

MARYSVILLE WA 98270

Geographic Information

Ecology Region: NWRO

County: Snohomish

WRIA: 7

Legislative District: 38
Congressional District: 2

Tribal Land: No

Ecology Interactions

Interaction Description	Ecology Program	Ecology Program Phone	Program ID	Start Date	End Date
State Cleanup Site	TOXICS	(360) 407-7224		2/4/1999	

Industrial Codes (External Links Below)

NAICS Code	NAICS Description	SIC Code	SIC Description
8123	Drycleaning and Laundry Services	721	LAUNDRY, CLEANING, & GARMENT SERVICE

Cleanup Site Details

Cleanup Site ID: 2817

Cleanup Site ID: 2817	Facility/Site ID: 11747135	UST ID: N/A	Site Page	Site Documents	View Map	
Cleanup Site Name: PDQ LAUNDRY ROOM					Glossary	
Alternate Names: PDQ LAUNDRY ROOM						
LOCATION						
Address: 1048 STATE AVE	City: MARYSVILLE	Zip Code: 98270	County: Snohomish			
Latitude: 48.05871	Longitude: -122.17575	WRIA: 7	Legislative District: 38	Congressional District: 2	TRS: 30N 5E 28	
DETAIL						
Status: Awaiting Cleanup	NFA Received?	No	Is PSI site?	No		
Statute: MTCA	NFA Date:	N/A	Current VCP?	No	Past VCP? No	
Site Rank: 5 - Lowest Assessed Risk	NFA Reason:	N/A	Brownfield?	No		
Site Manager: Northwest Region	Responsible Unit:	Northwest	Active Institutional Control?	No		
CLEANUP UNITS						
Cleanup Unit Name	Unit Type	Unit Status	Resp Unit	Unit Manager	Current Process	
PDQ LAUNDRY ROOM	Upland	Awaiting Cleanup	NW	Northwest Region	No Process	
ACTIVE INSTITUTIONAL CONTROLS						
Instrument Type	Restriction Media	Restrictions/Requirements	Date	Recording Number	Recording County	Tax Parcel
There are no current Institutional Controls in effect for this site.						
AFFECTED MEDIA & CONTAMINANTS						
MEDIA						
Contaminant	Soil	Groundwater	Surface Water	Sediment	Air	Bedrock
Halogenated Organics	S	C				
Key: B - Below Cleanup Level S - Suspected	C - Confirmed Above Cleanup Level R - Remediated	RA - Remediated-Above RB - Remediated-Below				
SITE ACTIVITIES						
Activity	Status	Start Date	End Date/Completion Date			
Initial Investigation / Federal Preliminary Assessment	Completed		5/6/1998			
Site Discovery/Release Report Received	Completed		5/6/1998			
Early Notice Letter(s)	Completed		7/6/1999			
Site Hazard Assessment/Federal Site Inspection	Completed	10/4/2001	10/30/2002			
Hazardous Sites Listing/NPL	Completed		10/30/2002			

CSID 2817

WORKSHEET 1 SUMMARY SCORE SHEET

Note: This document currently has no provision for sediment route scoring.

Site Name: PDQ Laundry Room

Site Location: 1048 A State Street, Marysville, Washington

County: Snohomish Section: 28 Township 30 Range 05

Ecology Facility Site ID: 11747135

Score Sheet for Site Register listing of February 26, 2002.

Site Description (Include management areas, compounds of concern, and quantities):

The PDQ Laundry Room site is located at 1048 A State Street in Marysville. It is situated in a commercial setting on the south end of State Avenue between 10th Street and Grove Street. The property consists of a one-story building that is served by public sewer, water and power. The building covers an area of approximately 16,950 square feet. The property is completely paved with parking spaces on the west side of the building. There is a storm water drain behind the building.

The property is zoned B for general commercial. PDQ Laundry Room is located in the south end of the building. Other businesses in the complex include Gold's Gym, Jesus is Lord Life Tabernacle, and Anna's Family Flowers. To the south of the property are businesses and residential homes and to the north is Strawberry Lanes. East of property is a proposed skateboard park.

Assessor's records show that in February 3, 1969 there was dry cleaning operation in the back of the coin-operated laundry. Partitions were added to form two offices, equipment room, and a dry cleaning section. The dry cleaning operation is no longer part of the laundry facility.

On October 27, 1997 Pinnacle GeoSciences completed the groundwater monitoring report for Time Oil Co. The Time Oil Co. property is located at 1034 State Avenue, which is adjacent and southwest of PDQ Laundry. Jackpot Food Mart and Arco Service Station are situated on Time Oil Co. property.

According to the report, groundwater samples from the Time Oil Co. Property were collected and analyzed since July 1992. It was reported that groundwater flow is southwest. Groundwater data revealed that the monitoring wells on Time Oil property are downgradient from the laundry facility. Furthermore, a Ground Water Surface Elevation Contour Map indicates that the contaminated monitoring wells are upgradient from the gas station. Therefore, it is suggested that the contamination may be coming from PDQ Laundry Room.

Groundwater data show elevated levels of tetrachloroethylene and trichloroethylene above the Model Toxics Control Act (MTCA) Method A groundwater cleanup standards. In addition, analytical results from MW-6 indicate the presence of TPH-gasoline in concentrations above the MTCA cleanup levels.

An Initial Investigation was conducted by the Snohomish Health District on May 6, 1998. The site was listed on Ecology's Confirmed and Suspected Contaminated Sites List on July 6, 1999. The listing was for confirmed groundwater contamination and suspected soil

contamination by halogenated organic compounds. The Early Notice Letter was sent on July 6, 1999, and a letter regarding site hazard assessment was sent on October 4, 2001.

Compounds of Concern and sample results:

Compound	Result	MTCA cleanup standard
(cis) 1,2-Dichloroethylene	2.90 - 40.6 ug/l	80 ug/l*
Trichloroethylene	12.0 - 74.3 ug/l	5.0 ug/l
Tetrachloroethylene	5.06 - 222 ug/l	5.0 ug/l

*Based on the Model Toxics Control Act (MTCA) Method B Cleanup Level.

Special consideration (Include limitations in site file data or data which cannot be accommodated in the model, but which are important in evaluating the risk associated with the site, or any other factor(s) over-riding a decision of no further action for the site):

The site is covered by pavement and there is significant amount of subsurface soil contamination. Therefore, air and surface water routes were not scored.

PATHWAY SCORES:

Air/Human Health: **NA**

Air/Environmental: **NA**

Surface Water/Human Health: **NA**

Surface Water/Environment: **NA**

Groundwater/Human Health: **28.60**

OVERALL RANK: 5

**WORKSHEET 2
ROUTE DOCUMENTATION**

1. SURFACE WATER ROUTE

Not Scored

List substance to be considered for scoring.

Explain basis for choice of substance(s) to be used in scoring.

List the management units to be considered in scoring.

Explain basis for choice of unit used in scoring.

2. AIR ROUTE

Not Scored

List substance to be considered for scoring.

Explain basis for choice of substance(s) to be used in scoring.

List the management units to be considered in scoring.

Explain basis for choice of unit used in scoring.

3. GROUND WATER ROUTE

Source: 1.2

List substance(s) to be considered for scoring.

Tetrachloroethylene, Trichloroethylene, (cis) 1,2-Dichloroethylene, TPH-Gasoline

Explain basis for choice of substance(s) to be used in scoring.

TPH-gasoline could be considered, but halogenated organic compounds were used because they are associated with past dry cleaning practices at the site. Groundwater samples were collected and sample results confirmed contamination.

List the management units to be considered in scoring.

Contaminated groundwater/subsurface soil (capped – scored as a landfill).

Explain basis for choice of unit used in scoring.

The subsurface soil is contaminated, and groundwater sampling results confirm contamination of trichloroethylene and tetrachloroethylene above MTCA Method A groundwater cleanup standards.

PDQ Scoring

WORKSHEET 6
GROUND WATER ROUTE

1.0 SUBSTANCE CHARACTERISTICS

1.1 Human Toxicity

Substance	Drinking Water Standard	Val.	Acute Toxicity (mg/kg-bw)	Val.	Chronic Toxicity (mg/kg/day)	Carcinogenicity		
	(ug/l)					Val.	WOE	PF
Tetrachloroethylene	5	8	800	5	0.01	3	B2	0.051
Trichloroethylene	5	8	2402	3	ND	x	B2	0.011
(cis) 1,2-Dichloroethylene	70	6	ND	x	0.01	3	ND	ND

Source: 1,2,3,4

Highest Value: 8

2 Bonus Points? 2

Final Toxicity Value: 10

1.2 Mobility (Use numbers to refer to above listed substances)

Source: 1,2,3,4 Value: 3

Cations/Anions

OR

Solubility (mg/l)	Tetrachloroethylene	1.50E+02 = 2
	Trichloroethylene	1.10E+03 = 3
	(cis) 1,2-Dichloroethylene	3.50E+03 = 3

1.3 Substance Quantity

Source: 1,2,3, Value: 1

Explain basis:

Unknown quantity - default value

2.0 MIGRATION POTENTIAL

2.1 Containment	Explain basis:	no liner (3) low permeability cover (1) Paved area no leachate collection system (2)	Source: 1,2,3, Value: 6
2.2 Net Precipitation:	16.9 inches	Source: 3,5 Value: 2	
2.3 Subsurface Hydraulic Conductivity:	gravelly, fine sandy loam	Source: 3,6 Value: 4	
2.4 Vertical Depth to Ground Water:	confirmed release to groundwater	Source: 2,3 Value: 8	

PDQ Scoring

WORKSHEET 6
GROUND WATER ROUTE

3.0 TARGETS

3.1 Ground Water Usage: Private supply, but alternate sources available	Source: <u>3,8,10</u> Value: <u>4</u>
3.2 Distance to Nearest Drinking Water Well: 2,828 feet	Source: <u>3,8,10</u> Value: <u>2</u>
3.3 Population Served within 2 Miles: $101*3 = 303$, square root of 303 = 17.4	Source: <u>3,8,10</u> Value: <u>17</u>
3.4 Area Irrigated by (Groundwater) Wells within 2 miles: square root of 195 multiplied by 0.75 = 10.473	Source: <u>3,9</u> Value: <u>10</u>

4.0 RELEASE

Explain basis for scoring a release to ground water:
Confirmed release documented

Source: 1,2,3 Value: 5

Sources Used in Scoring

1. Initial Investigation, Snohomish Health District, May 6, 1998.
2. Monitoring Report Property No. 01-156 1034 State Avenue, Marysville, WA, Pinnacle GeoSciences, October 27, 1997.
3. Washington Department of Ecology, WARM Scoring Manual, April, 1992.
4. Washington Department of Ecology, Toxicology Database for Use in Washington Ranking Method Scoring, January 1992.
5. National Weather Service, Washington Climate Data, Snohomish County.
6. U.S. Department of Agriculture, Soil Survey of Snohomish County Area Washington, July 1983.
7. U.S. Geological Survey, The Ground-Water System and Ground-Water Quality in Western Snohomish County, WA, 1997.
8. Washington Department of Health, Public Water System List, April 26, 1993.
9. Washington Department of Ecology, Water Rights Information System (WRIS), November 4, 1992.
10. Washington Department of Ecology, Well Logs.
11. U.S.G.S. Topo. Map, Mukilteo Quadrangle, 7.5 Min. Series, Photorev. 1981.

PDQ Score Pathway

PATHWAY SCORING FORMULAE WITH WEIGHTING AND NORMALIZATION FACTORS

Air Route - Human Health Pathway

AIR = (SUB X 60/329) X {REL + (TAR X 35/85)} / 24 = 0.00

where AIR = Pathway score for Air-Human Health =
SUB = (Human Toxicity Value + 5) X (Containment +1) + Substance Quantity =
5
REL = Release to Air = 0
TAR = Nearest population + Population within 1/2 mile = 0

Air Route - Environmental Pathway

AIR = (SUB X 60/329) X {REL + (TAR X 35/85)} / 24 = 0.00

where AIR = Pathway score for Air-Environmental =
SUB = (Env. Toxicity Value + 5) X (Containment +1) + Substance Quantity =
5
REL = Release to Air = 0
TAR = Nearest Sensitive Environment = 0

Surface Water Route - Human Health Pathway

$$SW = (\text{SUB X } 40/175) \times \{(\text{MIG X } 25/24)\} + \text{REL} + (\text{TAR X } 30/115) \} / 24 = 0.00$$

where SW = Pathway Score for Surface Water-Human Health =
 SUB = $(\text{Human Toxicity} + 3) \times (\text{Containment} + 1) + \text{Substance Quantity} =$
3
 MIG = Soil Permeability + Annual Precip. + Rainfall Frequency +
 Floodplain + Slope = 0
 REL = Release to the Surface Water = 0
 TAR = Distance to Surface Water + Population Served by Surface Water +
 Area Irrigated = 0

PDQ Score Pathway

Table 2 (Continued)

Surface Water Route - Environmental Pathway

$$SW = (\text{SUB} \times 40/175) \times \{(\text{MIG} \times 25/24) + \text{REL} + (\text{TAR} \times 30/115)\} / 24 = \underline{\underline{0.00}}$$

where $SW =$ Pathway Score for Surface Water-Environmental =

$\text{SUB} =$ $(\text{Env. Toxicity} + 3) \times (\text{Containment} + 1) + \text{Substance Quantity} =$
3

$\text{MIG} =$ $\text{Soil Permeability} + \text{Annual Precip.} + \text{Rainfall Frequency} +$
 $\text{Floodplain} + \text{Slope} =$ 0

$\text{REL} =$ Release to the Surface Water = 0

$\text{TAR} =$ Distance to Nearest Surface Water + Distance to Fisheries
Resource + Distance to Sensitive Environment = 0

Ground Water Route - Human Health Pathway

$$GW = (\text{SUB} \times 40/208) \times \{(\text{MIG} \times 25/17) + \text{REL} + (\text{TAR} \times 30/165)\} / 24 = \underline{\underline{28.60}}$$

$GW =$ Pathway Score For Ground Water-Human Health =

$\text{SUB} =$ $(\text{Human Toxicity} + \text{Mobility} + 3) \times (\text{Containment} + 1) +$
 $\text{Substance Quantity} =$ 113

$\text{MIG} =$ $\text{Depth to Aquifer} + \text{Net Precipitation} + \text{Hydraulic Conductivity} =$
14

$\text{REL} =$ Release to the Ground Water = 5

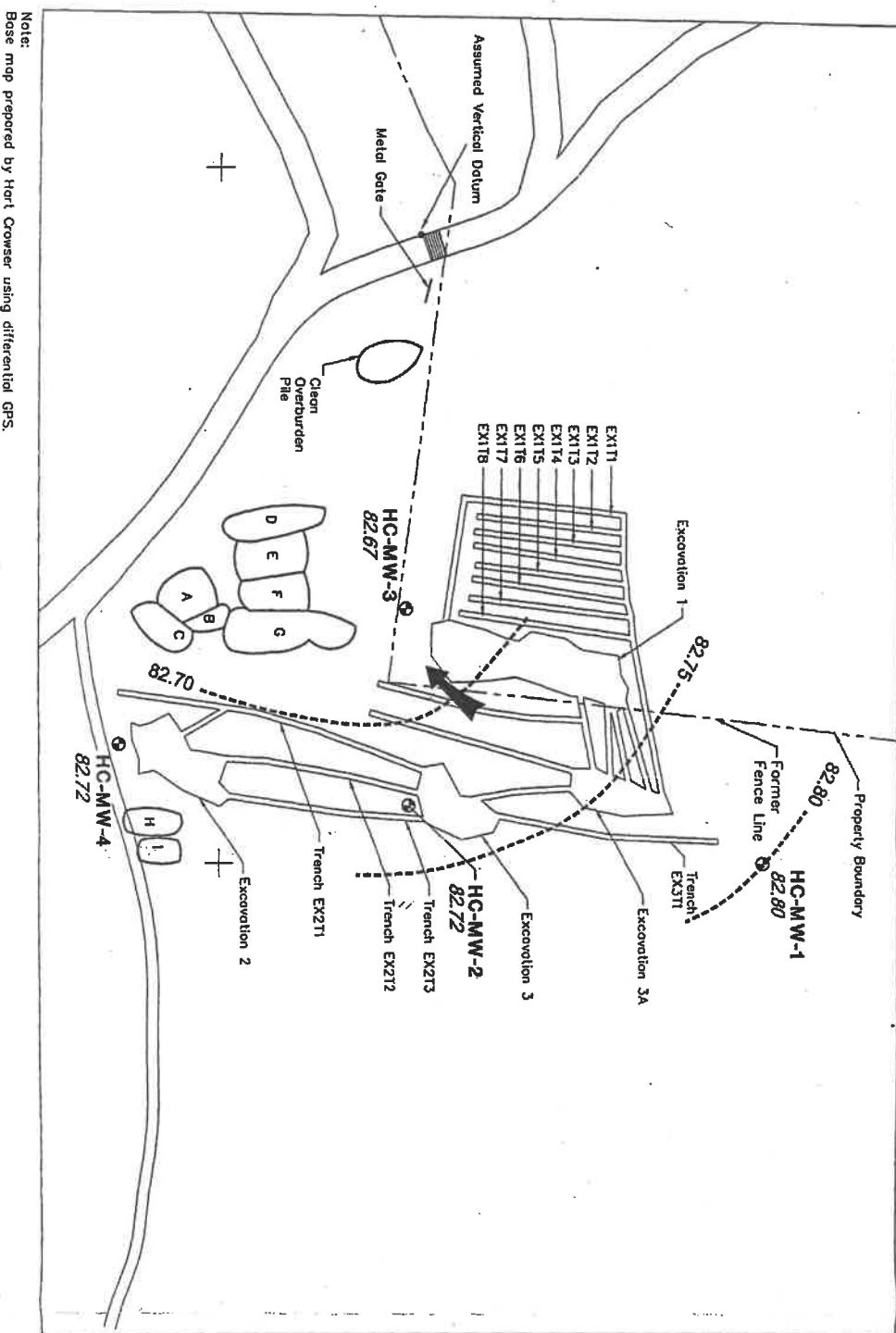
$\text{TAR} =$ Aquifer Use + Well Distance + Population Served +
Area Irrigated = 33

Cleanup Site Details

Cleanup Site ID: 2817

Cleanup Site ID: 2817	Facility/Site ID: 11747135	UST ID: N/A	Site Page	Site Documents	View Map	
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Alternate Names: PDQ LAUNDRY ROOM						
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Latitude: 48.05871	Longitude: -122.17575	WRIA: 7	Legislative District: 38	Congressional District: 2	TRS: 30N 5E 28	
DETAIL						
Status: Awaiting Cleanup	NFA Received?	No	Is PSI site?	No		
Statute: MTCA	NFA Date:	N/A	Current VCP?	No	Past VCP? No	
Site Rank: 5 - Lowest Assessed Risk	NFA Reason:	N/A	Brownfield?	No		
Site Manager: Northwest Region	Responsible Unit:	Northwest	Active Institutional Control?	No		
CLEANUP UNITS						
Cleanup Unit Name	Unit Type	Unit Status	Resp Unit	Unit Manager	Current Process	
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MEDIA						
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Halogenated Organics	S	C				
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Site Plan and Groundwater Elevation Contour Map
January, 2001



Note:
 Base map prepared by Hart Crowser using differential GPS.

0
 80
 160
 Scale in Feet

