

Tacoma Smelter Plume Yard Program Update

July 18th, 2017

**Tacoma City Council Study Session
Washington Department of Ecology**

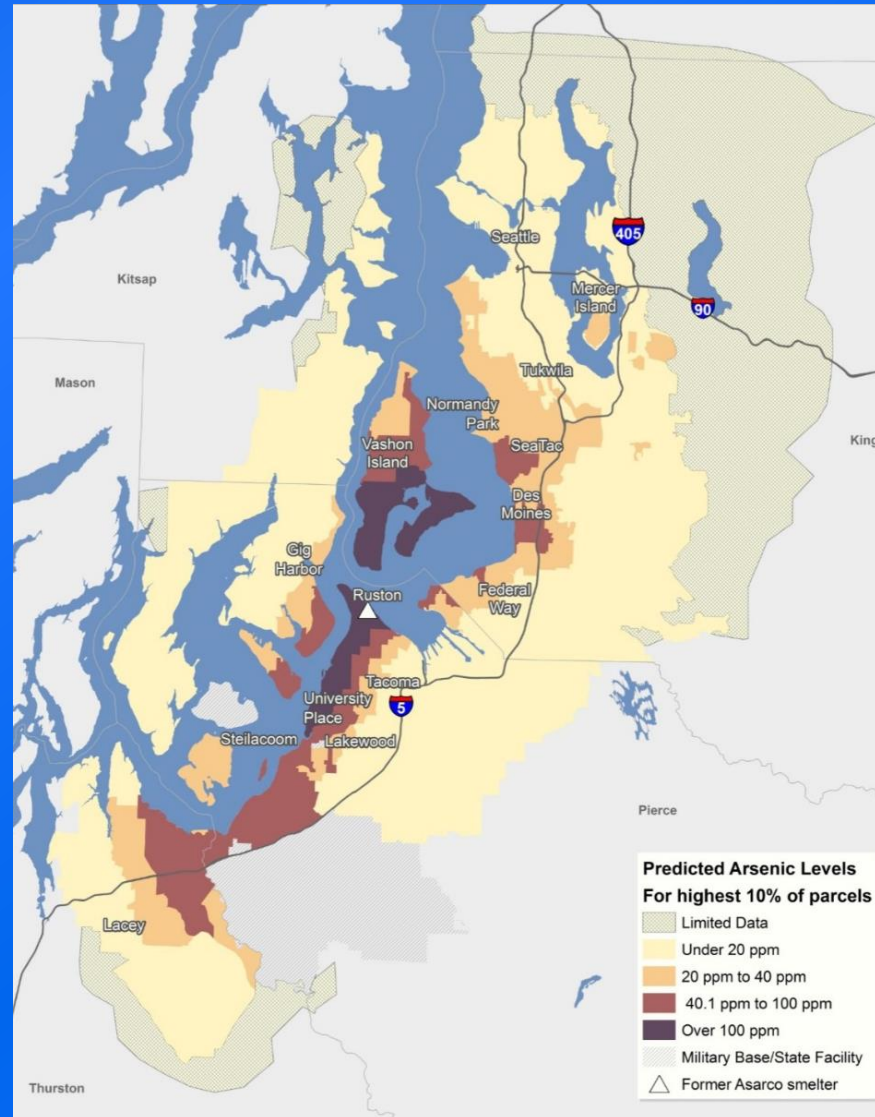


Topics

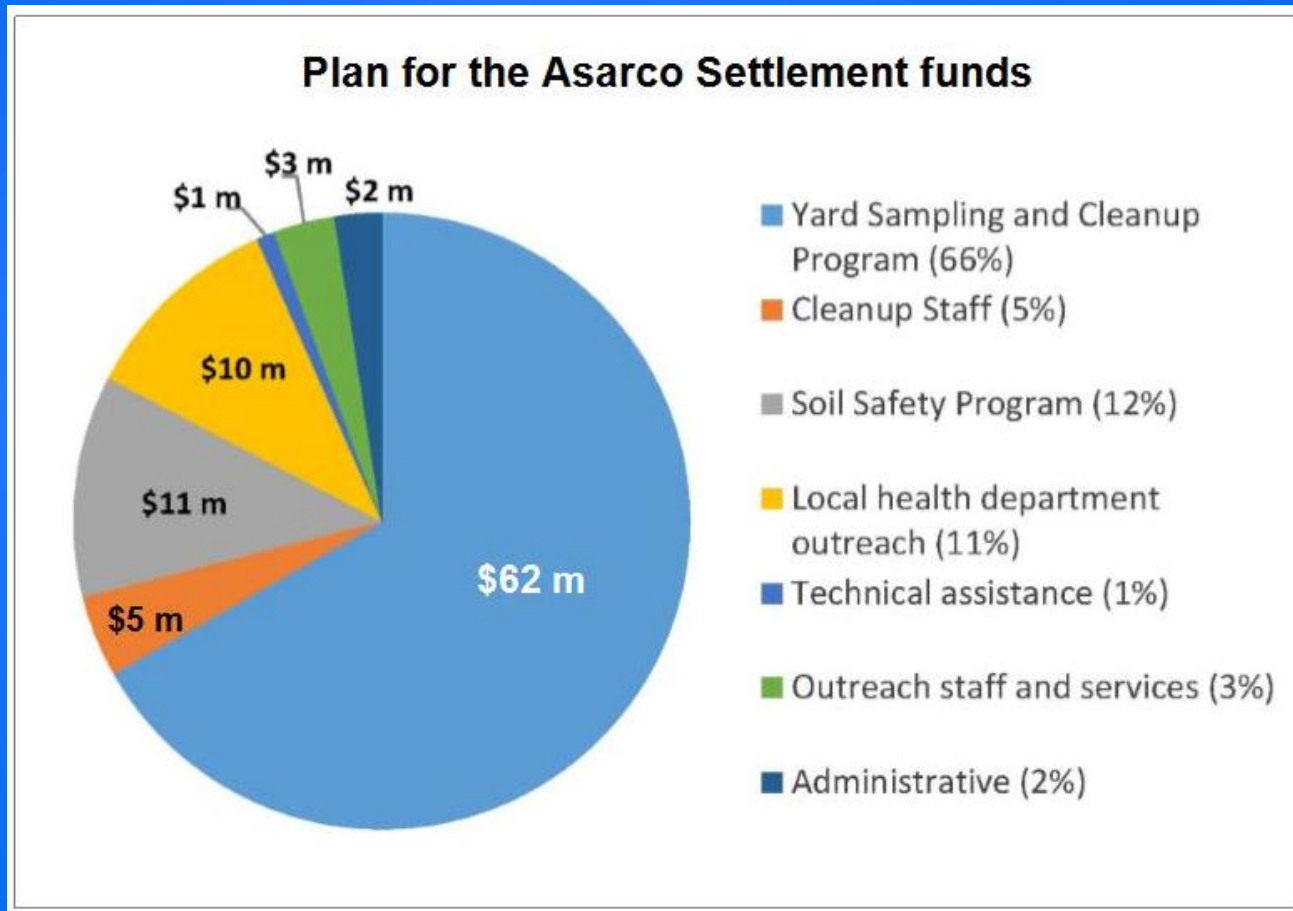
- Project Overview
- Yard Program
- Soil Safety Program
- Technical Assistance



Tacoma Smelter Plume project



Tacoma Smelter Plume project



Breakdown of the \$94.6 million Asarco settlement for the future cost of cleaning up the Tacoma Smelter Plume.

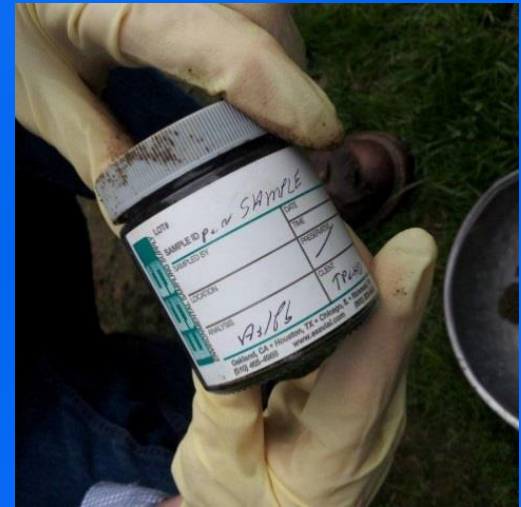
Yard Sampling and Cleanup Program



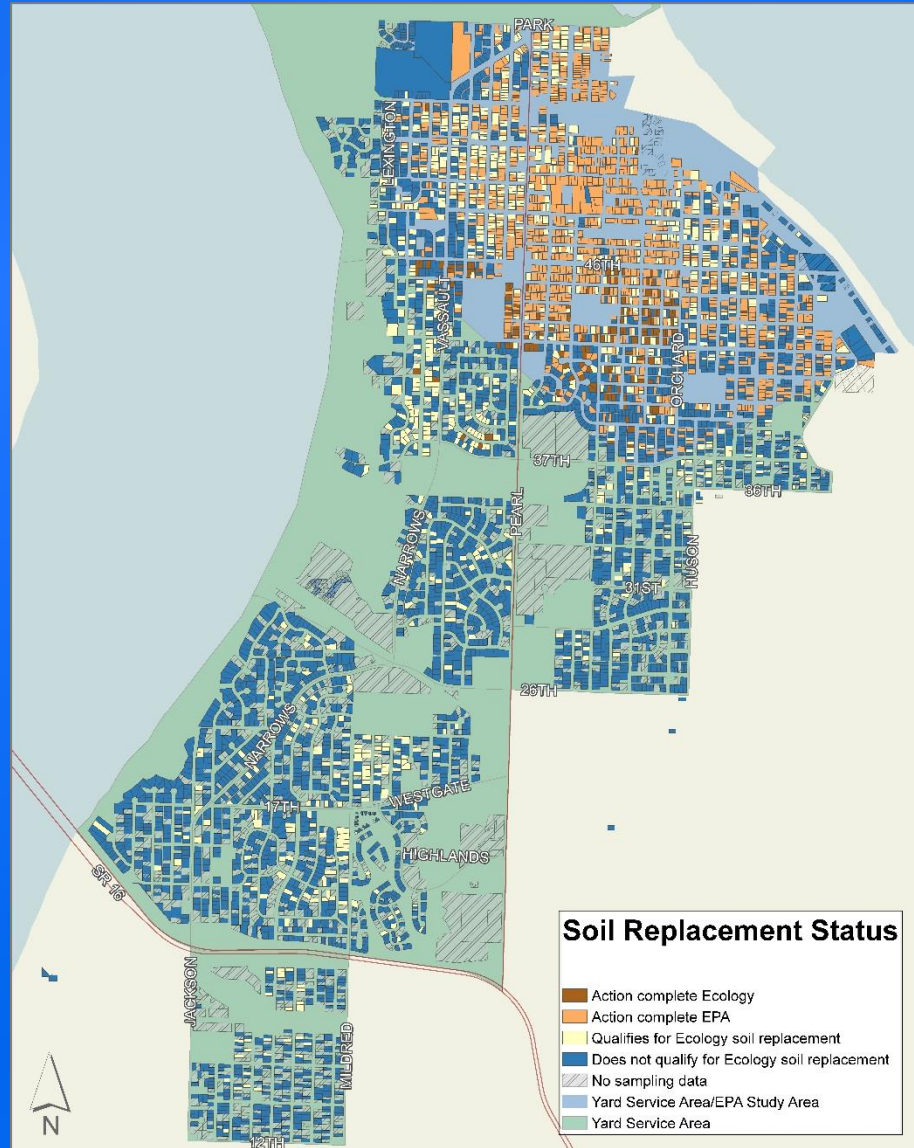
Yard Program Costs

Program Area	Parcels Sampled	Sampling Cost	Parcels to Clean Up	Cleanup Cost
EPA Study Area	133	\$ 199,500	710	\$35,500,000
Tacoma (outside of Study Area)	2,936	\$4,404,000	415	\$20,750,000
Southern Vashon-Maury Island	753	\$1,129,500	51	\$4,590,000
Total	3,822	\$5,733,000	1,176	\$60,840,000

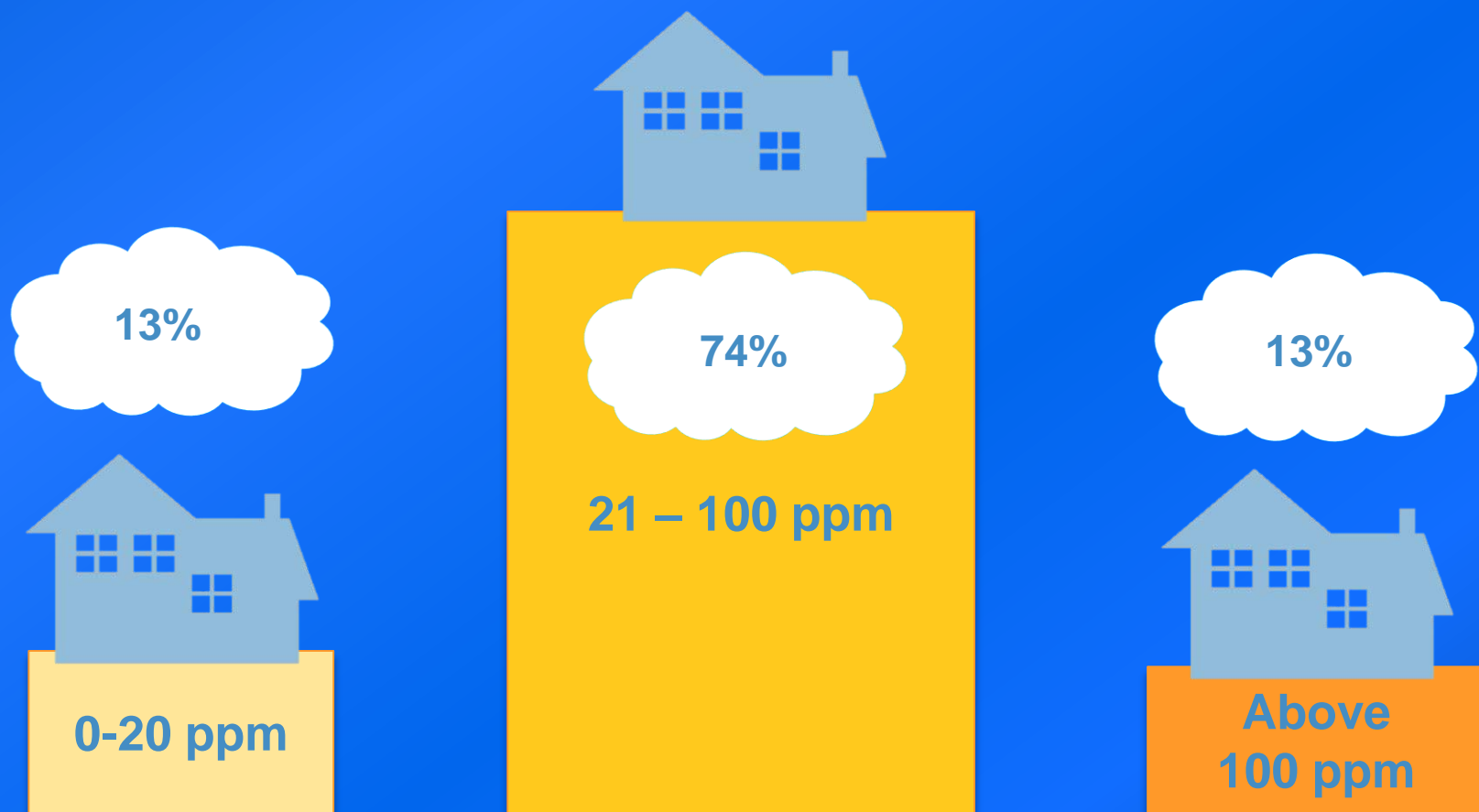
Soil Sampling in Tacoma



Sampling and Soil Replacement Status



Arsenic Sampling Results Breakdown

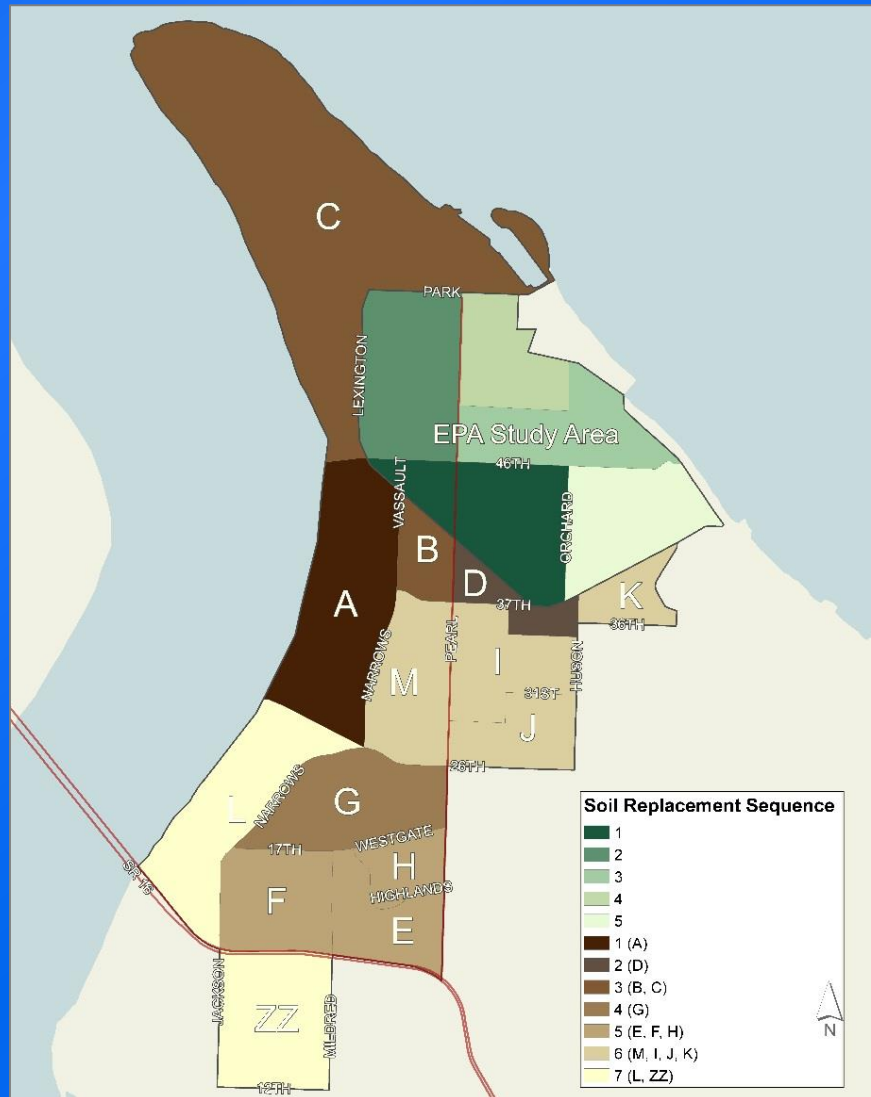


**34 Properties w/ Lead over Action Level of 500 ppm
Results from June 2017*

Outreach for 20-100 ppm Arsenic



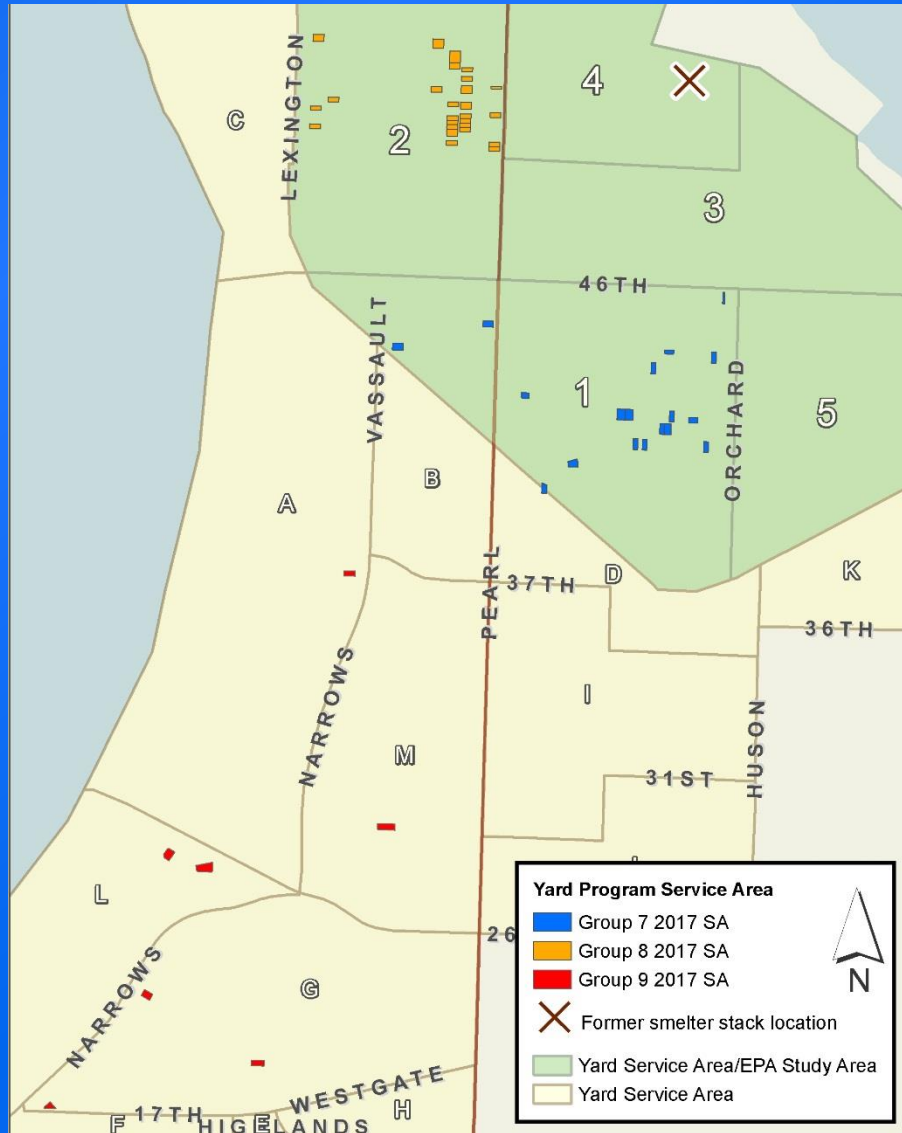
Yard Program Sequence



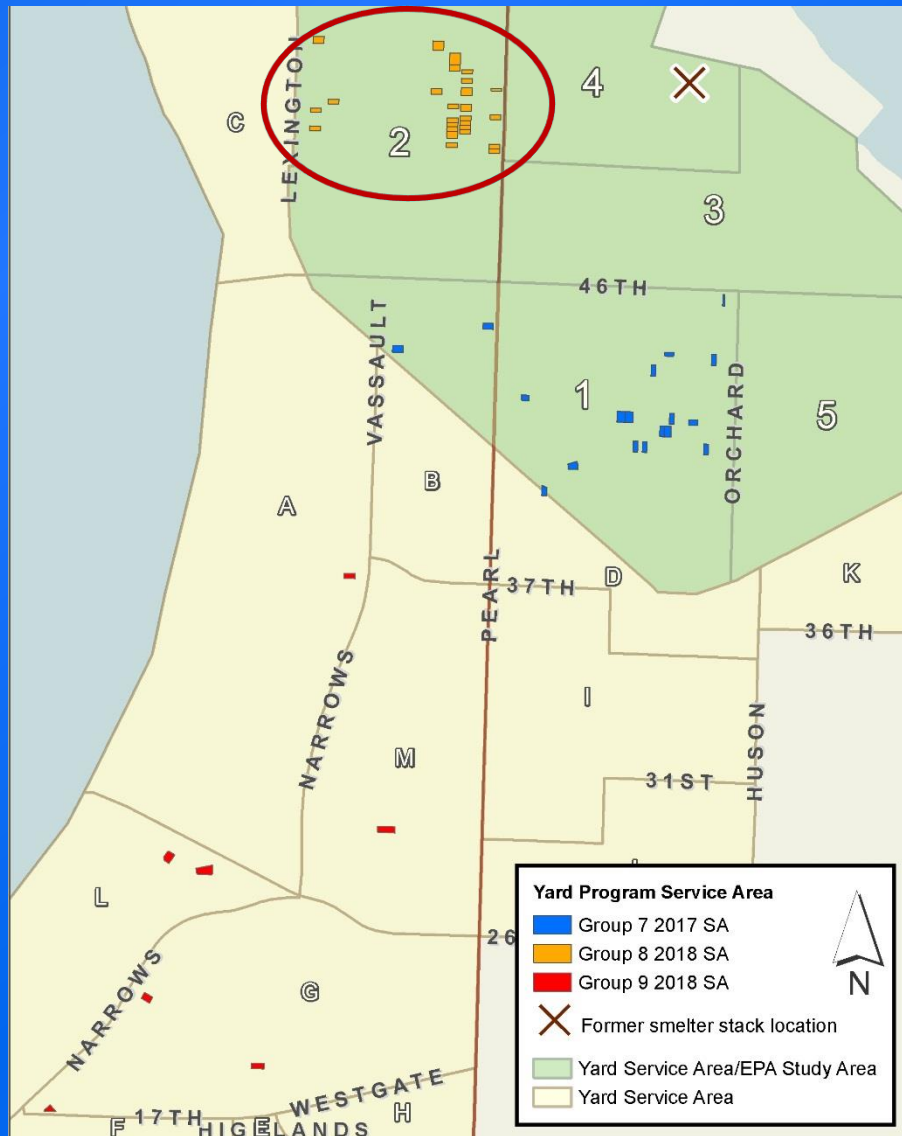
Yard Program Sequence

	Study Area	Tacoma	Vashon Maury
Above Criteria	710	415	51
Declined Soil Replacement	42	9	8
Unresponsive/Out of Program	43	4	6
Remaining as of 7/1/2017	625	402	37
Completed 2013	8	0	0
Completed 2014	48	0	6
Completed 2015	65	6	15
Completed 2016	69	11	0
Planned 2017	44	8	16
Estimated 2018	50	50	
Estimated 2019	50	50	
Estimated 2020	50	50	
Estimated 2021	50	50	
Estimated 2022	50	50	
Estimated 2023	50	50	
Estimated 2024	50	50	
Estimated 2025	41	27	
Total	625	402	37

Soil Replacement– Tacoma 2017



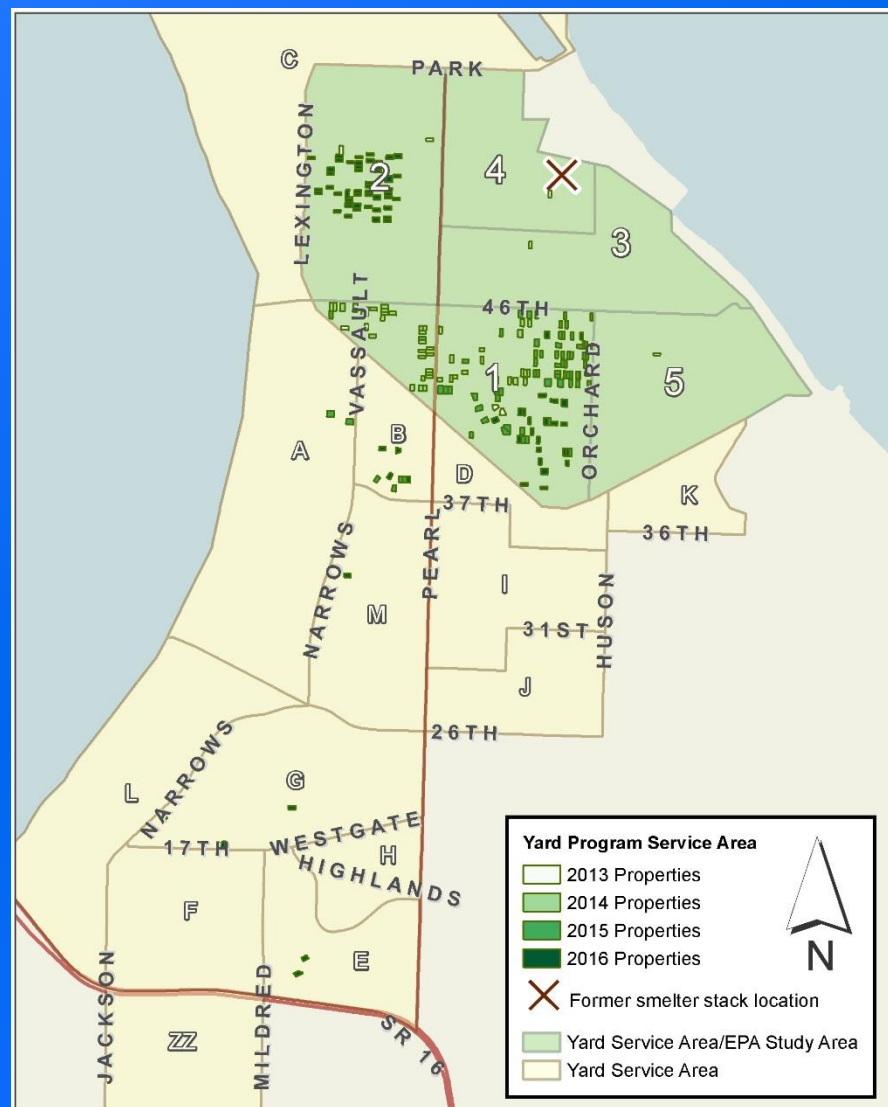
Soil Replacement– Tacoma 2017



Soil Replacement– Tacoma

Completed:
2013-2016

Total-207 yards



Map as of 7/07/2017

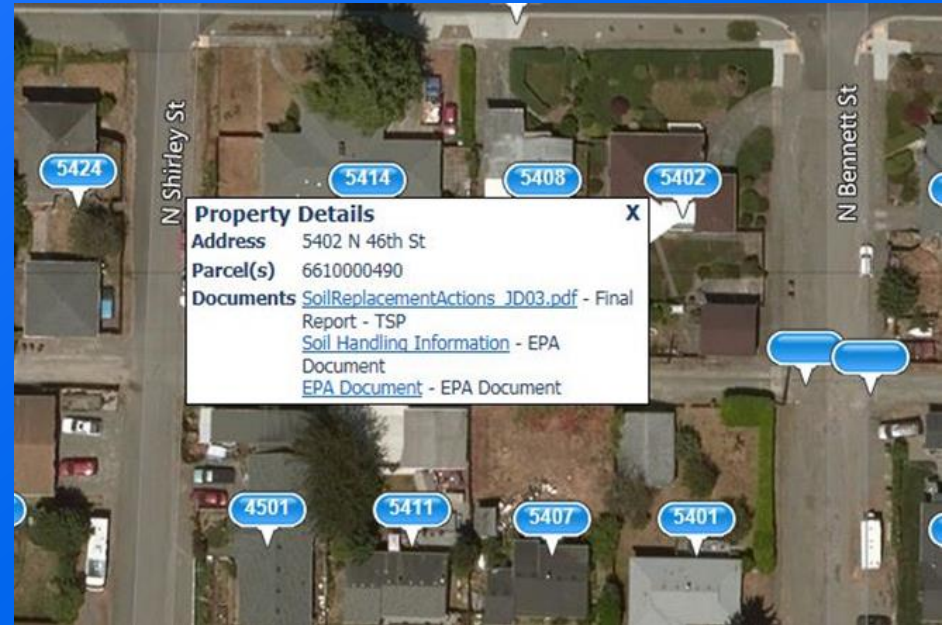
Soil Replacement



Arsenic in Soil Database

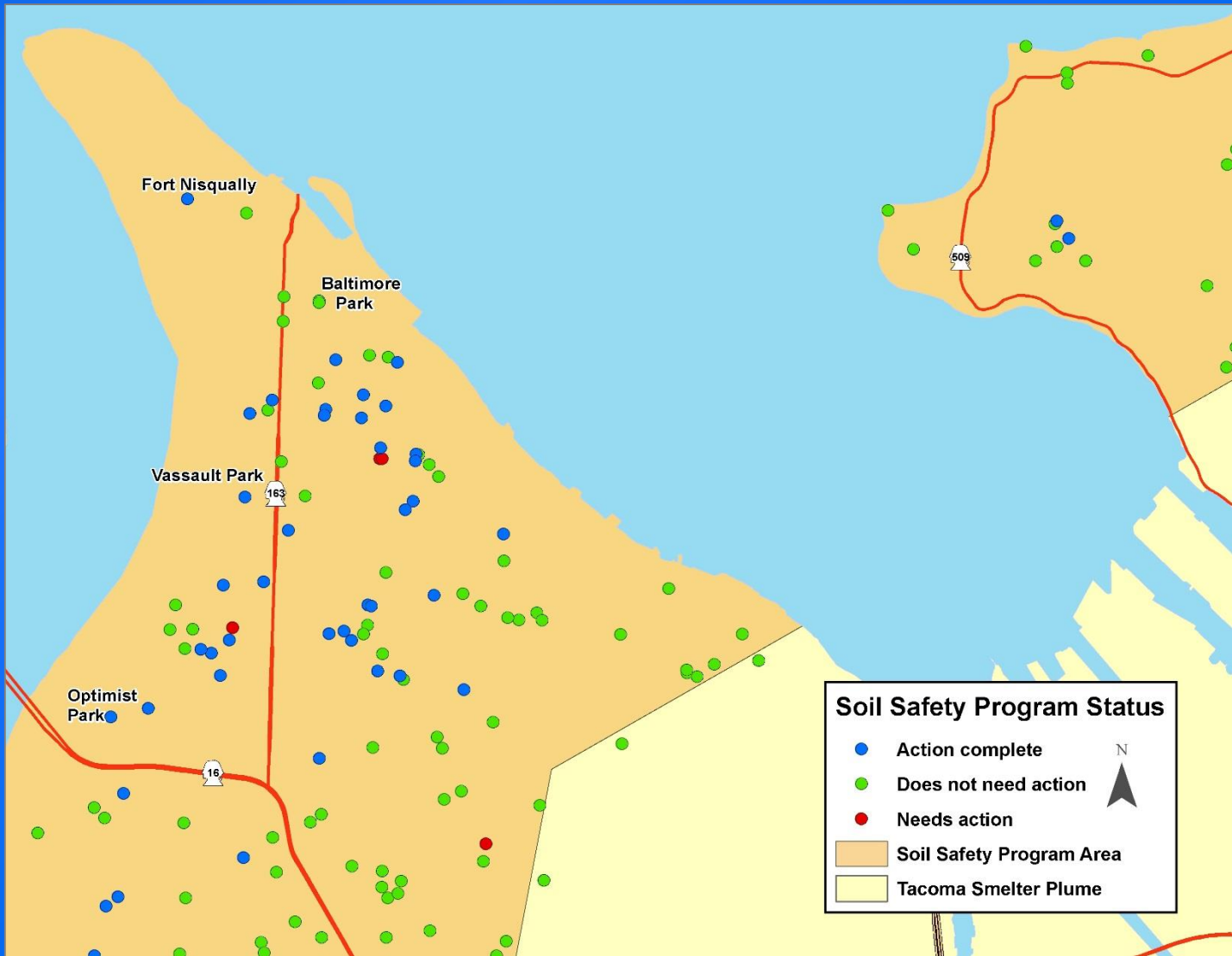
Information:

- Results map & letter
- Soil replacement documentation
- Out of program letters

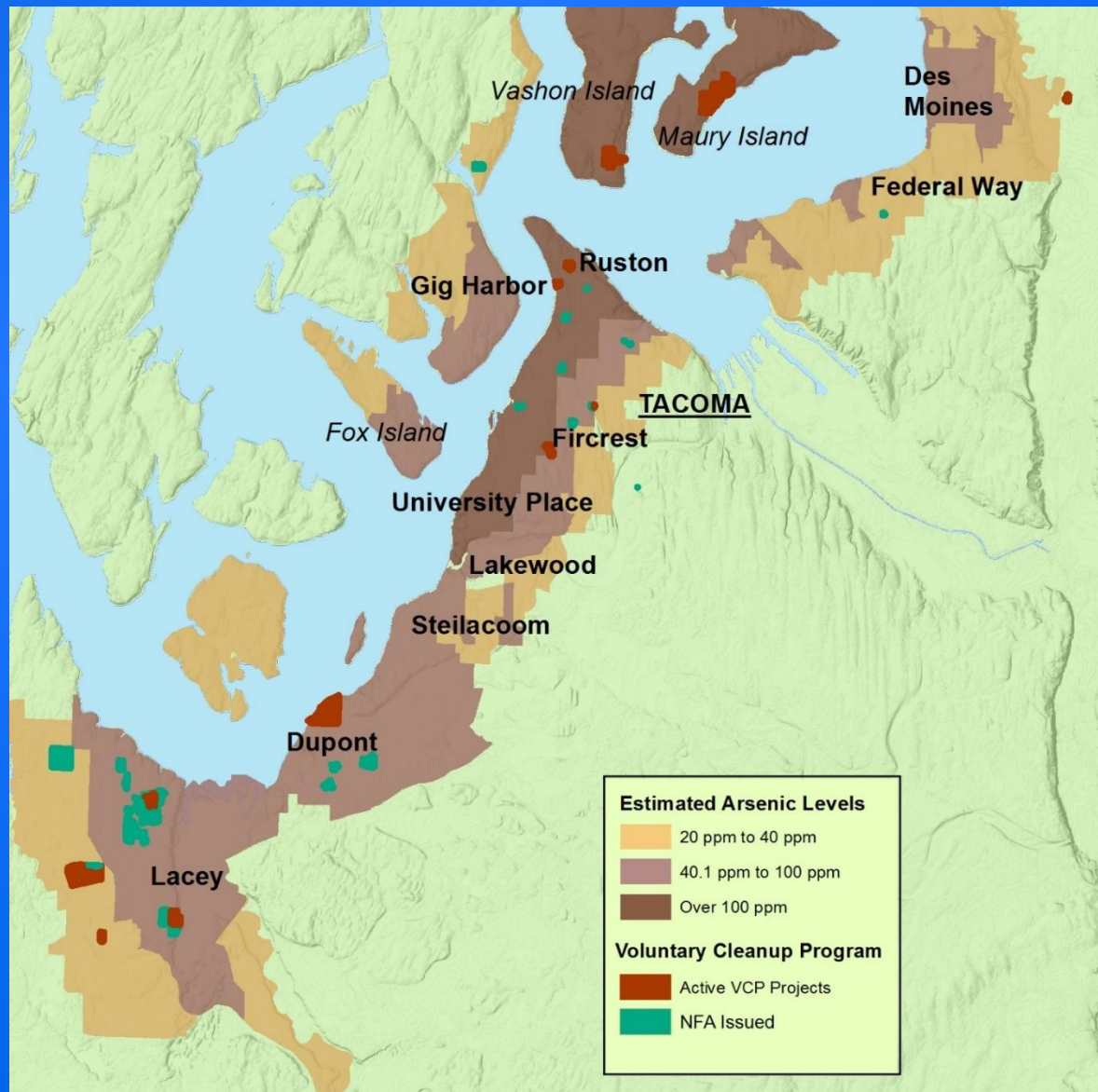


www.dirtalert.info/myresults

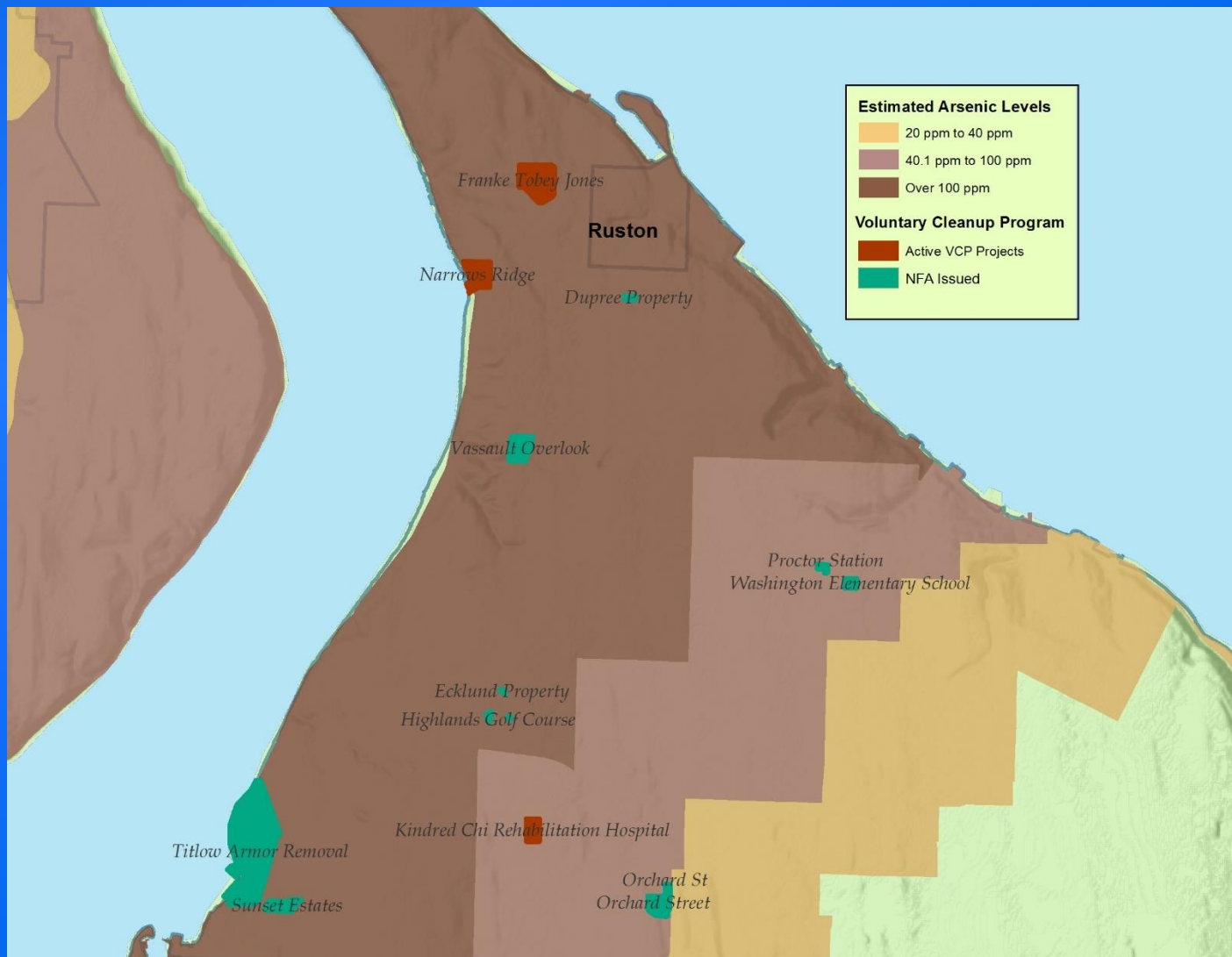
Soil Safety Program Update



Technical Assistance



Technical Assistance



Soil Sampling and Health Questions

Contact

Glenn Rollins

Email: Grollins@tpchd.org

Phone: (253) 798-3503

Website: www.tpchd.org/DirtAlert



Yard Program or Soil Safety Program Questions

Contact

Amy Hargrove, Remediation Manager

Email: Amy.Hargrove@ecy.wa.gov

Phone: (360) 407-6262

Website: ecy.wa.gov/toxics/tacoma-smelter.html

