

CORRES CONTROL  
INCOMING LTR NO

00950RF 99

DUE DATE  
ACTION



Department of Energy

ROCKY FLATS FIELD OFFICE  
P O BOX 928  
GOLDEN COLORADO 80402-0928

1 AUG 99 9:31  
REELS-CC-

DOE-99-03464

26 '99

DIST	LTR	ENC
BENSUSSEN, S J		
BOGENBERGER, V		
BRAILSFORD, M D		
CARD, R G		
COSGROVE, M M		
COX, C M		
CRAWFORD, A C		
DEJONG, V J		
DERBY, S		
DIETERLE, S E		
FERRERA, D W		
FERRERA, K P		
FULTON, J C		
GERMAIN, A L		
HARDING, W A		
HARROUN, W P		
HEDAHL, T G		
LEONARD, R C		
LEWIS, M R		
MARTINEZ, L A		
NORTH, K		
PARKER, A M		
PHILLIPS, F J	X	
POLSTON, S		
RODGERS, A D		
SANDLIN, N B		
SHELTON, D C		
SPEARS, M		
TUOR, N R		
VOORHEIS, G M		
WARTHER, R F		
<i>King</i>		
<i>Angton, C</i>		
<i>Smith, R</i>		

Mr Steve Gunderson  
Colorado Department of Public Health and Environment  
Hazardous Materials and Waste Management Division  
4300 Cherry Creek Drive South  
Denver, Colorado 80246-1530

Dear Mr Gunderson

Enclosed please find a discussion of the final resolution of comments to the *Sampling and Analysis Plan for the D&D Groundwater Monitoring of Buildings 444, 771, and 886*. This discussion summarizes the results of the meeting held among the Rocky Flats Environmental Technology Site staff, the Environmental Protection Agency, Region VIII, and your organization on July 21, 1999

Also enclosed please find the monitoring well location changes in Figure 1-1, Figure 1-2, and page 25 of the Sampling and Analysis Plan (SAP). Please review the accompanying documentation comment and resolution and let us know if these are sufficient for approval of the SAP

If you should have any technical questions related to this document, please contact Norma I Castaneda at 303-966-4226 or contact me at 303-966-5918

Sincerely,

Joseph A. Legare  
Assistant Manager  
for Environment and Infrastructure

Enclosure

Reviewed for Addressee  
Corres Control RFP

8/30/99 *JK*  
Date By

Ref Ltr #

DOE ORDER # *None*

1/6



ADMIN RECORDED  
IA-IA-A-00223

Steve Gunderson  
DOE-99-03464

2

cc w/Enclosure  
G Kleeman, EPA  
T Rehder, EPA  
C Spreng, CDPHE  
E Pottorff, CDPHE  
Administrative Record

cc w/o Enclosure  
J Rampe, DAMEI, RFFO  
R Tyler, ERWM, RFFO  
N Castaneda, ERWM, RFFO  
B Ninninger, K-H  
C Dayton, K-H  
R Smith, RMRS

Responses provided by Rob Smith, RMRS

Below are the final comment resolutions remaining from the July 21st meeting with EPA and CDPHE that pertain to the Building 444, 771, and 886 D&D Groundwater Monitoring Sampling and Analysis Plan

**1 Regarding types of samples to be collected --**

**CDPHE Comment:** It is not clear whether soil samples will be collected from these boreholes for chemical analysis

**EPA Comment** During borehole drilling, if the field instruments detect contaminants, the core should be sampled and sent to a lab for appropriate analysis

*As agreed in the comment resolution meeting held between the Site, EPA, and CDPHE on July 21, 1999, the Sampling and Analysis Plan has been modified to include collection of soil samples if volatile organic or radiological field screening indicates the potential presence of these contaminants during drilling. EPA will arrange to have VOC samples analyzed at an EPA-contract laboratory upon notification of sample collection by Site personnel. Samples for radiological analysis will be held until sources of funding can be secured by Site personnel. The changes are already reflected in Revision 0 of the controlled SAP.*

**2 Regarding suggested additional wells --**

**CDPHE Comment.** Section 4.1.2, page 25 - The proposed sampling scheme at Building 771/771C/774 should be modified. Another well should be added along the north side of Building 771 between wells 40599 and 40699, and a well needs to be added north of the northern extent of Building 774

**EPA Comment:** Regarding building 771, two or three wells are needed on the west and south sides of the building in order to provide a better understanding of the existing contaminant plume and flow paths

*Seven new monitoring wells and two existing wells will comprise the monitoring network at Building 771 (see Figure 1-2). Additional wells have been added to the west, south, and north sides of the building complex in response to EPA and CDPHE comments recommending improved coverage in these areas. Well P219089 has been replaced by a new monitoring well located at the northern end of Building 774 to better monitor post D&D groundwater conditions associated with the foundation drain system of this building. These changes are reflected in a page revision to the controlled SAP (see attached page 25)*

*Regarding the other buildings, six new monitoring wells will be installed at Building 444 as agreed in the meeting (see Figure 1-1). A seventh well, P419689, has been added to the monitoring network to improve well coverage at the southeast corner of the complex. No changes have been made to the Building 886 monitoring network. This change is already reflected in Revision 0 of the controlled SAP.*

#### 4 1 2 Building 771

Seven (7) new and two (2) existing monitoring well locations have been chosen to monitor groundwater quality associated with Building 771 and associated buildings 771C and 774. Three (3) wells will be positioned south of Buildings 771 and 774 to monitor upgradient groundwater quality, and six (6) wells will be positioned north and west of Buildings 771, 771C, and 774 to monitor downgradient groundwater quality. Figure 1-2 illustrates the location of these wells with relationship to Building 771 and surrounding features. The total number and arrangement of wells reflects the spatial distribution of potential contaminant releases at the building and uncertainty regarding unsaturated areas in the vicinity. Individual well locations were determined with respect to potential contaminant source areas (as reviewed in the HRR), and an assumed northerly groundwater flow direction. Well names were assigned based on the five digit numbering system adopted by ER in 1992. The rationale for each new monitoring well location is summarized in Table 4-2.

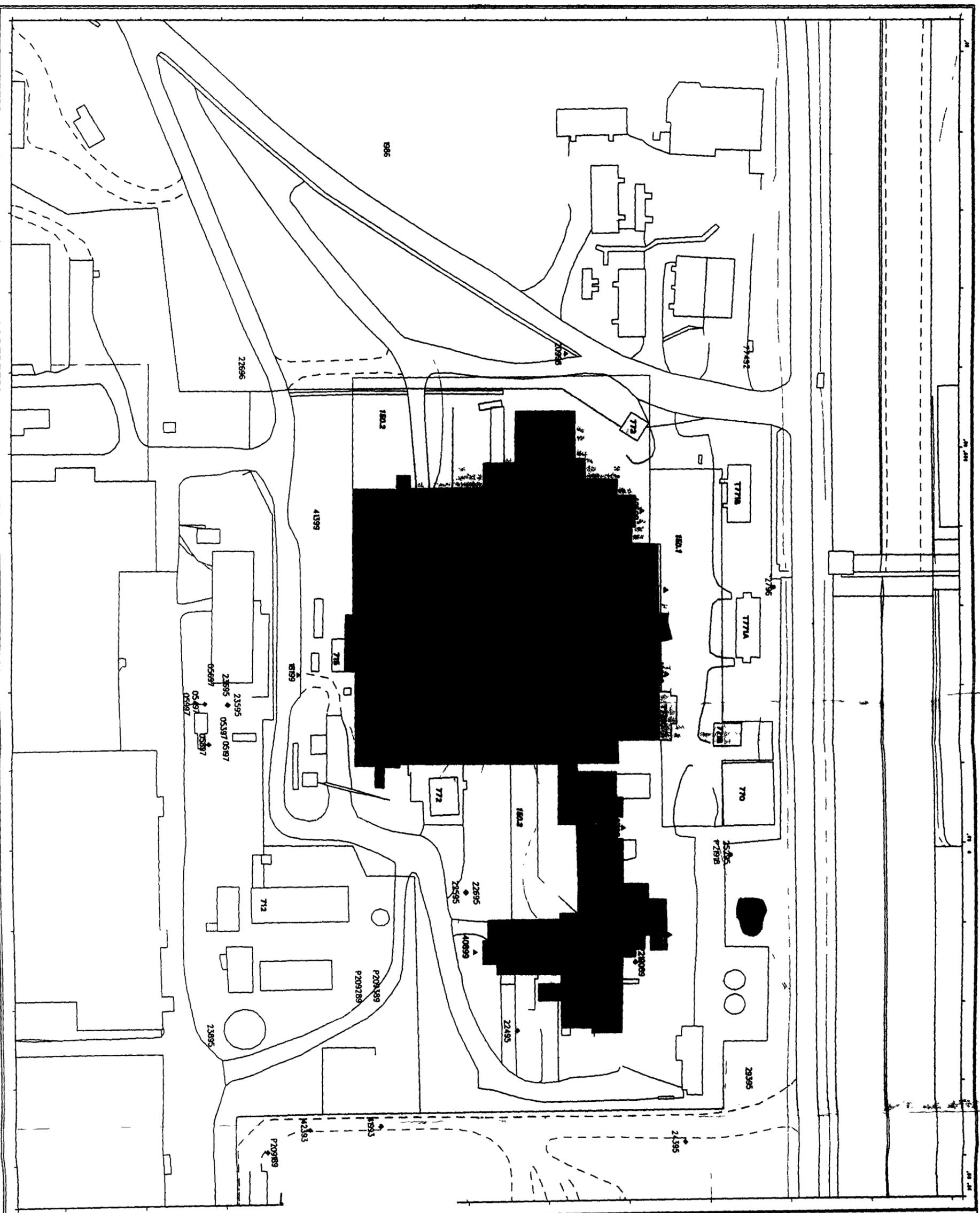
*Table 4- 2 Building 771 Monitoring Well Location Rationale*

Well Number	Location	Rationale
40599	NW corner B771	Monitor downgradient groundwater quality
40699	North side B771, 70 feet west of NE corner	Monitor downgradient groundwater quality
40799	North side B771C, center of building	Monitor downgradient groundwater quality Building 771C, specifically process lines leak
40899	South side south wing B774	Monitor upgradient groundwater quality specifically six process waste tanks
41399	South side, southwest corner B771	Monitor upgradient groundwater quality
41499	North side B771, center of building	Monitor downgradient groundwater quality
41599	North side B774, center of building	Monitor downgradient groundwater quality
20998	West side near northwest corner B771	Monitor downgradient groundwater quality
18199	South side southeast corner B771	Monitor upgradient groundwater quality

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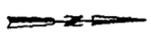
**Figure 1-2**  
**Building 771 Site Location**  
**Existing and Proposed Monitoring Wells**



**EXPLANATION**

- Program Wells
- ◆ All Other Wells (Abandoned Wells Not Included)
- ▲ Location of Proposed Monitoring Wells
- Industrial Area Operable Units
  - Pursuant 8771 IHSSa
- Standard Map Features
  - Building and other structure
  - ▨ Solar evaporation pond
  - Lakes and ponds
  - Streams, ditches, or their drainage feature
  - Fence and other barriers
  - Contour (20-Foot)
  - Paved road
  - Dirt roads

DATE: 08/15/00  
 DRAWN BY: [illegible]  
 CHECKED BY: [illegible]  
 APPROVED BY: [illegible]  
 PROJECT: [illegible]  
 SHEET: [illegible]



Scale 1" = 100'  
 1 inch represents approximately 97 feet

State Plane Coordinate Projected  
 Colorado Central Zone  
 Datum: NAD83

U.S. Department of Energy  
 Rocky Flats Environmental Technology Site



