



United States Environmental Protection Agency  
Region 10 Emergency Response Unit  
**POLLUTION REPORT**

**I. HEADING**

Date: July 10, 2000  
Subject: CleanCare Removal Site (CleanCare), Tacoma, Washington  
From: Michael Szerlog, OSC, USEPA, Region 10, Emergency Response Unit  
Tel: Office (206) 553-0279  
TO: See Distribution List on last page

**POLREP No. 30 (Progress)**

**II. BACKGROUND**

Site ID: SSID # 106W  
Delivery Order No: 081-10 -02  
Response Authority: CERCLA,  
CERCLIS No: WASFN1002182  
NPL Status: Not Listed (former RCRA site within  
Commencement Bay Superfund site)  
State Notification: Washington State Department of Ecology referred  
site to EPA  
Action Memo Status: Signed on December 17, 1999 and January 7, 2000  
Removal Start Date: December 17, 1999  
Expected Completion Date: March 17, 2001  
Site Web Page: [www.epa.gov/r10earth](http://www.epa.gov/r10earth), click Index, click C for  
CleanCare. or use URL:  
[http://yosemite.epa.gov/r10/cleanup.nsf/  
sites/CleanCare](http://yosemite.epa.gov/r10/cleanup.nsf/sites/CleanCare)

**III. SITE INFORMATION**

**A. Incident Category**

This is a time-critical removal action at an inactive waste management facility.

**B.**     **Site Description**

**1.**     **Site Location**

The CleanCare site is located at 1510 Taylor Way in Pierce County, City of Tacoma, Washington at Township 21, Range 3 E. in Section 26. The site comprises approximately 4.2 acres latitude 47° 16' 25" North and longitude 122° 23' 32" West. The site is located in the "Tacoma Tideflats" area about three miles northeast of downtown Tacoma. The site is owned by David Bromley of Bromley-Marr ECOS Inc.

The CleanCare site was an interim status treatment, storage, disposal, and recycling (TSD) facility for off-site generated hazardous and non-hazardous wastes - one of a handful of commercial TSDs operating in the state of Washington. When the facility was in operation its major function was to solidify oily sludge wastes originating from catch basins, sumps, and storm drains; recycle waste oils, antifreeze, and spent solvents; and crush used oil filters for off-site recycling by other facilities.

The CleanCare facility has four separate tank farms (Tank Farm (TF)-1, TF-2, TF-3, and TF-4), two hazardous/dangerous waste container storage pads (container storage (CS) CS-4A and CS-4B), and a processing area where the distillation of solvent, oil, and antifreeze used to occur.

**IV.**    **Response Information**

**A.**     **Situation**

**1.**     **Current Situation**

July 1 to July 4,2000 (Saturday through Tuesday)

No site activity due to observance of Independence Day

July 5,2000 (Wednesday)

Personnel on site: 2 START, 6 ERRS, 1 USCG, 1 EPA

Weather: Clear, warm, 60 to 70 F

All site personnel attended daily safety meeting and discussed site safety/planned activities. START prepared and sent a discharge request to the City of Tacoma Sewer Utility Operations Division, prepared daily

activities summary, developed cost documentation reviewed Polrep, investigated cap design options, investigated surface water management options and continued development of the formal report. USCG continued routine air monitoring throughout the site, (air monitoring data was below the onsite action level along the perimeter), ensured that unauthorized personnel were not allowed on site and that all personnel entering the site were properly checked in with required safety equipment, conducted site safety, conducted air monitoring in tanks 22 and 23 of tank farm#3 prior to entry and recorded PID readings over action level indicating the need for level B entry, monitored air in and around tanks 22 and 23 while personnel were in the area. ERRS prepared tanks for pumping operations, continue lab packing, solidified NON-RCRA sludge, pumped 14,326 gallons of oily water to Emerald to go to EPS, continued decon of paved areas, shipped 21 sodium hydroxide drums and 12 hydrogen peroxide drums to PSC going to Kent, and loaded crushed drums into a drop box.

#### July 6, 2000 (Thursday)

Personnel on site: 2 START, 8 ERRS, 1 USCG, 0 EPA

Weather: partly cloudy in AM, sunny and warm in PM 60-75F

All site personnel attended daily safety meeting and discussed site safety/planned activities. START sent Polrep 29, continued surface water and cap design investigation, reviewed the turbo oil system for disposal purposes and determined dimensions of potential capping locations. USCG continued routine air monitoring throughout the site, (air monitoring data was below the onsite action level along the perimeter), ensured that unauthorized personnel were not allowed on site and that all personnel entering the site were properly checked in with required safety equipment, conducted site safety. Monitored air in and around tank 23 of tank farm three and recorded PID readings over action level indicating the need for a level B entry, monitored area for an hour while one ERRS worker was inside removing sludge. ERRS prepared tanks for pumping operations, finished lab packing, solidified NON-RCRA sludge, pumped 8928 gallons of waste oil to Emerald to go to Sol-Pro, steam cleaned parts of Bldg 5 and loading dock, shipped 13.6 tons of scrap pallet to Recovery One for hog fuel value, cleaned two tanks in TF3, and discharged 20,000 gallons of water.

#### July 7, 2000 (Friday)

Personnel on site: 1 START, 8 ERRS, 2 USCG, 0 EPA

Weather: clear, warm, breezy

All site personnel attended daily safety meeting and discussed site safety/planned activities. START continued the development of soil sampling/screening plan, oversaw the removal of turbo oil from the waste oil treatment system, and reviewed AST demolition work plans

and safety plans submitted by EQM and Accord. USCG continued routine air monitoring throughout the site, (air monitoring data was below the onsite action level along the perimeter), ensured that unauthorized personnel were not allowed on site and that all personnel entering the site were properly checked in with required safety equipment, conducted site safety and performed air monitoring for level B entries into tanks 23, 25 and 18 in TF3. ERRS continued to clean tanks in tank farm 3, decontaminate building 5, removed 1,441 gallons of turbo oil to Emerald Services, processed (crushed) empty drums for Philips Services, processed 175 empty drums and lids to be reused by SBC, decontaminated all pipes associated with TF1, and continued to process wastewater.

## **2. Removal Actions to Date**

On January 7, 2000, the Action Memorandum to increase site ceiling, to ask for a \$2 million exemption, a 12-month exemption, and a change of scope was signed. A purchase request was also signed and ERRS was funded, incrementally, to begin removal activities.

The City (City of Tacoma Public Works) continues to provide assistance with discharge of treated waste water.

RCRA Drums: Finished segregation and inventory of all non oil filter drums known to be located on the site (formerly referred to as RCRA drums). Selected generators have removed a total of 570 drums and 12 totes of waste. Remaining drums undergoing segregation and bulking with similar waste streams prior to disposal. Approximately 700 empty RCRA drums were removed from the site by Emerald Services.

Oil Sludge Drums: Sludges from miscellaneous drums are being bulked and solidified on site and then transferred by Waste Management to Arlington Landfill.

Antifreeze Drums: Bulked with material from Tank 25 and transported from site by Ecco to Kennewick for recycling.

Solvent Drums: All solvent drums have been disposed of under contract with Safety Kleen.

RCRA Debris: Drums and debris are being solidified and disposed under contract with Philip Services.

Baker Tanks® - A total of 9 Baker Tanks are currently on site. Baker Tanks are being used to stock bulked materials, store treatment system waters, and store material from tank farms prior to disposal.

Surface Water - Continued treating site surface water and decontamination water with the temporary waste water treatment system. Treated and discharged of 21 batches to date (approximately 420,000 gallons total) of waste water to the City of Tacoma Sanitary Sewer System. Two batches (approximately 40,000 gallons) did not meet the pretreatment requirements established by the city and were disposed off site.

ASTs -All tanks in Tank Farms 1 & 2 are empty of fluids, having been removed and transported by Emerald Services, Solpro, Prime Environmental, Chemical Waste Management (specifics tabulated in section VI). Tank sludges are in the process of being solidified and subsequently transported by Chemical Waste Management to Arlington landfill for final disposition. . The oil and sludge from Tank 33 were solidified with other project oil sludges. Tank 34 water has been treated and disposed to the City of Tacoma Sanitary Sewer. Tank Farm 3 material is being transported by Emerald (oily water) and Prime (dry oil). Tank Farm 4 material is being hauled by Onyx for disposal in Utah.

Soil - An evaluation of soil treatment/disposal options is under review. To date, 14 soil samples were collected during the assessment phase to characterize site soils. Investigated screening and soil sampling options.

### **3. Enforcement**

The Region currently has some information regarding potential responsible parties (PRPs) at the site. Relevant facility files and documentation have been transported to a secured federal building. EPA intends to gather additional PRP information during the removal action.

## **B. Planned Removal Activities**

To minimize/eliminate the threat to human health and the environment posed by the wastes on the site, the following removal activities are planned:

Drums: continued organization of drums and documents (manifests & profile analysis), hazard categorization and disposal tests, bulking and removal of containers from the site.

Baker Tanks®: The decontamination water from some tanks will continue to be treated on site and discharged. Emptied tanks that have no further use on site will be returned to the rental company.

Surface Water: management of surface water as it collects onsite (including sampling, treatment, and discharge), and treatment of AST water that meets the treatment criteria.

ASTs: Continue removal activities of material from Tank Farm 3 and 4.

Miscellaneous Containers: All material from miscellaneous vessels has been bulked in appropriate waste streams for disposal. Vessels have been staged on-site away from work areas.

## **C. Next Steps**

EPA, ERRS, START, and the USCG Strike Team will continue managing onsite surface water. Continued data management including data for all remaining drums as well as analytical data for materials stored in the ASTs. Continued treatment and discharge of contact and non-contact surface water. Transfer material from Tank Farms 3 and 4 for disposal off site. Continue to solidify sludges for disposal at Arlington Landfill. Continue to bulk material in Baker Tanks® and decontaminate tanks after material is disposed of, prepare and load PRM drums for Philips to transport. Prepare for the demolition and decontamination of tanks in Tank Farm 1. Prepare for the construction of a cap and the development of surface water management plan.

## **D. Key Issues**

Security: Off Duty City of Tacoma Police continue with site security.

Management of site surface water: Contact surface water (that which falls within the secondary containment structures) and non-contact water has been either treated on site or disposed off site. On site water treatment is performed in 20,000 gallon batches. Each batch is sampled, laboratory results are submitted to the City of Tacoma, and, with the City's approval, each batch is discharged to the Sanitary Sewer System. Previously, some surface water was also disposed off site. Performing both tasks simultaneously reduced the length of time required to accomplish this task, reduced the associated costs, such as Baker Tank<sup>®</sup> rental fees, and removed the threat of a release. Currently, managing the surface waters with the temporary on site treatment system is sufficient.

Drum Container Waste: All 64 of the original generators that were given the opportunity to dispose of their wastes have done so. A total of 582 containers of waste were removed from the site by these generators, saving the EPA disposal costs. Other containers of waste are haz-catted, staged with similar compatible wastes, bulked and disposed as appropriate.

On-site facility files: Approximately eight hundred boxes of facility files and documents were transported to a secured federal facility.

## **I. Cost Information**

Estimated costs are summarized below:

	Established Ceiling	Estimated Costs as of date listed, percent of budget expended
EPA	\$ 300,000	\$ 158,263 (7/7) 52.8%
START	\$ 676,500	\$ 523,799 (7/7) 77.4%
ERRS*	\$ 3,000,000	\$ 2,569,695 (7/05) 85.7%

Coast Guard	\$ 100,000	\$ 114,547 (7/07) 114.5%
Total	\$ 4,076,500	\$ 3,366,297 82.6%

\* reflects ceiling increase of \$400,000 for the ERRS contractor.

Note: The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

Waste Stream	Medium	Quantity	Containment-Migration Control	Treatment	Disposal
Used Oil Filters	solid and solidified waste	270 cu yd	placed liners in reliefs	removed oil filters from 55 gallon drums and consolidated in reliefs	Waste Management delivered to Olympic View Sanitary Landfill
Used Oil Filter Drums	solid waste	170 cu yd	placed liners in reliefs	crushed drums with an excavator to reduce volume	Phillips Services Corp. Delivered to Birmingham Steel for recycling.
Used RCRA Drums	solid waste	164 cu yd	placed liners in reliefs	crushed drums with an excavator to reduce volume	Phillips Services Corp. Delivered to Columbia Ridge Landfill.
	Solid waste	875 Drums	placed liners in reliefs	Hauled from site to be decontaminated	Emerald transferred from site to be decontaminated and reused
Generator Drums	sludge and liquids	570 drums and 12 totes	NA	generators contracted with TSDs to properly manage their waste	Brought to various disposal companies
Oily Debris	solidified waste	20 cu yd	placed liners in reliefs	consolidated in reliefs	Phillips Services Corp. delivered to Olympic View Sanitary Landfill
Contact Rain Water	liquid	349,708 gal	contained in Baker Tanks®	Emerald Petroleum Services's (EPS) water treatment plant	EPS treated and transported to City of Seattle Sanitary Sewer
Contact Rain Water	liquid	123,400 gal	contained in Baker Tanks®	Phillips Services Corp. water treatment plant	Phillips Services Corp. treated and transported to City of Tacoma Sanitary Sewer
Contact Rain Water	liquid	420,000 gal	contained in Baker Tanks®	treated on site with temporary waste water treatment system	to City of Tacoma Sanitary Sewer
Baker Tanks®	solid	Tank	NA	pressure washed, and wiped down	returned to Vendor (Baker Tanks®, Inc.)
Tip Trailers	solid	13 trailers	NA	transported off site to make room for other activities	temporarily stored at the Phillips Services Corp. facility adjacent to the site

Waste Stream	Medium	Quantity	Containment-Migration Control	Treatment	Disposal
Oil From Drums	liquid	142 drums + 4 totes	6,900 gallon poly tank on site	Transported off site for disposal	Removed by Emerald Petroleum with material from Tank 1
Antifreeze from Drums	liquid	65 drums	Bulked into Baker Tank® # 18	transported by Spencer	Delivered to Onyx for recycling
Tank Farm 1 Oily Water	liquid	21,100 gal	Bulked into Baker Tank® #10	transportation to be determined	to be determined
Solidified oil sludge	solid	654,000 lbs	in sludge pits	Transported from site	Waste Management transported to Arlington landfill
Tank 1 Layer 1	liquid	73,225 gal	Transferred to Vac Truck	transported by EPS	Delivered to EPS for recycling
Pallets	solid	24.1 tons	stacked in back lot	Transported from site	Burned off site by Recovery One
Tank 1 Layer 2	liquid	34,437 gal	Transferred to Vac Truck	transported by Phillips Services Corp.	Delivered to Phillips Services Corp for recycling
Tank 1 Layer 3	liquid	168,269 gal	Transferred to Vac Truck (74,169 gal) Transferred to Baker Tank® for temporary storage (20,000)	transported by Waste Management	Delivered to Waste Management facility in Arlington, OR for solidification and disposal
Tank 1 Layer 4	liquid	155,904 gal	Transferred to Vac Truck	transported by Emerald	Delivered to Emerald facility in Seattle for recycling
A-Fuel/Solvent from Drums	liquid	24,000 gal	Bulked into Baker Tank® #9	10,000 gallons transported off site by Safety Kleen	Delivered to Araganite facility in Utah for recycling
Glycol From Drums	liquid	5,000 gal	Bulked into Baker Tank® #18	transportation to be determined	to be determined
PRM Drums	Solid Waste	80 55-gallon drums	Transferred to Phillips	Transferred by Phillips Services Corp.	Delivered to Phillips Services Corp for recycling
Tank-30 Wastewater	liquid	10,371 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for treatment

Tank 5	liquid	44,165 gal	Transferred to Vac Truck	Transferred by Solpro/Prime	Delivered to Solpro/Prime for disposal
Tank 4	liquid	105,074 gal	Transferred to Vac Truck	Transferred by Solpro	Delivered to Solpro for disposal
Tank 5	oily water	24,500 gal	Transferred to Vac Truck	Transferred by Prime	Delivered to Prime for disposal
Tank Farm 2	liquid	62,724	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank Farm 2	oily water	48,239 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank 3	Liquid	112,705 gal	Transferred to Vac Truck	Transferred by Solpro	Delivered to Solpro for disposal
Tank 21	Liquid Diesel	4,150 gal	Transferred to Vac Truck	Transferred by Safety Clean	Transported to Anacortes for recycling
Tank Farm 2	liquid	62,724	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank Farm 2	oily water	48,239 gal	Transferred to Vac Truck	Transferred by Emerald	Delivered to Emerald for disposal
Tank 3	Liquid	112,705 gal	Transferred to Vac Truck	Transferred by Solpro	Delivered to Solpro for disposal
Tank 21	Liquid Diesel	4,150 gal	Transferred to Vac Truck	Transferred by Safety Clean	Transported to Anacortes for recycling
Vendor Drum	Product Drums	8 55-gallon drums	Transferred to VanWaters & Rodgers	Transferred by VanWaters and Rodgers	Transported for resale or use
Tank 5 Layer 2	liquid	9,789 gal	Transferred to Vac Truck	Transported by Emerald	Delivered to Emerald for recycling
Tank 25	Liquid Glycol	8,000 gal	Transferred to Vac Truck	Transported by Ecco	Delivered to Kennewick for recycling
Tank Farm 3 Tank 18	Oil/Water	22,500 gal	Transferred to Vac Truck	Transported by Prime	Delivered to Prime for disposal
Tank Farm 3 Tank 19	Oil/Water	22,500 gal	Transferred to Vac Truck	Transported by Prime	Delivered to Prime for disposal
Tank Farm 4 Tank	Solvent Waste	10,700 gal	Transferred to Vac Truck	Transported by Onyx	Delivered to Utah for disposal

20 yard sludge boxes	solidified sludge	38,000 pounds	loaded onto truck	Transported by Waste Management	Delivered to Waste Management
Baker tank 16	empty	0	loaded onto truck	Transported by Baker Tanks	Returned to Baker Tanks
Oxidizer Drums	liquid	42 55-gallon drums	Transferred to PSC	Transferred by PSC	Delivered to Kent
Tank Farm 3 Tank 22	Oil/Water	14,326 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to EPS for disposal
Tank Farm 3 Tank 22	waste oil	8,928 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to Sol-Pro for disposal
Turbo Oil	Liquid	1,441 gallons	Transferred to Vac Truck	Transported by Emerald	Delivered to Emerald for recycling

**VII Distribution**

To: EPA Headquarters, Washington, D.C., Attention: Terry Eby  
EPA Region 10, Emergency Response Unit, Attention: Chris

Field

EPA Washington Operations Office, Attention: Thomas Eaton  
Puyallup Tribe of Indians, Tacoma, Attention: Joe Edgell  
Washington State Department of Ecology, Attention: Jim Sachet  
City of Tacoma Public Works Department, Attention: Michael

Kennedy

EPA Region 10 Web page, Attention: Beth Kunz  
EPA Region 10, Emergency Response Unit, Attention: OSCs

**VII Status**

Case Pending