



6312 Oakton Street  
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## HIGH-RESOLUTION GAMMA SPECTROSCOPY REQUEST

Date: \_\_\_\_\_ Chain of Custody ID (if applicable): \_\_\_\_\_ PO Number: \_\_\_\_\_

Contact: \_\_\_\_\_ Phone: \_\_\_\_\_ E-mail: \_\_\_\_\_

Organization: \_\_\_\_\_ Sampling Site: \_\_\_\_\_

Address: \_\_\_\_\_ Collection Date: \_\_\_\_\_

Collected By: \_\_\_\_\_

Include a copy of a chain-of-custody in the report:  Yes  No

**LICENSE IL-01429-01. This shipment must comply with DOT regulations. Call RSSI before sending samples.**

Laboratory Use Only		Sample ID	Material	Required Radionuclides	Required Limit of Detection	Analyze			Sample Return
ID	Mass					On Receipt	After In-Growth	Dry Weight	

Comments: \_\_\_\_\_

## **Marinelli Sample Instructions**

1. Label each marinelli container with a unique Sample ID and the collection date using the stickers provided.
2. Fill out the High-Resolution Gamma Spectroscopy Request.
  - 2.1. Fill out the contact information fields. Include the address to be used on the report cover letter and to return samples if they cannot be disposed of as ordinary trash. If samples are being returned, we will contact you to tell you that samples are being returned.
  - 2.2. Sample ID: Use the unique Sample ID(s) from step 1.
  - 2.3. Required Radionuclides: Specify the radionuclides required on a report. These will be used as a basis for an analysis library. If not specified, the report shall be for naturally-occurring radionuclides.
  - 2.4. Required Limit of Detection: Specify the required limit of detection in terms of activity per mass (e.g. pCi/g, Bq/kg).
  - 2.5. Analyze Upon Receipt: Indicate if the sample is to be analyzed upon receipt at our laboratory. Samples can be analyzed multiples times.
  - 2.6. Analyze After In-Growth: Indicate if the sample be held for an in-growth period before analysis at our laboratory. Please specify the requested in-growth period. For radium-226, an in-growth period of 30 days allows for in-growth of radon decay products and provides the most accurate measurement. Samples can be analyzed multiples times.
  - 2.7. Analyze Dry Weight: Indicate if the sample should be dried to determine the activity per dry weight. There is a nominal fee to dry samples.
  - 2.8. Sample Return: Indicate if samples should be returned. Otherwise, samples are held for a month after analysis before disposal.
  - 2.9. Use a separate form for each sampling location.
3. Fill each container as completely as possible without bulging. Incomplete filling may result in measurement error. Seal each container by wrapping a strip of the provided black vinyl electrical tape around the lid of the container twice.
4. For liquid samples: Use a screw-on lid liquid sample marinelli. Seal each container by wrapping a strip of black vinyl electrical tape around the lid of the container twice. Surround the container with sufficient absorbent material to absorb twice the enclosed volume and place it in a bag.
5. Pack the containers such that they cannot shift during transport and possibly open.
6. Send to RSSI.