

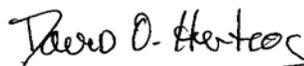
14 June 06

MEMORANDUM FOR ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION
ATTN: MR. COLIN CRAVEN

FROM: David Hertzog
611 CES/CEVR
10471 20th Street Ste 338
Elmendorf AFB AK 99506-2200

SUBJECT: Transmittal of Final 2006 Field Season Galena Technical Memorandum for Ground water
Monitoring Wells Locations Galena Airport, Alaska

The 611 Civil Engineering Squadron (CES/CEVR) is submitting the following Final 2006 Galena Technical Memorandum for Ground water Monitoring Wells Locations Galena Airport, Alaska. This Final 2006 Galena Technical Memorandum incorporates Alaska Department of Environmental Conservation (ADEC) comments submitted on 24 May 2006 and discussed during a 30 May 2006 teleconference with ADEC and 611th CES/CEVR representatives. All of your comments have been addressed and incorporated into the attached description of work to be conducted. Should you have any further comments please contact me at 552-7261 or email at dave.hertzog@elmendorf.af.mil.



DAVID HERTZOG GS 12
King Salmon/Galena Project Manager

Attachments:

1) Final Technical Memorandum for 2006 Ground Water Monitoring Wells Locations Galena Airport, Alaska

cc:

Louden Tribal Council (Ms. Ragine Attla)
Galena City Manager (Mr. Marvin Yoder)
Galena City Schools (Mr. Harry White)
Galena Administrative Record

**Final Technical Memorandum for 2006
Ground Water Monitoring Wells Locations
Galena Airport, Alaska**

BACKGROUND

The *Revised Technical Memorandum for Ground water Monitoring Wells Locations Galena Airport, Alaska*, dated March 2003 (Administrative Record Document No. 177; Filename: 0028009.pdf) details the objectives, selection rationale, well locations, and construction details for 2003 Field Season well installations. The 2003 well installation effort was developed by a Remedial Process Optimization (RPO) Team, implemented United States Geological Survey recommendations, and was revised based upon comments submitted by the Galena Technical Project Team (TPT) Members. This Technical Memorandum is an integrated follow-on effort to the 2003 RPO activities.

This memorandum is based upon the technical findings and conclusions developed under the Draft Remedial Investigation/Feasibility Study (RI/FS), dated December 2005 and the comments received from Alaska Department of Environmental Conservation (ADEC). Specifically, the proposed efforts under this technical memorandum are intended to construct a final long-term ground water monitoring network and to address data gaps identified by Technical Project Team Members for sites included in the 2005-2006 RI/FS Report. Note: Proposed monitoring well locations and construction details were included in the USAF Responses to Comments and incorporate discussions that transpired during 2006 TPT Meetings and teleconferences. Sampling and analysis will be conducted in late August 2006 to confirm that the final well locations effectively resolve site-specific data gaps. A revision to the Galena Comprehensive Environmental Monitoring Program is planned to develop a long-term monitoring program to ensure that remedial action objectives are met.

Table 1 Summary of Objectives and Locations of Proposed Monitoring Well Locations

Site	Location(s)	Construction Details	Rationale
CTDSA So	A total of two wells located due south (downgradient) of Test Boring 69 (TB069) and 13-MW-38 respectively, in the grass median	Screens: 5-45 feet below ground surface (ft bgs)	To determine whether TCE or degradation byproducts are present in the airfield median area downgradient of TB069, TB070, and 13-MW-38. ADEC request.
MGH/ MSA	Adjacent to 09-MW-14	Screen: 25-45 ft bgs	To determine presence, absence, and/or concentration of dissolved fuel constituents in interval below 09-MW-14.
MGH/ MSA	West of 09-MW-17, downgradient of 09-MW-24	Screen: 65-70 ft bgs	To determine presence, absence, and/or concentration of dissolved fuel constituents in interval downgradient and below 09-MW-14
FPTA	At location of previously abandoned 01-MW-06	Same as abandoned well 01-MW-06, 12-22 ft bgs	Benzene concentrations at this 01-MW-06 were 0.092- 0.99 mg/L from 1987 to 1994. This location is approximately 75 ft away from the fire training pit and interpreted ground water flow presented in the draft RI suggested that this location could be downgradient. ADEC request.
S POL	On parking apron, north and equidistant between 05-MW-16 and 05-MW-17	Screened intervals at 5 - 45 ft bgs and 50 - 60 ft bgs respectively	To determine the concentrations if dissolved fuel constituents are present in intervals deeper than existing wells. ADEC request.
JP-4 Fillstands	A “shallow” and deep well at the location of abandoned well 10-MW-04. Another well will be installed due south of the current fillstands along the south side of the road between the Vehicle Maintenance Building and Runway Apron	A “Shallow” well (i.e. 10-MW-04R) will be screened from 5 to 35 feet bgs, a “deep” well (i.e. 10-MW-05) will be screened from 40 to 60 bgs. Another well (i.e. 10-MW-06) screened from 5 to 45 feet bgs will be installed on the south edge of the road, due south of the existing fillstands.	The “shallow” and “deep” well pair at the original 10-MW-04 location are to determine the concentrations of dissolved fuel constituents present in intervals comparable and deeper than existing wells. The proposed well location of 10-MW-06 is intended to provide contaminant concentrations downgradient of known source zone(s) at JP-4 Fillstands and to function as a remedial performance evaluation well during the long-term monitoring phase.

The following wells and locations are being proposed in this work-plan. Subsurface digging permits will be subject to Air Force and Alaska Department of Transportation (AKDOT) approval. Final well installation

locations may be adjusted due to surface or subsurface obstructions, surface elevations, input from AKDOT, field screening results, or other practical reasons. Soil lithology will be logged on hollow stem auger borings via cuttings inspections. Soil lithology will not be logged if direct push or rotary drilling techniques are used. These well(s) will be installed during late summer, developed, and sampled using low flow sampling procedures. Analytical methods are designated on a site-specific basis below. The cost/benefit of on-site versus off-site contaminant analysis was evaluated. The high probability of obtaining low to nondetect results at each of the proposed locations, with the possible exception of Fire Protection Training Area well 01-MW-06R and “mid-plume” JP-4 Fillstands well 10-MW-06 supported the decision to forego on-site contaminant analysis. The detection of anomalously high concentrations is rated as a low probability scenario and would best be addressed under a separate effort. Standard decontamination procedures will be followed for well installation and sampling.

All existing data suggest that contaminant concentrations in soil at the proposed locations will be nondetect to low, below ADEC Method 2 levels, and nonhazardous. All of the proposed monitoring well locations at MGH/MSA, CTDSA, S POL, and JP-4 Fillstands are outside and significantly distant from any known source areas. The proposed monitoring well locations at Fire Training area and south of the JP-4 Fillstands are closest to source areas. However, at Fire Protection Training Area, soil concentrations detected at soil boring TB51 between the proposed well location and the fire training pit displayed nondetect concentrations for benzene, toluene, ethylbenzene, and xylenes at 0-1, 4-6, and 10-12 ft bgs indicating that the proposed well location, 01-MW06R, is unlikely to contain elevated concentrations of contaminants in soil. Soil cuttings will be visibly screened and sampled by periodically placing a soil sample in a polyethylene bag and analyzing the bag headspace using a field photoionization meter. Soils that are visibly stained and/or have soil bag headspace readings that exceed 500 ppmV will be placed in drums or lined and covered on-site for subsequent (e.g. no later than 2 days after generation) sampling via SW8260B and AK102, confirmation of nonhazardous composition, and, if appropriate, transported to the Campion biopile or disposed on-site properly. Any soils transported off-site will be documented with respect to volume of material and final destination (e.g. Global Positioning System coordinates). All other “clean” soil cuttings will be thinly spread on-site.

1. Control Tower Drum Storage Area South (SS013)

Number of Wells: 2 (Proposed Well ID: 13-MW-40 and 13-MW-41)

Location: 13-MW-40 to be located due south of TB069 on the northern edge of the grass median.
13-MW-41 to be located due south of 13-MW-38 on the northern edge of the grass median (**See Figure 1**)

Details: 4.25 inch hollow stem auger (HSA) drilling
2 inch Schedule 40 Poly vinyl chloride (PVC) casing and screen
Slot size – 0.010 inch
Total depth – 45 ft bgs
Screened interval – 40 ft (5 – 45 ft bgs)

Function: Contaminant detection and site closure.

Justification: From 1987 to 1994, TCE was detected in 13-MW-38 (Screened 12-22 ft bgs) at 0.0015 – 0.00928 mg/L. In 1987, maximum TCE in soil concentrations of 0.588 mg/kg and 0.038 mg/kg were detected at 10-11.5 ft bgs in soil borings TB069 and TB070 respectively. The proposed wells are intended to determine the presence, absence, and/or concentrations of chlorinated solvent constituents downgradient of 13-MW-38, TB069, and TB070.

Additional Comments: These wells are intended to support site closure if concentrations in these wells are below current ADEC Method 2 Cleanup Levels. The ground surface elevations at MW-38 and MW-39 are 146.9 and 146.94 ft msl, respectively, which is representative of the ground surface elevations of the proposed monitoring well locations. Ground water levels in this area are estimated to be approximately 13 and 25 ft bgs during June and October sampling events, respectively. Maximum and minimum ground water levels range from approximately 10 to 31 ft bgs. Given the substantial fluctuations in ground water levels combined with the main objective to confirm the presence or relative absence of significant contamination in this area, forty-foot well screens were selected over shorter intervals to reduce the chance that contaminated horizons are not sampled.

Locations to be Sampled: New wells: 13-MW-40 and 13-MW-41

Analytical Method(s): SW8260B

2. Million Gallon Hill (ST009)

Number of Wells:	2 (Proposed Well IDs: 09-MW-29 and 09-MW-30)	
Location:	09-MW-29 to be located approximately 5 ft away from 09-MW-14 09-MW-30 to be located down gradient (i.e. southwest) of 09-MW-24 and placed directly west of 09-MW-17 at the east edge of the dike road/airport boundary. (See Figure 2)	
Details:	4.25 inch HSA drilling 2 inch Schedule 40 PVC casing and screen Slot size – 0.010 inch	
	09-MW-29	Total depth – 45 ft bgs Screened interval – 20 ft bgs (25 – 45 ft bgs)
	09-MW-30	Total depth – 70 ft bgs Screened interval 5 ft (65-70 feet bgs)
Function:	09-MW-29	Vertical delineation near 09-MW-14
	09-MW-30	Vertical delineation downgradient of 09-MW-24
Justification:	To determine if dissolved fuel contaminants are present at deeper (i.e. > 27 ft bgs) intervals downgradient of MGH.	
Additional Comments:	<p>As stated in the Draft RI/FS Report (USAF, 2005), the screened interval of 09-MW-14 (12-22 ft bgs) does not allow the quantification of dissolved contaminants across the deeper intervals (e.g. 45 ft bgs) that other wells provide. Monitoring well 09-MW-22 is screened from 7.4-47.4 ft bgs where the ground surface elevation is 142.73 feet mean sea level (ft msl) which makes the total depth of this well comparatively deeper than most other wells. Contaminant data from 09-MW-22 do not indicate that elevated concentrations of dissolved fuel constituents exist on a potential flow line from 09-MW-14 to 09-MW-24. Thus, monitoring well 09-MW-22 supports the absence of elevated dissolved contaminants at deeper intervals. However, a deeper well (e.g. 25-45 feet bgs) is proposed for installation adjacent to 09-MW-14 to further confirm this conclusion. This 09-MW-29 location is believed to be useful to define the center-line and/or potential down gradient extent of MGH-related contaminant sources. Longer screened intervals are proposed to reduce the probability of missing contaminants that are present in discrete intervals. Laboratory practical quantitation limits are sufficiently low to detect contaminants at or below their respective action levels even if some dilution during sampling occurs. The proposed well screen interval will facilitate more direct comparison with contaminant concentrations detected in existing wells.</p> <p>The USAF proposes to install an additional deep well (e.g. screened from 65-70 feet bgs) down gradient of 09-MW-24 (screened 50-55 feet bgs). This new</p>	

*2006 Field Season Technical Memorandum for
Ground water Monitoring Wells Locations
Galena Airport, Alaska
April 2006*

well would likely be placed directly west of 09-MW-17 at the east edge of the dike road/airport boundary.

Locations to be Sampled: New wells 09-MW-29 and 09-MW-30. Additionally, 09-MW-01, 09-MW-02, 09-MW-04, 09-MW-14, 09-MW-15, 09-MW-22, 09-MW-23, and 09-MW-24.

Analytical Method(s): VOCs via SW8260B; Diesel Range Organics via AK102

3. Fire Protection Training Area (FT001)

Number of Wells: 1 (Proposed Well ID: 01-MW-06R)

Location: At location of abandoned well 01-MW-06 (See Figure 3)

Details: 4.25 inch HSA drilling
2 inch Schedule 40 PVC casing and screen
Slot size – 0.010 inch
Total depth – 22 ft bgs
Screened interval – 10 ft (12 – 22 ft bgs)

Function: Contaminant delineation

Justification: To determine current concentrations of ground water contaminants of concern (COCs) and to aid in plume delineation.

Additional Comments: As per ADEC Comment #29 on the Draft RI/FS, abandoned well 01-MW-06 displayed benzene concentrations ranging from 0.095 to 0.99 mg/L during 1987 to 1994. ADEC requested that this location be incorporated into the long-term monitoring program. Previous monitoring well 01-MW-06 was screened from 10 to 20 feet bgs and was located at N 392 5451, E 181 1350. A replacement well (i.e. 01-MW-06R) will be installed to act as replacement.

Locations to be Sampled: New well 01-MW-06. Additionally, 01-MW-01 and 01-MW-08R

Analytical Method(s): VOCs via SW8260B

4. South Petroleum Oil Lubricants Tank Farm (ST005)

Number of Wells:	2 (Proposed Well IDs: 05-MW-20 and 05-MW-21)
Location:	05-MW-20 and 05-MW-21 to be located east of 05-MW-16 and west of 05-MW-17 on the west edge of the taxiway (See Figure 4)
Details:	4.25 inch HSA drilling 2 inch Schedule 40 PVC casing and screen Slot size – 0.010 inch 05-MW-20 Total depth – 45 ft bgs Screened interval – 40 ft (5 – 45 ft bgs’) 05-MW-21 Total depth – 60 ft bgs Screened interval – 10 ft (50 – 60 ft bgs)
Function:	Sentry wells
Justification:	To determine if dissolved fuel constituents are present at this location and/or in intervals deeper than existing monitoring wells.
Additional Comments:	The total depth of 05-MW-16 was 41.8 ft bgs (ground surface of 142.32 ft msl) as per a May 2004 measurement. The total depth of 05-MW-17 was 39.5 ft bgs (ground surface of 142.79 ft msl) as per a May 2004 measurement. This would suggest that these wells are screened across similar intervals as most of the upgradient monitoring wells. The objectives of future monitoring well installation at the S POL site will be to confirm the downgradient extent of the petroleum hydrocarbon plume and to determine if dissolved contaminants are present below the well screened intervals of existing monitoring wells. The proposed location would be approximately equidistant between 05-MW-16 and 05-MW-17 with screened intervals at 5 - 45 ft bgs and 50 – 60 ft bgs. The first screened interval would be comparable to other upgradient wells and its “longer” screened interval would allow the detection of ground water contaminants even if they exist in relatively thin intervals. The deeper well screen would provide information if contaminants are present in lower intervals.
Locations to be Sampled:	New wells 05-MW-20 and 05-MW-21. Additionally, existing wells 05-MW-16 and 05-MW-17
Analytical Method(s):	VOCs via SW8260B

5. JP-4 Fillstands (ST009)

Number of Wells:	2 (Proposed Well IDs: 10-MW-04R, 10-MW-05)
Location:	10-MW-04R and 10-MW-05 will be installed at the location of abandoned well 10-MW-04 (See Figure 5)
Details:	4.25 inch HSA drilling 2 inch Schedule 40 PVC casing and screen Slot size – 0.010 inch
	10-MW-04R Total depth – 35 ft bgs Screened interval – 30 ft (5 – 35 ft bgs)
	10-MW-05 Total depth – 60 ft bgs Screened interval – 20 ft (40 – 60 ft bgs)
	10-MW-06 Total depth – 45 ft bgs Screened interval – 40 ft (5 – 45 ft bgs)
Function:	
	10-MW-04R Comparison between historical contaminant concentrations at this location and other site wells and as a comparison to concentrations in the deeper (i.e. 40 -60 ft bgs) interval.
	10-MW-05 To determine the presence, absence, and/or concentration of dissolved fuel constituents in intervals deeper than existing monitoring wells
	10-MW-06 To quantify “mid-plume” contaminant concentrations down gradient of the source area (e.g. 1572-MW-03, 1572-MW-04) and to act as a remedial performance evaluation well during long term monitoring activities.
Justification:	To investigate whether contaminants are present in intervals deeper than existing monitoring wells
Additional Comments:	Ground water monitoring wells 1573-MW03 and 1573-MW-04 represent source zone wells with 2004 dissolved BTEX concentrations in the 3-7 mg/L range. These wells are screened across the 5-35 feet bgs interval where the ground surface elevation is approximately 142.2 ft msl (@ 10-MW-02) and 142.7 ft msl (@10-MW-03). If one views potential flow vectors between source zone wells 1572-MW03 and 1572-MW04 and 10-MW-04 (abandoned), 09-MW-27, 09-MW-18, and 09-MW-20, respectively, the following general conclusions are offered:

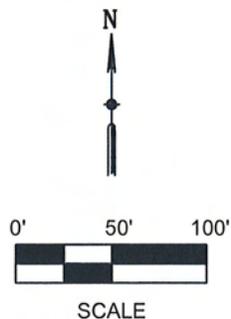
- Dissolved contaminant concentrations in downgradient wells, 10-MW-04 (abandoned), 09-MW-27, 09-MW-18, and 09-MW-20, respectively are 3-4 orders of magnitude lower than source zone wells;
- The flow vectors defined between source zone wells and 10-MW-04 (abandoned), 09-MW-27, 09-MW-18, and 09-MW-20, respectively cover a wider array of potential flows and when combined they provide a strong case for full delineation of the down gradient boundaries of the plume.

Dissolved contaminant data and respective screened intervals from monitoring wells 10-MW-04 and 09-MW-27 do not indicate that “high” concentrations of dissolved contaminants are present in this area. However, to determine if contaminants exist in deeper intervals, a multiple level well pair is proposed at the past location of 10-MW-04. The “shallow well, 10-MW-04R, will be screened from 5 to 35 feet bgs and the “deep” well, 10-MW-05, will be screened from 40 to 60 bgs. Additionally, a new well will be installed due south of the existing fillstands along the road south of Vehicle Maintenance Facility Building 1572 to determine concentrations of contaminants downgradient of contaminant sources at JP-4 Fillstands.

Locations to be Sampled: New wells 10-MW-04R, 10-MW-05, and 10-MW-06. Additionally, existing wells 09-MW-18, 09-MW-25, 09-MW-26, 09-MW-27

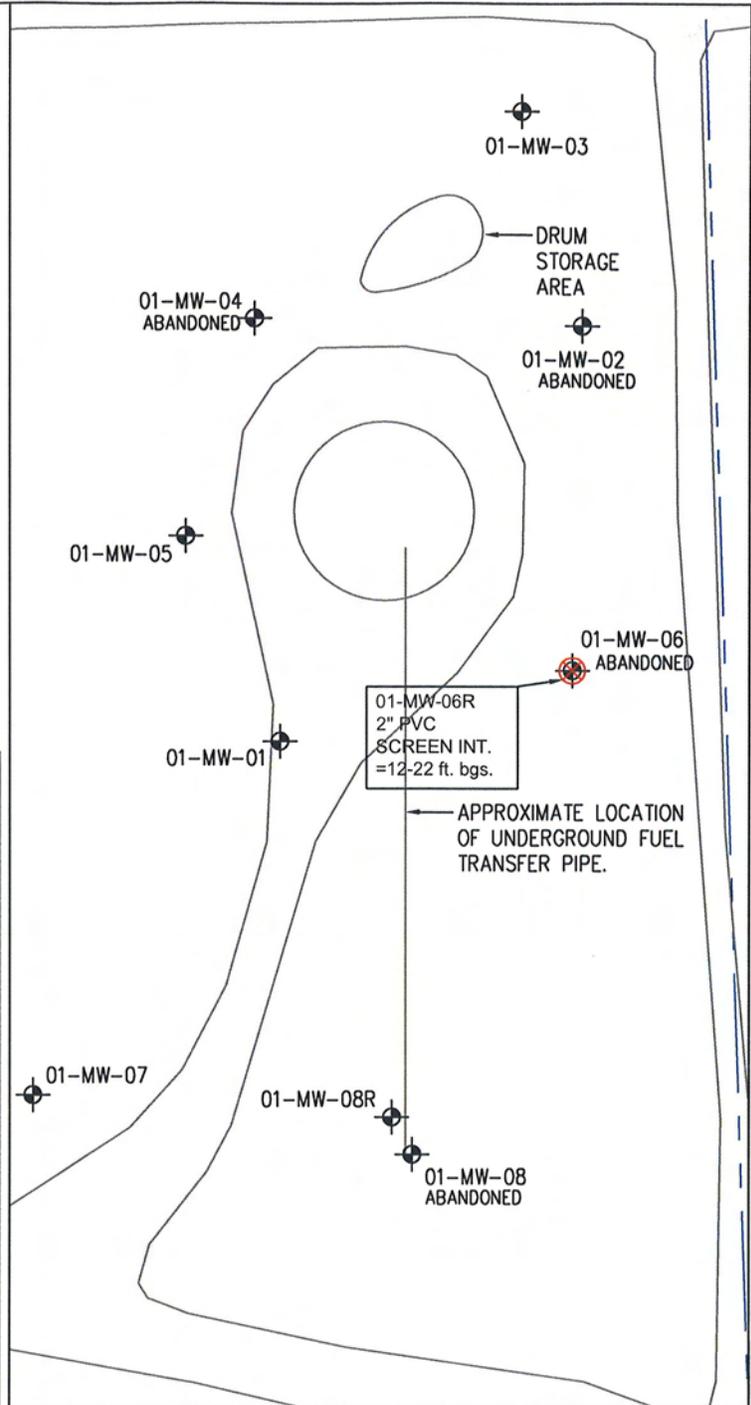
Analytical Method(s): VOCs via SW8260B

LEGEND	
	Ground Water Monitoring Well
	Airport Boundary
	Proposed 2006 Monitoring Well



FUEL COMPONENTS DATA

Sample Location	Screened Interval (ft bgs)	Sampling Date	Benzene (mg/L)	DRO (mg/L)	Ethylbenzene (mg/L)	GRO (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)
01-MW-01	7.19 - 46.8	9/2/1992	0.038	0.39	< 0.0004	< 0.2	< 0.0004	< 0.0006
		6/13/1993	0.372	0.004	0.00203	0.61	0.00109	0.0011
		9/13/1994	0.152	0.17	0.0001	0.38	0.00024	
		10/1/1998	0.18		< 0.00017		0.00011	< 0.00019
		6/13/1999	0.28		< 0.00017		0.00014	< 0.00049
		10/30/1999	0.08		< 0.00016		< 0.00009	< 0.00049
		6/19/2000	0.21	0.18	< 0.00098	0.56	< 0.0001	< 0.00027
		10/13/2000	0.059	0.62	< 0.00098	0.15	0.00012	< 0.000266
		6/22/2001	0.2	0.24	< 0.00049	0.62	< 0.00049	< 0.00133
		10/9/2001	0.015	0.27	< 0.00098	0.054	0.0004	0.00021
		6/1/2004	0.0607		< 0.00031		< 0.00031	< 0.00093
10/22/2004	0.0206		< 0.000241		< 0.000202	< 0.000683		
01-MW-02	7.48 - 26.42	9/9/1992	< 0.0003	< 0.21	< 0.0002	< 0.1	< 0.0002	< 0.0003
		6/13/1993	0.000111	0.004	0.000537	0.036	0.000138	0.000167
		9/13/1994	< 0.000307	< 0.1	< 0.00011	< 0.05	< 0.000336	
01-MW-03	12.5 - 22.5	9/20/1987	< 0.0002		< 0.0002		< 0.0002	< 0.0002
		6/6/1990	< 0.0007		< 0.001		< 0.001	< 0.002
		9/9/1992	< 0.0003	< 0.2	< 0.0002	< 0.1	< 0.0002	< 0.0003
		10/1/1998	< 0.00012		< 0.00017		< 0.0001	< 0.00019
		6/10/1999	< 0.00022		< 0.00017		< 0.00009	< 0.00049
		10/27/1999	< 0.00013		< 0.00016		0.00039	< 0.00049
		6/15/2000	< 0.000105	0.03	< 0.00098	< 0.02	< 0.0001	< 0.00027
		10/10/2000	< 0.000105	0.17	< 0.00098	< 0.021	0.00012	< 0.000266
		6/19/2001	< 0.000105	0.086	< 0.00098	0.023	0.0004	< 0.000265
		10/4/2001	< 0.000105	0.039	< 0.00098	< 0.0206	0.00026	< 0.000265
		9/20/1987	< 0.0002		< 0.0002		< 0.0002	< 0.0002
6/6/1990	< 0.0007		< 0.001		< 0.001	0.0095		
9/9/1992	< 0.0003	0.98	< 0.0002	< 0.1	< 0.0002	< 0.0003		
9/20/1987	0.0005		< 0.0002		0.0005	< 0.0002		
6/6/1990	< 0.0007		< 0.001		< 0.001	< 0.002		
9/9/1992	< 0.0003	< 0.21	< 0.0002	< 0.1	< 0.0002	< 0.0003		
9/13/1994	0.00004	< 0.1	< 0.00011	0.015	< 0.000336	< 0.000489		
6/1/2004	< 0.00012		< 0.00031		< 0.00031	< 0.00093		
9/20/1987	0.928		0.001		0.004	< 0.0002		
12/6/1989	0.095		< 0.005		< 0.005	< 0.01		
6/6/1990	0.99		< 0.1		< 0.1	< 0.2		
9/2/1992	0.42	0.26	< 0.0002	1.4	0.00087	0.0014		
9/16/1994	0.224	0.35	0.00002	0.58	0.00033	0.00006		
9/15/1993	< 0.000079	0.002	< 0.000121	0.03	< 0.000112	< 0.00013		
9/17/1994	0.00004	< 0.1	< 0.00011	0.003	< 0.000336	< 0.000489		
7/22/1998	< 0.00012		< 0.00017		< 0.0001	< 0.001		
10/1/1998	< 0.00012		< 0.00017		< 0.0001	< 0.00019		
6/12/1999	< 0.00022		< 0.00017		< 0.00009	< 0.00049		
10/26/1999	< 0.00013		< 0.00016		< 0.00009	< 0.00049		
6/15/2000	< 0.000105	0.03	< 0.00098	< 0.02	< 0.0001	< 0.00027		
10/10/2000	< 0.000105	0.13	< 0.00098	< 0.021	< 0.0001	< 0.000266		
6/19/2001	< 0.000105	0.095	< 0.00098	< 0.0206	< 0.00098	< 0.000265		
10/6/2001	< 0.000105	0.046	< 0.00098	< 0.0206	0.00023	< 0.000265		
6/2/2004	< 0.00012		< 0.00031		< 0.00031	< 0.00093		
10/22/2004	< 0.000226		< 0.000241		< 0.000202	< 0.000683		
9/15/1993	0.0294	0.11	< 0.000121	0.068	0.00009	0.0000446		
9/16/1994	0.022	0.38	< 0.00011	0.079	0.00003	< 0.000489		
6/7/2004	0.0223		< 0.00031		< 0.00031	< 0.00093		
10/22/2004	0.00037		< 0.000241		< 0.000202	< 0.000683		



NOTES:
ft bgs feet below ground surface
mg/L milligrams per liter
DRO diesel-range organics
GRO gasoline-range organics

Data highlighted green indicate decreasing trend.

Non-detects shown as < Method Detection Limit or < Reporting Limit, in order of preference

Only locations where groundwater samples were collected are shown.

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611TH AIR SUPPORT GROUP
611TH CIVIL ENGINEER SQUADRON
ELMENDORF AFB, ALASKA

FIGURE 3
FPTA
PROPOSED 2006 MONITORING WELL LOCATIONS

ERP SITE FT001
GALENA AIRPORT, ALASKA

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LEGEND	
	Ground Water Monitoring Well
	Airport Boundary
	Active POL Lines
	Inactive POL Lines
	Proposed 2006 Monitoring Well

Notes:
See attached data table.

Aerial Map Source: Aeromap 2002

0' 150' 300'



SCALE

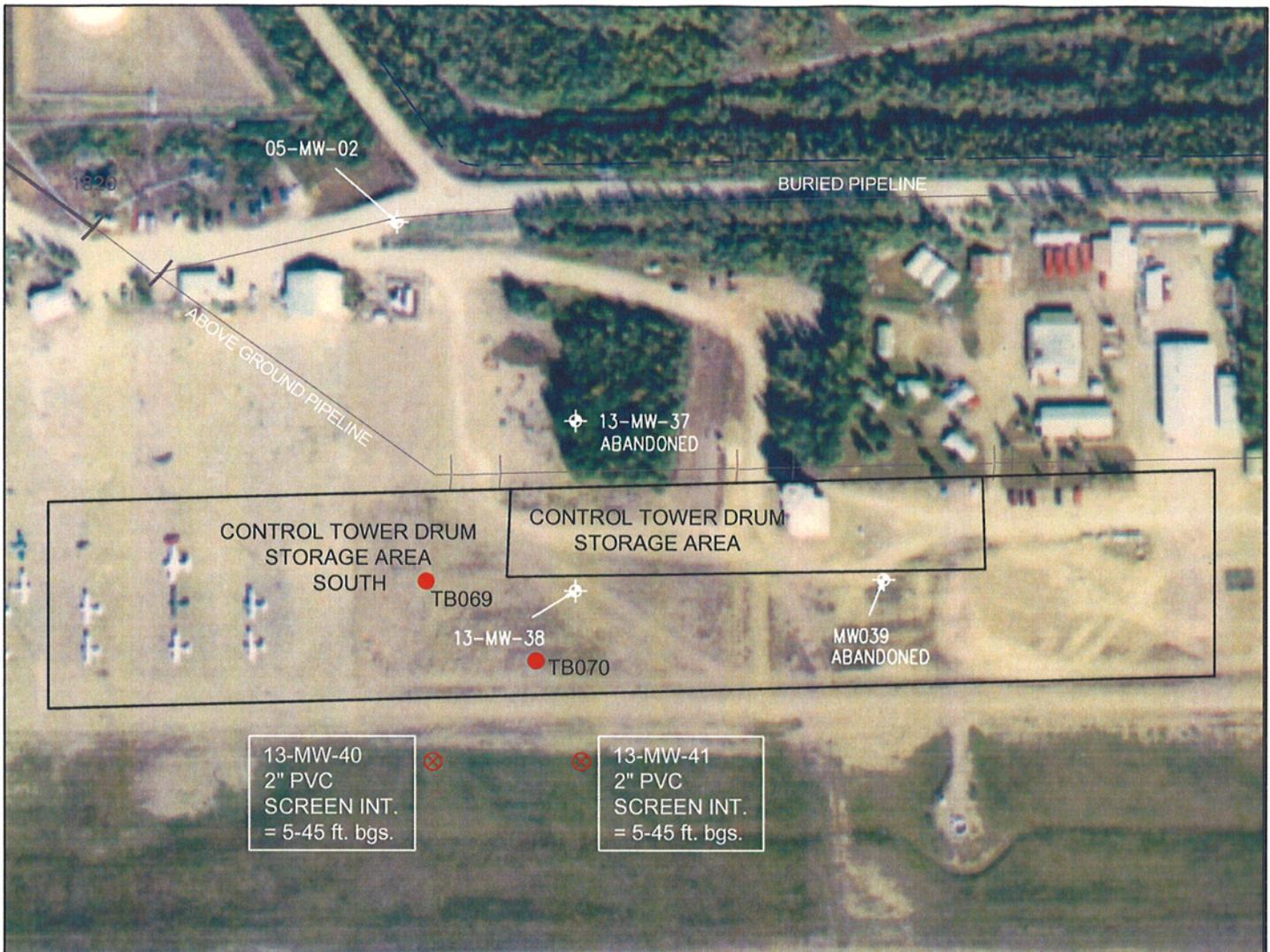


611TH AIR SUPPORT GROUP
611TH CIVIL ENGINEER SQUADRON
ELMENDORF AFB, ALASKA

FIGURE 2
MGH
PROPOSED 2006 MONITORING WELL LOCATIONS
ERP SITES CG001 (MGH) & CG002 (MSA)
GALENA AIRPORT, ALASKA

DEC 2005

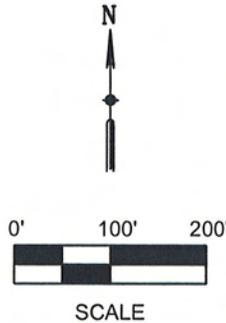
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NOTES:
 ft bgs feet below ground surface
 mg/L milligrams per liter
 BTEX benzene, toluene, ethylbenzene, xylene
 TCE trichloroethene

Non-detects shown as < Method Detection Limit or < Reporting Limit, in order of preference.

Aerial Map Source: Aeromap 2002



LEGEND	
	Ground Water Monitoring Well
	Site Boundary
	Airport Boundary
	Proposed 2006 Monitoring Well
	Soil Sample Location

VOLATILE ORGANIC COMPOUNDS DATA

Sample Location	Screened Interval (ft bgs)	Sampling Date	1,1,1-Trichloroethane (mg/L)	1,1-Dichloroethane (mg/L)	Benzene (mg/L)	BTEX (mg/L)	cis-1,2-Dichloroethene (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	trans-1,2-Dichloroethene (mg/L)	TCE (mg/L)
13-MW-37	12 - 22	9/23/1987	< 0.0005		0.0011	0.0065		< 0.0002	0.0054	< 0.0005	< 0.0005
		9/19/1994	< 0.0000992	< 0.0000886	0.00005	0.00018	< 0.0000785	< 0.00011	0.00013	< 0.000131	0.00033
13-MW-38	12 - 22	9/23/1987	< 0.0005		0.0024	0.006		< 0.0002	0.0036	< 0.0005	0.003
		11/8/1987	< 0.0005		< 0.0002	< 0.0006		< 0.0002	< 0.0002	< 0.0005	0.0015
		9/19/1994	< 0.0000992	< 0.0000886	< 0.0000307	0.00003	0.0233	< 0.00011	0.00003	0.00133	0.00928
MW039	15 - 25	9/23/1987	< 0.0005		< 0.0002	0.0013		< 0.0002	0.0013	< 0.0005	< 0.0005



611TH AIR SUPPORT GROUP
 611TH CIVIL ENGINEER SQUADRON
 ELMENDORF AFB, ALASKA

FIGURE 1
 CTDSA SOUTH
 PROPOSED 2006 MONITORING WELL LOCATIONS

ERP SITE SS013
 GALENA AIRPORT, ALASKA

FUEL COMPONENTS DATA								
Sample Location	Screened Interval (ft bgs)	Sampling Date	Benzene (mg/L)	DRO (mg/L)	Ethylbenzene (mg/L)	GRO (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)
05-MCW-04	12 - 12.5	6/9/2004	< 0.00012		< 0.00031		< 0.00031	< 0.00093
05-MCW-05	12 - 12.5	6/9/2004	< 0.00012		< 0.00031		< 0.00031	< 0.00093
05-MCW-06	12 - 12.5	6/9/2004	< 0.00012		< 0.00033		< 0.00031	0.0007
05-MW-01	12.1 - 51.55	9/22/1992	0.024	0.87	0.00032	0.56	0.00041	< 0.0003
		8/16/1993	0.256	0.011	0.00137	0.69	0.000271	0.000569
05-MW-02	10.8 - 50.45	9/13/1992	0.01	< 0.2	0.0009	0.11	0.016	0.0024
		6/16/1993	< 0.00007	0.006	< 0.000088	0.042	< 0.000048	< 0.00015
		9/20/1994	0.00003	0.04	< 0.00011	< 0.05	< 0.0000336	< 0.000489
		7/23/1998	< 0.0005		< 0.001		< 0.001	< 0.001
		10/1/1998	< 0.00012		< 0.00017		< 0.00017	< 0.00019
		6/12/1999	< 0.00022		< 0.00017		< 0.00009	< 0.00049
		10/26/1999	< 0.00013		< 0.00016		< 0.00009	< 0.00049
		6/15/2000	< 0.000105	< 0.02	< 0.000098	< 0.02	< 0.0001	< 0.00027
		10/10/2000	< 0.000105	0.17	< 0.000098	< 0.021	0.00012	< 0.000266
		6/18/2001	< 0.000105	0.02	< 0.000098	< 0.0206	0.0002	< 0.000265
		10/10/2001	< 0.000105	0.16	0.00013	< 0.0206	0.00053	0.00206
		6/7/2004	< 0.00012	0.142	< 0.00031		< 0.00031	< 0.00093
10/24/2004	< 0.000226	0.079	< 0.000241		< 0.000202	< 0.000683		
05-MW-03	12.25 - 52	9/21/1992	36	12	1.4	270	33	4.5
		6/17/1993	2.95	0.11	0.117	11	1.53	0.368
		9/20/1994	4.53	2.1	0.33	17	2.2	
		10/1/1998	16		0.45		15	3.1
		6/16/1999	3.7		0.25		1.8	0.69
		10/30/1999	13		0.8		11	2.89
		6/21/2000	8.8		0.36		14	2.6
		6/28/2000		1.8				
		10/14/2000	13	5.5	0.235	23	5.5	1.11
		6/23/2001	< 0.000105	0.12	< 0.000098	< 0.0206	0.0002	< 0.000265
		6/24/2001	14	2.5	0.93	60	6.3	2.52
		10/10/2001	19	6.5	1.1	91	17	4.17
6/8/2004	2.34	0.314	0.153		0.0844	0.785		
10/24/2004	4.27	6.56	0.261		4.26	2.81		
05-MW-04	7 - 46.58	9/22/1992	45	9.5	1.3	270	31	4.2
		6/16/1993	33.2	1.5	0.615	170	10.2	1.57
		9/20/1994	27.2	15	0.81	110	13.4	
		10/6/2001	27	7.7	0.83	110	17	3.68
		6/8/2004	10.9	1.9	0.36		0.333	1.255
		9/21/1992	63	11	< 4	3000	160	271
05-MW-05	6.75 - 48.1	6/17/1993	17.3	0.77	0.336	42	3.9	0.923
		9/20/1994	41	8.9	0.741	130	19.1	
		10/1/1998	34		1.1		22	5.2
		6/16/1999	33		0.18		5.6	1.29
		10/31/1999	47		1		24	8.25
		6/21/2000	24		0.35	49	2.1	1.3
		6/28/2000		2.1				
		10/14/2000	50	64	0.97	78	23	4.8
		6/24/2001	19	3.1	0.24	58	1.1	1.24
		8/23/2002	30.2		0.586		7.08	2.039
		6/7/2004	18.5	3.66	0.17		0.66	1.08
		9/20/1992	< 0.0003	< 0.2	< 0.0002	< 0.1	< 0.0002	< 0.0003
6/16/1993	< 0.0001	0.004	< 0.000088	0.042	0.0000724	0.0000458		
9/11/1994	0.00007	0.053	< 0.00011	< 0.05	0.00005			
05-MW-06R	7 - 36.8	6/17/2001	< 0.000105	0.12	< 0.000098	< 0.0206	0.0003	< 0.000265
		10/3/2001	< 0.000105	0.22	< 0.000098	< 0.0206	0.0001	< 0.000265
		9/23/1987	18.5		0.625		6	0.33
		11/7/1987	23.3		1.9		23.9	< 0.0005
		9/1/1989	29		< 2.5		2.8	< 5
		12/6/1989	27		1.4		28	5.2
		6/6/1990	39		< 2.5		31	< 5
		9/13/1992	35	71	0.83	500	31	4.9
		9/20/1994	24.4	8.7	0.649	97	20.2	
		10/1/1998	29		0.65		25	5.1
		6/16/1999	32		0.53		29	4.1
		10/31/1999	130		2.2		360	9.7
6/21/2000	25		0.88	11	28	6.4		
6/28/2000		7.1						
10/14/2000	12	9.8	0.42	37	10	2.76		
6/24/2001	18	14	0.89	120	22	6.1		
10/10/2001	11	20	0.51	66	11	2.94		
6/7/2004	0.98	12.7	0.018		0.931	0.166		
05-MW-08	10 - 20	9/13/1992	< 0.0003	< 0.21	< 0.0002	< 0.1	< 0.0002	< 0.0003
		9/20/1987	< 0.0005		< 0.0005		< 0.0005	< 0.0005
05-MW-10	13 - 23	11/8/1987	41		2		39	< 0.0005
		9/1/1989	53		< 2.5		40	< 5
		6/6/1990	71		< 10		71	< 20
		9/13/1992	54	130	1.8	270	48	6.7

Sample Location	Screened Interval (ft bgs)	Sampling Date	Benzene (mg/L)	DRO (mg/L)	Ethylbenzene (mg/L)	GRO (mg/L)	Toluene (mg/L)	Xylenes, Total (mg/L)
05-MW-12	8 - 18	9/23/1992	< 0.0003	0.91	< 0.0002	< 0.1	< 0.0002	< 0.0003
		9/16/1993	0.0000309	0.007	< 0.0000813	0.017	0.0000223	0.0000268
05-MW-14	5.5 - 34.8	9/19/1994	0.00004	< 0.1	< 0.00011	0.038	0.00003	
		6/1/1997	< 0	0.105	< 0	< 0	< 0	< 0
		9/1/1997	< 0	0.114	< 0	< 0	< 0	< 0
		5/1/1998	< 0	0.15	< 0	< 0	< 0	< 0
		7/23/1998	< 0.0005		< 0.001		< 0.001	< 0.001
		10/1/1998	< 0.00012		< 0.00017		< 0.0001	< 0.00019
		6/11/1999	< 0.00022		< 0.00017		< 0.00009	< 0.00049
		10/27/1999	< 0.00013		< 0.00016		< 0.00009	< 0.00049
		6/16/2000	0.0016	0.23	0.0004	0.04	0.0059	0.0022
		10/10/2000	0.00013	0.1	< 0.000098	< 0.021	0.00013	< 0.000266
		6/19/2001	< 0.000105	0.098	< 0.000098	< 0.0206	0.0001	< 0.000265
		10/6/2001	< 0.000105	0.11	< 0.000098	< 0.0206	0.00036	< 0.000265
05-MW-15	6.2 - 35.5	9/15/1993	0.000024	0.036	< 0.0000436	0.049	0.0000732	0.0000373
		9/19/1994	0.00004	0.028	< 0.00011	0.01	0.00007	
05-MW-16		10/1/1998	< 0.00012		< 0.00017		< 0.0001	< 0.00019
		6/11/1999	< 0.00022		< 0.00017		< 0.00009	< 0.00049
		10/27/1999	< 0.00013		< 0.00016		< 0.00009	< 0.00049
		6/16/2000	< 0.000105	0.02	< 0.000098	< 0.02	< 0.0001	< 0.00027
		10/10/2000	0.00013	0.042	< 0.000098	< 0.021	0.00048	0.00051
		10/11/2000	< 0.000105	0.1	< 0.000098	0.033	0.00014	< 0.000266
		6/18/2001	< 0.000105	0.098	< 0.000098	< 0.0206	0.0001	< 0.000265
		10/6/2001	< 0.000105	0.056	< 0.000098	< 0.0206	0.00012	< 0.000265
		6/9/2004	0.00069	0.158	< 0.00031		< 0.00031	< 0.00093
		10/25/2004	< 0.000226	< 0.0732	< 0.000241		< 0.000202	< 0.000683
		10/1/1998	0.00056		< 0.00017		< 0.0001	< 0.00019
		6/18/2000	< 0.000105	0.09	< 0.000098	< 0.021	< 0.0001	< 0.00027
10/11/2000	< 0.000105	0.15	< 0.000098	< 0.021	< 0.0001	< 0.000266		
05-MW-17		6/20/2001	< 0.000105	0.13	< 0.000098	< 0.0206	0.0002	< 0.000265
		10/7/2001	< 0.000105	0.12	< 0.000098	< 0.0206	0.00028	< 0.000265
		6/7/2004	0.00027	0.183	< 0.00031		< 0.00031	< 0.00093
		10/27/2004	< 0.000226	< 0.0732	< 0.000241		< 0.000202	< 0.000683
		6/17/2001	< 0.000105	0.12	< 0.000098	< 0.0206	0.0003	< 0.000265
		10/3/2001	< 0.000105	0.14	< 0.000098	< 0.0206	0.0001	< 0.000265
05-MW-18	5 - 39.8	8/18/2004	< 0.00012	0.354	< 0.00031		< 0.00031	< 0.00093
		10/26/2004	< 0.000226	< 0.0732	< 0.000241		< 0.000202	< 0.000683
		6/18/2001	< 0.000105	0.034	< 0.000098	< 0.0206	0.0004	< 0.000265
		10/4/2001	< 0.000105	0.021	< 0.000098	< 0.0206	0.0003	< 0.000265
05-MW-19	8 - 37.8	6/7/2004	< 0.00012	0.0751	< 0.00031		< 0.00031	< 0.00093
		10/26/2004	< 0.000226	0.0598	< 0.000241		< 0.000202	< 0.000683
05-MWS-01		8/22/2002	19.8		0.794		4.82	1.374
05-RW-02		6/10/2004	13.5		0.26		< 0.155	0.89
BRWELL		4/7/2004	31.5	37.7	0.815	149	30	5.8
BRWELL		10/26/2004	10.7	1.34	0.0112		0.0102	0.556

LEGEND

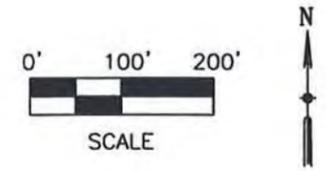
- ⊕ Ground Water Monitoring Well
- ◆ Microwell
- Airport Boundary
- Active POL Lines
- - - Inactive POL Lines
- x - x - Security Fence
- ⊗ Proposed 2006 Monitoring Well

NOTES:
 ft bgs feet below ground surface
 mg/L milligrams per liter
 DRO diesel-range organics
 GRO gasoline-range organics
 POL petroleum, oil and lubricants

Non-detects shown as <Method Detection Limit or < Reporting Limit, in order of preference.

Only locations where ground water samples were collected are shown.

Aerial Map Source: Aeromap 2002



FUEL COMPONENTS DATA									
Sample Location	Screened Interval (ft bgs)	Sampling Date	Benzene (mg/L)	DRO (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene (mg/L)		
06-MW-03	6.1 - 45.75	9/8/1992	< 0.0003	< 0.2	< 0.0002	< 0.0002	< 0.0003		
		6/9/1993	0.00336	0.004	0.0000948	0.0000741	0.000187		
		9/8/1994	0.00033	0.058	< 0.00011	< 0.0000336	< 0.000489		
		10/1/1998	0.00018		< 0.0001	< 0.0001	< 0.00019		
		6/12/1999	0.0027		< 0.00017	< 0.00009	< 0.00049		
		10/28/1999	0.001		< 0.00016	0.00011	< 0.00049		
		6/17/2000	0.0053	0.06	< 0.000098	0.0002	< 0.00027		
		10/12/2000	0.0014	0.14	< 0.000098	< 0.0001	< 0.000266		
		6/21/2001	0.003	0.1	< 0.000098	0.0004	< 0.000265		
		10/8/2001	0.00022	0.079	< 0.000098	0.00024	< 0.000265		
		8/23/2002	0.00375		0.0013	0.00055	0.00241		
		6/3/2004	0.00239		< 0.00031	< 0.00031	< 0.00093		
		10/21/2004	0.00028		< 0.000241	< 0.000202	< 0.000683		
09-MW-01	5.12 - 44.8	9/8/1992	0.11	< 0.19	0.018	< 0.002	0.009		
		6/13/1993	0.0956	0.072	0.00195	0.000271	0.000624		
		9/11/1994	0.114	0.29	0.0131	0.00024	0.00408		
		10/1/1998	0.081		0.0031	0.00027	0.0047		
		6/14/1999	0.13		0.00057	< 0.00009	< 0.00049		
		10/29/1999	0.053		0.0031	0.00038	0.0068		
		6/19/2000	0.12	0.23	0.0018	0.0004	0.0027		
		10/13/2000	0.028	0.2	0.00042	0.00017	0.00143		
		6/22/2001	< 0.000105	0.04	< 0.000098	0.0002	< 0.000265		
		6/23/2001	0.14	0.41	0.001	< 0.00049	0.009		
		10/8/2001	0.076	0.41	0.0085	0.00051	0.0204		
		10/9/2001	0.00027	0.052	< 0.000098	0.00064	0.00033		
		6/4/2004	0.128	0.95	0.00057	< 0.00031	0.00926		
10/23/2004	0.0568	0.501	0.00184	< 0.000202	0.00558				
09-MW-02	4.7 - 44.35	9/29/1992	0.00079	< 0.2	< 0.0002	< 0.0003			
		6/13/1993	0.04	0.01	0.000129	0.0002	0.000378		
		9/11/1994	0.0242	< 0.1	0.00005	0.00006	< 0.000489		
		7/23/1998	0.047		< 0.001	< 0.001	< 0.001		
		10/1/1998	0.021		< 0.00017	0.00021	< 0.00019		
		6/13/1999	0.11		< 0.00017	0.00014	< 0.00049		
		10/29/1999	0.0099		< 0.00016	0.00012	< 0.00049		
		6/18/2000	0.093	0.12	< 0.000098	0.0001	0.0003		
		10/13/2000	0.011	0.099	< 0.000098	< 0.0001	< 0.000266		
		6/22/2001	0.053	0.15	< 0.000098	0.0002	< 0.000265		
		10/8/2001	0.0048	0.03	< 0.000098	0.00011	< 0.000265		
		6/8/2004	0.0816	0.629	< 0.00031	< 0.00031	0.00084		
		10/24/2004	0.0038	< 0.0732	< 0.000241	< 0.000202	< 0.000683		
09-MW-15	5.4 - 34.7	9/14/1993	0.00549	0.003	0.0000166	0.0000907	0.0000344		
		9/11/1994	0.00068	< 0.1	< 0.00011	0.00004	< 0.000489		
		7/23/1998	0.0007		< 0.001	< 0.001	< 0.001		
		10/1/1998	0.00032		< 0.00017	< 0.0001	< 0.00019		
		6/10/1999	0.0019		< 0.00017	< 0.00009	< 0.00049		
		10/28/1999	0.00051		< 0.00016	< 0.00009	< 0.00049		
		6/17/2000	0.0043	0.07	< 0.000098	< 0.0001	< 0.00027		
		10/12/2000	0.00011	0.066	< 0.000098	< 0.0001	< 0.000266		
		6/20/2001	0.0059	0.068	< 0.000098	0.0002	< 0.000265		
		10/7/2001	0.0025	0.049	0.0001	0.0002	0.00073		
		6/4/2004	0.00458	0.226	< 0.00031	< 0.00031	< 0.00093		
		10/24/2004	0.00291	< 0.0732	< 0.000241	0.00021	< 0.000683		
		09-MW-18	5.4 - 34.7	10/1/1998	0.00562		< 0.00017	< 0.0001	< 0.00019
6/11/1999	0.0086				< 0.00017	< 0.00009	< 0.00049		
10/28/1999	0.0065				< 0.00016	< 0.00009	< 0.00049		
6/18/2000	0.013			0.26	0.0003	0.00041	0.0015		
10/12/2000	0.0016			0.11	< 0.000098	< 0.0001	< 0.000266		
6/21/2001	0.014			0.15	< 0.000098	< 0.000098	< 0.000265		
10/8/2001	0.0035			0.058	< 0.000098	0.00039	< 0.000265		
5/24/2004	0.0255			0.196	< 0.00031	< 0.00031	< 0.00093		
10/26/2004	0.0117			0.0618	< 0.000241	< 0.000202	< 0.000683		
09-MW-19	5 - 39.8			6/18/2001	0.006	0.092	< 0.000098	0.0002	< 0.000265
				10/3/2001	< 0.000105	0.061	< 0.000098	0.00016	< 0.000265
				5/24/2004	< 0.00012	0.131	< 0.00031	< 0.00031	< 0.00093
				10/25/2004	< 0.000226	< 0.0732	< 0.000241		< 0.000683
		6/18/2001	< 0.000105	0.063	< 0.000098	0.0003	< 0.000265		
09-MW-20	5 - 39.8	10/3/2001	< 0.000105	0.081	< 0.000098	0.00028	< 0.000265		
		5/24/2004	0.00314	0.161	< 0.00031	< 0.00031	< 0.00093		
		10/26/2004	< 0.000226	0.0944	< 0.000241	< 0.000202	< 0.000683		
09-MW-22	7.4 - 47.4	6/11/2004	0.0427	1.17	< 0.00031	< 0.00031	< 0.00093		
		10/24/2004	0.0913	0.941	< 0.000241	< 0.000202	0.00418		
09-MW-23	5.55 - 35.55	6/5/2004	0.00628	0.258	< 0.00031	< 0.00031	< 0.00093		
		10/24/2004	0.00991	0.328	< 0.000241	< 0.000202	< 0.000683		
09-MW-24	44.91 - 54.91	6/5/2004	0.0802	0.349	< 0.00031	< 0.00031	< 0.00093		
		10/24/2004	0.0852	0.453	< 0.000241	0.0003	< 0.000683		
09-MW-25	4.96 - 34.96	6/7/2004	< 0.00012	0.147	< 0.00031	< 0.00031	< 0.00093		
		10/25/2004	< 0.000226	< 0.0732	< 0.000241	0.00032	< 0.000683		
09-MW-26	44.8 - 54.8	6/7/2004	0.00535	0.162	< 0.00031	< 0.00031	< 0.00093		
		10/25/2004	0.0111	< 0.0732	0.00054	0.00097	0.00336		
		6/11/2004	< 0.00012	0.223	< 0.00031	< 0.00031	< 0.00093		
09-MW-27	5.33 - 35.33	8/18/2004	< 0.00012	0.325	< 0.00031	< 0.00031	< 0.00093		
		10/26/2004	0.0021	0.136	< 0.000241	< 0.000202	< 0.000683		

Sample Location	Screened Interval (ft bgs)	Sampling Date	Benzene (mg/L)	DRO (mg/L)	Ethylbenzene (mg/L)	Toluene (mg/L)	Xylene (mg/L)		
10-MW-01	5.33 - 44.98	9/7/1992	< 0.0003	< 0.2	< 0.0002	< 0.0002	< 0.0003		
		6/8/1993	0.000476	0.013	0.0000355	0.000113	0.000167		
		9/17/1994	0.0003	0.038	< 0.00011	0.00005	< 0.000489		
		2/1/1997	< 0	0.0002					
		6/1/1997	0.0005	< 0	< 0	< 0	< 0		
		9/1/1997	0.0006	0.067					
		5/1/1998	0.0002	0.2	< 0	< 0	< 0		
		7/22/1998	0.0013		< 0.001	< 0.001	< 0.001		
		10/1/1998	0.00067		< 0.00017	< 0.0001	< 0.00019		
		6/12/1999	0.00079		< 0.00017	< 0.00009	< 0.00049		
		10/27/1999	0.0002		< 0.00016	0.0003	0.00084		
		6/17/2000	0.0022	0.03	< 0.000098	< 0.0001	< 0.00027		
		10/11/2000	0.00019	0.06	< 0.000098	0.00048	0.00036		
10-MW-02	5.33 - 44.9	10/12/2000	0.0013	0.095	< 0.000098	< 0.0001	< 0.000266		
		6/20/2001	0.0035	0.084	< 0.000098	0.0001	< 0.000265		
		10/8/2001	0.0011	0.28	< 0.000098	0.00068	< 0.000265		
		8/23/2002	0.00039		< 0.00042	< 0.00036	< 0.00102		
		9/30/2002	0.00065		< 0.001	< 0.001	< 0.003		
		10/1/2002	0.00042		< 0.001	< 0.001	< 0.003		
		6/3/2004	0.00186	0.117	< 0.00031	< 0.00031	< 0.00093		
		10/23/2004	< 0.000226	< 0.0732	< 0.000241	< 0.000202	< 0.000683		
		10-MW-03	5.33 - 44.9	9/7/1992	0.31	2.4	0.23	0.079	0.98
				6/8/1993	0.153	0.65	0.0746	0.0558	0.403
				9/7/1994	0.027	0.5	< 0.0004	< 0.0004	0.013
				6/7/1993	0.0881	0.008	0.000146	0.000156	0.015
				9/11/1994	0.0829	0.042	0.0005	0.00004	0.03608
2/1/1997	0.13			0.00074					
6/1/1997	0.13			0.206	< 0	0.0008	0.009		
9/1/1997	0.015			0.093					
5/1/1998	0.257			0.68	0.0012	< 0			
10/1/1998	0.058				< 0.00017	< 0.0001	0.0072		
6/13/1999	0.16				< 0.00017	< 0.00009	0.03664		
10/30/1999	0.097				0.0008	< 0.00009	0.0188		
6/19/2000	0.082			0.16	< 0.000098	< 0.0001	0.016		
10/13/2000	0.023	0.15	< 0.000098	0.00015	0.00082				
6/22/2001	0.13	0.2	< 0.00049	< 0.00049	0.0237				
10/9/2001	0.094	0.6	0.0027	0.001	0.0419				
8/23/2002	0.12		< 0.00042	0.00458	0.0392				
10/1/2002	0.05		< 0.001	< 0.001	0.0672				
10/2/2002	0.053		< 0.001	< 0.001	< 0.003				
10/24/2004	0.198	0.39	0.00449	0.00097	0.0808				
10-MW-04	5.8 - 35.1	9/12/1993	0.0358	0.01	0.0000618	0.000144	0.00137		
1572-MW-01		6/30/2001	0.06		0.039	0.11	0.184		
1572-MW-02		6/30/2001	0.0039		0.0014	0.00028	0.0071		
1572-MW-03		6/30/2001	0.008		1.1	11	5		
		10/11/2001			7600				
		8/18/2004	7.7	3.7	0.734	7.68	4.7		
1572-MW-04		10/24/2004	7.2	3.17	1.2	12.6	5.23		
		6/30/2001	0.12		0.081	0.51	0.311		
		10/11/2001			10000				
		5/25/2004	2.56	4.94	0.216	0.45	1.47		
		10/24/2004	0.836	7.66	0.154	0.375	0.431		

NOTES:
 ft bgs feet below ground surface
 mg/L milligrams per liter
 DRO diesel-range organics
 POL petroleum, oil and lubricants

Non-detects shown as < Method Detection Limit or < Reporting Limit, in order of preference.

Only locations where ground water samples were collected are shown.

Aerial Map Source: Aeromap 2002

