



# Tesoro Clean Products Upgrade ENVIRONMENTAL IMPACT STATEMENT

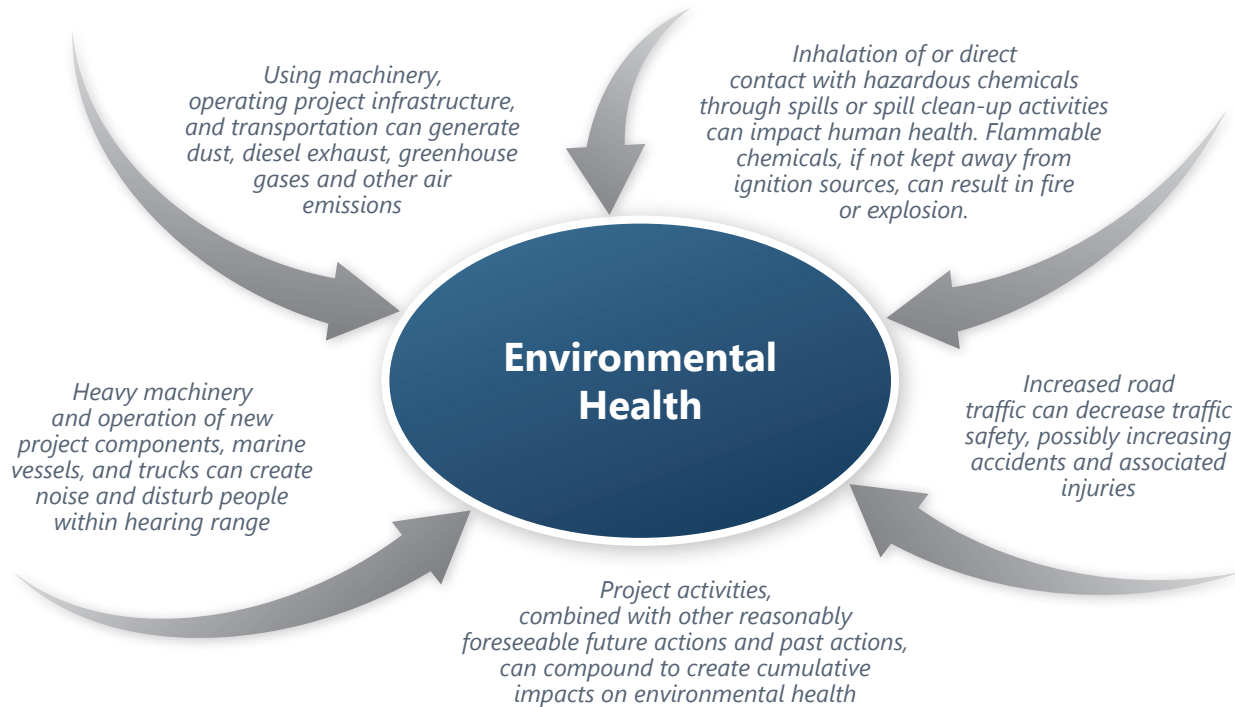
## ENVIRONMENTAL HEALTH FACT SHEET

### Introduction

The EIS considered if the proposed project could create environmental conditions with the potential to impact human health in nearby communities. The EIS also studied how significant potential changes could be.

### What was studied?

The EIS looked specifically at the potential for human health concerns to arise due to exposure to air emissions, spills, vehicle traffic, and noise associated with project construction and operations.



### How were impacts analyzed?

The EIS describes current environmental health conditions using data from Washington Department of Ecology, US Environmental Protection Agency, Health Effects Institute, American Cancer Society, Agency for Toxic Substances and Disease Registry, International Agency for Research on Cancer, National Cancer Institute, Washington State Department of Transportation, County Road Administration Board, Samish Indian Nation, and others. The EIS considers the way that project construction and operations, including marine vessel traffic and unplanned events, could impact those current conditions.

*This Fact Sheet does not represent the full scope of assessment included in the EIS. For more information on resources and impacts considered, see Chapter 9, Environmental Health.*

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### What are the potential impacts?

Under State environmental regulations, a “significant” impact is defined as something that has “a reasonable likelihood of a more than moderate impact on environmental quality.” Chapter 9, Environmental Health defines what a less than significant or significant impact rating means for environmental health. Impacts as a result of project activities are generally **less than significant**. No significant cumulative impacts on environmental health were identified.

In the unlikely case of a worst-case or maximum most probable scenario marine spill of xylenes or reformate, human health effects are rated **potentially significant**, but have a **low likelihood** of occurring. A spill is an unplanned event which could conceivably occur as a result of project activities, but is unlikely to happen. For unplanned events that were potentially significant, the EIS evaluated how likely the event was by looking at historical data on past spill events and the safety measures in place to prevent spills.

Potentially significant spill impacts would last for a short time period (2 to 3 days) and affect a limited area until the chemicals evaporate and break down into harmless components (carbon dioxide and water). Until they evaporate, there is a risk of fire and health impacts from inhaling the chemicals. Spill response would include taking steps to notify people and vessels in downwind areas of the potential hazards, short-term evacuations (if warranted) for the downwind general public and vessel crew, and placement of sorbent booms if needed to protect sensitive marine or shoreline areas. Due to flammability, spill response does not use controlled burning. Spill response also does not use chemical dispersants as the materials evaporate quickly.

<i>Description of Potential Impact</i>	<i>Impact Level:</i>	<b>Less than Significant</b>	<b>Potentially Significant</b>
<b>Construction and Operations</b>			
Health effects due to dust generated during construction, and air emissions from use of project equipment, vehicles and marine vessels		●	
Impacts on noise sensitive areas due to noise from construction or operations, including marine vessel traffic		●	
Increased risk of traffic accidents due to vehicle increases during construction and operations		●	
<b>Unplanned Events</b>			
Health effects due to a spill, fire or explosion at the refinery, or a spill on public roads used to transport materials		●	
Health impacts from inhaling xylenes or reformate spilled into the marine environment in the vessel transport route or at the refinery wharf		● <small>(Average Most Probable Spill)</small>	● <small>(Worst-Case or Maximum Most Probable Spill - low to negligible likelihood of occurring)</small>
Impacts on spill event responders’ health and public health due to spill response (including chemical exposure, traffic safety and noise)		●	

### What is being proposed to minimize the impacts?

The proposed project includes the following best management practices for minimizing impacts to environmental health. Some of the measures listed in the EIS include:

- Continue to implement Tesoro’s existing procedures for safe handling, transport, and storage of hazardous materials following federal and state regulations
- Continue to implement spill prevention, mitigation and response plans at the refinery, which include procedures and established resources for emergency response and spill clean-up
- Ensure new tank and chemical storage infrastructure has detection and containment features
- Use existing refinery grounds for project construction and operation, to limit air emissions, noise and visual impacts beyond the refinery site
- Install equipment to control air emissions
- Use truck-only roads and nighttime transport of some equipment to prevent disruptions to local traffic and minimize traffic safety impacts

Some of the safety measures in place to prevent a marine spill and minimize impacts if one should occur include:

- Continue to implement current safety measures to prevent vessel collisions and spills at the refinery dock
- Regularly update Tesoro’s Oil Spill Contingency Plan and Spill Prevention, Control, and Countermeasures Plan required by federal and state regulations to help prevent a spill from occurring and to respond quickly and effectively in the event a spill does occur
- Rely on the US Coast Guard and other regulatory bodies to ensure safe vessel piloting, proper storage hold construction, and on-board spill prevention measures in transporting xylenes and reformate