Unocal Edmonds Bulk Fuel Terminal Years of Operation: 1923 to 1991 Brieß.

Par Anna



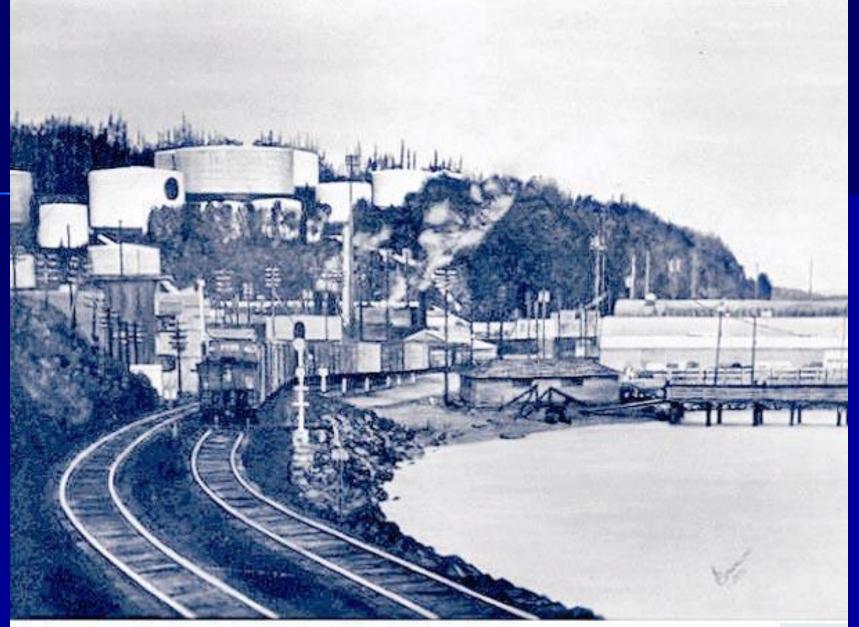


Photo courtesy of the Edmonds South Snohomish County Historical Society Union oil docks.

131.11



Photo courtesy of the Edmonds South Snohomish County Historical Society Union oil - photo from Doyle Gudget.

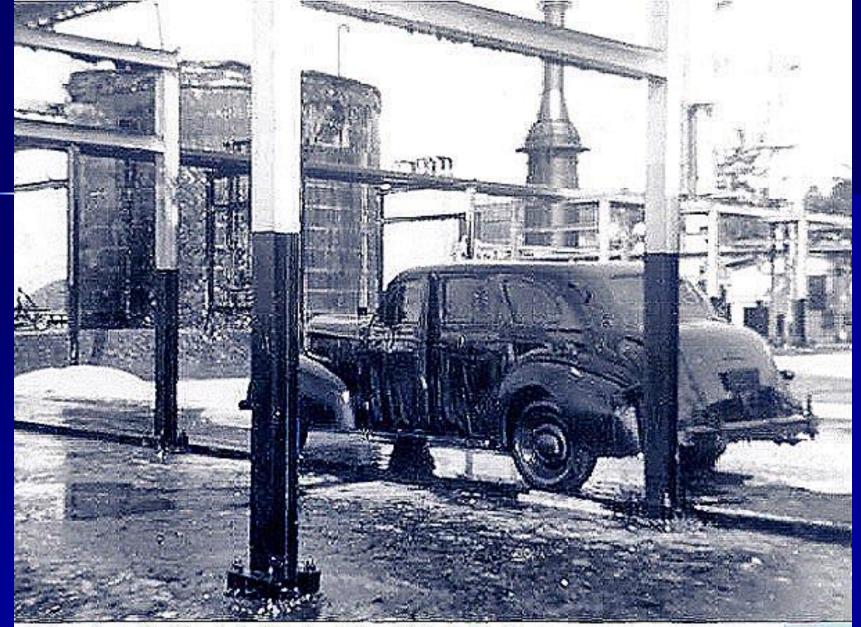


Photo courtesy of the Edmonds South Snohomish County Historical Society

Tanks occassionally erupted or "boiled ober". In this you can see the result of parking your car too close to a tank - a nice asphalt coating.

131.43e



Ecology and Unocal/Chevron have worked with several stakeholder groups over the years to investigate and clean up the site.

- Unocal/ChevronCity of Edmonds
 - Washington State Ferries
 - Edmonds Citizen's Awareness Committee
 - Port of Edmonds
 - Washington Department of Fish and Wildlife
 - Washington Department of Ecology

Interim Actions were conducted between 2001 and 2008

Cleanup of the Upper Yard





The bulk tanks were cut up and trucked to the scrap yard











Upper Yard After Tank Removal



Contaminated soil was removed from the upper yard

SE

February 2007



Cleanup of the Lower Yard

Oil was removed from the groundwater table



Contaminated Soil was excavated ...



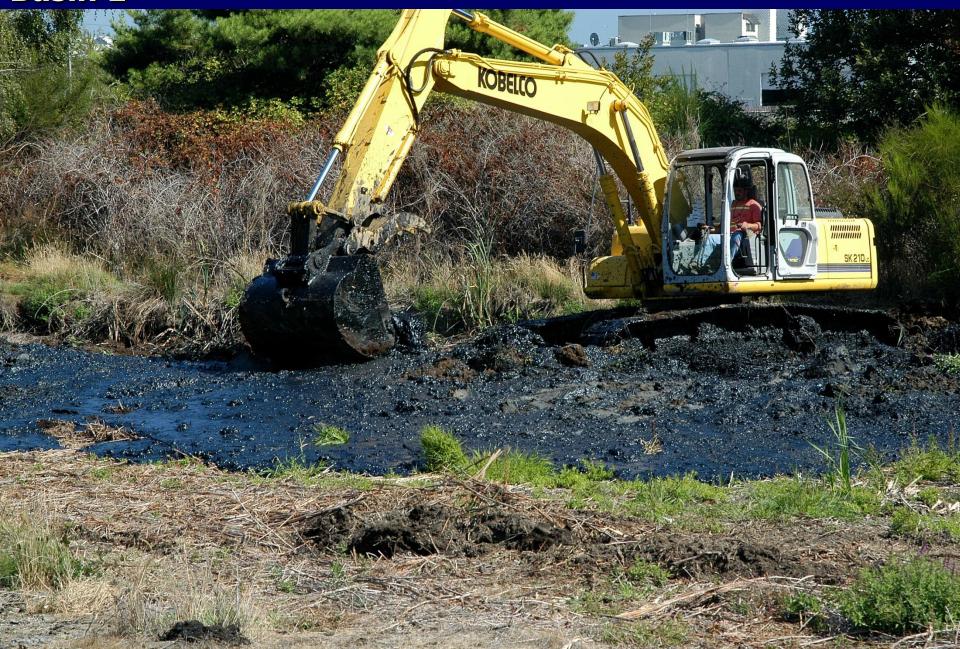
... stockpiled and sent off site.



Excavations were backfilled.



Off-specification asphalt was removed from Detention Basin 1



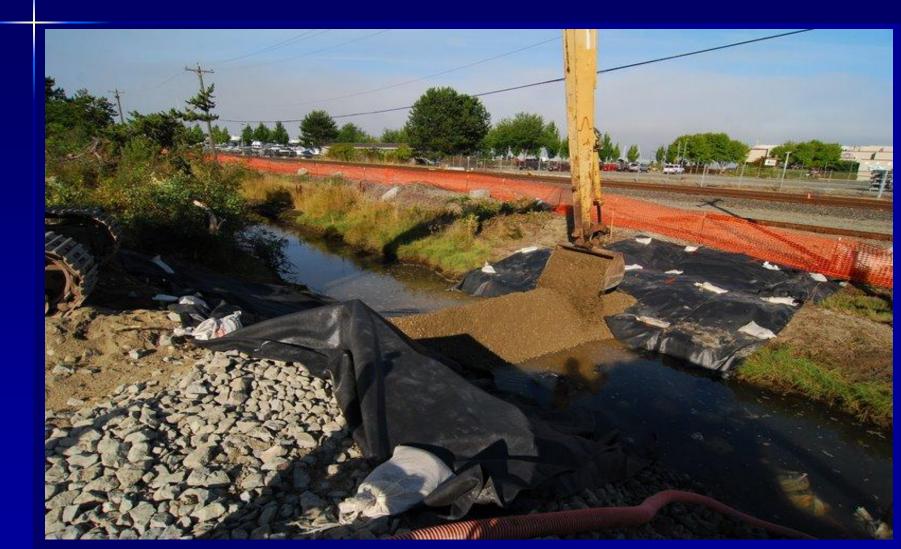
Samples were collected to confirm the contamination was removed to required concentrations

Stakes show sample locations



Sediments in Willow Creek were sampled and sediment excavated where necessary

Coffer dams were built for the sediment cleanup ...



Fish were relocated to Edmonds Marsh...



Sediment was removed...



And the creek was restored.

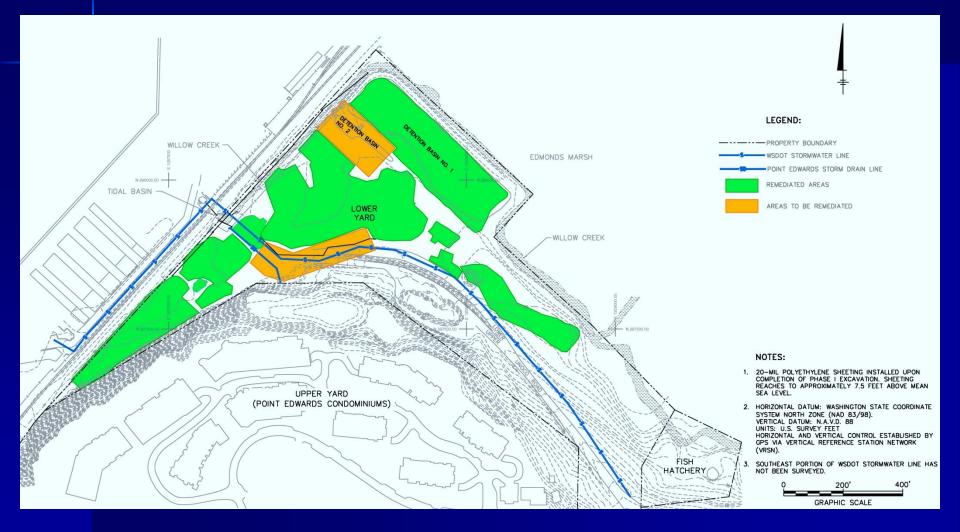


Water Treatment Plant

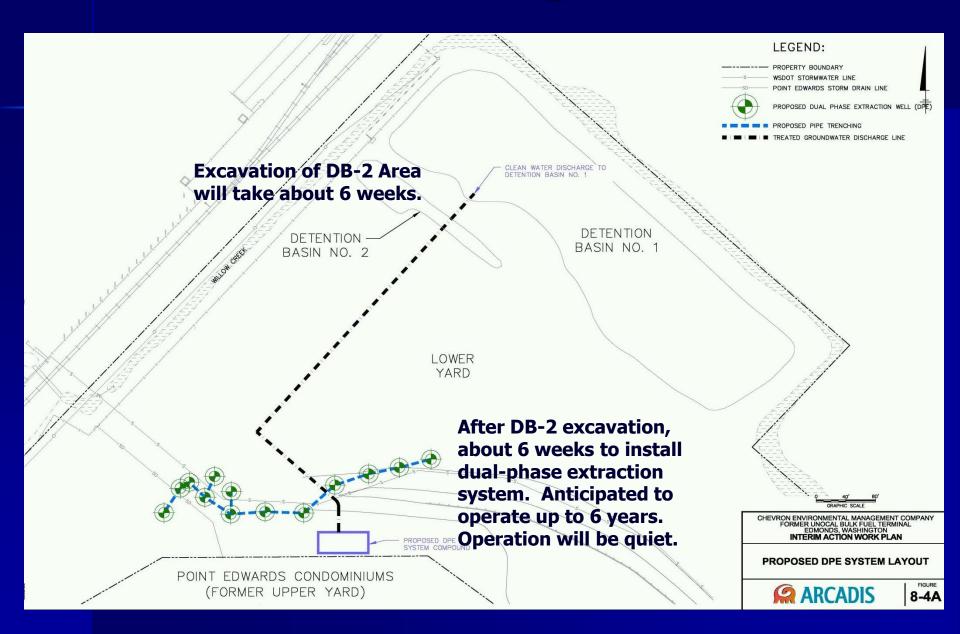


Over 5 Million gallons of groundwater treated and discharged below permit limits

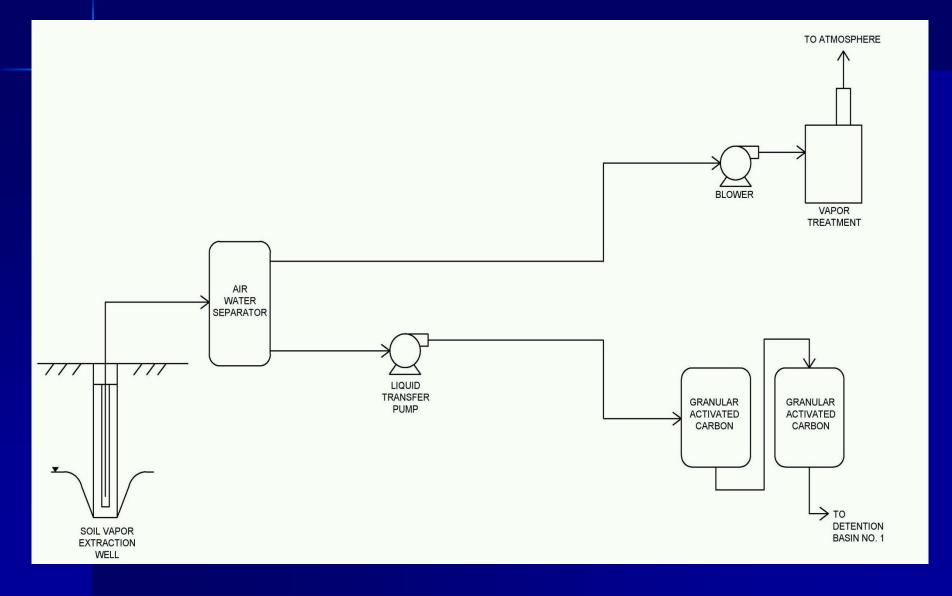
Now – just two areas left



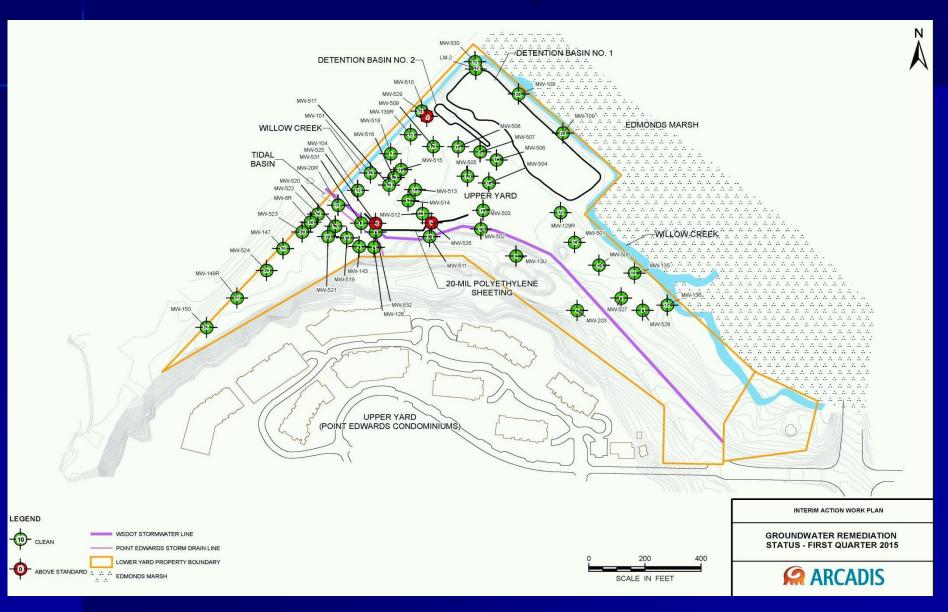
Construction to begin June 2016



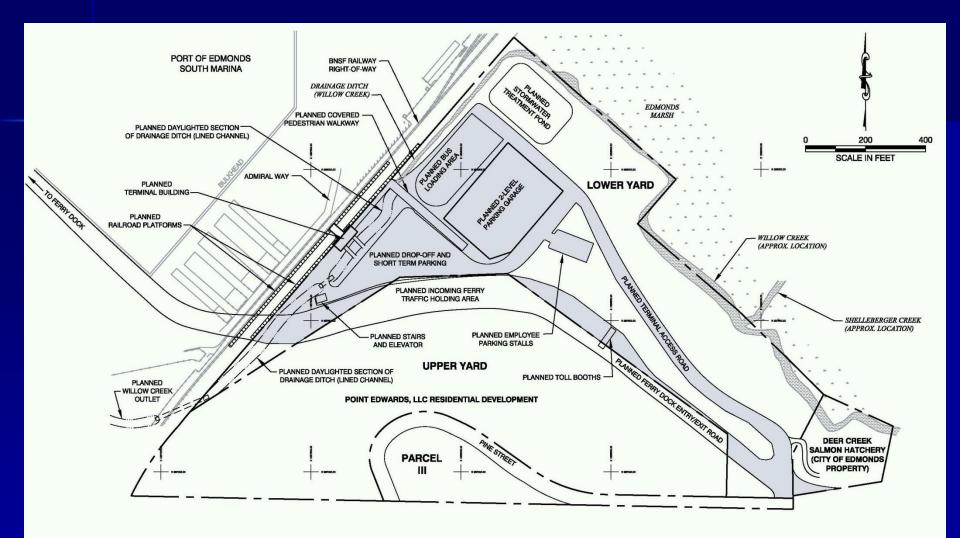
Dual-Phase Extraction System



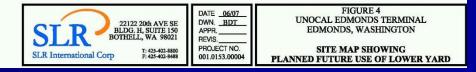
Groundwater is clean except in the two areas



Potential future use could be a new ferry terminal



LEGEND:
PROPERTY BOUNDARIES
EXISTING FEATURES
PLANNED FEATURES
APPROXIMATE AREA OF PLANNED SITE
REDEVELOPMENT WITHIN LOWER YARD



What is being issued for public comment?

- Interim Action Work Plan
 - Excavate contaminated soil in the area of Detention Basin 2.
 - Install and operate a dual-phase extraction system to clean up contaminated soil and groundwater near the WSDOT storm drain.
- State Environmental Policy Act (SEPA) Checklist and Determination of Nonsignificance (EIS not required).

Staying Informed

- Informational signs in the vicinity of the site
- Websites web search Unocal Edmonds or see Fact Sheet for web address
 - Unocal web site
 - Ecology web site (documents)
- Other public outreach, depending on interest (mailings at key points in the cleanup, public presentations if requested)

Questions about the cleanup

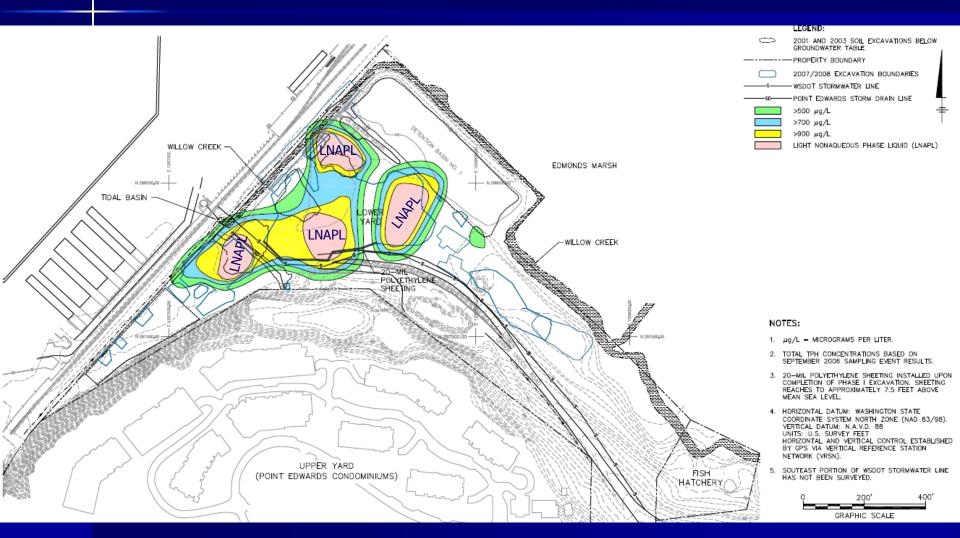


Reserve Slides

Soil Vapor Sampling



Before remediation



After remediation

