

Memorandum

To: Puget Sound Clean Cars Working Group

Date: May 1, 2017

From: Ecology, Gradient, and SAE

Subject: Puget Sound Clean Cars Working Group April 28, 2017 Web Meeting Minutes

Agenda Items

- Introductions, Overview and Project Organization – Tom Lewandowski, Gradient
 - Operations Team: Ecology, Gradient, Society of Automotive Engineers (SAE)
 - Working Group (WG): representatives from government, academia, NGOs, and automotive-related businesses, and chaired by Ken Zarker (Ecology)
 - WG Meeting Ground Rules
 - Web-based meetings to review data collection updates and form consensus based decisions
 - WG members expected to actively participate in discussions
- Background – Ken Zarker, Ecology
 - Consensus-based approach, placing value on all stakeholder input
 - Ecology is responsible for final deliverables under the EPA grant
- Stormwater Impacts and Possible Solutions – Jen McIntyre, Washington State University (note: Jen's presentation order switched places with Gary's during the meeting)
 - Researching stormwater impacts on coho salmon
 - Zebrafish models exposed to stormwater runoff exhibit cardiac related defects
 - Brake fluid, transmission fluid, used motor oil identified as sources of stormwater pollution
- Overview of Automotive Drips/Leaks – Gary Pollak, SAE International
 - Automotive fluid leakage sources include engine oil, antifreeze, transmission and brake fluids, and others (engine oil is the predominant leak)
 - WG strategy: technical input, identify areas for more targeted literature search, and contact with relevant experts
- Project Deliverables – Tom Lewandowski, Gradient
 - Findings will be summarized in a final report delivered to Ecology in June 2018
 - Also presented at a future SAE conference (date TBD)
- Working Group Member Introductions

- Ed Koldziej – interested in identifying specific fluids being leaked for research on ecological impacts of polluted stormwater
- Jen McIntyre (WSU) – researching stormwater effects on coho salmon, provided an overview as described above.
- Tom Tucker – representing industry, interested in finding common sense solutions that benefit all stakeholders
- Laurie Holmes – Senior Director of Environmental Policy at MEMA, >1000 auto suppliers including after market companies (transmission fluids, brake fluids, *etc.*)
- Dan Selke – Mercedes Benz engineer responsible for regulatory certification compliance in US, both safety and environmental, involved with SAE and state of Washington for many years, suggests SAE has good background on farm machinery as a potential source of stormwater pollution
- Michael Smith – SAE master technician for >30 years in both dealership and independent repair shops, how to get to bottom of public perception of their vehicle is contributing to stormwater pollution, and how to solve that problem, barriers include financial, other reasons why people don't get things fixed, also interested in technological fixes (how to prevent leaks)
- Bill Malatinsky – background in environmental education and communication, Seattle Public Utility automotive utility and maintenance programs, part of the Don't Drip and Drive campaign, excited to help translate our findings to the public
- Elsa Pond – Washington Department of Transportation, policy background related to tracking permit requirements
- Andy Gregory – Puget Soundkeeper – nonprofit focusing on water quality in Seattle region, manage education and outreach projects, former lead on Don't Drip and Drive project, background in social science, interested from behavior change standpoint and getting messages from this project out to the public
- Tere Carral – Bridge Latino is a marketing and advertising outreach firm for Hispanic and minority multicultural communities, here to represent their voice, Latinos tend to have older cars and with more usage, take care of cars at home, change oil at home, more than general population
- Marcel Halberstadt – chemist, SAE member, air and waste mgmt association member, ACS member
- Open Discussion, Stakeholder Questions and Open Comments
 - Q: Will web meeting slides be made available
 - A: Yes, along with other materials (video recording of the meeting, newsletters, *etc.*) will be distributed to the WG and also made available on Ecology's website
 - Q: Will the contact list be made available
 - A. Yes – contact list of WG member names and email addresses will be distributed

Next Steps and Follow Up

- Meeting minutes, presentation slides and link to video will be distributed to Working Group and posted on Ecology's website
- Next Working Group Meeting in June

- Gradient to send doodle poll to working group members
- Meeting will include discussion of SAE's literature search
- Quarterly newsletter will be distributed before the June meeting
- Gradient will distribute contact info/org chart to working group
- Gradient/SAE will commence literature searches in preparation for the next meeting, search topics may include the following:
 - a. Topic 1 – Identify any research programs/efforts within auto industry to monitor or reduce fluid leaks
 - b. Topic 2 – Identify any programs/reports generated by governmental authorities
 - c. Topic 3 – Identify any research related to safer alternatives for specific fluid types
 - d. Topic 4 – Examine existing information on chemical composition/additives of specific fluid types.

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