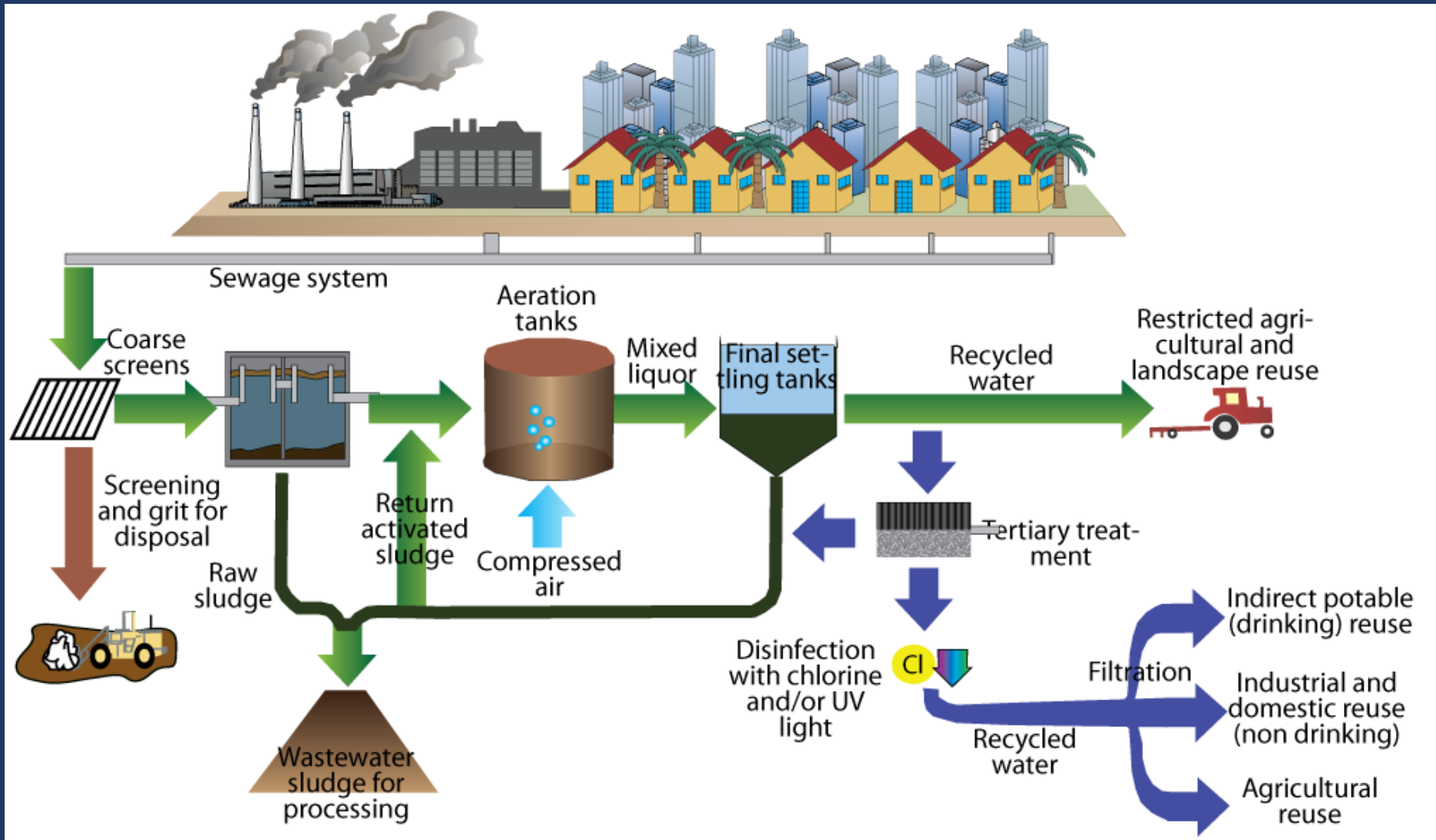


What are Biosoilds

- **Biosolids are nutrient-rich organic materials resulting from the treatment of domestic wastewater in a treatment facility.**
- **When treated and processed, these residuals can be recycled and applied as fertilizer to improve and maintain productive soils and stimulate plant growth instead of taking up space in a landfill or other disposal facility.**

Wastewater Treatment Process



CLASS B

CLASS AA

Stabilization Technologies

Digestion
• Aerobic
• Anaerobic

Alkaline Stabilization
• Lime
• Cement Kiln Dust
• Lime & Heat

Thermal Drying
• Rotary Direct Drying
• Indirect Steam Drying

Composting
• Aerated Static Pile
• Horizontal Agitated Bed Reactor
• Non-Agitated Bed Reactor

Products

• Fertilizer

• Soil Liming Agent (Class A)
• "Artificial" Soil (Class A)
• Fertilizer

• Fertilizer
• Soil Conditioner

• Soil Conditioner
• Lawn Dressing

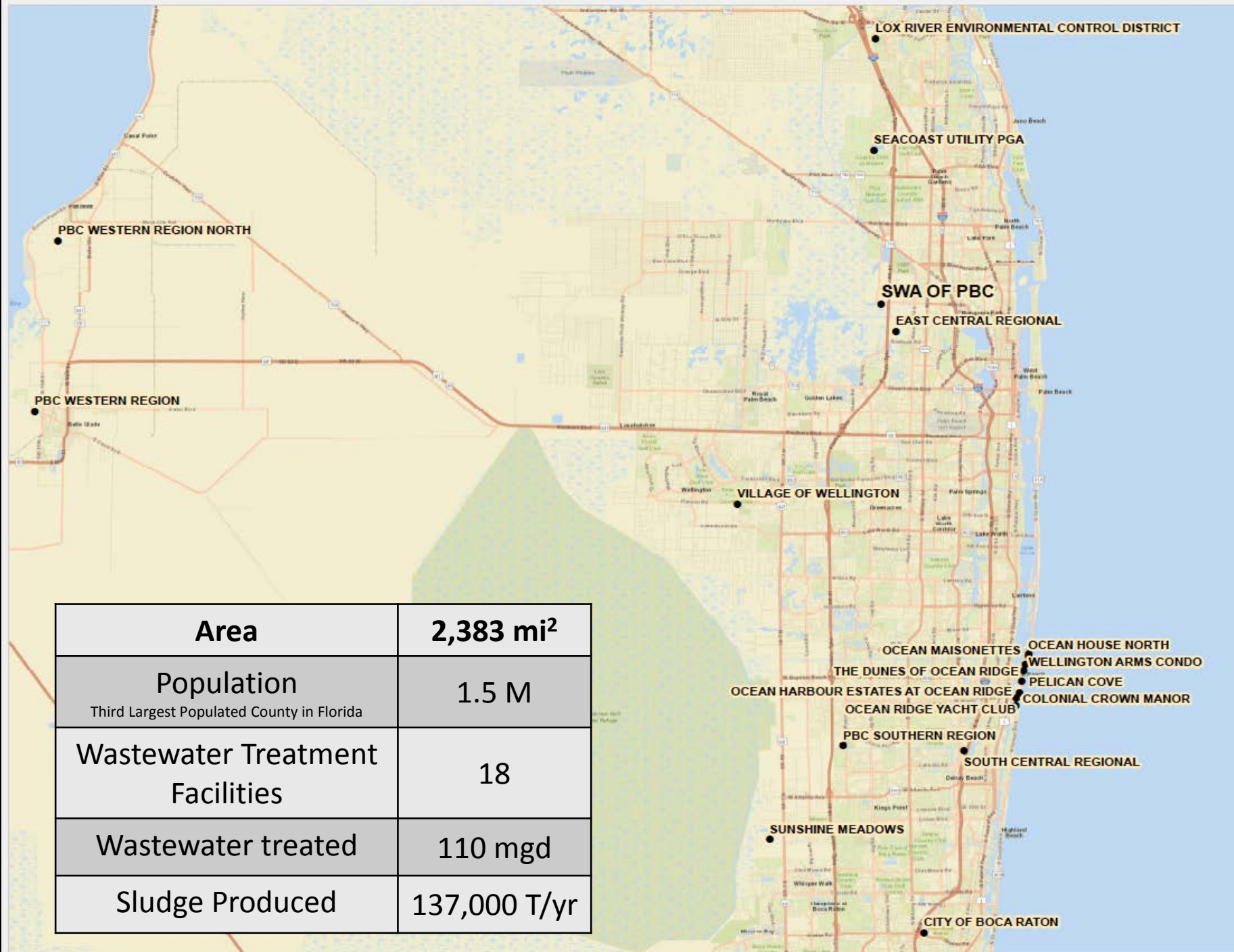
Markets

Agriculture
Landfills

Agriculture
Landfills

Golf Courses
Agriculture
Citrus Growers
Landscapers
Fertilizer Blenders
Garden Centers

Landscapers
Golf Courses
Nurseries
Park and Road
Departments
Homeowners
Sod Growers
Agriculture
Landfills



Area	2,383 mi²
Population Third Largest Populated County in Florida	1.5 M
Wastewater Treatment Facilities	18
Wastewater treated	110 mgd
Sludge Produced	137,000 T/yr

LOX RIVER ENVIRONMENTAL CONTROL DISTRICT

SEACOAST UTILITY PGA

PBC WESTERN REGION NORTH

SWA OF PBC

EAST CENTRAL REGIONAL

PBC WESTERN REGION

VILLAGE OF WELLINGTON

OCEAN MAISONNETTES

OCEAN HOUSE NORTH

THE DUNES OF OCEAN RIDGE

WELLINGTON ARMS CONDO

OCEAN HARBOUR ESTATES AT OCEAN RIDGE

PELICAN COVE

COLONIAL CROWN MANOR

OCEAN RIDGE YACHT CLUB

PBC SOUTHERN REGION

SOUTH CENTRAL REGIONAL

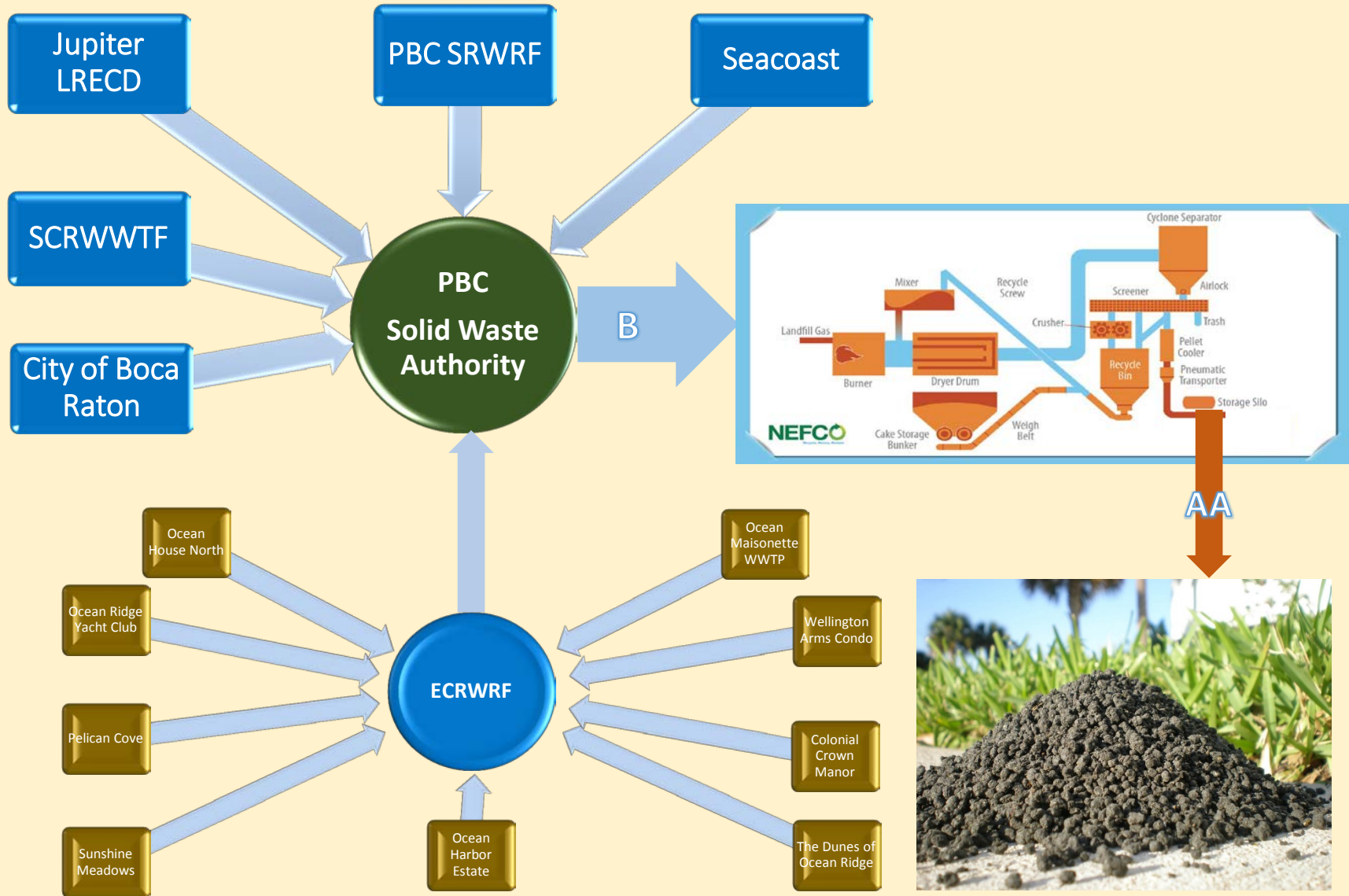
SUNSHINE MEADOWS

Sludge Produced

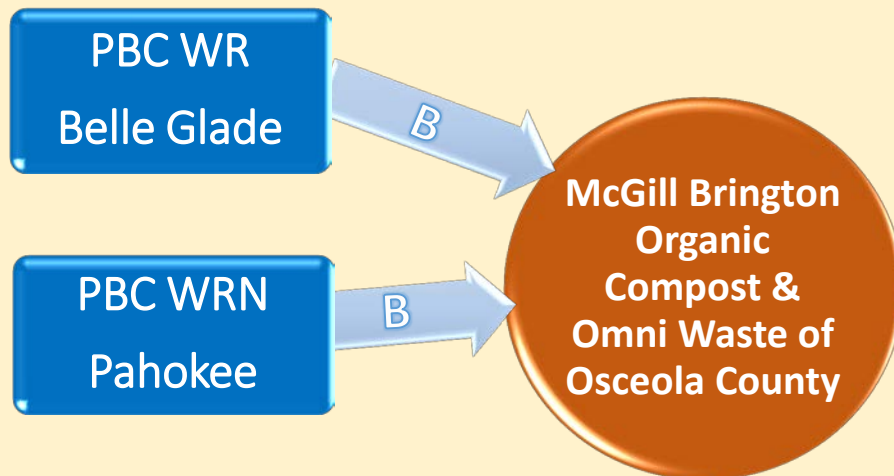
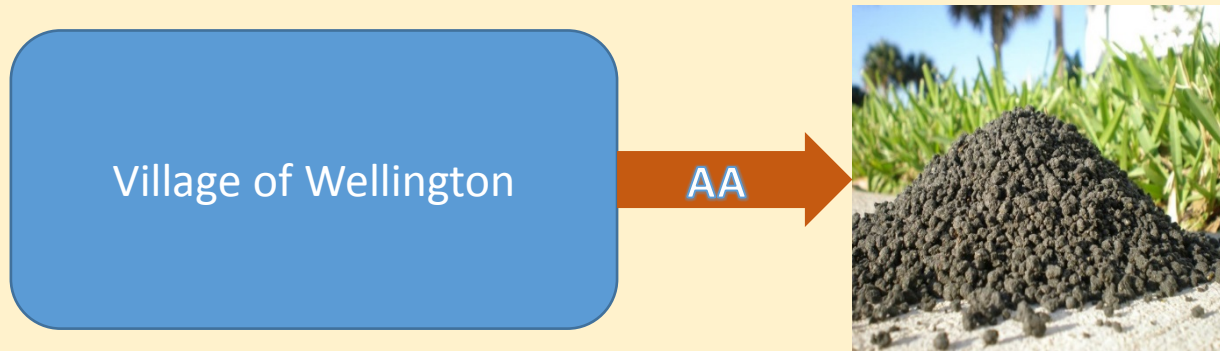
137,000 T/yr

CITY OF BOCA RATON

Biosolids Management



Biosolids Management



Biosolids Analytical Data

Parameter	Class AA (mg/kg)		NEFCO AA	SRWRF Class B
	Max (single sample)	Monthly Average		Monthly Average
Arsenic (As)	75	41	<1.0	6.8
Cadmium (Cd)	85	39	0.47	2.5
Copper (Cu)	4,300	1,500	301	375
Lead (Pb)	840	300	12.4	10
Mercury (Hg)	57	17	0.046	0.7
Molybdenum (Mo)	75	75	6.3	6.4
Nickel (Ni)	420	420	12.5	13
Selenium (Se)	100	100	1.5	15
Zinc (Zn)	7,500	2,800	673	709