

Memorandum

To: Puget Sound Clean Cars Working Group **Date:** June 21, 2017

From: Ecology, Gradient, SAE

Subject: Puget Sound Clean Cars Working Group June 20, 2017 Web Meeting Minutes

Web Meeting Participants

- Working Group (WG): Ken Zarker, Marcel Halberstadt, Michael Smith, Tom Tucker, Andy Gregory, Ed Kolodziej, Dan Selke, Bill Malatinsky.
- Stakeholder Group (SG): Stacy Tatman, Susan Hazen, Diane Barton, Jeff Lovell, Michelle Gaither.
- Operations Team (OT): Tom Lewandowski, Keith Wilson, Dave Mayfield, Joel Cohen.

Agenda Items

- Project Progress Updates (Lewandowski)
 - Opening remarks, review of working group organization, review of meeting agenda.
 - Progress Updates: first web-meeting held on April 28th
 - Ecology has completed a web page to store working group materials, such as newsletters, project materials, meeting slides, *etc.* (<https://fixcarleaks.org/clean-cars-partnership/>)
 - Newsletter #2 has been issued and posted to the website.
 - Introduction to main focus of today's meeting: discuss approach for information gathering.
- Background on Puget Sound Toxics Loading Analysis (Cohen)
 - Provided a synopsis of previous Ecology work describing identification of inputs (sources and chemicals) to Puget Sound.
 - Discussion of primary contaminants of concern identified by Ecology – metals, PCBs, PAHs, PBDEs, phthalates, Oil and Grease, Petroleum, *etc.*
 - Results of Ecology work informed source control strategies, specifically the Puget Sound Clean Cars Stormwater Partnership. The main goal of this research is to collect data that informs strategies for reducing vehicle leaks.
 - Ecology has several other working groups addressing other potential sources, such as agricultural runoff, roads and highways, *etc.*
 - Details available at:
<http://www.ecy.wa.gov/programs/wq/psmonitoring/subgroupwork.html>
- Review of Project Research Scope (Lewandowski)

- Main focus is on vehicle fluid leaks (*e.g.*, oil, fuel, transmission fluids, *etc.*); while other pathways are important (*e.g.*, exhaust emissions, brake dust, tire dust) these are not the focus of the Clean Cars project.
- Questions from WG:
 - Dan Selke asked about the citation for 7 million quarts of vehicle leaks in Puget Sound (Slide 9); Joel Cohen directed him to Ecology reports links provided on slide.
 - Tom Tucker asked whether marine activity (watercraft leaks) was included in the scope; Ken Zarker responded that the focus of the previous work was on land sources. Tom Lewandowski acknowledged the importance of boat leaks but noted this was outside the current project scope.
 - Ed Kolodziej asked whether the scope included fluids used for outside maintenance and care of vehicles (cleaning or other fluids); WG group discussed and determined that it would be important to know whether similar chemicals exist in those surface fluids as in other leaks (oil, transmission fluids, etc) to determine whether they may be contributing to pollution.
 - Dan Selke asked whether the research areas set in stone, or may we identify another one? Specifically, can we identify what efforts Ecology has done to do outreach to the public and communities about DIY oil changes, and proper disposal of waste oil and how is it tracked? He suggested that only 25% of market for oil changes is done by dealers and recycled, while 75% is done independently. Wanted to know if Ecology tracks the use, recycling and disposal of oil.
 - Tom Tucker offered to provide some follow-up information *via* email. Auto Care Member companies recycle used oil. There are service companies that will come to remove oil from the premises. Some municipalities pass laws that prohibit residents from disposing engine oil but those laws are uniform across the country. Consumers are generally encouraged to find service stations or repair shops to dispose of used oil that will be recycled, re-fined and sold.
 - Ken Zarker indicated several states have used oil collection policies in place, used oil generator requirements regulated under RCRA.
 - Jeff Lovell noted that ASA Northwest can provide a process that the independent auto repair shops implement with used oil.
 - Bill Malatinsky provided info. on Seattle Public Utilities program for exchanging used oil.
- Review of Research Topics and Strategies (Lewandowski)
 - Several research topics identified to guide information gathering (Slide 12)
 - Initial list of fluid types presented (Slide 13) and no other types identified by the WG.
 - Review of initial searches discussed from peer reviewed literature, government reports, technical documents, reference texts (Slide 14)
 - Requested that the WG begin identifying additional literature sources, databases, technical experts for the research phase.
 - Questions/Discussion from WG:

- Dan Selke asked whether lit. search results will be made publically available, Tom Lewandowski answered yes to the extent that copyright allows, otherwise brief summary with full citations will be provided.
 - Dan Selke offered to review IMDS to see what materials/fluids have CoCs related to this project.
 - Ed Kolodziej noted that 10s - 100s of unknown chemicals detected in polluted stormwater, is interested in identifying the materials/CoCs in fluid products.
 - Tom Lewandowski asked the WG to identify any key publications on the research topics.
 - Ed Kolodziej was not aware of any systematic comprehensive research paper characterizing stormwater pollution. Limitation in designing these studies is uncertainty regarding what to look for.
- Next Steps (Lewandowski)
 - Gradient and SAE will continue to perform literature searches. Requested WG to provide references or contacts relevant to the project; Gradient and SAE will prepare a bibliography and share with group for comment (ID missing areas, or other areas to explore); poll to set up next webinar
 - Questions from WG:
 - Dan Selke wanted to clarify how to search IMDS for chemicals. Tom Lewandowski referred him to slide 4 with CoCs ID'd from PSTLA.
 - Ken Zarker noted we are interested in all chemicals in lubricants due to data gaps, and we should pursue things in a phased approach.
 - Gradient will review list of priority pollutants, discuss with Ecology to establish method for guiding first stage of review.
 - Meeting Adjourned.

For any questions or comments, please contact Dave Mayfield (dmayfield@gradientcorp.com) or Joel Cohen (jcohen@gradientcorp.com).