

**From:** Mark Ring <sup>RB</sup>  
**To:** Anne Boland  
**Date:** 2/17/06 7:30AM  
**Subject:** Re: Fwd: Tritium sampling at Dresden

Anne,

DRP did not communicate that. It was my understanding from yesterday's meeting that Mark Mitchell was going to make that communication.

-Mark

>>> Anne Boland 02/16/06 7:51 PM >>>

Thanks.....I think I'm OK with that and I'll just let Jim know what we have done. Have we communicated to the licensee that we want them to hold split samples for us?

Anne T. Boland, Deputy Director  
Division of Reactor Safety  
NRC Region III  
630-829-9701

>>> Mark Ring 02/16/2006 5:31:05 PM >>>

Folks,

Desiree observed the licensee's daily sampling for wells E-3, E-5, DSP-116, DSP-124, & E-8. The licensee's staff followed their procedures, used good practices, and counted the samples in their scintillation counter machine. The technicians performed 1 activity at a time to ensure no cross-contamination of samples. Everything seemed to be properly performed and well controlled. Please use the attached drawings and sample sheets to understand the following: The licensee makes daily samples of a varying number of wells, usually around 12-15. They sample 7 specific ones near the leakage source each time and vary the additional wells to check different areas of the plant. Those are E-3 (near the leakage source), DSP-131 and DSP-132 (plant outfall wells to ensure nothing is getting off site), DSP-140 (tracking the 2004 plume going NE), DSP-116 (tracking the 2004 plume going SE), T-6 (tracking the 2004 plume going NW) and sewer K (this was where the 2004 plume was initially detected). K has not shown any observable trend, so it was not sampled today and the licensee plans to substitute a different well for the sewer K. Note: the residue from the 2004 CST/HPCI line leakage is still in the ground at the site. As the site receives rainfall or doesn't, the 2004 plume can be detected in different wells near the original excavation. When you look at the tables, you'll see some wells spike up and then drop off. The licensee considers these to be due to the 2004 plume changing with rainfall. Unless there is a driving reason, I don't see value in having the residents observe additional licensee sampling. If we need to continue resident observation, please let me know. All I have for now.

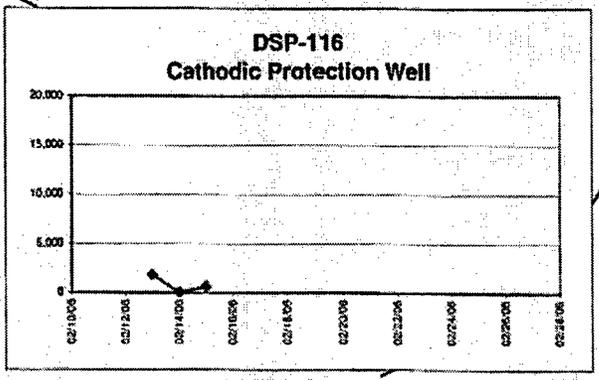
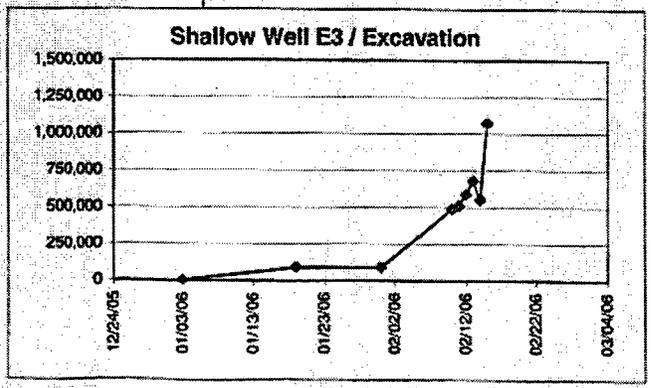
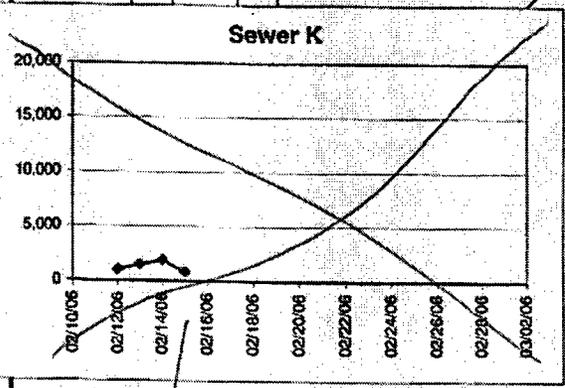
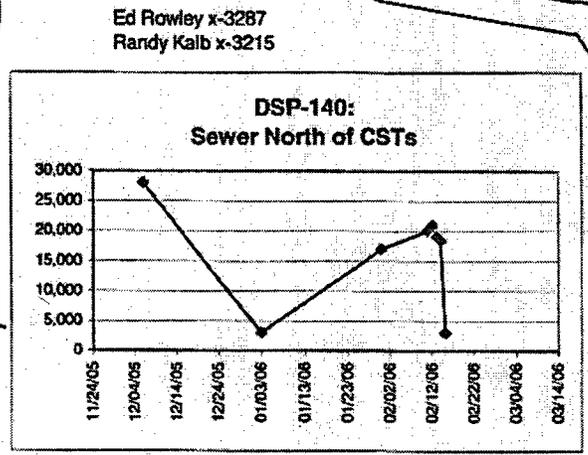
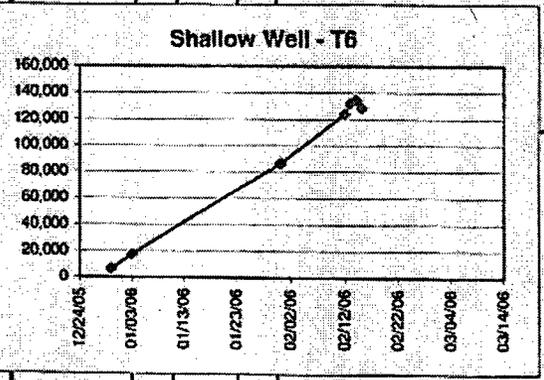
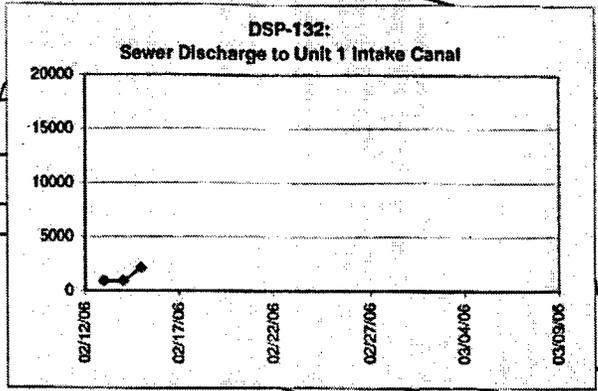
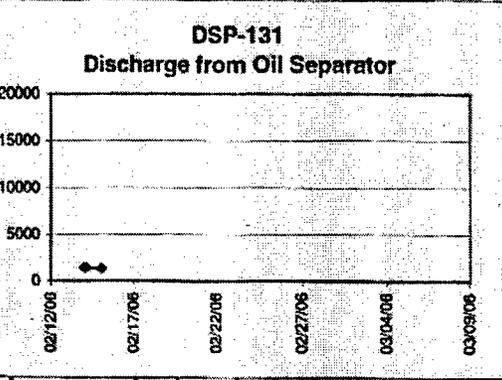
-Mark

C-42

# Dresden Station - Groundwater Monitoring - Map 1 of 2

Short Term Monitoring Program Initiated 02-13-06

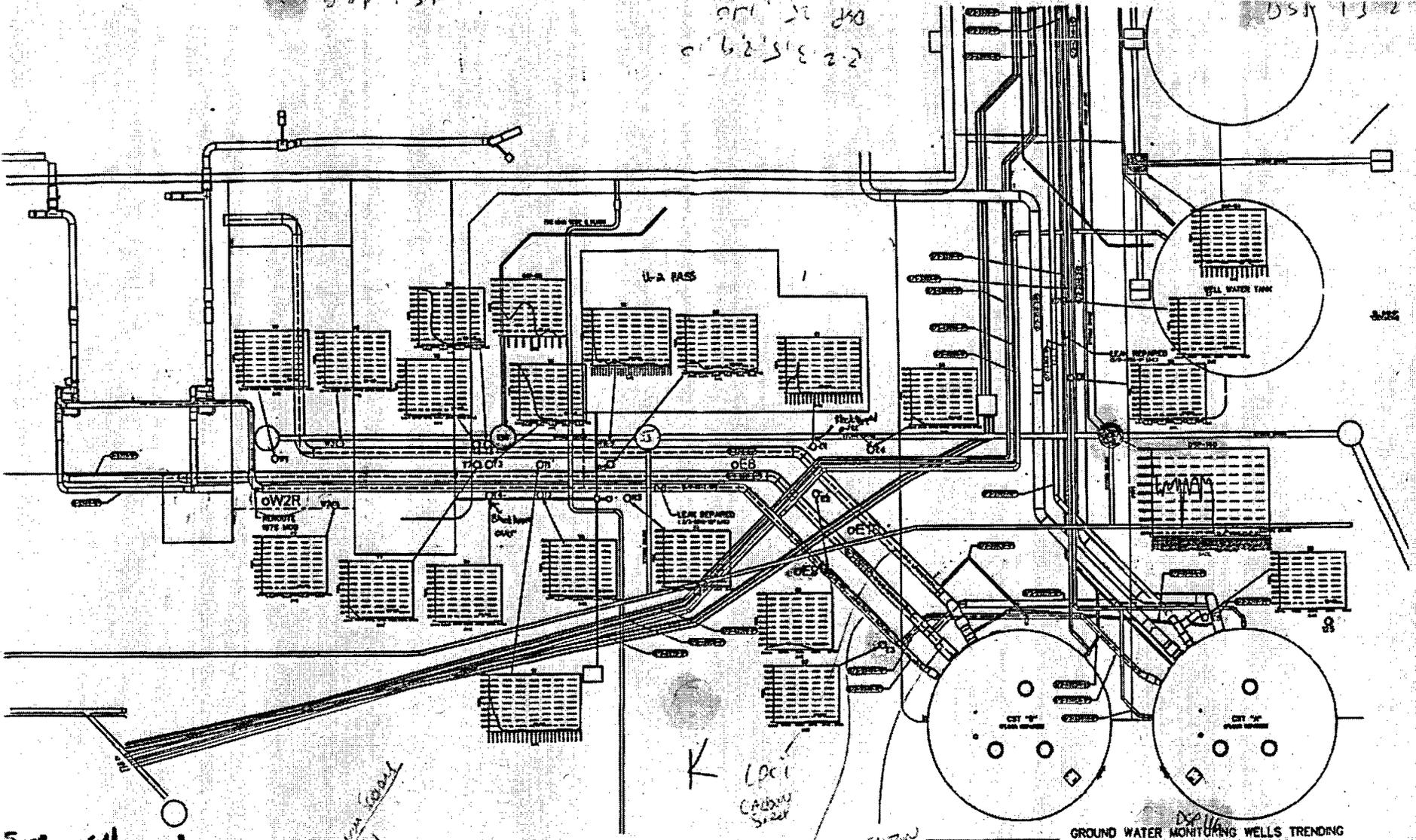
This data was printed on: 2/16/06 8:45 AM



*will replace w/ DSP 124*

22352910  
011 22 240  
011 22 240

DSR 132



5-8 - galvanized  
4 1/2" pipe

Change Record  
131  
132

K LOC  
CAUSING  
SPOIL  
RETURN  
AI

SECTION  
AI

INFORMATION ONLY

GROUND WATER MONITORING WELLS TRENDING  
PIPE TRENCH SAMPLE POINTS  
TRITIUM CONCENTRATIONS  
DRESDEN SITE ENGINEERING  
ComEd  
02/7/78

Handwritten signature or notes in the bottom right corner.

normal 6 + 6

Samples for 2/16/06

~~10/1/06~~  
9/27/06  
2/16/06

- ✓ E-3
- Excavation Groundwater
- 'A' CST Day house
- E-5
- DSP 131
- DSP 132
- DSP 140
- DSP 116
- DSP 124
- E-8
- T-6
- T-1
- K not sampled due no observed trend

ISOTOPIC

- Excavated Soil

Normal 7 + 6

WY 1000  
2/15/06

2/15/06

- E-3
- DSP-131
- DSP-132
- K
- DSP 140
- DSP-116
- T-6
- ~~E-9~~ inaccessible
- E-10
- E-8
- E-2

{ Sample <sup>(DIO)</sup> from Ditch near E-3 (Tritium + Isotopiz)  
Soil sample for Isotopiz in Ditch.

A' CST doghouse sample (every other day)

E-5

\* Add DSP 124

normal 7 + 9

work  
site  
outside  
site

2/14/06

## Sampling for today:

- 'A' <sup>+B'</sup> CST for Triticum + Isotopiz
- E-3
- DSP-131
- DSP-132
- K
- DSP 140
- DSP 116
- T-6
- E-9
- E-10
- E8
- E-2
- excavation
- Domestic H<sub>2</sub>O (wanted to ensure for workers)
- 'A' CST Doghouse

normal 7+7

W. H. H. H. H.  
all  
out  
S. H. H.

DSP 131 ✓ —(no water)

DSP 132 ✓

WZR ✓

T-6 ←

J ✓

K ✓

E-9 ✓

E-10 ←

E-3 ✓

E-5 ✓

DSP 125

DSP 140 ✓

E-6 ←

1-13-06

8334, Progress,  
Tribin, 2006,  
(one file in 2006  
will have all  
data)

- Cathodic Protection Well (south of CST storage)

Future daily samples

Per David/Kevin/Ed/Pinder  
on 2/13/06 @ 4:15pm

DSP 131,

DSP 132.

K

E-3 (Hole)

DSP 140

\*Cathodic Well (south of CST) — DSP 116

T-6

→ send daily results to David (Wast Ready to send them)

(in next two weeks — Peter)

at 11:00 am or 10:00 am

## Tritium Leak Data

Sample point	Time	Date	Tritium (pCi/liter)
DSP-131	11:10	12/6/2005	3,000
DSP-132	11:20	12/6/2005	5,000
DSP-134	11:25	12/6/2005	10,000
DSP-137	11:05	12/6/2005	8,000
DSP-140	11:30	12/6/2005	28,000
DSP-135	8:45	12/30/2005	31,000
W2R	8:25	12/30/2005	63,000
W3	8:20	12/30/2005	12,000
T1	8:34	12/30/2005	128,000
T2	8:35	12/30/2005	3,000
T6	8:30	12/30/2005	6,000
W2R	9:10	1/4/2006	93,000
W3	14:10	1/3/2006	7,000
T1	14:00	1/3/2006	84,000
T2	14:05	1/3/2006	3,000
T6	13:20	1/3/2006	17,000
R1	13:05	1/3/2006	1,000
R2	13:10	1/3/2006	2,000
R3	13:15	1/3/2006	1,000
E2	13:00	1/3/2006	1,000
E3	12:55	1/3/2006	5,000
E5	9:30	1/4/2006	1,000
E9	9:20	1/4/2006	24,000
E10	9:15	1/4/2006	2,000
DSP-131	11:25	1/3/2006	1,000
DSP-132	11:35	1/3/2006	2,000
DSP-134	11:40	1/3/2006	12,000
DSP-135	13:25	1/3/2006	184,000
DSP-137	11:15	1/3/2006	1,000
DSP-140	11:45	1/3/2006	3,000
E3	10:35	1/19/2006	89,000
E9	10:40	1/19/2006	1,000
DSP-135	10:45	1/19/2006	35,000
W2R	12:08	1/31/2006	60,000
W3	12:10	1/31/2006	21,000
T1	12:00	1/31/2006	46,000
T2	12:04	1/31/2006	2,000
T6	12:06	1/31/2006	86,000
E3	12:25	1/31/2006	90,000
DSP-135	12:20	1/31/2006	30,000
DSP-140	12:15	1/31/2006	17,000
E3	10:15	2/10/2006	476,000
E9	10:15	2/10/2006	486,000
E2	9:15	2/11/2006	LLD
E3	9:19	2/11/2006	506,000
E3	9:19	2/11/2006	510,000
E5	9:55	2/11/2006	LLD
E7	12:45	2/11/2006	LLD
E8	9:10	2/11/2006	1,000
E9	9:16	2/11/2006	LLD
E10	9:25	2/11/2006	5,000
T5	9:00	2/11/2006	51,000
DSP-125	9:43	2/11/2006	LLD
DSP-131	12:19	2/11/2006	1,000
DSP-132	12:30	2/11/2006	1,000
DSP-140	9:35	2/11/2006	20,000

Tritium Leak Data				
Sample point	Time	Date	Tritium (pCi/liter)	
Domestic Water	15:22	2/12/2006	LLD	200
E3	16:32	2/12/2006	589,000	
E9	16:20	2/12/2006	2,000	
E10	16:25	2/12/2006	5,000	
T6	16:13	2/12/2006	124,000	
DSP-135	16:15	2/12/2006	24,000	
DSP-140	16:30	2/12/2006	21,000	
E3	13:17	2/13/2006	680,100	5.05'
E5	13:37	2/13/2006	1,500	5.22'
E8	15:25	2/13/2006	1,300	2.52'
E9	15:30	2/13/2006	1,400	2.75'
E10	13:25	2/13/2006	6,300	2.66'
T6	15:57	2/13/2006	131,800	6.45'
W-2R	14:10	2/13/2006	63,800	2.78'
DSP-116	15:45	2/13/2006	1,800	11.00'
DSP-125	15:38	2/13/2006	1,500	
DSP-132	13:03	2/13/2006	900	
DSP-140	13:10	2/13/2006	19,100	
Storm sewer J	13:55	2/13/2006	29,000	
Storm sewer K	14:03	2/13/2006	1,500	
E2	14:04	2/14/2006	600	5.83'
E3	13:25	2/14/2006	550,400	5.22'
E8	13:15	2/14/2006	2,700	2.52'
E9	13:22	2/14/2006	1,800	2.85'
E10	14:01	2/14/2006	6,200	2.78'
T-6	13:19	2/14/2006	134,300	6.46'
DSP-116	13:46	2/14/2006	LLD	11.17' 0
DSP-131	12:45	2/14/2006	1,400	
DSP-132	12:55	2/14/2006	900	
DSP-140	13:07	2/14/2006	18,400	
Storm sewer K	13:04	2/14/2006	1,900	
Excavation groundwater	11:35	2/14/2006	75,200	
Domestic Water	14:45	2/14/2006	LLD	0
2/3 A CST	9:18	2/14/2006	7,380,800	
2/3 B CST	9:13	2/14/2006	7,359,800	
2/3 A CST dog house		2/14/2006	LLD	100
E2	15:30	2/15/2006	1,400	8'
E3	17:57	2/15/2006	1,089,400	Riser shortened
E5	16:10	2/15/2006	LLD	6' 200
E10	15:32	2/15/2006	4,700	3'
T6	14:00	2/15/2006	128,300	6'
DSP-116	15:45	2/15/2006	600	11'
DSP-131	13:30	2/15/2006	1,300	
DSP-132	13:45	2/15/2006	2,100	
DSP-140	14:20	2/15/2006	2,900	
Storm sewer K	15:25	2/15/2006	800	
2/3 A CST dog house	14:20	2/15/2006	1,100	
2/3 A CST dog house	15:20	2/15/2006	400	
Excavation groundwater	15:20	2/15/2006	21,100	