ADDRESS OF SAMPLE COLLECTION & ANY SPECIFIC INSTRUCTIONS WE MAY REQUIRE:

ADDRESS:

INSTRUCTIONS:

DO YOU REQUIRE ANY OTHER SAMPLING?

YES

NO

IF SO, PLEASE DETAIL WHAT TESTING YOU REQUIRE:

DETAILS:

### BACKGROUND TO THE REQUEST:

DESCRIBE THE PURPOSE OF THE TESTING TO HELP US ENSURE THE CORRECT ANALYSIS:


ABN

WEBSITE

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EMAIL

HEADOFFICE/LAB

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Thornleigh NSW 2120

**Please note cost of testing per sample:**

The cost for analysing for glyphosate alone (the most commonly available herbicide) starts at around \$600 per sample. This does not include other herbicides or chemicals which may have been used. Due to the many compounds used within herbicides, a wide spectrum analysis, which can capture other herbicides, is very costly. A general screen of commercially available herbicides costs upwards of \$1,500.

On top of analysis, we charge \$50 per sample for a basic comment on the results or approximately \$1,200 per extensive report with interpretations, and prefer to conduct a site visit to collect evidence and samples, which is charged out at \$300 - \$350 per hour, including mobilisation. While this service is optional, SESL encourages a qualified scientist to inspect the specimens and collect the sample. Furthermore, if legal proceedings are pursued, collection of samples by an independent consultant will hold more weight in the courts.

Glyphosate & AMPA in Plant Tissue:	\$690 + GST
Glyphosate in Soil:	\$550 + GST
Glyphosate in Water:	\$350 + GST

**Sample Collection requirements for analysis:**

If you suspect that glyphosate has been used on your plants, don't delay. Glyphosate can only be detected for up to a few weeks after the initial poisoning. Collect leaves that are showing signs of stress; dead leaves are not suitable for analysis. Collect 200 g of leaves and place them in a paper bag to limit decay during transport to the lab. If the grass or groundcover plants around the targeted plant are also showing signs of decline, then soil analysis may also be appropriate. Provide 250 g of soil in an air-tight plastic bag or container.

If you suspect that water has been contaminated as well, send us 200 mL in a clean sealed jar. Keep all samples in the fridge (4 °C) until they are sent to the lab. Because of the complexities of the test, allow 10 to 14 days for the results.

**Laboratory address for sample delivery:**

16 Chilvers Rd,  
Thornleigh NSW 2120

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