

## "HYDROCONE" AND AUGER SOIL SAMPLING LOCATIONS

## RADIOACTIVITY RESULTS

<u>SAMPLE</u>	<u>DEPTH</u>	<u>RESULTS, pCi/G</u> <u>GROSS ALPHA</u>
HC-1	1.5-3'	5.4
	4.5-6'	4.6
	7.5-9'	4.4
HC-2	1.5-3'	5.1
	4.5-6'	4.1
	7.5-9'	5.1
HC-3	1.5-3'	5.2
	4.5-6'	5.0
	7.5-9'	4.9
HC-4	1.5-3'	5.7
	4.5-6'	7.8
	7.5-9'	5.7
HC-5	1.5-3'	18.5
	4.5-6'	8.1
	7.5-9'	9.0
HC-6	1.5-3'	12.8
	4.5-6'	6.8
	7.5-9'	9.0
HC-7	1.5-3'	9.5
	4.5-6'	7.3
	7.5-9'	30.5
HC-8	1.5-3'	8.8
	4.5-6'	9.3
	7.5-9'	14.0
HC-9	1.5-3'	11.3
	4.5-6'	22.5
	7.5-9'	12.3
HA-14	2-3'	18.3
	5-6'	44.3
	8-9'	4.2
HA-15	2-3'	21.3
	5-6'	28.8
	8-9'	18.4
HA-16	2-3'	9.3
	5-6'	6.0

*all soil  
at hydrocone location*

*auger*

*abstraction*

**"HYDROCONE" AND AUGER SOIL SAMPLING LOCATIONS**

**NITRATE RESULTS**

<u>SAMPLE</u>	<u>DEPTH</u>	<u>RESULTS, mg/liter</u> <u>NITRATE</u>
HC-1	1.5-3'	0.9
	4.5-6'	0.4
	7.5-9'	0.3
HC-2	1.5-3'	0.9
	4.5-6'	4.3
	7.5-9'	2.2
HC-3	1.5-3'	2.0
	4.5-6'	1.4
	7.5-9'	1.1
HC-4	1.5-3'	0.9
	4.5-6'	1.2
	7.5-9'	1.7
HC-5	1.5-3'	2.0
	4.5-6'	4.0
	7.5-9'	2.4
HC-6	1.5-3'	0.5
	4.5-6'	1.0
	7.5-9'	2.0
HC-7	1.5-3'	0.9
	4.5-6'	0.7
	7.5-9'	0.5
HC-8	1.5-3'	0.5
	4.5-6'	0.6
	7.5-9'	1.2
HC-9	1.5-3'	0.1
	4.5-6'	0.2
	7.5-9'	0.5
HA-14	2-3'	1.5
	5-6'	0.9
	8-9'	1.0
HA-15	2-3'	0.9
	5-6'	0.5
	8-9'	0.6
HA-16	2-3'	1.8
	5-6'	1.8

*Soil*

**"HYDROCONE" AND LIQUID WELL SAMPLES**  
**RADIOACTIVITY RESULTS**

<u>SAMPLE</u>	<u>DEPTH</u>	<u>RESULTS</u> $\mu\text{Ci/ml} \times 10^{-6}$	
		<u>GROSS ALPHA</u>	<u>GROSS BETA</u>
HC-1	(15)	0.005	0.012
	(24)	0.005	0.012
HC-2	(11)	0.005	0.012
	(18)	0.006	0.012
HC-3	(11)	0.006	0.012
	(18)	0.005	0.012
HC-4	(11)	0.006	0.011
	(18)	0.005	0.011
HC-5	(11)	0.019	0.012
	(18)	0.005	0.012
HC-6	(11)	0.021	0.019
	(18)	0.000	0.012
HC-7	(11)	0.008	0.013
	(18)	0.005	0.166
HC-8	(11)	0.008	0.014
	(18)	0.000	0.012
HC-9	(11)	0.006	0.012
	(18)	0.006	0.011
W37	(20.5')	0.004	0.012
W35 (OIL HOUSE)		0.004	0.012

**"HYDROCONE" AND LIQUID WELL SAMPLES**  
**CHEMICAL RESULTS**

<u>SAMPLE</u>	<u>DEPTH</u>	<u>RESULT</u> <u>NITRATE, mg/l</u>
HC-1	(15)	3.3
	(24)	5.1
HC-2	(11)	6.9
	(18)	7.7
HC-3	(11)	7.8
	(18)	6.0
HC-4	(11)	29.0
	(18)	10.6
HC-5	(11)	11.7
	(18)	10.0
HC-6	(11)	8.6
	(18)	9.9
HC-7	(11)	2.7
	(18)	41.2
HC-8	(11)	11.2
	(18)	10.3
HC-9	(11)	9.5
	(18)	16.6
W37	(20.5')	5.8
W35 (OIL HOUSE)		6.0

*water*

*- opposite new materials from before*

*on site data*

## PRELIMINARY DATA ON "HYDROCONE" AND WELL SAMPLES

<u>SAMPLE</u>	<u>DEPTH</u>	<u>CONDUCTIVITY</u>	<u>pH</u>	<u>NH<sub>3</sub></u>	<u>F<sup>-</sup></u>	<u>FILTERED SAMPLE U ppm</u>
HC-1	(15)	140	7.0	<0.1		<0.05
	(24)	120	6.8			<0.05
HC-2	(11)	130	7.1			<0.08
	(18)	180	6.7			<0.05
HC-3	(11)	190	6.7	<0.1		<0.05
	(18)	90	6.1			0.1
HC-4	(11)	370	6.4	0.3		<0.05
	(18)	170	5.8			0.3
HC-5	(11)	270	4.6			<0.05
	(18)	155	7.1			<0.05
HC-6	(11)	130	5.3			<0.05
	(18)	125	5.2			<0.05
HC-7	(11)	320	5.9		69.4	<0.05
	(18)	400	7.6			<0.05
HC-8	(11)	235	6.9			<0.05
	(18)	140	5.6			<0.05
HC-9	(11)	310	6.2			<0.05
	(18)	295	6.8			<0.05
W37	(20.5')	165	6.0	<1	<0.1	<0.05

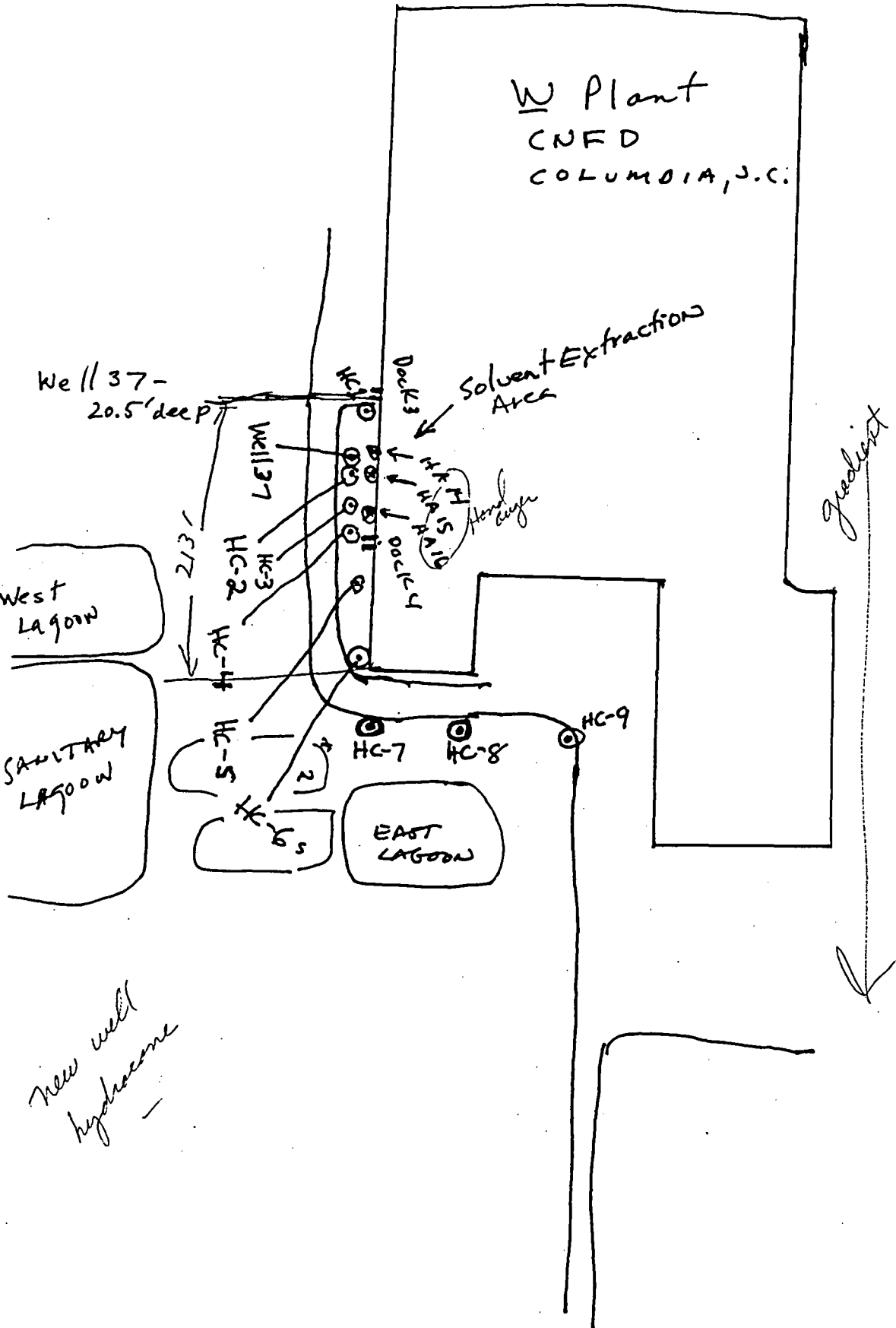
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HA-14 (Hand Auger Soil Samples)  
 15  
 16

Attn: DAN JONES  
 US-NRC  
 Region II  
 Atlanta, Ga.

Well 37 - Groundwater Well

HC-1-9 - "Hydro cone" samples (3 soils per location  
 2 water samples per location)



	Distance From Bldg
HC-1	6'
-2	24
-3	33
-4	41
-5	14
-6	14
-7	28
-8	35
-9	40'
<del>HA-14</del>	
HA-14	3.5
15	2.5
16	3.5

new well  
 hydrocone