



NOTE: TWO MONTHS PRIOR TO PLANTING TREES, EXCAVATE PITTS AND AMEND EXISTING SOIL WITH 'HI-YIELD' ALUMINUM SULPHATE OR EQUIVALENT AS DIRECTED BY THE MANUFACTURER, AS WELL AS ORGANIC AMENDMENTS TO THE FOLLOWING SPECIFICATIONS:

- A. SOIL FOR PLANT PIT BACKFILL MIX: SOIL EXCAVATED FROM PLANT PITTS.
- B. ORGANIC AMENDMENT: ORGANIC MATERIAL IS TO BE WELL COMPOSTED HUMUS WITH THE FOLLOWING PROPERTIES:
1. HUMUS MATERIAL SHALL HAVE AN ASH CONTENT OF NO LESS THAN 8 PERCENT AND NO MORE THAN 50 PERCENT.
 2. THE PH OF THE MATERIAL SHALL BE BETWEEN 6 AND 7.5.
 3. THE SALT CONTENT SHALL BE LESS THAN 10 MILLIMHO/CM AT 25 DEGREES C (ECE LESS THAN 10) ON A SATURATED PASTE EXTRACT. IF THE ECE EXCEEDS 10 MILLIMHO/CM, THE MAXIMUM RATE OF SUE SHALL NOT EXCEED 15 PERCENT BY VOLUME. IF THE CONCENTRATION OF CALCIUM SULFATE IN THE SATURATION EXTRACT IS GREATER THAN 25 MILLIEQUIVALENT PER LITER, THE MAXIMUM LEVEL OF SALINITY CAN BE INCREASED 3 MILLIMHO/CM AT 25 DEGREES C. UNITS (13 MILLIMHO/CM AT 25 DEGREES C).
 4. BORON CONTENT OF THE SATURATED EXTRACT SHALL BE LESS THAN 1.0 PART PER MILLION.
 5. SILICON CONTENT (ACID-INSOLUBLE ASH) SHALL BE LESS THAN 20 PERCENT.
 6. CALCIUM CARBONATE SHALL NOT BE PRESENT IF THE AMENDMENT IS TO BE APPLIED ON ALKALINE SOILS.
 7. TYPES OF ACCEPTABLE PRODUCTS ARE COMPOSTS, MANURES, MUSHROOM COMPOSTS, STRAW, ALFALFA, SLUDGE, PEAT MOSSES, ETC., LOW IN SALTS, LOW IN HEAVY METALS, FREE FROM WEED SEEDS, FREE OF PATHOGENS AND OTHER DELETERIOUS MATERIALS.
 8. COMPOSTED WOOD PRODUCTS ARE CONDITIONALLY ACCEPTABLE (STABLE HUMUS MUST BE PRESENT). WOOD-BASED PRODUCTS ARE NOT ACCEPTABLE WHICH ARE BASED ON REDWOOD OR CEDAR.
 9. SLUDGE-BASED MATERIALS ARE NOT ACCEPTABLE IF THE SOIL ALREADY HAS A HIGH LEVEL (TOXIC LEVEL) OF ZINC, COPPER, OR HEAVY METALS BASED ON SOIL ANALYSIS.
 10. CARBON: NITROGEN RATIO SHALL BE LESS THAN 25:1.
 11. THE COMPOST SHALL BE AEROBIC WITHOUT MALODOROUS PRESENCE OF DECOMPOSITION PRODUCTS.
 12. THE MAXIMUM PARTICLE SIZE SHALL BE 13 MM, 80 PERCENT OR MORE SHALL PASS A NO. 4 SCREEN.
 13. MAXIMUM TOTAL PERMISSIBLE POLLUTANT CONCENTRATIONS IN ORGANIC AMENDMENT IN PARTS PER MILLION ON A DRY-WEIGHT BASIS.

ARSENIC:	20
CADMIUM:	15
CHROMIUM:	100
COBALT:	50
COPPER:	150
LEAD:	100
MERCURY:	10
MOLYBDENUM:	60
NICKEL:	100
SELENIUM:	30
SILVER:	10
VANADIUM:	50
ZINC:	200

HIGHER AMOUNTS OF SALINITY OF BORON MAY BE PRESENT IF THE SOILS ARE TO BE PRE-LEACHED TO REDUCE THE EXCESS OR IF THE PLANT SPECIES WILL TOLERATE THE SALINITY AND/OR BORON.