

# AGZA: The American Green Zone Alliance

**WHO** A leader in low – impact sustainable grounds maintenance strategies.

**MISSION** Prudently transition the grounds maintenance industry to quieter sustainable practices.

**APPLICATIONS** Commercial crews who service municipalities, schools, and residential properties.

# AGZA Programs



## 1. AGZA Green Zone® Certification

- Property transition



## 2. AGZA Service Professional Certification

- Crew transition: education, training, certification, marketing advantage

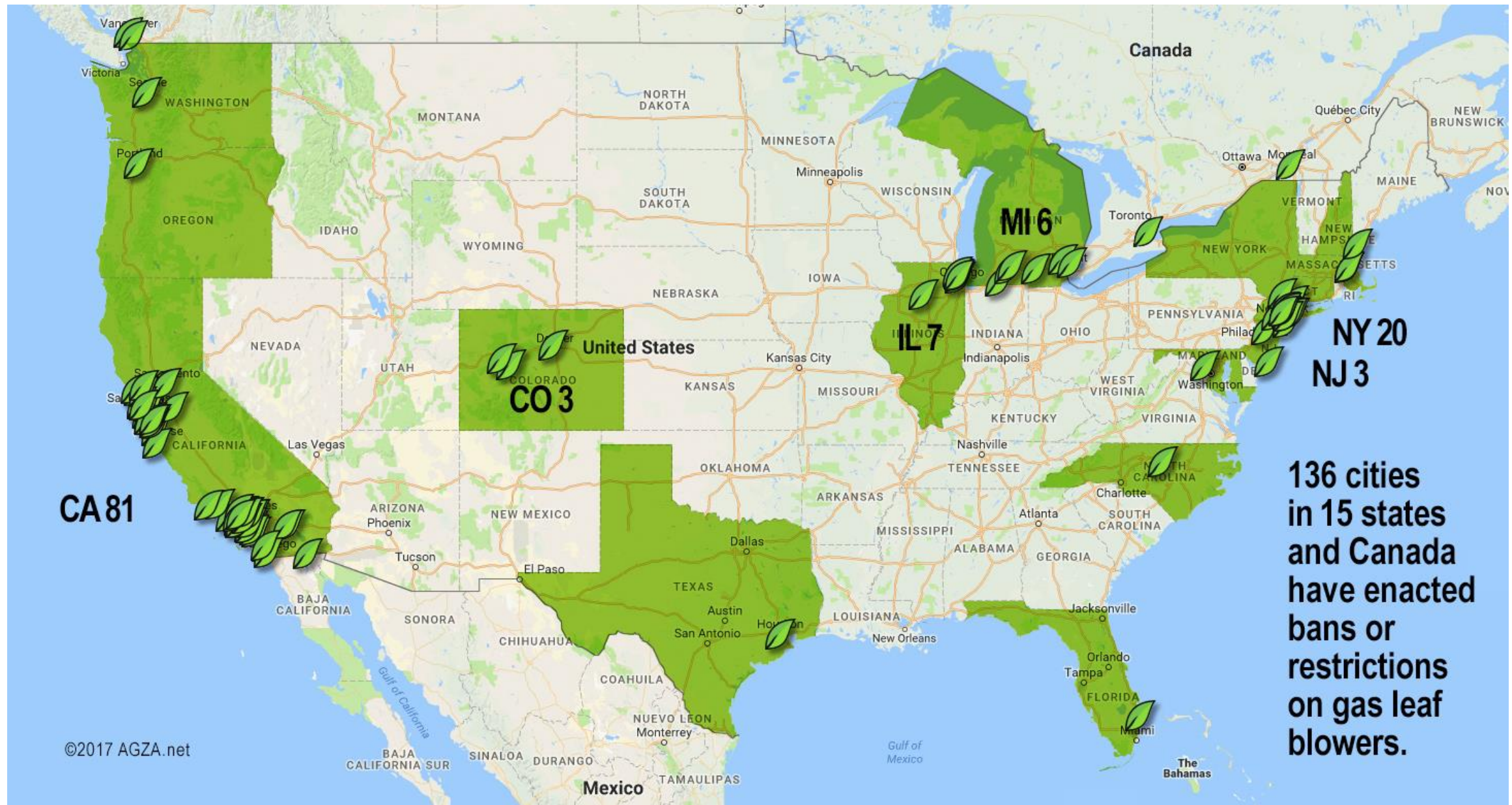


## 3. Other AGZA Initiatives

- AFTC Certification, exchanges, workshops, symposiums

# REGULATIONS, BANS, RESTRICTIONS, ENFORCEMENT

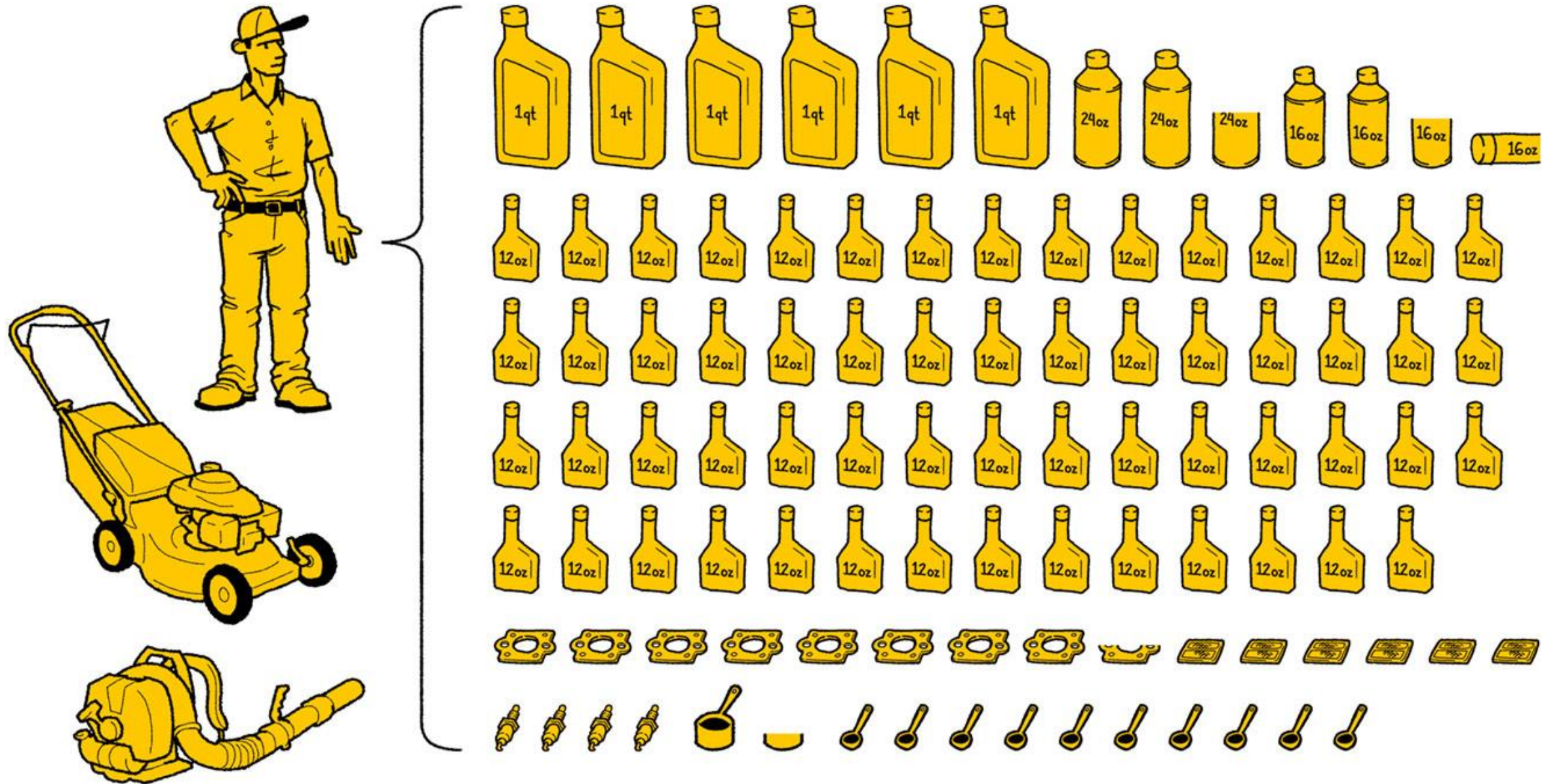
## Over 200 and Counting





# Solid and Toxic Waste Streams from a single gas crew worker

In addition to all the gas and oil burned and smog-forming emissions and greenhouse gasses created, each gas crew worker also dumps 50 bottles, cans, tubes, and parts into landfills every year. These leech residual toxic chemicals into the soil and water. Electric tools need almost no maintenance or parts, and therefore create almost no waste stream.





# Investigative Journalism: “Noisy, But That’s Not All”



Machine	Ave. Particles Per Cubic Centimeter	Times Higher Than Busy Intersection
Redmax EBZ8050 leaf blower	315,565	53.5
Redmax 2601 leaf blower	280,442	47.6
Stihl BR 450 C leaf blower	251,181	42.6
Stihl BR 700 leaf blower	159,178	27
Stihl BG 86 leaf blower	125,956	21.4
Stihl BR 430 leaf blower	118,360	20.1
Kawasaki FJ180V 26" lawn mower	90,670	15.4
Stihl FC 70 hedge trimmer	57,126	9.69
Kawasaki FJ180V 19" lawn mower	5,542	0.94
Busy nearby intersection	5,897	NA



Data source: Health Science Associates report commissioned by Fair Warning.

PHOTO: Quentin Lueningheoner

# Addressing Worker Health and Environmental Justice

## HEALTH RISKS



## NOISE



## VIRBRATION



## EMISSIONS



## GAS & OIL



## TOXIC WASTE





# South Pasadena: The Nation's First AGZA Green Zone City

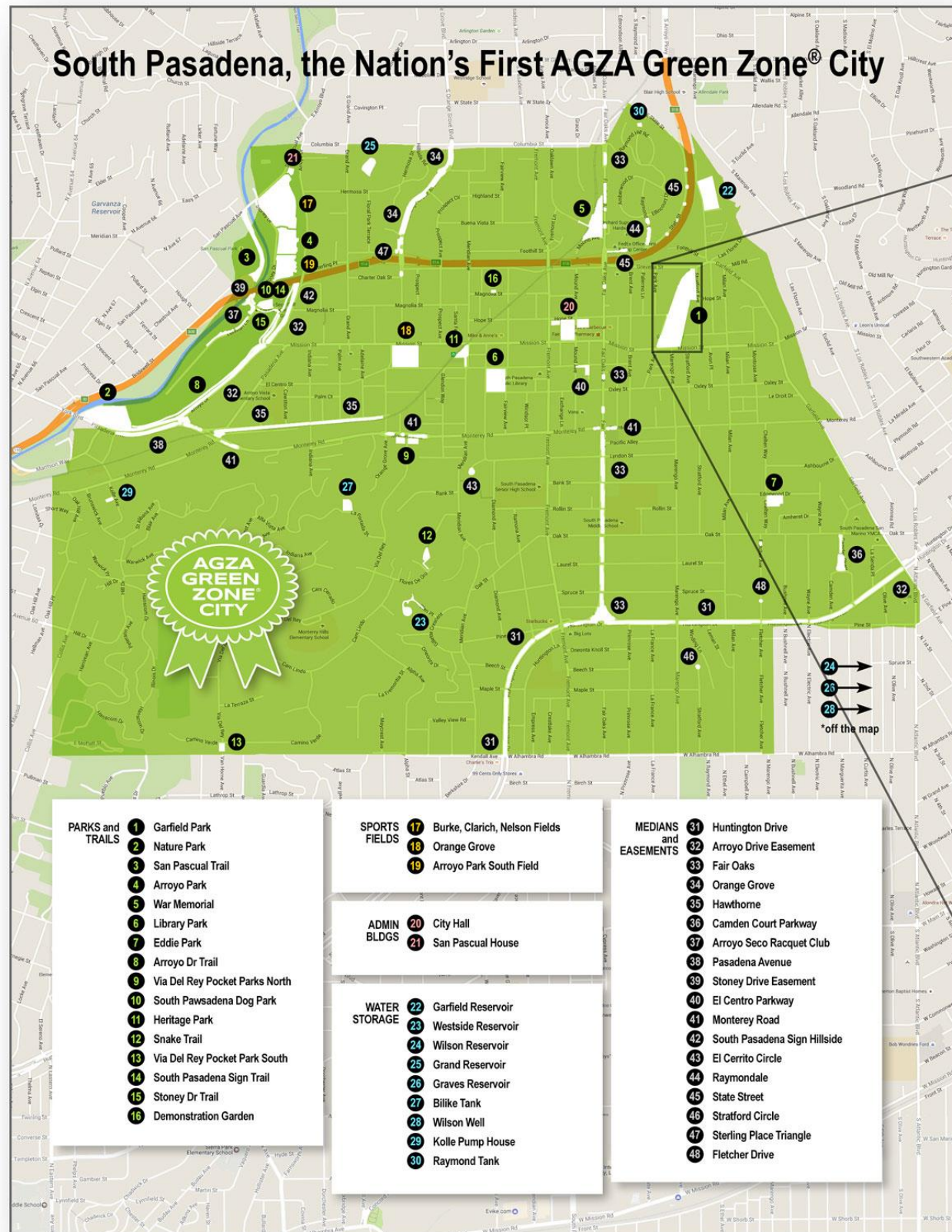


The City of South Pasadena is the first  
**AGZA GREEN ZONE® CITY**  
in the nation! Learn more at [AGZA.net](http://AGZA.net)





# Mapping and Metrics





# Garfield Park: The Nation's First AGZA Green Zone Municipal Park





# RFP South Pasadena



CITY OF SOUTH PASADENA  
- PUBLIC WORKS DEPARTMENT -

REQUEST FOR PROPOSALS

CITYWIDE LANDSCAPE MAINTENANCE  
SERVICES

All of Contractor's personnel assigned to work on any City Parks, medians, grounds and facilities shall undergo American Green Zone Alliance (AGZA) or equivalent accreditation and training which will be provided by the City. This training shall cover the safety and efficient operation of electric equipment, proper storage and charging procedures of electric equipment, competency training for trouble shooting and basic maintenance and repair of electric equipment.

All landscape maintenance equipment shall be battery-powered cordless electric type, 100% emission free equipment. Contractor shall have sufficient batteries and equipment to complete the daily required work load to complete the scope of services. No outdated, polluting power equipment shall be used. Contractor may not use a stand-alone generator to charge batteries in the City Parks or City Facilities.

Prepared by: Department of Public Works  
July 28, 2017  
Revised August 31, 2017



# Arroyo Seco: The Nation's First AGZA Green Zone Golf Course















- The Langton Group technicians using only battery handheld equipment for their Green Zone properties.
- AOS & Langton Group are one of only a few companies that can AGZA Green Zone Certify properties through their services



# Communicating Progress: Environmental Landscape Footprint (ELF™)

- Baseline assessment
  - Single properties
  - Multiple properties
  - All properties
- Impacts
  - Air toxics
  - Greenhouse gases
  - Noise
  - Fuel spillage
  - Toxic waste
  - Fuel consumption/costs

Town Hall Complex: Impact Reductions*		
Category	Annual Reductions	Cumulative Reductions 9/1/2017 - 12/31/2019
Toxic and carcinogenic exhaust emissions (non-methane hydrocarbons, nitrogen oxides, carbon monoxide, fine particulate matter)	1,647 lbs	3,838 (1.9 tons)
Greenhouse gas (carbon dioxide)	5,458 lbs (2.7 tons)	12,718 (6.4 tons)
Noise**	2,913 decibel-hours	6,788 decibel-hours
Fuel spillage	8.6 gallons	20 gallons
Fuel consumption and cost	168 gallons; \$420	391 gallons; \$979
Toxic and solid waste	100% elimination of waste from replacement/disposal of gas parts and gas maintenance	

\*Routine Maintenance only; Cumulative reductions through December 2019 were calculated using a factor of 2.33. \*\* Assumes an average of 85 db from battery electric vs 95 dB from gas equipment.







# Perception: Look at the Equipment Don't Demonizing the Worker















**AGZA**® and **CADRE** LANDSCAPE  
SERVICE PROVIDER ACCREDITATION



**AGZA RESIDENTIAL GREEN ZONE®  
INITIATIVE (ARGZI)  
BEAUTIFYING AND MAINTAINING OUR  
PROPERTIES**







AGZA  
Green Zone  
Gas-Free Yard  
QUIET HEALTHY CLEAN  
WE KICKED GAS™

21"











