



August 18, 2008

Mr. Bruce Wanstall  
Field Operations Project Manager  
State & Private Contaminated Sites Program  
Department of Environmental Conservation  
PO Box 111800/410 Willoughby Avenue, Suite 302  
Juneau, AK 99801

RE: July 2008 Groundwater Sampling at Gas N Go Fuel Station

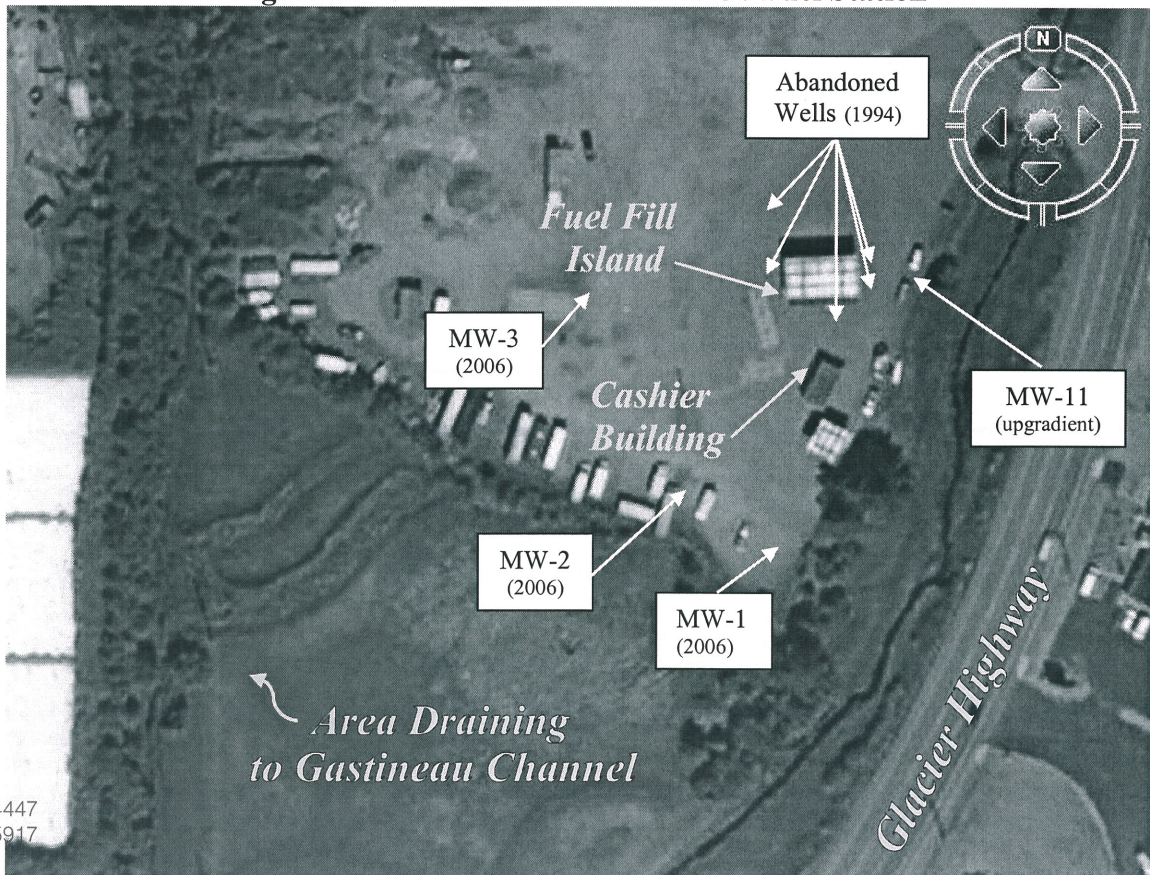
Dear Mr. Wanstall:

As part of the long term sampling plan for Gas N Go Fuel Station, groundwater samples were collected at four monitoring wells on July 8 and 10, 2008.

**Monitoring Well Locations**

Figure 1 shows locations for the four wells sampled during this event (MW-1, MW-2, MW-3, and MW-11).

**Figure 1. Well Locations at Gas N Go Fuel Station**



### Sampling Procedure

Samples were collected by Carson Dorn staff at MW-2 and MW-11 on July 8, and at MW-1 and MW-3 on July 10. Each well was purged of at least four well volumes using a low-flow peristaltic pump and then allowed to recharge to the static water level prior to sampling. Using the same pump, samples for the most volatile organic compounds were collected first. One duplicate sample was also collected for a total of five samples.

### Sampling Results

Samples were submitted to Test America Labs in Bothell, WA, and were analyzed for gasoline and diesel range hydrocarbons (GRO and DRO) and benzene, toluene, ethylbenzene, and xylenes (BTEX). Table 1 compares the current round of sampling with results from past sampling events. The data is also compared to the ADEC Table C standards for groundwater cleanup, found in regulations 18 AAC 75. Sample results in red exceed the cleanup standard.

<b>Table 1. Gas N Go Groundwater Well Sampling August 2006- July 2008</b>									
<b>Summary of Results in mg/L</b>									
<b>Well No.</b>	<b>Well Depth</b>	<b>Depth to Water</b>	<b>Sample Date</b>	<b>Gasoline Range Organics</b>	<b>Diesel Range Organics</b>	<b>B</b>	<b>T</b>	<b>E</b>	<b>X</b>
<b>MW-1</b>	10.5'	7.8'	8/16/06	0.435	0.402	0.0145	0.0009	0.0070	0.0236
			8/17/07	<i>ns</i>	ND	ND	ND	0.0012	ND
			11/19/07	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>	<i>u</i>
		8.6	7/10/08	ND	ND	ND	ND	ND	ND
<b>MW-2</b>	10.5'	9.0'	8/16/06	ND	0.105	ND	ND	ND	ND
			8/17/07	<i>ns</i>	0.471	0.0111	ND	0.0075	0.0178
			11/19/07	0.798	0.354	0.0020	0.0032	0.0291	0.0910
		7.4	7/8/08	ND	0.249	0.0014	ND	ND	ND
<b>MW-3</b>	10.4'	8.3'	8/16/06	9.780	1.690	0.0067	0.0051	0.0290	1.3300
			8/17/07	<i>ns</i>	0.906	ND	ND	0.0430	0.0542
			11/19/07	3.090	0.801	0.0059	0.0015	0.0375	0.0877
		6.95	7/10/08	4.500	1.660	0.0092	0.0026	0.0837	0.1530
<b>MW-11</b>	11.7'		8/16/06	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>	<i>ns</i>
		9.6'	8/17/07	<i>ns</i>	ND	ND	ND	0.0035	0.0036
			11/19/07	ND	ND	ND	ND	0.0011	0.0033
		8.7	7/8/08	ND	ND	ND	ND	0.0011	0.0033
<i>Cleanup Limits:</i>				<b>1.3</b>	<b>1.5</b>	<b>0.005</b>	<b>1.0</b>	<b>0.7</b>	<b>10.0</b>

B=benzene, T=toluene, E=Ethylene, X=xylenes, ND= not detected, ns=no sample collected, u=unproductive well

All depths are feet below ground surface.

Samples were collected for GRO, DRO, and BTEX at MW-1, MW-2, MW-3, and MW-11. Parameters were either non-detect or met cleanup standards in all samples except MW-3, located directly west of the fuel fill island. DRO in MW-3 was measured at 4.50 mg/l, three times the groundwater cleanup level of 1.50 mg/l, benzene was measured at a

concentration of 0.0092 mg/l, close to twice the groundwater cleanup level of 0.0050 mg/l, and ethylbenzene was measured at a concentration of 0.0837 mg/l, slightly higher than the groundwater cleanup level of 0.0700 mg/l.

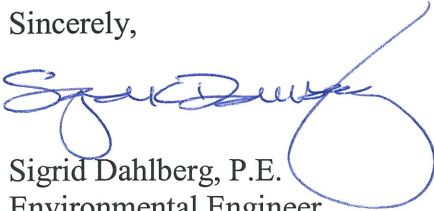
**Monitoring Well Sampling Plan**

Sampling results from 2006 and 2007 indicate that groundwater levels for GRO, DRO and BTEX are generally decreasing at the three monitoring wells placed in 2006 and are stable and satisfactory at the upgradient well MW-11. While there was a slight increase in the concentration of analytes at MW-3 during this sampling round, it is not a significant increase.

In accordance with the long-term monitoring plan for this site, sampling frequency will be decreased from semi-annual to periodic, with one set of samples collected at the four wells on a three-year interval until cleanup standards have been consistently met at all wells.

Please don't hesitate to contact me at 586-4447 if you have any questions.

Sincerely,



Sigrid Dahlberg, P.E.  
Environmental Engineer