

U.S. AIR FORCE
ELLSWORTH AFB, S.D.

Next RAB Meeting

Mark your calendars! The next Restoration Advisory Board meeting is scheduled for 7 p.m., December 5, 2013, at Douglas Middle School. For more information, please call (605) 385-2677, or (605) 385-5056.

VISIT OUR WEBSITE!

www.ellsworth.af.mil/library/environmental/restorationadvisoryboard.asp

View the following:

- RAB presentations
- Public announcements
- Meeting information
- Past newsletters

VISIT THE INFORMATION REPOSITORY!

The Information Repository is located at the South Dakota Air & Space Museum, and is available Monday through Friday from 8:30 a.m. to 4:30 p.m. View our website for more information.

Want to Use Your Private Well for Irrigation?

If you live east of Ellsworth Air Force Base (AFB) on the east water supply line and have a Memorandum of Agreement (MOA) with the Air Force, you may be prohibited from using your private well for any purpose.

The groundwater investigation and human health risk assessment documented in the October 2010 *Exit Strategy Report*, indicates that non-potable use of groundwater in the

east off-base groundwater plume, would not result in unacceptable human health risks.

Non-potable water is unfit for human consumption, but is clean enough for a variety of other uses, including:

- Landscape Irrigation
- Garden Irrigation
- Livestock Watering
- Swimming

If you are interested in using your

private water well, please submit your written request with a site map showing the new or existing well's location, to the Ellsworth environmental office:

Melody Jensen
28 CES/CEIER
2125 Scott Drive
Ellsworth AFB, SD 57706

After submitting your request, a new MOA will be prepared and legally reviewed.

TCE Continues to Decline in Groundwater East of Base

Ellsworth collects 30 groundwater samples annually from monitoring wells located east of the base (see reverse page). In 2012 and 2013, all off-base monitoring wells had concentrations below the Maximum Contaminant Level (MCL) for trichloroethene (TCE).

Once the milestones for site closeout have been met, the east off-base por-

tion of the groundwater plume can be deleted from the National Priorities List, the monitoring wells abandoned, and remaining groundwater use restrictions can be removed.

After groundwater use restrictions are lifted, Ellsworth will no longer be obligated to provide free water to those landowners currently receiving free water. At that point, landowners

will be responsible for paying their own water bill. The earliest this could happen is during 2015, although it is possible that it could take longer.

When groundwater use restrictions are lifted, it will be okay to install new wells and use existing wells without a modified MOA.

Emerging Contaminants PFOS and PFOA at OU-1

Perfluorinated compounds (PFCs) are man-made compounds present in commonly used products like non-stick coatings (Teflon), food packaging, and stain repellents (Scotchgard). PFCs are also present in fire-fighting foams.

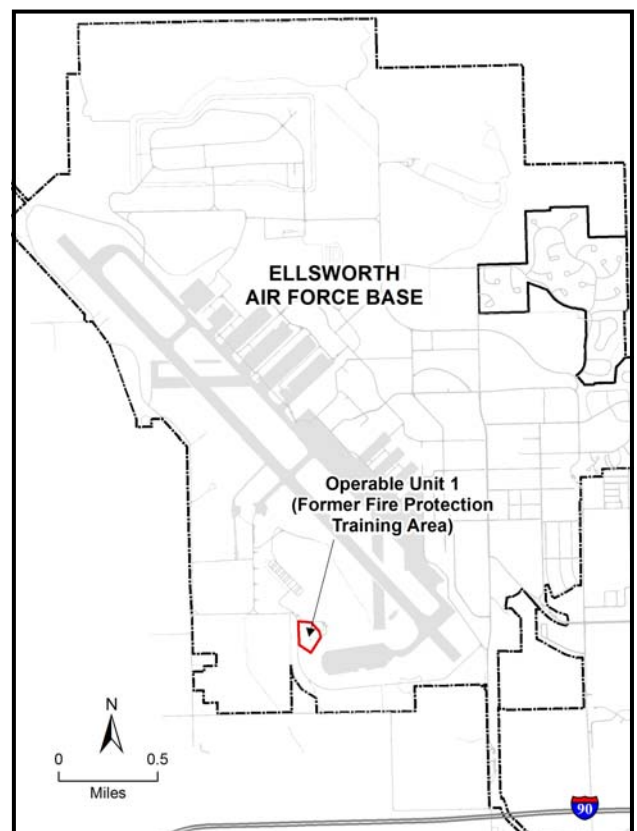
There are many PFCs, but the two with U.S. Environmental Protection Agency provisional health advisory levels are perfluorooctane sulfonate (PFOS) and perfluorooctanoic acid (PFOA).

During a research project at Operable Unit 1 (OU-1) (Former Fire Protection Training Area) at Ellsworth, PFOS and PFOA were detected in soil and groundwater above provisional health advisory levels. Fire fighting foam was used at the site from approximately 1970 to 1990.

Upcoming Work

OU-1 is the test site for a new treatment technology, and implementation is currently underway.

The Air Force recently awarded a contract to investigate the extent of PFCs in soil and groundwater at OU-1, including possible off-base impacts to the south.



Location of Operable Unit 1

East Off-Base Plume TCE Results (Starting in 2010)

Map ID	Well ID	Four + Samples Available (starting 2010)?	Trend	<MCL for three Consecutive Years?	Spring 2010 TCE Result (µg/L)	Spring 2011 TCE Result (µg/L)	Spring 2012 TCE Result (µg/L)	Spring 2013 TCE Result (µg/L)	Consecutive Years <MCL
A	MW96BG0408	Yes	S	Yes	2.1	1.6	1	2.3	4
B	MW96BG0422	Yes	NT	Yes	0.44F	0.78F	1.2	0.90 J	4
C	MW96BG0425	Yes	S	Yes	2.7	2	1.6	2.1	4
D	MW972406	Yes	NT	Yes	2.4	2.4	3	2.6	4
E	MW972408	Yes	S	Yes	3	3.1	2.4	2.6	4
F	MW972410	Yes	S	Yes	5.3	4.2	3.3	3.3	3
G	MW982415	Yes	NT	Yes	0.32F	0.31F	0.36F	0.44 J	4
H	MW982416	Yes	D	Yes	5.6	4.6	4.1	3.4	3
I	MW982422	Yes	S	Yes	3.8	3	2.4	2.4	4
J	MW002422	Yes	D	Yes	3.9	3	2.7	2.4	4
K	MW002423	Yes	ND	Yes	<1	<1	<1	<0.25	4
L	MW09OB01	Yes	D	Yes	3.6	3	2.7	2.4	4
M	MW09OB02	Yes	D	Yes	3.9	3.2	2.9	2.6	4
N	MW09OB03	Yes	S	Yes	4.9	3.6	3.6	3.2	4
O	MW09OB04	Yes	D	No	6	5.3	4.5	3.8	2
P	MW09OB05	Yes	D	Yes	5.3	4.4	3.9	3.5	3
Q	MW09OB06	Yes	D	Yes	5.5	4.4	4.3	3.5	3
R	MW09OB07	Yes	D	No	6	5.1	4.4	4.1	2
S	MW09OB08	Yes	D	Yes	4.9	4.6	4.4	3.8	4
T	MW09OB09	Yes	ND	Yes	<1	<1	<1	<0.25	4
U	MW10OB01	Yes	S	Yes	3.6	2.5	2.5	2.1	4
V	MW10OB02	Yes	D	Yes	4.8	3.6	2.6	2.5	4
W	MW10OB03	Yes	I	Yes	2.4	2.6	3.7	4.2	4
X	MW10OB04	Yes	S	Yes	2.8	2.4	2	4.2	4
Y	MW10OB05	Yes	D	Yes	3.8	3.4	2.8	2.7	4
Z	MW10OB06	Yes	S	Yes	5	4.3	3.5	3.6	3
AA	MW10OB07	Yes	D	No	5.9	5	4.3	3.7	2
BB	MW10OB08	Yes	NT	Yes	3.2	3.5	3.1	3.6	4
CC	MW10OB09	Yes	S	Yes	4.5	3.7	2.8	2.8	4
DD	MW10OB010	Yes	NT	Yes	1.2	1.5	1	1.6	4

Notes:

F or J = Result between method detection limit and reporting limit.

<1 = Below reporting limit

D = Decreasing; I = Increasing; NT = No Trend; S = Stable

µg/L = microgram per liter (part per billion)

Bold = Detected at or above the Maximum Contaminant Level (MCL) of 5 µg/L.

