



LOCAL SOURCE CONTROL PARTNERSHIP

2013-15 BIENNIUM REPORT

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CONTENTS

WHAT IS LOCAL SOURCE CONTROL?	3
MEET THE PARTNERSHIP	5
PARTNER JURISDICTIONS.	6
Figure 1: Map of LSC partners	6
WHAT ISSUES DO SPECIALISTS DEAL WITH?	8
WHAT INDUSTRIES DO SPECIALISTS SERVE?	9
SPILL KITS AND SECONDARY CONTAINMENT	10
BUDGET AND FUNDING	10
TRAINING FOR LSC SPECIALISTS.	11
SITE VISIT DATA.	13
Figure 2: Visits and issues from 2008–2015	13
ISSUES AND RESOLUTION	14
Figure 3: Most common issues found during visits	14
Figure 4: High priority issues found during visits	15
Figure 5: Issues and resolution in the top 5 sectors	16
Figure 6: Issues and resolution in other sectors	17
PARTNER SUCCESS STORIES.	19
Figure 7: Stormwater fecal coliform counts	20
CONCLUSION	23
APPENDIX A: PARTNER HIGHLIGHTS	25

WHAT IS LOCAL SOURCE CONTROL?

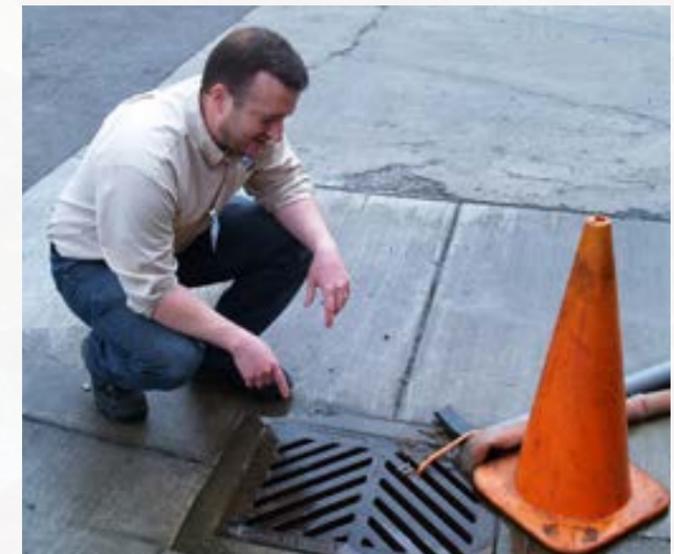
The Local Source Control (LSC) Partnership is comprised of local governments, including cities, counties, and health districts.

Small businesses typically have limited access to expertise on stormwater management and hazardous waste handling and disposal. LSC specialists in participating jurisdictions offer free, on-site technical assistance to help small businesses identify and resolve possible causes of pollution.

This hands-on assistance and regulatory advice reduces health risks for employees and prevents polluted runoff from harming Washington's streams, rivers, and Puget Sound.

As a result of LSC assistance, businesses:

- Adopt safer materials handling and storage practices.
- Manage interior and exterior drainage systems to reduce impacts to stormwater.
- Create a plan for spill prevention and preparedness.
- Use fewer toxics in their processes or replace toxic chemicals with safer alternatives.



“LSC stands for ‘Local Source Control.’ However, the ‘C’ could also stand for ‘Collaboration.’

... Our approach has always been to identify common goals and work together to meet them.”

—Rick Gilbert
Kitsap County Public Works

SINCE THE PROGRAM BEGAN IN 2008:



19,235
Completed visits

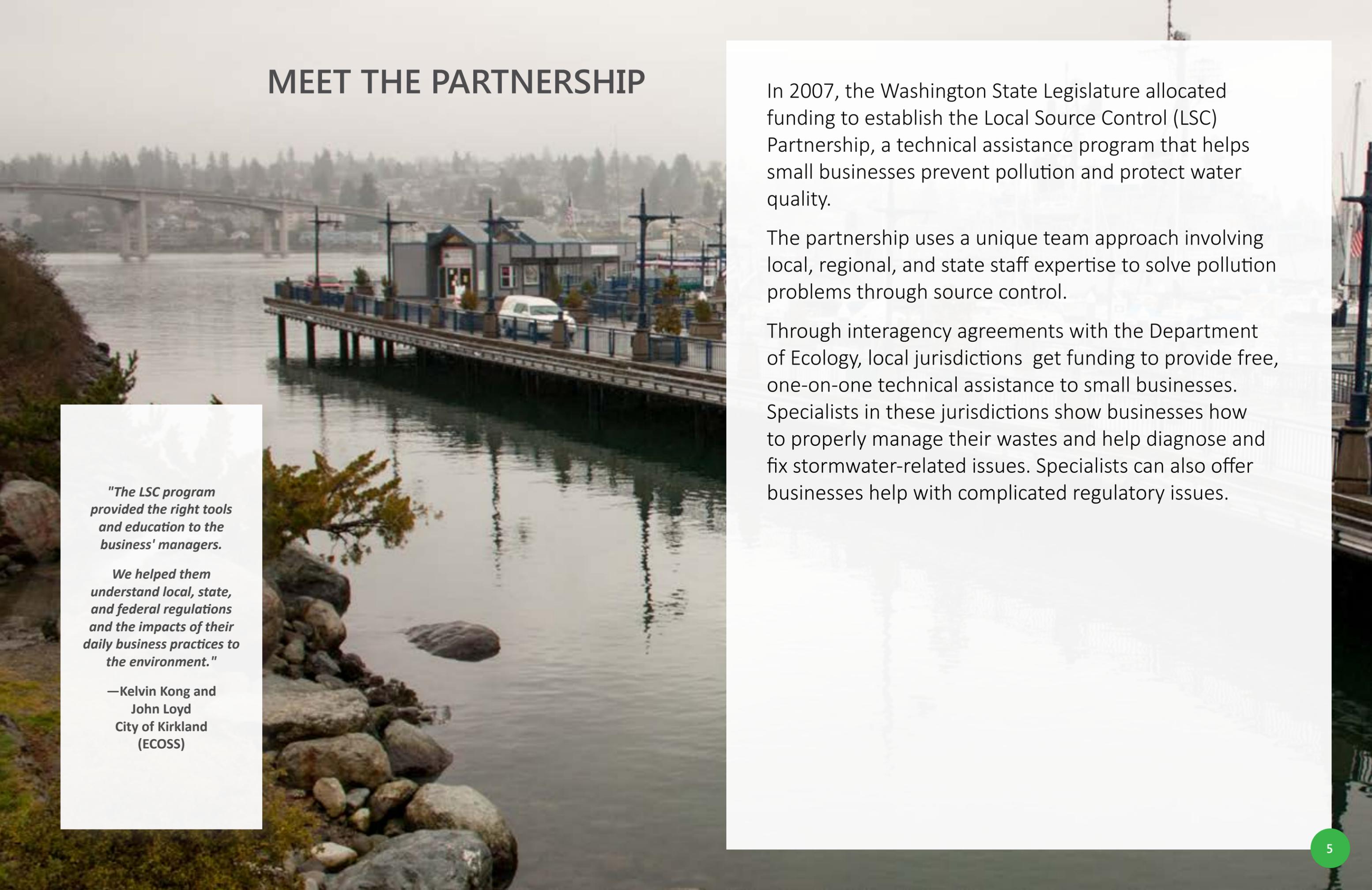


27,763
Issues found



90%
Issues resolved

MEET THE PARTNERSHIP



"The LSC program provided the right tools and education to the business' managers.

We helped them understand local, state, and federal regulations and the impacts of their daily business practices to the environment."

—Kelvin Kong and
John Loyd
City of Kirkland
(ECOSS)

In 2007, the Washington State Legislature allocated funding to establish the Local Source Control (LSC) Partnership, a technical assistance program that helps small businesses prevent pollution and protect water quality.

The partnership uses a unique team approach involving local, regional, and state staff expertise to solve pollution problems through source control.

Through interagency agreements with the Department of Ecology, local jurisdictions get funding to provide free, one-on-one technical assistance to small businesses. Specialists in these jurisdictions show businesses how to properly manage their wastes and help diagnose and fix stormwater-related issues. Specialists can also offer businesses help with complicated regulatory issues.

PARTNER JURISDICTIONS

During the 2013-15 biennium, the partnership consisted of 35 specialists in 21 jurisdictions. LSC partners were located in two critical areas: Puget Sound and the Spokane River Basin.

FIGURE 1: MAP OF LSC PARTNERS



2013-15 partner jurisdictions:

Clallam

City of Port Angeles

Jefferson

Jefferson County Public Health

King

City of Bothell
 City of Issaquah
 City of Kirkland
 City of Redmond
 City of Shoreline
 King County Water and Land
 Seattle Public Utilities

Kitsap

Kitsap County Public Works (includes Mason County)
 Kitsap Public Health District

Pierce

City of Puyallup
 City of Sumner
 Tacoma-Pierce County Health Department

Skagit

City of Sedro-Woolley
 Skagit County Department of Public Health

Snohomish

City of Marysville
 Snohomish Health District

Spokane

Spokane Regional Health District

Whatcom

City of Bellingham
 Whatcom County Health Department



“Not only did the business correct the issues noted at the initial site visit, they also asked for our advice and guidance in proper storage and handling of their hazardous waste at a new facility they are building.”

—Andrea Pellham
 Snohomish Health
 District



WHAT ISSUES DO SPECIALISTS DEAL WITH?

Specialists conduct on-site visits to address possible causes of pollution at businesses that generate small quantities of dangerous waste.

Specialists look closely at business practices, offer solutions to practices that could pollute the environment, and suggest alternatives to the hazardous materials that are used, stored, and disposed of by businesses.

Their goal is to help businesses make changes to limit or eliminate potential pollution and reduce impacts to state waters. Specialists encounter many different types of waste and sometimes draw on Ecology and other regulatory agency staff expertise.

Partner jurisdictions attempt to resolve pollution problems locally, but in some cases, the business is referred to Ecology or other regulatory programs for additional assistance.

High priority issues

Specialists look at a wide variety of indicators when they visit a business, including proper waste storage, good housekeeping that reduces water pollution, and appropriate spill preparedness.

There are nine high priority issues that specialists find at businesses. These issues will result in follow-up visits or referrals to other agencies if not resolved.



High priority hazardous waste issues:

1. Wastes improperly designated or not designated at all.
2. Wastes not properly disposed of.
3. Improperly stored products and wastes.
4. Open, degraded chemical containers.

High priority stormwater issues:

5. Illegal plumbing connections.
6. Discharge of process wastewaters to storm drains.
7. Improperly stored containerized materials.
8. Improperly stored non-containerized materials.
9. Leaks and spills in storage areas.

WHAT INDUSTRIES DO SPECIALISTS SERVE?

Specialists served 81 different industry sectors in their jurisdictions during the 2013-15 biennium. The business sectors where specialists found the most issues were:

- Auto repair
- Restaurants
- Schools
- Property management companies
- Gas stations

These five sectors represent 55 percent of the issues that specialists found.



“By providing businesses education and outreach about proper storage, handling, and disposal of hazardous chemicals in the Critical Aquifer Recharge Area (CARA), 1,146 gallons of hazardous materials were removed and appropriately disposed of. “

—Ken Waldo
City of Redmond



SPILL KITS AND SECONDARY CONTAINMENT

Spill plans and spill kits

Most specialists distribute free spill kits as an incentive to encourage businesses to prevent, plan for, and be prepared for spills. These kits are 5-gallon buckets with absorbents and booms to help contain and cleanup spills.

In this biennium, specialists distributed 650 free spill kits to businesses that prepared a spill prevention plan, trained employees, and posted emergency spill contact numbers.

Secondary containment vouchers

Secondary containment is a requirement for many liquid materials and wastes stored at businesses. Fourteen of the 21 LSC partners participated in a secondary containment voucher program that provided 75 percent funding—up to \$225—for businesses to install secondary containment. The total cost of the voucher program was \$6,390.

BUDGET AND FUNDING

Funding for the partnership comes from state funds and from federal grants through the National Estuary Program. The total program budget for the 2013-15 biennium was \$4.7 million; \$3.2 million came from state funds and \$1.5 million from federal grants.

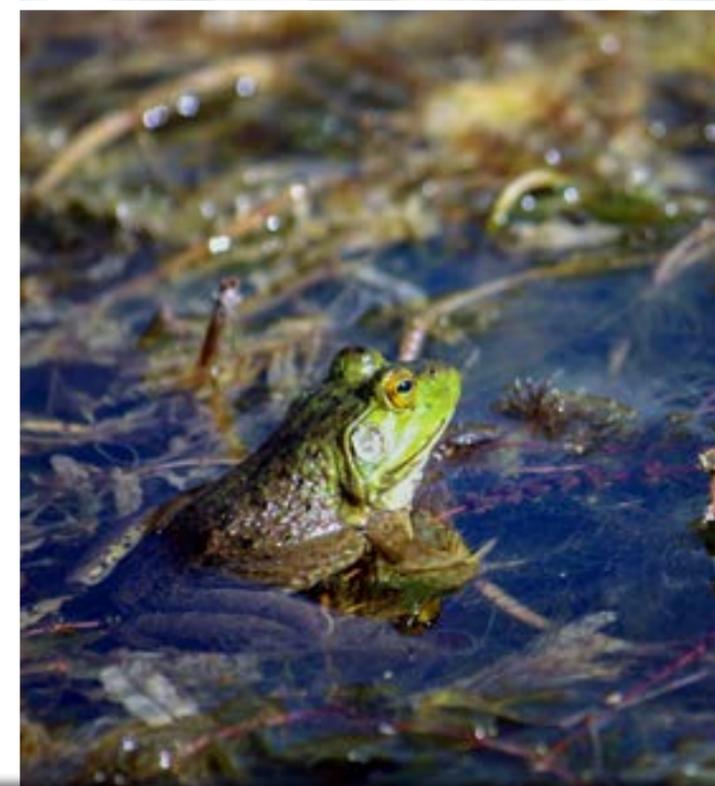


TRAINING FOR LSC SPECIALISTS

Specialists must have expertise in handling many different types of wastes and processes. They must also understand the regulatory requirements and best management practices that apply to a wide range of businesses.

To support new and veteran LSC specialists, Ecology provides regular trainings with guest speakers through webinars. Quarterly in-person trainings give specialists a chance to learn about best management practices and regulatory updates and to connect with specialists in other jurisdictions.

Experienced specialists are asked to mentor new specialists and are required to contribute to planning and conducting the program's quarterly in-person trainings. All specialists have access to Ecology staff expertise, leading to a broad system of information exchange and an enhanced level of assistance to businesses.



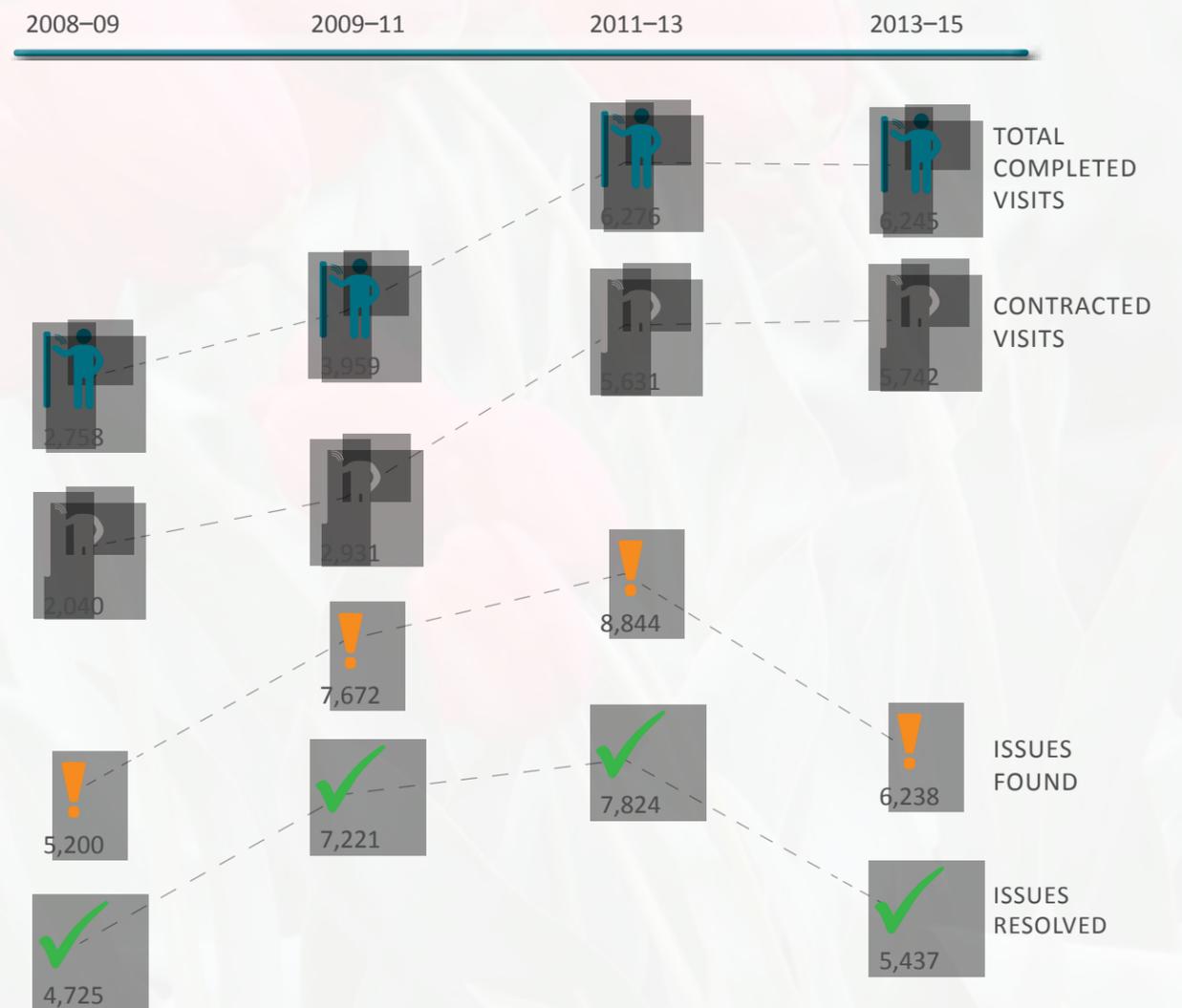
"An employee told me that he doesn't want to pollute the river that he fishes in."

—Polly Dubbel
Skagit County Department of
Public Health

SITE VISIT DATA

Each biennium since the program started, LSC specialists have completed more site visits than their interagency agreements require. Since 2008, specialists have helped businesses resolve 90 percent of the issues they find.

FIGURE 2: VISITS AND ISSUES FROM 2008–2015



ISSUES AND RESOLUTION



4,285
Businesses visited



6,238
Issues found

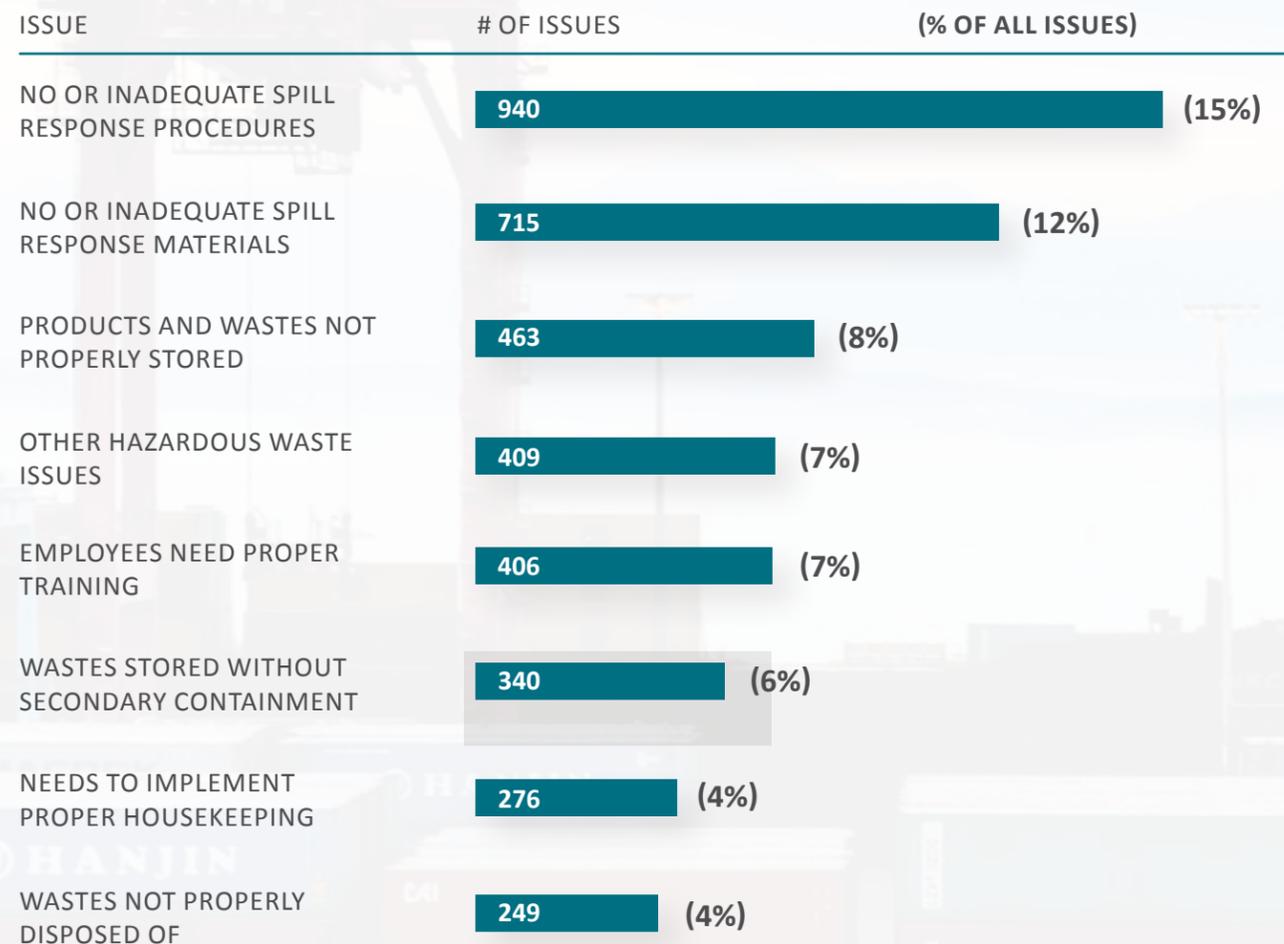


87%
Issues resolved

In the 2013-2015 biennium, LSC specialists visited 4,285 individual businesses. Those with complex or high priority issues received one or more follow-up visits. Specialists found a total of 6,238 issues. By the end of the biennium, 87 percent (5,437) of the issues were resolved. On average, issues took 58 days to resolve. Specialists found no issues at 54 percent (2,356) of the businesses they visited.

The figure below shows the eight most common issues that specialists found during businesses visits. They make up nearly 65 percent of all issues.

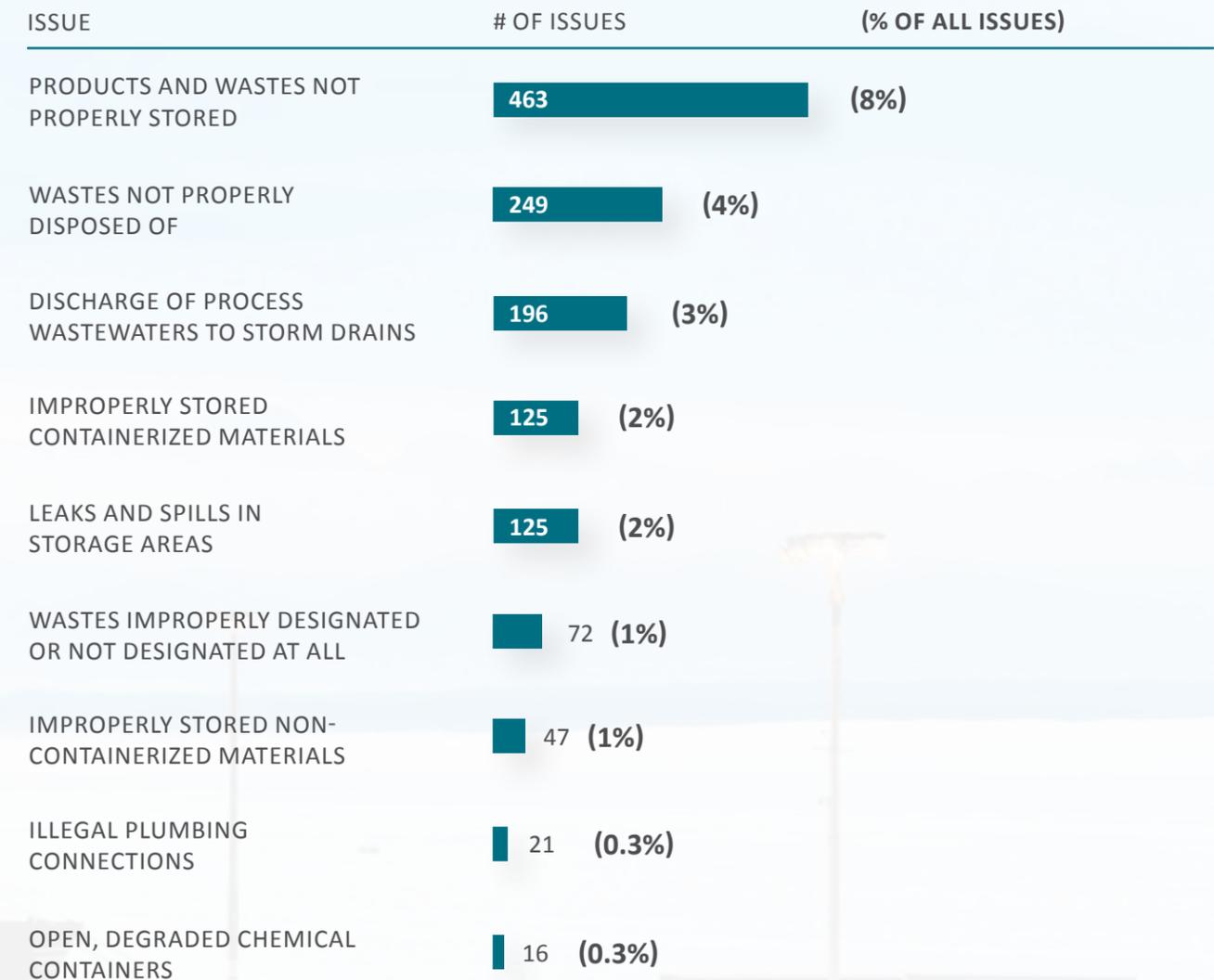
FIGURE 3: MOST COMMON ISSUES FOUND DURING VISITS



Only one of the eight most common issues found (wastes not properly disposed of) is a high priority issue. The nine issues identified as high priority are those that have the potential to directly impact human and environmental health, and they require a follow-up visit to make sure the issue is resolved.

The nine high priority issues only represent 21 percent of all issues found during business visits this biennium.

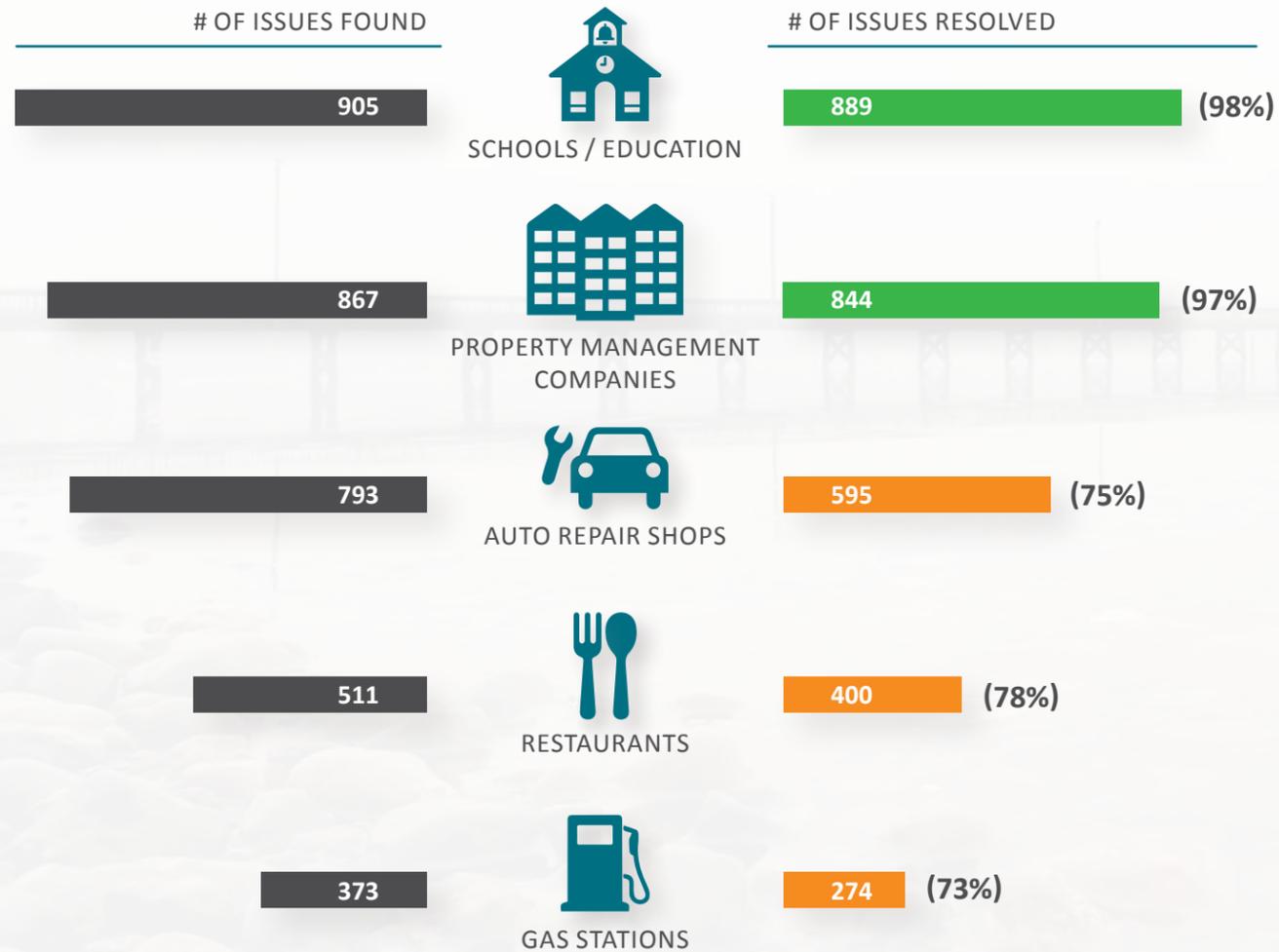
FIGURE 4: HIGH PRIORITY ISSUES FOUND DURING VISITS



Issues by sector

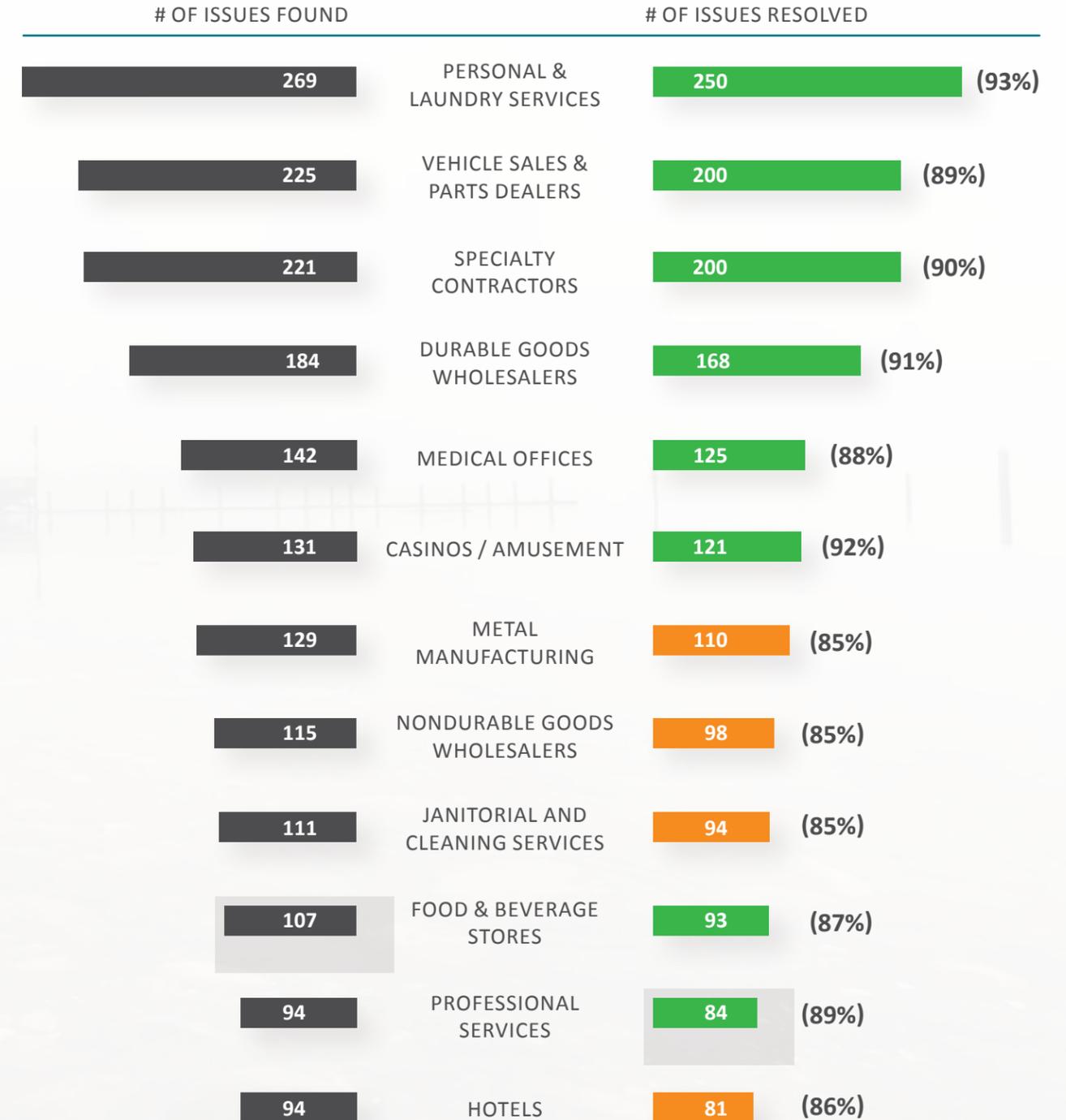
Specialists found the most issues in the five business sectors represented in Figure 5. These five sectors represent 43 percent of all visits to businesses and 55 percent of the issues found in the 2013-15 biennium.

FIGURE 5: ISSUES AND RESOLUTION IN THE TOP 5 SECTORS



■ ABOVE PROGRAM AVERAGE (≥ 87%)
■ BELOW PROGRAM AVERAGE (< 87%)

FIGURE 6: ISSUES AND RESOLUTION IN OTHER SECTORS



PARTNER SUCCESS STORIES

SKAGIT COUNTY DEPARTMENT OF PUBLIC HEALTH

An auto repair shop in Mount Vernon was storing waste oil and anti-freeze outside without secondary containment. The business was also washing vehicles over a drain they thought was connected to a sanitary sewer. The City of Mount Vernon was concerned that the oily water discharge in nearby storm drains was coming from this location.

A Local Source Control specialist worked with the city to trace the drain system, which showed that the vehicle wash area drain was connected to a stormwater system that empties into the Skagit River.

The specialist also found that the oil/water separator that captures oily runoff from the business had not been maintained and was not functioning properly.

After working with Local Source Control, the business:

- Installed secondary containment for liquid waste storage drums.
- Cleaned outside drains and pre-treatment devices.
- Cleaned the pavement in the waste storage area and parking lot.
- Developed spill prevention and response practices.
- Washes vehicles only in a location that drains through pre-treatment and then to the sanitary sewer.

The business now educates employees on the importance of protecting outside drains. One employee told the specialist that he doesn't want to pollute the river he fishes in.



Waste storage area after cleaning and installing secondary containment for drums.

CITY OF PORT ANGELES

Two grocery stores in Port Angeles had outdoor trash compactors that leaked leachate—liquid from rotting organic materials. The aging compactors were a few feet from stormwater catch basins, so leachate drained down storm drains and contaminated Peabody Creek.

After a Local Source Control specialist discovered the issue, the store managers agreed to:

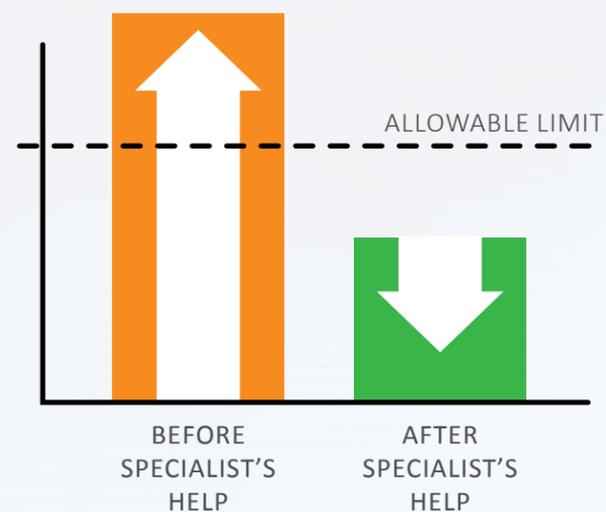
- Clean up the area around the compactors.
- Set a schedule for regular cleaning.
- Repair or replace the compactors.

The specialist visited both businesses every few weeks to determine progress and reinforce how crucial it was to correct the problem. Within a few months, each location fixed the leaking compactors and cleaned out their on-site stormwater systems.



Leaking trash compactor.

FIGURE 7: STORMWATER FECAL COLIFORM COUNTS



Fecal coliform tests were conducted on stormwater leaving the grocery stores and entering the city's stormwater system.

Prior to fixing the compactors and cleaning the storm drain lines, the fecal coliform counts were well over 3,000 per 100 ml at each location—far above allowable stormwater limits.

After the units were fixed and storm drain lines cleaned, each location reported fecal coliform counts below 200 per 100 ml. Typical stormwater counts in the city are 0-300 colonies per 100 ml.

SPOKANE REGIONAL HEALTH DISTRICT

While visiting a machine tooling business, a Local Source Control specialist discovered mineral oil leaking onto the ground, lack of secondary containment for liquid wastes, unlabeled waste containers, and the potential for spilled product and waste to leave the building. In addition, drywells on the property had not been registered or maintained.

The specialist provided guidance on secondary containment, waste labeling, and drywell registration. The specialist also provided guidance on how to check spray booth filters to ensure they did not contain halogenated organic compounds, which require disposal as hazardous waste.

After receiving guidance, the business:

- Installed secondary containment under all product and waste barrels.
- Labeled all barrels and posted safety and spill clean-up information and supplies next to the barrels.
- Added grounding to flammable barrels.
- Cleaned and registered drywells with the Department of Ecology.
- Completed an EnviroStars application and became a certified EnviroStars business.



Before: Waste in unlabeled barrels leaks onto the ground.



After: Barrels are labeled and secondary containment is installed underneath.



CONCLUSION

In the next biennium, the Local Source Control Partnership will expand its focus area from Puget Sound and Spokane River watersheds to include the Columbia River Basin. Clark County Environmental Services and Clark County Public Health will offer LSC technical assistance visits to Clark County businesses.

The Department of Ecology's Environmental Assessment Program will develop monitoring protocol to help evaluate the effectiveness of LSC work. This monitoring protocol will be tested in Clark County and may eventually be adapted for other LSC partners throughout the state.

Ecology will also hire a consultant to rebrand and create marketing tools for the LSC program. This effort will increase awareness of the program and encourage businesses to contact a specialist for assistance. New marketing materials will emphasize specialists as knowledgeable, approachable, and helpful resources for small businesses.

APPENDIX A: PARTNER HIGHLIGHTS

CITY OF BELLINGHAM



206
Businesses visited

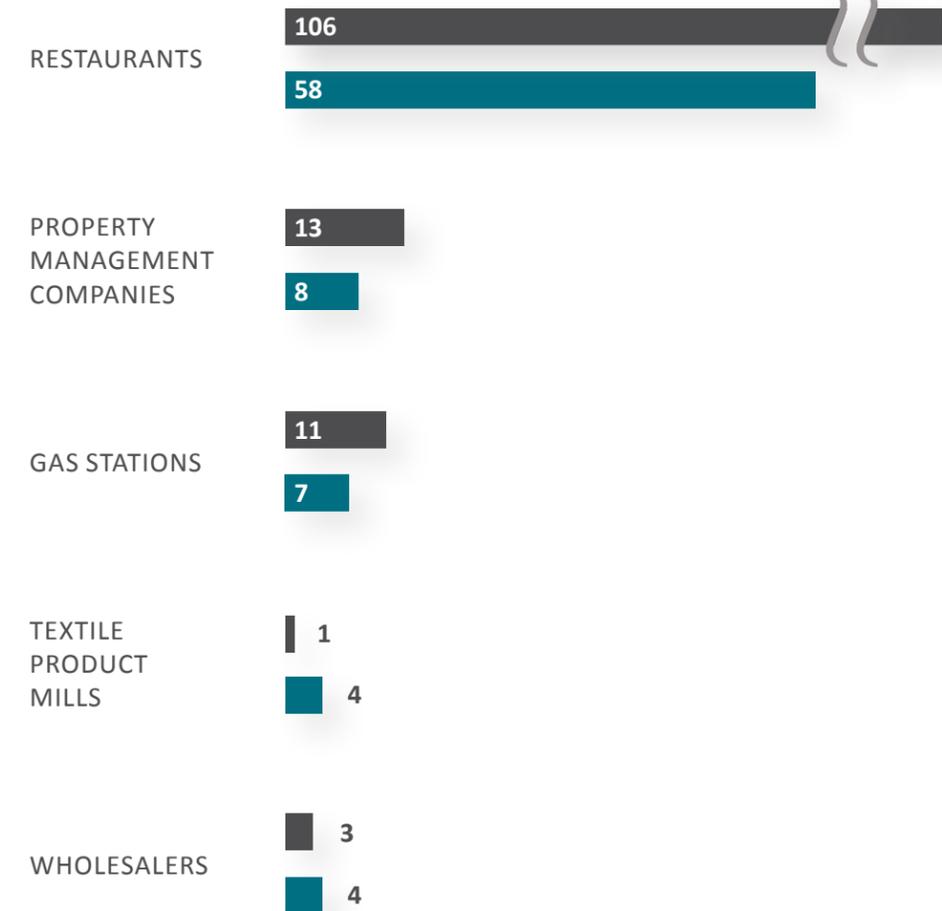


63%
Businesses with
no issues found



118
Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

KEY



INDICATES THE DATA BAR IS ABBREVIATED TO FIT INSIDE THE CHART AREA.

CITY OF BOTHELL



122

Businesses visited



39%

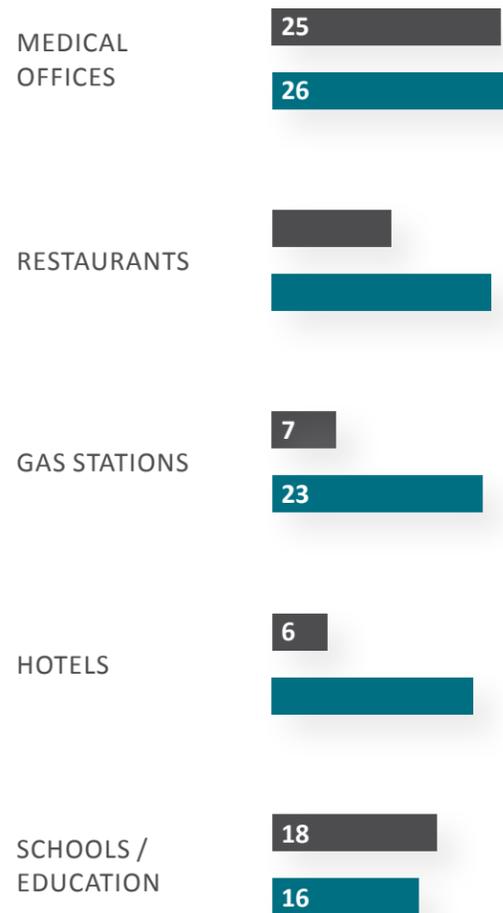
Businesses with no issues found



212

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

CITY OF ISSAQUAH



121

Businesses visited



47%

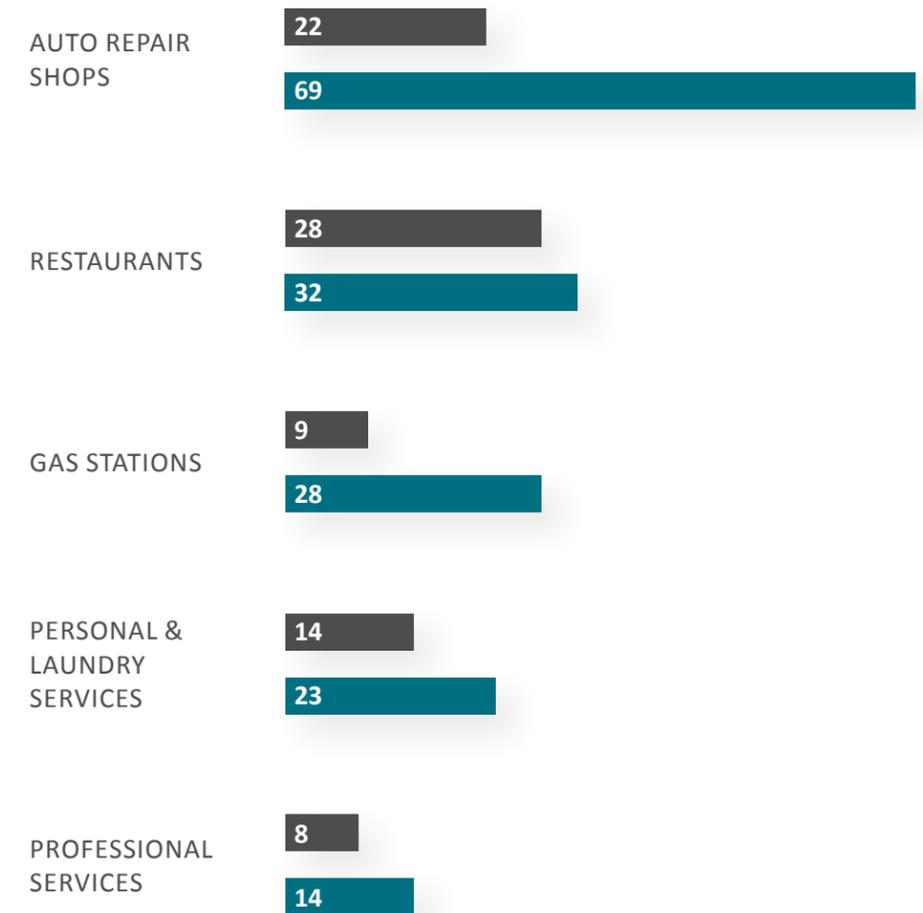
Businesses with no issues found



271

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

CITY OF KIRKLAND



124

Businesses visited



9%

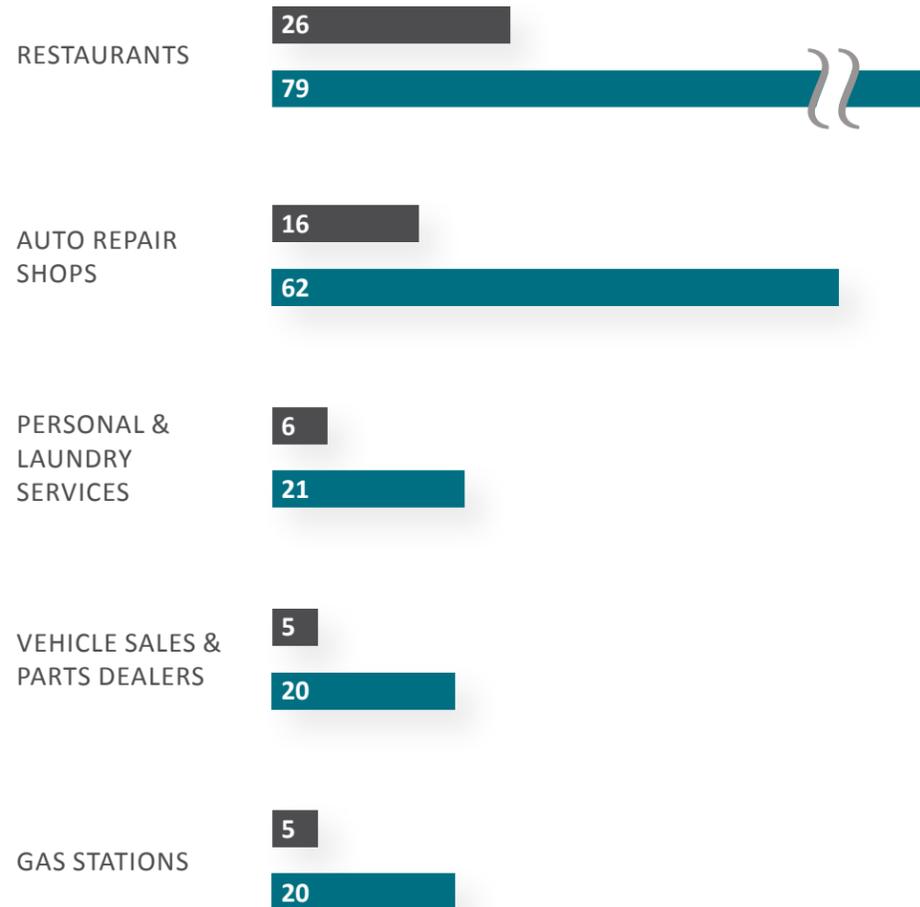
Businesses with no issues found



383

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

CITY OF MARYSVILLE



59

Businesses visited



70%

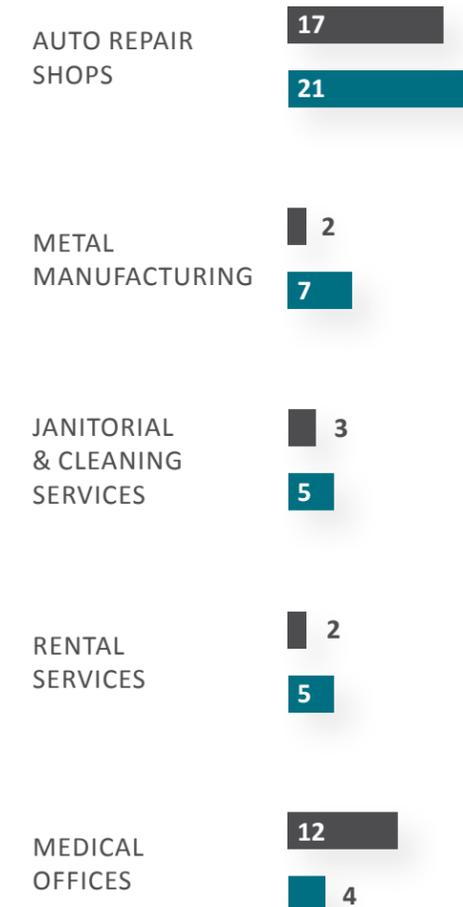
Businesses with no issues found



51

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

CITY OF PORT ANGELES



187

Businesses visited



77%

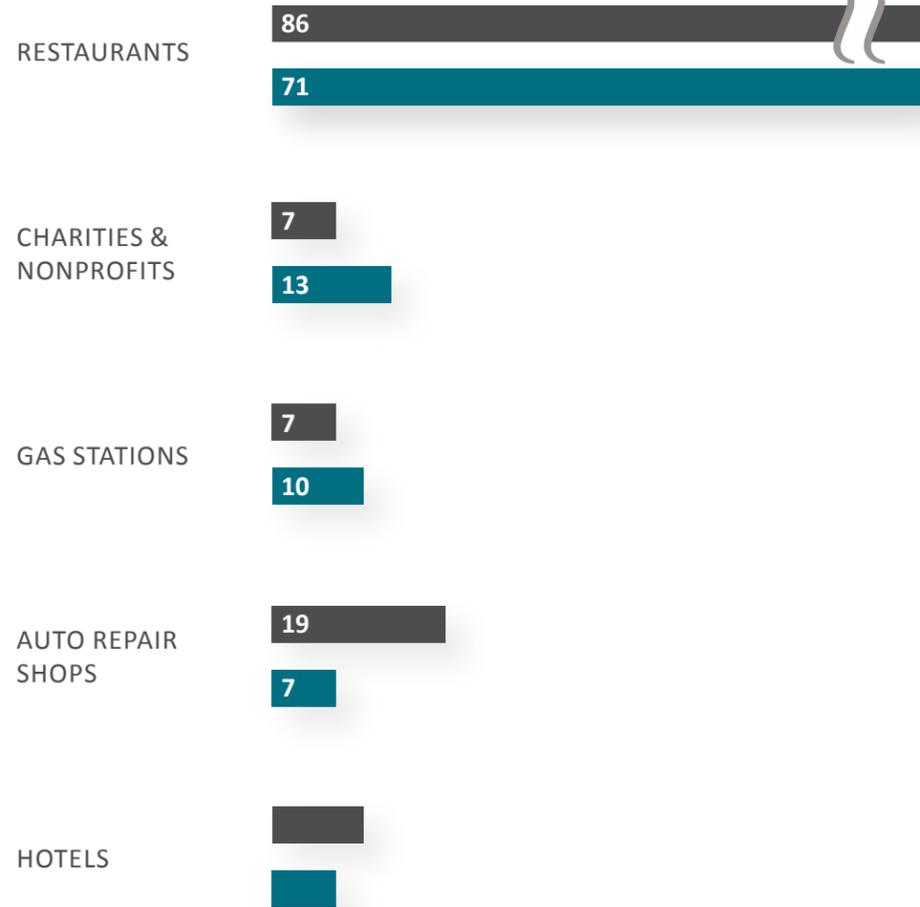
Businesses with no issues found



151

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

CITY OF PUYALLUP



105

Businesses visited



57%

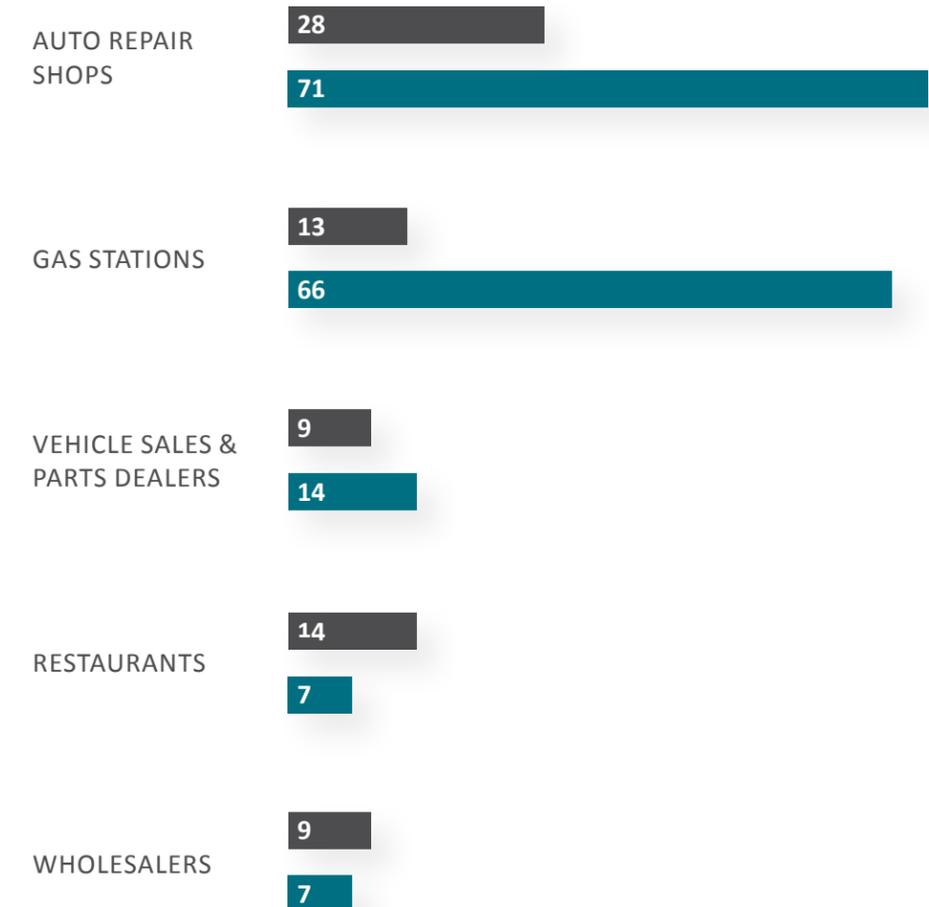
Businesses with no issues found



186

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

CITY OF REDMOND



CITY OF SEDRO-WOOLLEY



110

Businesses visited



76%

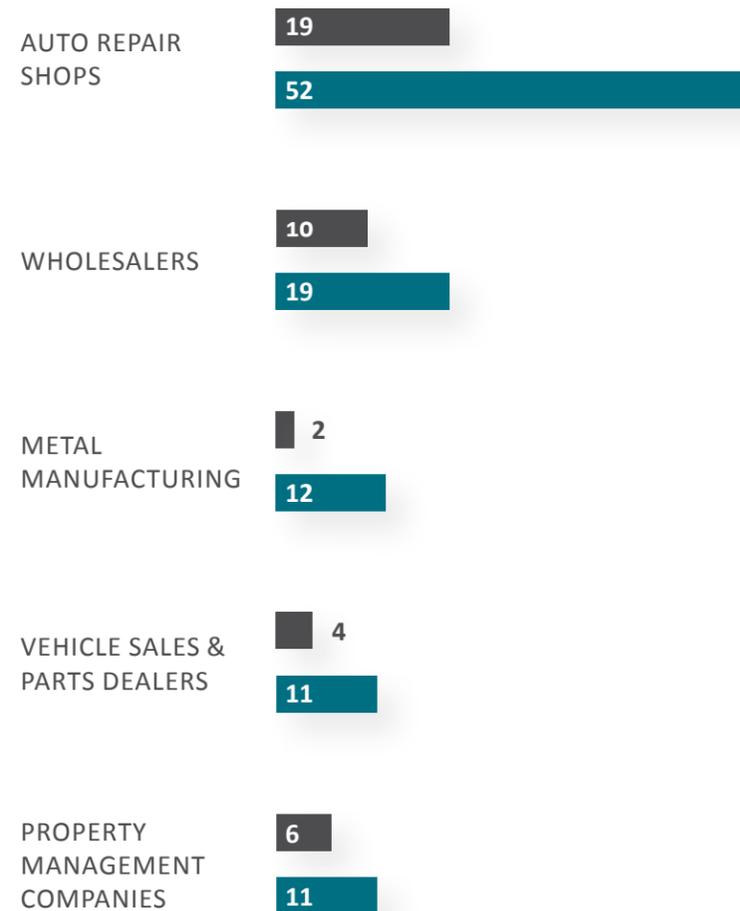
Businesses with no issues found



215

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND



65

Businesses visited



31%

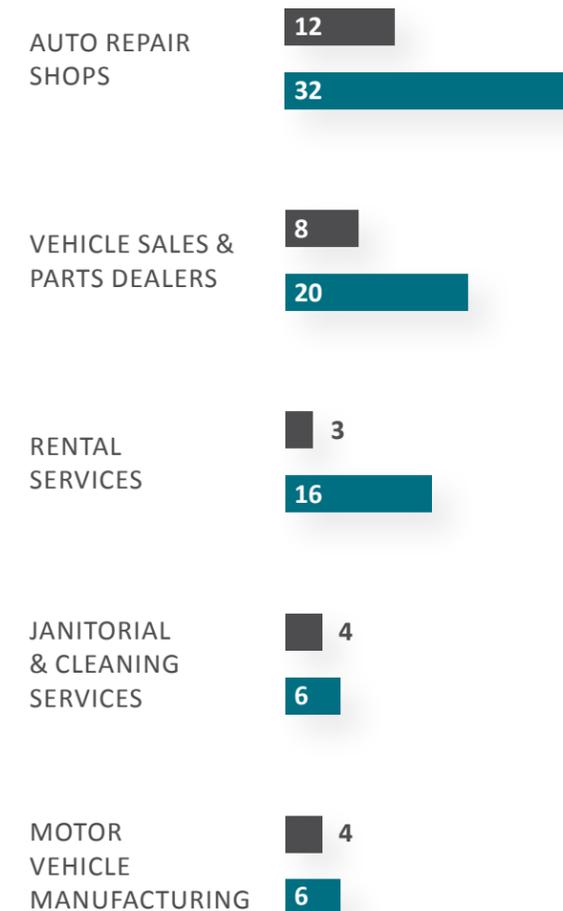
Businesses with no issues found



122

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

CITY OF SHORELINE



51

Businesses visited



43%

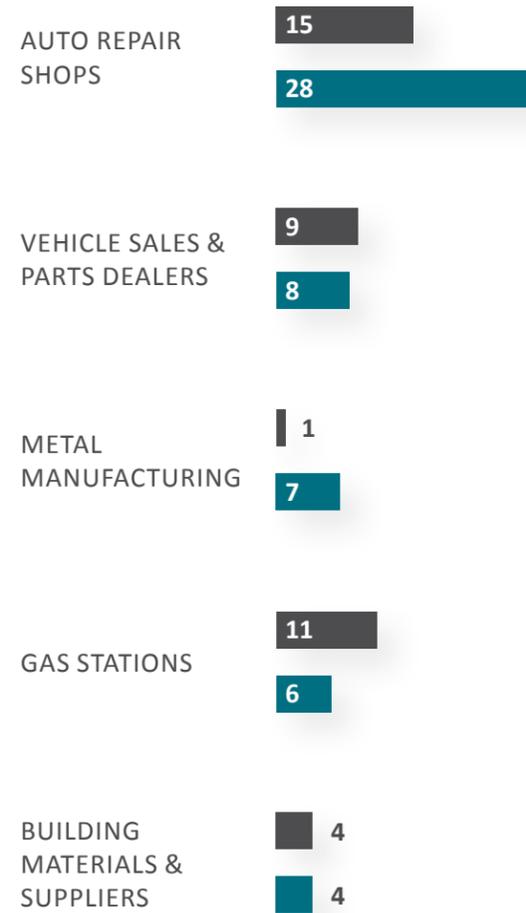
Businesses with no issues found



78

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

CITY OF SUMNER



62

Businesses visited



50%

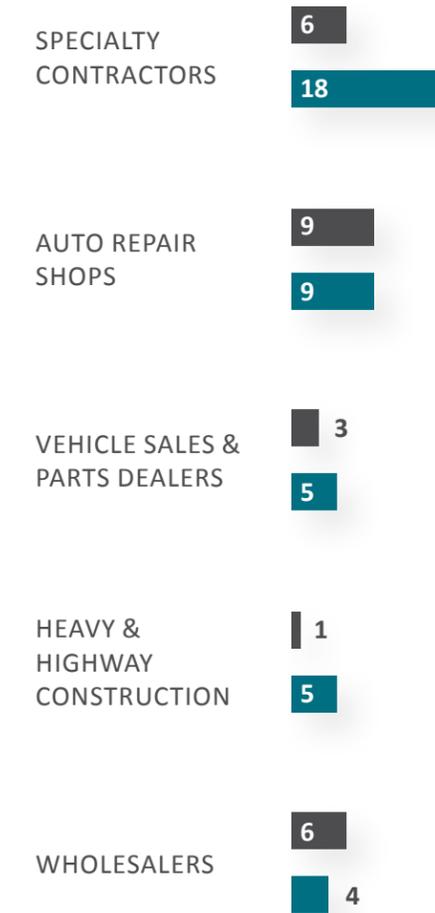
Businesses with no issues found



69

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

JEFFERSON COUNTY PUBLIC HEALTH



132

Businesses visited



71%

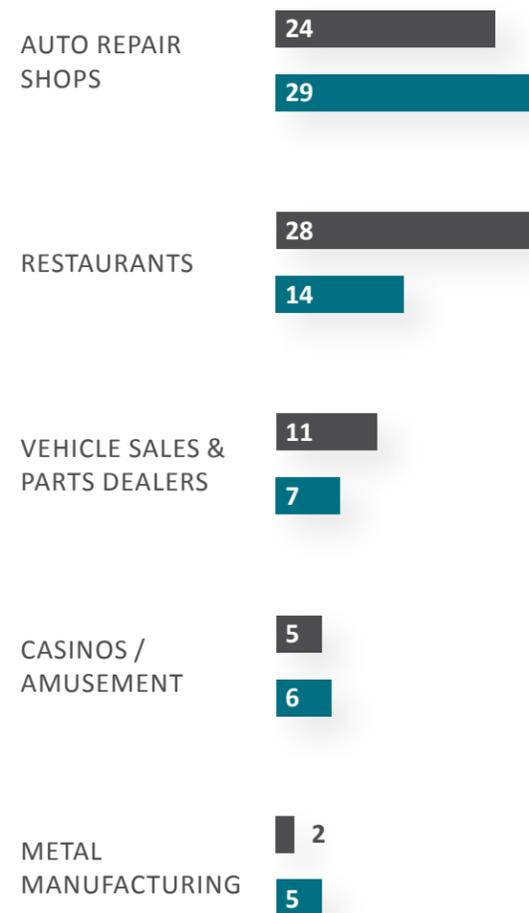
Businesses with
no issues found



88

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



 # OF BUSINESSES VISITED
 # OF ISSUES FOUND

KING COUNTY WATER AND LAND



373

Businesses visited



85%

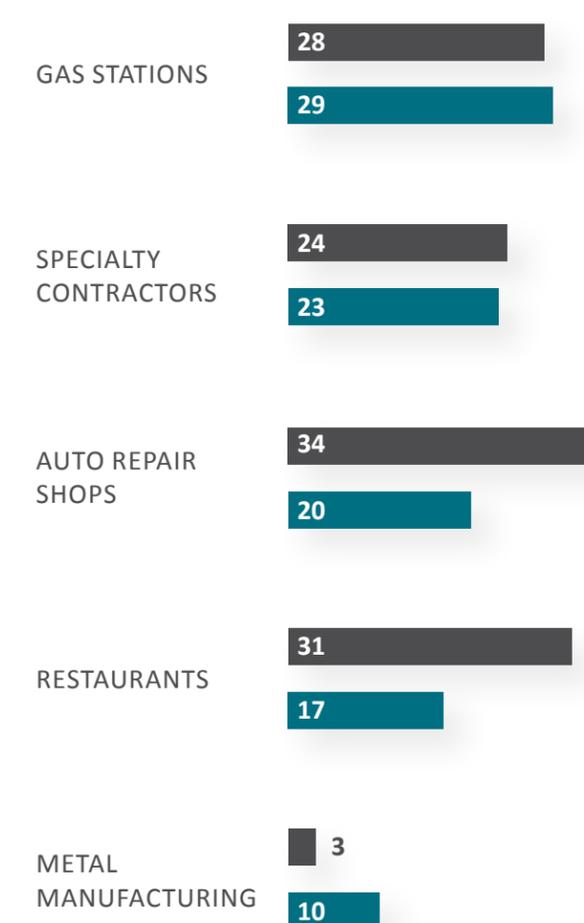
Businesses with
no issues found



186

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



 # OF BUSINESSES VISITED
 # OF ISSUES FOUND

KITSAP COUNTY PUBLIC WORKS



207

Businesses visited



13%

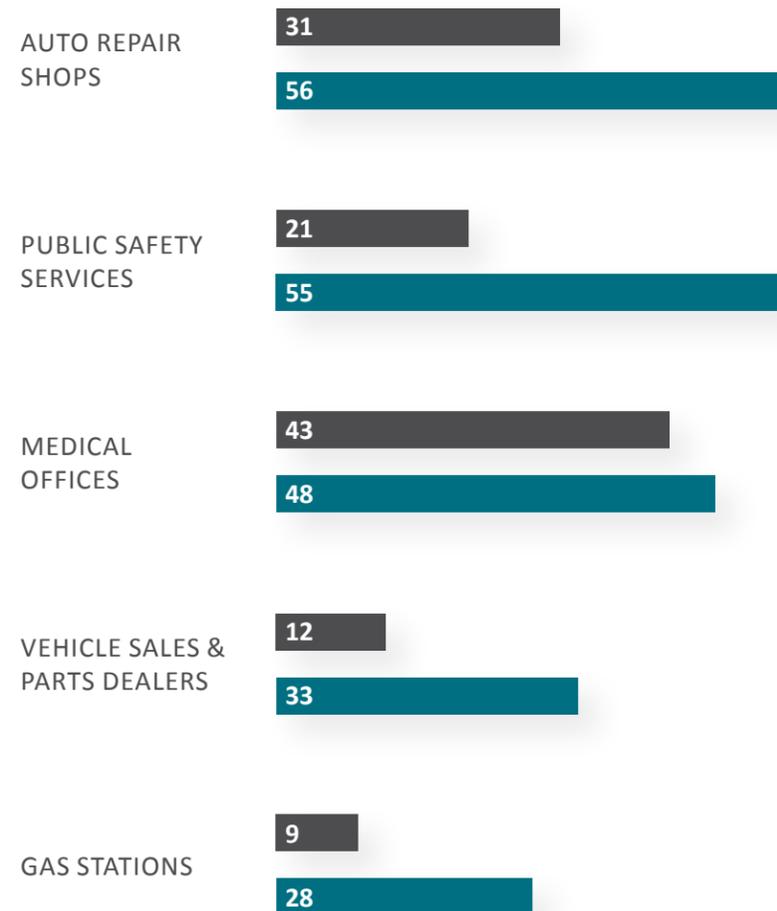
Businesses with
no issues found



382

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

KITSAP PUBLIC HEALTH DISTRICT



379

Businesses visited



71%

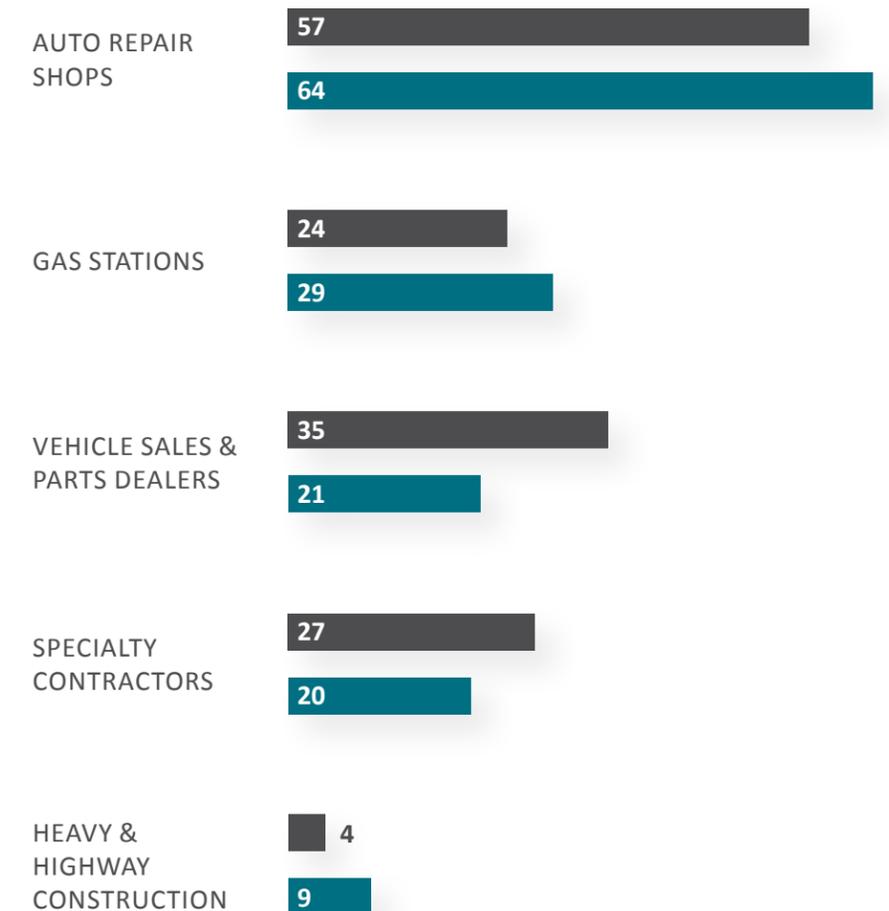
Businesses with
no issues found



250

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED
 # OF ISSUES FOUND

SEATTLE PUBLIC UTILITIES



SKAGIT COUNTY DEPT OF PUBLIC HEALTH



308

Businesses visited



9%

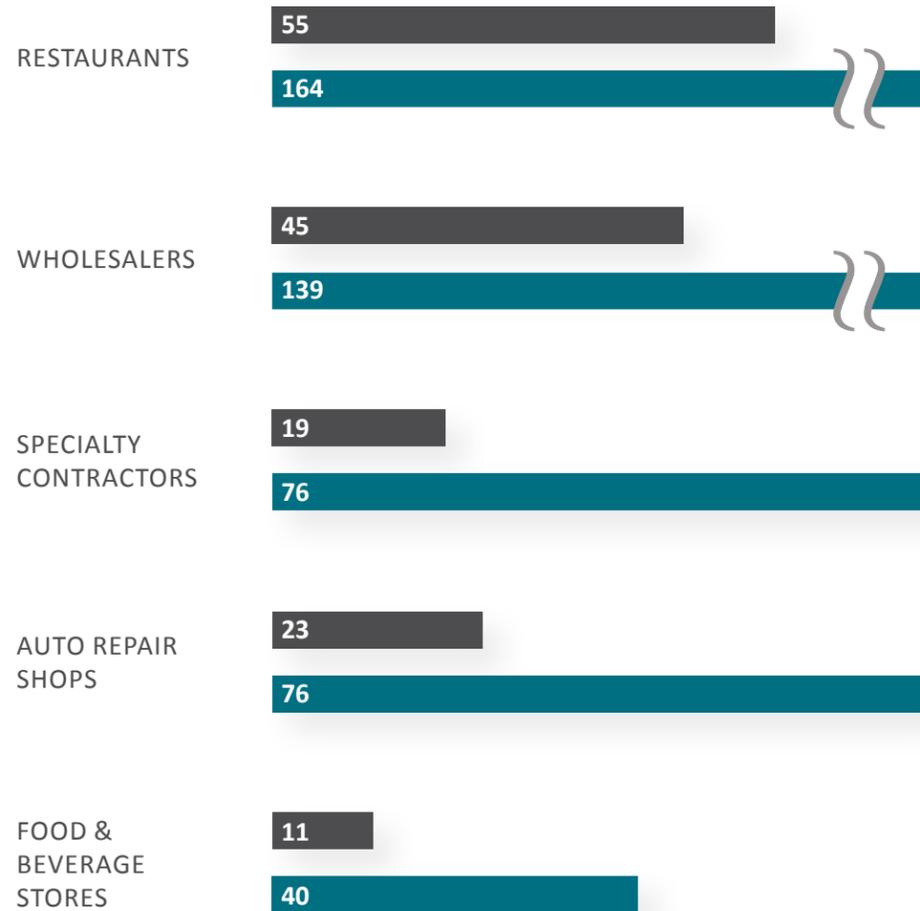
Businesses with no issues found



914

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND



182

Businesses visited



57%

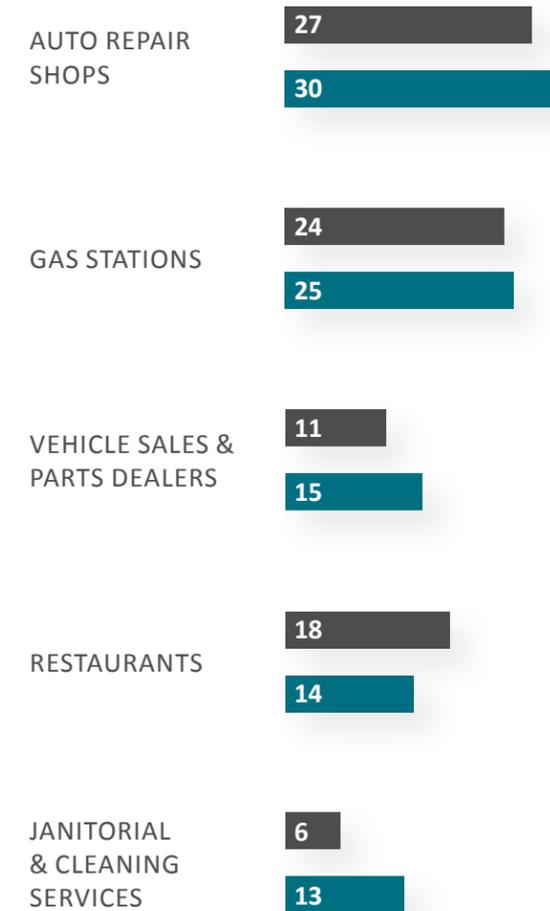
Businesses with no issues found



151

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

SNOHOMISH HEALTH DISTRICT



435

Businesses visited



86%

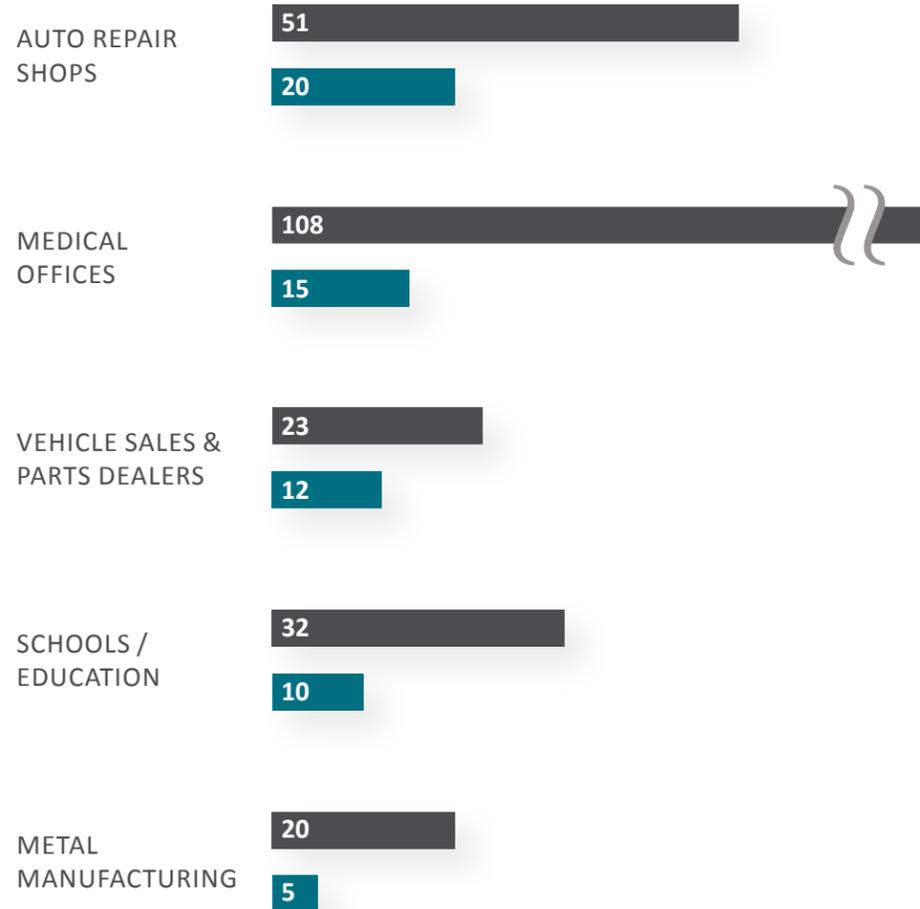
Businesses with no issues found



80

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

SPOKANE REGIONAL HEALTH DISTRICT



225

Businesses visited



64%

Businesses with no issues found



210

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



OF BUSINESSES VISITED

OF ISSUES FOUND

TACOMA-PIERCE COUNTY HEALTH DEPARTMENT



630

Businesses visited



32%

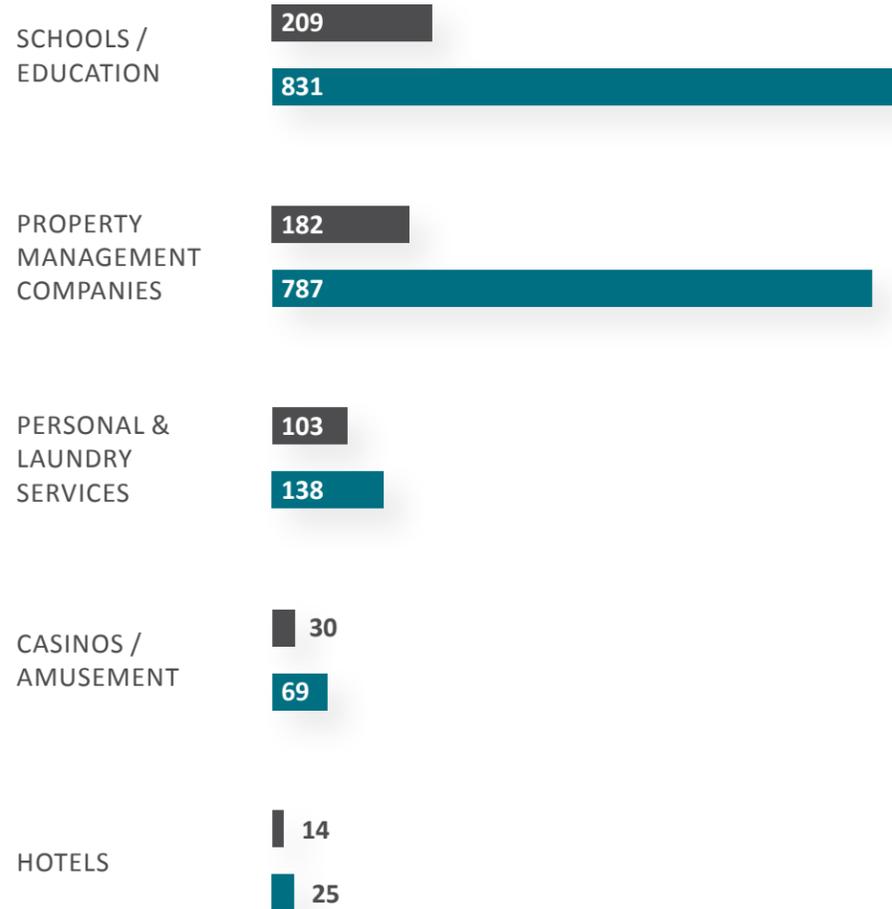
Businesses with no issues found



1970

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



■ # OF BUSINESSES VISITED
■ # OF ISSUES FOUND

WHATCOM COUNTY HEALTH DEPARTMENT



194

Businesses visited



58%

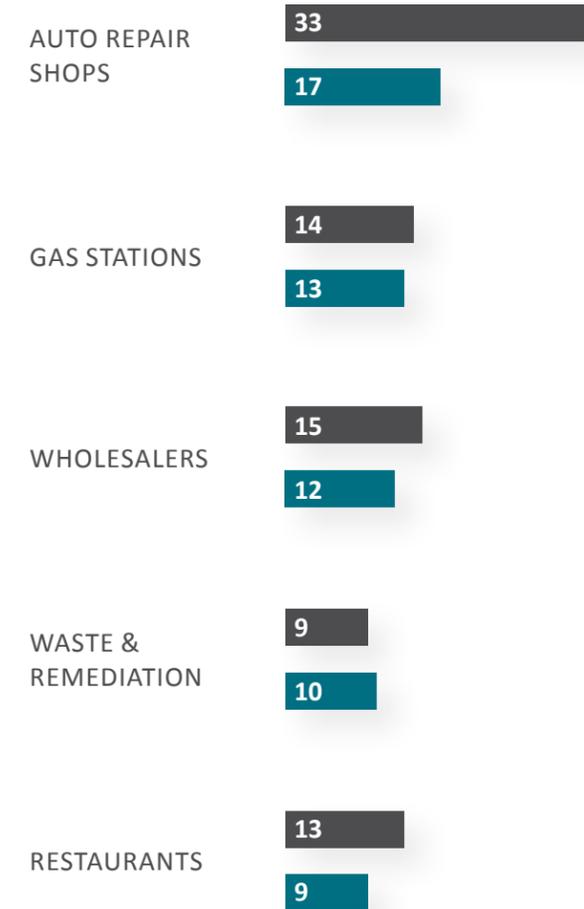
Businesses with no issues found



136

Issues found

VISIT DATA FOR THE SECTORS WITH THE MOST ISSUES



■ # OF BUSINESSES VISITED
■ # OF ISSUES FOUND

To request materials in a format for the visually impaired, call the Hazardous Waste and Toxics Reduction Program at 360-407-6700. Persons with impaired hearing may call Washington Relay Service at 711. Persons with speech disability may call TTY at 877-833-6341.