

## Sampling Protocol for Pesticide Residue Testing

New York Apple Sales (NYAS) recognizes that its grower-suppliers take all reasonable steps to ensure that no produce supplied has residues exceeding the maximum residue levels (MRLs) of the U.S. as well other countries in which NYAS exports. As part of our due diligence program, a random apple sample needs to be tested annually for pesticide residues.

**NYAS field services staff will coordinate sampling each season and will work with growers and/or packing sheds directly on determining variety and sample timing.**

### Sample Location and Method:

Where possible samples will be taken from the packing shed as finished product. There may instances when residue results are needed promptly and require a sample directly from the orchard or storage.

**Pack Shed:** Pull a 6-8 apple sample (approximately 2 pounds) off the line, post washing and waxing and at a large enough interval that the apples would have originated from different bins. (Note: wax will not change the sample results and is acceptable.) Samples may also be taken from packed fruit and should be taken from different pallets. The sample must represent one variety and orchard lot.

**Orchard:** Pull a 6-8 apple sample (approximately 2 pounds) from the orchard. Samples will consist of one variety from one orchard block (lot). Samples must be taken from different areas of the block so as to get a good representation of the entire orchard.

**Record Keeping and Traceability:** Samples should represent one orchard (lot). Record date of sample, location, grower, variety, lot, orchard.

**Laboratory:** Each season NYAS will select an ISO 17025 certified lab based on service, quality and price. If a packshed prefers a different lab, they must contact NYAS prior to seeking services from that lab. Labs offer different residue screens. It's important to choose the screens that represent the chemical used in the orchards. The major groups of pesticides that are used include organo-halides, organo-phosphates, carbamates, pyrethroid, and DPA.

Current Approved Lab:

<u>Lab Name</u>	<u>Test</u>
Environmental Micro Analysis Woodland, CA 95776 ph. 530-666-6890	MRL/Export – OC Screen, LC/MS/MS Ext Screen plus DPA

**Sampler:** Sampling will be conducted by NYAS Field Service Personnel or by trained pack shed personnel.

**Results and Corrective Action:** Should any test results indicate a residue level higher than the MRL for the U.S. tolerances or for any other countries the fruit is destined for, NYAS will follow the following procedures if applicable: Recall, Withdrawal, Holds or Quarantine, diverting fruit to another market where the fruit would meet the MRL, or not accepting the fruit for sale. If applicable, more tests of existing fruit would need to be done in order to insure acceptable MRL levels prior to shipping. Any pesticide residue test results exceeding MRLs is of a very serious matter and subsequent actions should be carried out as quickly as possible.