

PO Box 1846, Palmer, AK 99645 phone (907)746-4587; fax (907)746-4586; email hulbert@alaska.net

November 1, 2001

Robert Weimer ADEC/UST 555 Cordova St. Anchorage, AK 99501



Dept. of Environmental Conservation Underground Storage Tanks — FAP

Re: Senco; Spill #98210030101; Monitoring Well Results; Seventh Sampling Event

All three monitoring wells at the Senco site were sampled on 10/5/01. The lab results for the wells are attached, as is the running Monitoring Well Log.

The only analyte detected was Ethylbenzene, at  $\sim$ .2% of cleanup limits. All other parameters were non-detect.

The last time any analyte for any of these three wells exceeded default limits was in December 1999. Recently, the traces, if detected at all, appeared more likely to have resulted from sources other than contaminated soil. Other contributions include natural organics and the coatings on the utility pipes. Since wells 1 & 2 are in a heavily traveled alley, the flush mounts are exposed to damage that could lead to groundwater contamination. A large puddle regularly forms over these wells.

I strongly recommend this site be closed and the wells properly decommissioned at the earliest opportunity. The risk from surface contamination reaching groundwater through these wells far exceeds the value of any remaining information obtainable from further sampling.

Sincerely,

Ralph Hulbert, P.E.

Att: Lab results

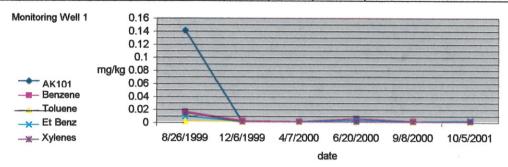
Monitoring Well Log

Cc: Clay Dial, Senco Alaska

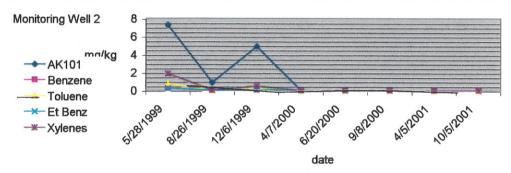
## Senco Alaska, Inc. 877 E. Dowling Rd.

## **Monitoring Well Log**

Monitoring Well #1 Results in mg/kg								
Sample #	Date	AK101	Benzene	Toluene	Et Benz	Xylenes	Depth	Comments
Goal		1.3	0.005	. 1	0.7	10	ft BTOC	From 18 AAC 75.341 Table C
	5/28/1999						2.87	No lab sample
MW1	8/26/1999	0.14	0.0154	0	0.00847	0.01377	1.21	First test
SMW1	12/6/1999	0	0.00148	0	0	0	5.5	Second test
MW1	4/7/2000	0	0	0	0	0	5.2	Third test
SMW62000-1	6/20/2000	0	0.00508	0	0.00273	0	3.33	Fourth test
SMW9800-1	9/8/2000	0	0.000507	0	0	0	3.3	Fifth test
SEN1051-1	10/5/2001	0	0	0	0.0014	0	5.8	seventh event



Monitoring We	Monitoring Well #2 Results in mg/kg							
Sample #	Date	AK101	Benzene	Toluene	Et Benz	Xylenes	Depth	Comments
SGW99-1	5/28/1999	7.3	0.25	0.815	0.259	1.89	3.53	First test
MW2	8/26/1999	0.89	0.00561	0.0043	0.0206	0.0743	1.71	2nd test
SMW2	12/6/1999	4.9	0.0632	0.273	0.0917	0.489	5.81	3rd test
MW2	4/7/2000	0	0	0	0	0	5.5	4th test
SMW62000-2	6/20/2000	0	0.000956	0	0	0	3.75	5th test
SMW9800-2	9/8/2000	0	0.000569	0	0	0	4.6	6th test
S4501	4/5/2001	0	0.00053	0	0	0	6.31	6th sampling event
SEN1051-2	10/5/2001	0	0	0	0	0	5.46	7th sampling event



Monitoring We	#3 Result	s in mg/l	g					
Sample #	Date	AK101	Benzene	Toluene	Et Benz	Xylenes	Depth	Comments
MW3-GW1	6/8/1999	0	0	0	0	0	26.48	First test
MW3	8/26/1999	0	0	0	0	0	26.24	2nd test
SMW3	12/6/1999	0	0	0	0	0	24.28	3rd test
MW3	4/7/2000	0	0	0	0	0	25.33	4th test
SMW62000-3	6/20/2000	0	0	0	0	0	26.33	5th test
SEN1051-3	10/5/2001	0	0	0	0	0	27.73	7th sampling event

Notes: Lab non-detects are assigned zero values for graphing purposes. Shaded cells exceed target goals



October 5, 2001

Reports To: Hulbert, Ralph P.E. P.O. Box 1846 Palmer, AK 99645

## Dear Reports To::

Thank you for your recent request for analytical services. The sample(s) below will be analyzed per your request as outlined below:

Project ID:

**SENCO** 

Workorder:

1016846

Quote No.:

Client Sample ID:

SEN1051-1

Date Collected: 10/05/01

CT&E Ref. No.:

1016846001

Date Received: 10/05/01

Matrix:

Water (Surface, Eff., Ground)

Analysis Requested:

AK101/BTEX Combo, 8021 (W)

Client Sample ID:

SEN1051-2

Date Collected: 10/05/01

CT&E Ref. No.:

1016846002

Date Received: 10/05/01

Matrix:

Water (Surface, Eff., Ground)

Analysis Requested:

AK101/BTEX Combo, 8021 (W)

Client Sample ID:

SEN1051-3

Date Collected: 10/05/01

CT&E Ref. No.:

1016846003

Date Received: 10/05/01

Matrix:

Water (Surface, Eff., Ground)

Analysis Requested:

AK101/BTEX Combo, 8021 (W)

200 W. Potter Drive Anchorage, AK 99518-1605 Tel: (907) 562-2343 Fax: (907) 561-5301 Web: http://www.cteesi.com

Ralph Hulbert AlaskChem Engineering

Work Order:

3014997

SENCO (1016846)

Client:

Alaska Chem Engineering

Report Date:

October 19, 2001

Enclosed are the analytical results associated with the above workorder.

As required by the state of Alaska and the USEPA, a formal Quality Assurance/Quality Control Program is maintaned by CT&E. A copy of our Quality Control Manual that outlines this program is available at your request.

Except as specifically noted, all statements and data in this report are in conformance to the provisions set forth in our Quality Assurance Program Plan.

If you have any questions regarding this report or if we can be of any other assistance, please call your CT&E Project Manager at (907) 562-2343.

The following descriptors may be found on your report which will serve to further qualify the data.

- U Indicates the analyte was analyzed for but not detected.
- J Indicates an estimated value that falls below PQL, but is greater than the MDL.
- B Indicates the analyte is found in the blank associated with the sample.
- \* The analyte has exceeded allowable limits.
- GT Greater Than
- D Secondary Dilution
- LT Less Than
- ! Surrogate out of range

CT&E Ref.#

3014997001

**Client Name** 

Alaska Chem Engineering

Project Name/#

SENCO (1016846)

**Client Sample ID** Matrix

SEN1051-1 Aqueous

Ordered By

Client PO#

Printed Date/Time

10/19/2001 13:33

Collected Date/Time Received Date/Time

10/05/2001 0:00

10/15/2001 9:00

**Technical Director** 

Stephen C. Ede

Released By

Sample Remarks:

Sample analyzed at the Ludington, Michigan laboratory of CT&E Environmental Services Inc.

Parameter  GRO/8021 COMBINATION	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
Gasoline Range Organics Benzene Ethylbenzene o-Xylene P & M -Xylene Toluene	0.040 U 0.0010 U 0.0014 0.0010 U 0.0020 U 0.0010 U	0.040 0.0010 0.0010 0.0010 0.0020 0.0010	mg/L mg/L mg/L mg/L mg/L	AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2		10/18/01 10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	RVS RVS RVS RVS RVS
Surrogates 1,4-Difluorobenzene <is surr=""> 4-Bromofluorobenzene <surr></surr></is>	83.2 90.9		%	AK101/8021B R2 AK101/8021B R2	60-120 60-120	10/18/01 10/18/01	10/18/01 10/18/01	RVS RVS

CT&E Ref.#

3014997002

**Client Name** 

Alaska Chem Engineering

Project Name/#

SENCO (1016846)

**Client Sample ID** Matrix

SEN1051-2 Aqueous

Ordered By

Client PO#

Printed Date/Time

10/19/2001 13:33

Collected Date/Time Received Date/Time

10/05/2001 0:00

**Technical Director** 

10/15/2001 9:00 Stephen C. Ede

Released By

Sample Remarks:

Sample analyzed at the Ludington, Michigan laboratory of CT&E Environmental Services Inc.

Parameter		Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
GRO/8021 COMBINATIO	N								
Gasoline Range Organics Benzene Ethylbenzene o-Xylene P & M -Xylene Toluene		0.040 U 0.0010 U 0.0010 U 0.0010 U 0.0020 U 0.0010 U	0.040 0.0010 0.0010 0.0010 0.0020 0.0010	mg/L mg/L mg/L mg/L mg/L	AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2		10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	10/18/01 10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	RVS RVS RVS RVS RVS
Surrogates 1,4-Difluorobenzene <is surr=""> 4-Bromofluorobenzene <surr></surr></is>		84.9 97		% %	AK101/8021B R2 AK101/8021B R2	60-120 60-120	10/18/01 10/18/01	10/18/01 10/18/01	RVS RVS

CT&E Ref.#

3014997003

Client Name

Alaska Chem Engineering

Project Name/#

SENCO (1016846)

Client Sample ID Matrix

SEN1051-3 Aqueous

Ordered By

Client PO#

Printed Date/Time

10/19/2001 13:33

Collected Date/Time

10/05/2001 0:00

Received Date/Time Technical Director 10/15/2001 9:00

Stephen C. Ede

Denuse (a

Released By

Sample Remarks:

Sample analyzed at the Ludington, Michigan laboratory of CT&E Environmental Services Inc.

Parameter	Results	PQL	Units	Method	Allowable Limits	Prep Date	Analysis Date	Init
GRO/8021 COMBINATION								
Gasoline Range Organics Benzene Ethylbenzene o-Xylene P & M -Xylene Toluene	0.040 U 0.0010 U 0.0010 U 0.0010 U 0.0020 U 0.0010 U	0.040 0.0010 0.0010 0.0010 0.0020 0.0010	mg/L mg/L mg/L mg/L mg/L mg/L	AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2 AK101/8021B R2		10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	10/18/01 10/18/01 10/18/01 10/18/01 10/18/01	RVS RVS RVS RVS
Surrogates 1,4-Difluorobenzene <is surr=""> 4-Bromofluorobenzene <surr></surr></is>	88.3 93.5		% %	AK101/8021B R2 AK101/8021B R2	60-120 60-120	10/18/01	10/18/01 10/18/01	RVS RVS

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## **ANALYSIS REQUEST & CHAIN OF CUSTODY**

Profile or Job # SENCO  Generator Site Senco  Sample Location Purpose of Sampling Sample Matrix Mater Layers Sampled Sampling Method Sampling Device Or Composite # of Subsamples Sample Containers: Size Type Number Sample taken by Date Sampled 10/5/00  Time Sampled 2 - Senco  RUSH? Date Results Requested:										
Sample ID	Matrix	# Cont.	Analyses Requested		QA/QC					
SEN 1051-1	witi	2	AKIOI/ BTEX		UST					
SEN 1071-2	e/	. ( (	( )	- ,						
SEH1031-)			<i>t</i> - <i>t</i>							
Delinan	ished Dru		Descired Dru	Data/I	Pi					
Name Signature	ished By:  A Hull  A CL	cent	Received By:	Date/1						
Name Signature										
Signature Chu	this el this	ho,		10/5/	101					
Received at Laborator Temperature 5.85 Comments:		Hah D	IO/S/OI Date/Time_1555 Condition of Conta _ Laboratory ID #	niners:	346					