

WASTE SAMPLE INFORMATION

NCDA&CS Agronomic Division Plant/Waste/Solution/Media Section
Mailing Address: 1040 Mail Service Center, Raleigh NC 27699-1040
Physical Address (UPS/FedEx): 4300 Reedy Creek Road, Raleigh NC 27607
Phone: (919) 733-2655 Web Address: www.ncagr.gov/agronomi

FOR OFFICE USE ONLY
REPORT # _____
DATE REC'D _____
INITIAL _____



SAMPLE TYPE <i>[circle designation(s) / see instructions]</i>	
Predictive	Diagnostic
Research	Out of State

SAMPLE INFORMATION	PAYMENT	GROWER INFORMATION <i>(please print)</i>	CONSULTANT/OTHER RECIPIENT
FARM ID _____	FEE TOTAL _____ AMT PAID _____	LAST NAME _____ FIRST NAME _____	LAST NAME _____ FIRST NAME _____
SAMPLED BY <input type="checkbox"/> Grower <input type="checkbox"/> NCDA&CS Agronomist <input type="checkbox"/> Advisor <input type="checkbox"/> Coop. Ext. Agent	METHOD OF PAYMENT () CASH () CHECK <i>(payable to NCDA&CS)</i> () MONEY ORDER () ESCROW <i>(provide account name below)</i>	ADDRESS -----	ADDRESS -----
SAMPLE DATE _____		CITY _____ STATE _____ ZIP _____	CITY _____ STATE _____ ZIP _____
COUNTY <i>(where collected)</i> _____		PHONE (____) _____ - _____	PHONE (____) _____ - _____
NUMBER OF SAMPLES _____		E-MAIL ADDRESS _____ <input type="checkbox"/> Do Not notify me when report is available.	E-MAIL ADDRESS _____ <input type="checkbox"/> Do Not notify me when report is available.

LAB NUMBER <small>(leave blank)</small>	SAMPLE ID	WASTE CODE	SAMPLE DESCRIPTION / COMMENTS	APPLICATION METHODS	CORRESPONDING SAMPLE ID			SPECIAL TESTS (\$10)			LAB USE ONLY								
					SOIL	PLANT	SOLUTION	NO ₃	Heavy metals	CCE	pH	EC	C	%DM	S				
1																			
2																			
3																			
4																			
5																			

INSTRUCTIONS (provide all information requested in shaded areas)

SAMPLE TYPE — *Predictive* samples are analyzed for nutrient content. The report provides interpretation & general recommendations. An agronomist reviews results of *diagnostic* samples, identifies potential nutritional problems & makes suggestions for management. *Research* designates samples submitted in connection with an approved research contract agreement. *Out of state* is the correct designation for samples submitted from outside North Carolina.

SAMPLE INFORMATION — Provide all requested information, especially payment details (refer to **WASTE ANALYSIS FEES** on the back of this form).

GROWER INFORMATION — Provide accurate contact information (phone with area code, address, e-mail).

SAMPLE ID — Provide sample identification (no more than six digits or letters). Put the same ID on the sample container.

WASTE CODE — Identify the type of waste in the sample by using codes (see back of this form).

SAMPLE DESCRIPTION / COMMENTS — Briefly describe problem or reason for sampling (necessary for diagnostic samples).

APPLICATION METHODS — Select one or two application methods from the list at the right for estimation of nutrient availability.

CORRESPONDING SAMPLE ID — List the IDs of any matching soil, plant or solution samples submitted.

SPECIAL TESTS — Indicate nonstandard tests desired: nitrogen breakout (nitrate & ammonium), heavy metals and calcium carbonate equivalence.

APPLICATION METHODS

BR = Waste broadcast on soil surface & left uncovered more than two days

SI = Waste broadcast on soil surface & plowed or disked into soil within two days

IN = Waste injected directly into the soil & covered immediately

IR = Waste applied through irrigation system & left uncovered more than two days

Thank you for using agronomic services to manage nutrients and safeguard environmental quality. — Steve Troxler, Commissioner of Agriculture

WASTE ANALYSIS FEES: Cost per sample = Base fee [\$5 for N.C. residents; \$25, out-of state samples; \$12, research samples] + \$10 for each optional special test requested. Special tests include the following: calcium carbonate equivalence (CCE), heavy metals, nitrogen break-out (NO₃ and NH₄). *If you want additional tests, you must check the appropriate box on the front of this form and include sufficient payment.*

FARM WASTE SAMPLE CODES §

<u>Lagoon Liquid — Aerobic</u>	<u>Manure — Liquid Slurry</u>	<u>Poultry — Stockpiled Litter</u>
AES Swine ATO Other *	LSB Beef LSD Dairy (storage pond) LSP Poultry LSS Swine LSV Veal LSO Other *	SLB Broiler SLT Turkey SLD Duck SLO Other *
<u>Lagoon Liquid — Anaerobic</u>		<u>Waste — Composted</u> #
ALB Beef ALS Swine ALP Poultry ALV Veal ALO Other *	<u>Manure — Surface Scraped or Stockpiled</u>	FCB Beef FCH Horse FCD Dairy FCP Poultry FCE Sheep FCS Swine FCG Goat FCC Crop residue FCV Vegetable residue FPM Poultry mortality FSM Swine mortality FCW Other *
<u>Lagoon Sludge — Aerobic</u>	SSB Beef SSH Horse SSD Dairy SSS Swine SSE Sheep SSO Other *	<u>Waste — Noncomposted</u> #
ASW Swine	<u>Poultry House Litter</u>	
<u>Lagoon Sludge — Anaerobic</u>	HBB Broiler breeder HLB Broiler HLD Duck HLT Turkey HLO Other *	NBS Bark / Sawdust NCR Crop Residue NVR Vegetable residue NCW Other *
ASB Beef ASP Poultry ASS Swine ASO Other *		

MUNICIPAL / INDUSTRIAL WASTE SAMPLE CODES §

<u>Industrial — Miscellaneous</u>	<u>Industrial — Stack Dust / Ash</u>
IOC Composted # IOR Raw IOE Aerobic IOX Chem ox (Cl) ION Anaerobic IOO Other * IOL Lime stabilized	SAR Raw SAC Composted # SAO Other *
<u>Industrial — Pharmaceutical</u>	<u>Industrial — Textile</u>
PHC Composted # PHR Raw PHA Aerobic PHX Chem ox (Cl) PHN Anaerobic PHO Other * PHL Lime stabilized	TXR Raw TAE Aerobic TAN Anaerobic TLS Lime stabilized TOX Chem ox (Cl) TCW Composted # TXO Other *
<u>Industrial — Poultry</u>	<u>Municipal</u>
PCW Composted # PLR Raw PAE Aerobic POX Chem ox (Cl) PAN Anaerobic PLO Other * PLS Lime stabilized	MAE Aerobic MAN Anaerobic MLS Lime stabilized MOX Chem ox (Cl) MCY Composted yard waste # MCS Composted sludge # MWO Other *

§ The NCDA&CS Agronomic Division laboratory is certified by the N.C. Department of Environment and Natural Resources to perform environmental analyses *for animal waste operations only*. NCDA&CS is not certified to analyze industrial or domestic (municipal) wastes for regulatory compliance.

* Indicate type of waste in the **SAMPLE DESCRIPTION / COMMENTS** section.

These codes include routine analyses of pH and EC. If the material is solid, carbon is also measured.

TIPS ON SAMPLING FARM MANURES

Caution: Submit samples that are representative of the waste material being evaluated. Analytical results from waste materials are only as good as the sample submitted. Keep the samples cool. If samples are stored for more than one day, they should be refrigerated. **Do not put this sample information form or payment inside sample containers.**

LIQUID LAGOON

Construct a 10- to 15-foot pole with a 1/2-pint container attached to one end. Use this tool to collect liquid from at least 8 to 12 representative locations in the lagoon. Always take the sample approximately 10 feet from the edge of the lagoon and one foot under surface. Do not include floating scum or debris. Mix thoroughly. Fill a one-pint, plastic container about three-fourths full, and tighten the cap securely.

POULTRY LITTER

Stockpiled (Dry Stack): Collect representative core samples at least 18 inches deep from several locations on the pile. Mix samples thoroughly in a plastic bucket. Place approximately one quart of material in a clean plastic bag and send in a suitable container to the laboratory.

In-House: Inspect house and estimate percentage of floor space used in different activities (feeding, watering, etc.). Take core sections of litter in these areas to represent the proportionate makeup of the house. Mix samples thoroughly in a plastic bucket. Place approximately one quart of material in a clean plastic bag and send in a suitable container to the laboratory.

LIQUID MANURE SLURRY

Pit under Slotted Floor: Use a length of 1/2-inch conduit or similar device to collect the sample. With both ends of the conduit open, extend it into the manure pit floor. Place thumb over the end of the conduit, and remove the core sample. Do this at 8 to 12 locations in the pit. After taking the samples, mix thoroughly and send approximately one pint of material in a clean plastic container to the laboratory.

Exterior Storage Basin: After the slurry has been well mixed, take samples from approximately five locations in the pit. Place material in a plastic bucket and mix thoroughly. Send approximately one pint of slurry to the laboratory in a clean plastic container.

SURFACE SCRAPED MANURES

After manure has been piled, collect a representative sample from several locations. Place in a plastic bucket and mix thoroughly. Place approximately one quart of material in a clean plastic bag and send in a suitable container to the laboratory.