NOTICE:

"BEST AVAILABLE COPY"

PORTIONS OF THE FOLLOWING DOCUMENT ARE ILLEGIBLE

The Administrative Record Staff

NOTICE:
THIS DOCUMENT MAY BE SUBJECT TO COPYRIGHT.
PORTIONS OF THE DOCUMENT ARE ILLEGIBLE.

B123 Concrete Core Sampling
Doc. Cont. # ER-IH55148-LB-97-576

RECORD

S300-3R

S300 15J	Journal 150 pages
S300-3J	Journal 300 pages
S300-15SEL	Ledger—single entry 150 pages
S300-15R	Record Ruled—35 lines 150 pages
S300-3R	Record Ruled—35 lines 300 pages
S300-5R	Record Ruled—35 lines 500 pages

ACCO USA Inc
Wheeling IL 60090
Made in U S A
RM 3450987

Best Available Copy

ADMIN RECORD
~~B123-A-00072~~
B123-A-000072

Y42

12 29 97 GENERAL SAMPLING NOTES. SAMPLING DIRECTIONS

- 3 SAMPLES ARE TO BE TAKEN FROM 2 CORES...
SPLIT 1 CORE FOR [redacted] SCREEN
↳ ON SITE APPROX 15 [redacted] NEEDED
REMAINING SPLIT USED FOR [redacted] DETECTION
- 1 LARGE CORE IS NEEDED FOR ALPHA DETECTION

- TAKE 60 ML (15 grams) GROSS ALPHA/BETA TO TURNO NUTECH FOR ON SITE SCREEN
- ALL EQUIPTMENT PRIOR TO CORE RELOCATION, ESPECIALLY CORING BITS, WILL BE DE-CONED (DECONTAMINATED) AND RE-BAG IN [redacted]

12 30 97 TUESDAY:

AT APPROXIMATELY 4:00PM, A PRE-EVOLUTION WAS HELD BY MATT DESSI IN BUILDING 113 FOR BUILDING 123 CONCRETE CORING. TWO RCT'S WERE PRESENT (TODD FISCHER AND RANDI PALMER) INCLUDING THE [redacted] OP'S FOREMAN (THERESA JOHNSTON). MIKE SCHLUTER WITH SEG WAS PRESENT TO ASSIST [redacted] FOR PERSONAL AIR MONITORING AND FIELD SUPPORT.

IT WAS DETERMINED IN THE PRE-EVOLUTION THAT A 2 FOOT "CA" WOULD BE UTILIZED AROUND THE CORING LOCATION AND EQUIPMENT. ABSORBENT SOCKS WERE USED AS A BERM TO CONTROL ANY EXCESS SLURRY FROM GETTING OUT OF THE "CA". (SEE DIAGRAM 12-30-97:1)

ALL HILTI SAMPLING EQUIPTMENT WAS BASELINED PRIOR TO ANY SAMPLING THE BASELINE WAS PERFORMED BY THE RCT'S IN BUILDING 113

2

12-30 97 CONTINUED

ONCE ALL THE SAMPLING EQUIPTMENT WAS BASELINED, THE EQUIPTMENT WAS RELOCATED TO B123 THE EQUIPTMENT WAS SET UP FOR CORING IN ROOM 135 THIS ROOM IS A CONTROL ROOM FOR BACKGROUND LEVELS TO BASE OTHER CORES AGAINST, AS DISCUSSED IN THE SAP.

A HEPA WET VAC WAS USED IN PLACE of THE WET/DRY VACUUM PURCHASED WITH THE HILTI EQUIPTMENT THE HEPA VAC WAS USED PER DIRECTIONS of THE AHA.

ONCE SAMPLING BEGAN, NO PROBLEMS WITH THE EQUIPTMENT OR EXCESS SLURRY OUT of THE CA HAD ARRISED

IT WAS DETERMINED TO PREVENT EXCESS SLURRY WHEN CORING, A MINIMAL FLOW of WATER WAS USED

TO OBTAIN ENOUGH CORE WEIGHT FOR SAMPLES, FIVE CORES WERE DRILLED INSTEAD of THE ORIGINAL ESTIMATE of TWO

SEE DIAGRAM 12-30-97:1 FOR A COMPLETE DRAWING of DRILL SET UP AND CA BERM

DIAGRAM 12-30-97 2 IS A SKETCH of THE FINAL RESULTS AFTER CORING

3

NAB
MENT
OM
ROOM

IN THE

PLACE
ASED
E
IONS

ROBLEMS
ESS
)

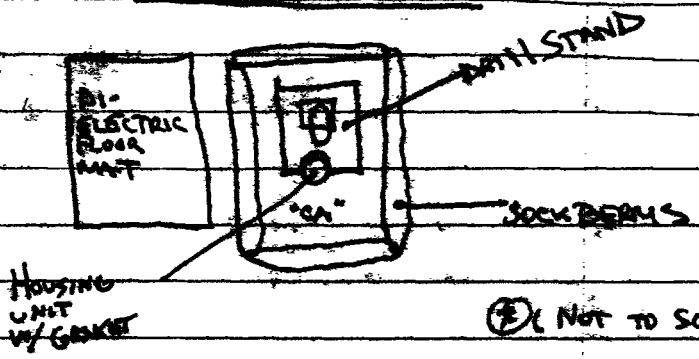
XCESS
L

ONT
WERE

A
ET UP

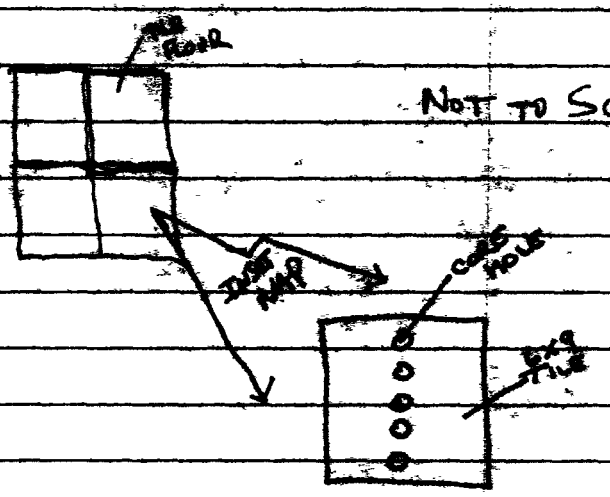
ETCH
CORING 4

DIAGRAM 12-30-97.1



(NOT TO SCALE)

DIAGRAM 12-30-97.2



THREE SAMPLE JARS WERE FILLED WITH THE CONCRETE CORES, SEALED AND LABELED, AND STORED IN B113 THE SAMPLES AND ALL EQUIPTMENT WAS SURVEYED BY THE RCT's AFTER DRILLING HAD BEEN COMPLETED NO RAD CONCERNS WERE ISSUED THE SAMPLES WERE COLD. THE EQUIPTMENT & SAMPLES WERE ~~FREE~~ RELEASED BY THE RCT'S

THE CORE HOLES WERE TAPED AND LABELED "ASBESTOS CONTAINING MATERIALS" AND WILL BE FILLED AT A LATER DATE W/QUICK

WEDNESDAY 12-31-97 * INFO PROCESSED ON WED 12-31-97

4

~~12-30-97 CONTINUED~~

* IT WAS NOTED THAT THE TOTAL WEIGHT NEEDED FOR SAMPLING ANALYSIS WAS EQUAL TO 390 grams. EACH CORE WEIGHS APPROXIMATELY 40 GRAMS

$40\overline{)390_g} = 975$ CORES

* ON 12-31-97 AFTER SAMPLING AND ANALYSIS REPORT WAS REVIEWED, IT WAS DETERMINED THAT A TOTAL of 10 CORES WOULD BE NEEDED TO GET ENOUGH WEIGHT FOR LAB ANALYSIS.

ON TUESDAY NIGHT, A SCALE WAS NOT AVAILABLE TO WEIGH EACH of THE CORES AND JARRED SAMPLES A DECISION WAS MADE TO TAKE 5 CORES INSTEAD of THE ORIGINAL 2 ON WEDNESDAY, MATT DESSI WEIGHED THE SAMPLES USING RTG's SCALE IN B123 A CALL TO NORM STONER WAS MADE TO DETERMINE IF THE MINIMUM REQUIREMENTS PER SAMPLE WERE CORRECT HE DID NOT RETURN THE CALL WITH ~~THE~~ AN ANSWER

FOR FURTHER SAMPLING, 10 CORES WILL BE DRILLED TO OBTAIN THE CORRECT WEIGHTS (MINIMUM) DISCUSSED IN SECTION 4.4 of THE B123 CONCRETE SAMPLING AND ANALYSIS PLAN

CORING IS TO RESUME ON FRIDAY 1/2/97 12/31/97

FRIDAY. 1-2 97

ROOMS 131c, AND 2 SAMPLES IN ROOM 131 WERE COMPLETED.

CORING PROCEDURES WERE SIMILAR AS PREVIOUS LOG DATES. ALL EQUIPTMENT WAS CLEANED AT END OF DAY. NO PROBLEMS OCCURRED DURING CORING ALL SAMPLES WERE STORED IN RAD OPS OFFICE (B113).

END OF DAY

1/2/98

MONDAY 1 5 98

ROOM 124 WAS COMPLETED
NORTH WING HALLWAY WAS STARTED, BUT OPERATIONS HAD TO STOP DUE TO WET-HEPA VACUUM BEING FULL

THE CORING WAS VERY SLOW IN ROOM 124 THE CONCRETE WAS DIFFICULT TO CORE DUE TO THE DENSITY OF THE MATERIAL. A TOTAL OF 20 CORES WERE COMPLETED

END OF DAY

TUESDAY. 1 6 98 KH (Kirk Hulbelink not Kaiser Hill) MET W/ Mark Brooks concerning IWCP wanted to see PreEV Sign Sheet, signed SAP etc other issues (changed to SAP): 1. need to note that additional cores were occassionally collected outside of the proposed 6" radius from the first core. 2. Visquine was not used or needed 3. DWRC is managing waste by filtering out solids solids → Haz waste? liquids → to process waste drain

1/31/97

4 more than 2 cores were needed per location up to 10 at one point. KH called Norm Stoner to ~~confirm~~ determine if we could manage less sample material. Stoner:

isotopics - 125g
gamma spec - 125g
screen - 10g
total 260 ~ 7 cores

Norm will call lab wed Am to confirm we may be able to bring the total wt down even more. 1-7-98 no more as per Norm Stoner

Coring activities

MD, KH, RCTs (Bob Bahl & Rich Adkins)

Rm 101A Matt to drill KH to observe
↳ RCTs posted 101A as a CA

new bit
Rm 111 4 locations
2050 - Vacuum full
end of day - finished Rms 101A, 111 (All) 5 samples total

END OF DAY

1-7-98 KH

1/6/98

POD issues - can't dump waste from HEPA vac unless qualified IS Matt qualified? Met w/ Al Smith to schedule coring for the next few days can do 125, 127 only Sat Night. Other rooms can be done anytime (except 103, 103A) only after 6PM on Wed

Called Norm Stoner to confirm sample weight it's actually 200g (iso) 200g (gamma)

Sample Matrix

		Lab ID	Room Location	ID	Rm location	ID	Rm
2 location	Sample	1 A/B of 111	135	35 I	? RM 103A NE CORNER	69 G	OK
Norm	Matrix	2 I of 111	135	36 G	? RM 103A NE CORNER	70 A/B	
ld		3 G	135	37 A/B	? RM 103A SE CORNER	71 I	
ther:		4 A/B	131 west	38 I	? RM 103A SE CORNER	72 G	
		5 I	131 west	39 G	? RM 103A SE CORNER	73 A/B	
		6 G	131 west	40 A/B	? RM 103A SE CORNER	74 I	
		7 A/B	111 SE corner	41 I	? RM 103A SE CORNER	75 G	
		8 I	111 SE corner	42 G	RM 103A SE CORNER	76 A/B	
nfirm		9 G	111 SE corner	43 A/B	? RM 125 NW CORNER	77 I	
r	✓	10 A/B	112 SW corner	44 I	? RM 125 NW CORNER	78 G	
as per		11 I	112 SW corner	45 G	? RM 125 NW CORNER	79 A/B	
er		12 G	112 SW corner	46 A/B	? RM 125 EAST CENTER	80 I	
	✓	13 A/B	112 NW corner	47 I	? RM 125 EAST CENTER	81 G	
		14 I	112 NW corner	48 G	? RM 125 EAST CORNER	82 A/B	
)		15 G	112 NW corner	49 A/B	? RM 125 SE	83 I	
		16 A/B	112 NE corner	50 I	RM 125 SE	84 G	
erve		17 I	112 NE corner	51 G	RM 125 SE	85 A/B	
		18 G	112 NE corner	52 A/B	RM 125 SW	86 I	
		19 A/B	103 South	53 I	RM 125 SW	87 G	
		20 I	103 South	54 G	RM 125 SW	88 A/B	111 west central
		21 G	103 South	55 A/B	RM 109A North	89 I	111 west central
(All) 5 samp total		22 A/B	103 North	56 I	Rm 109A N	90 G	111 west central
		23 I	103 North	57 G	Rm 109A N	91 A/B	124 west side
		24 G	103 North	58 A/B	Rm 109A S	92 I	124 west side
		25 A/B	106 South	59 I	RM 109A S	93 G	124 west side
(AP) 1/16/13		26 I	106 South	60 G	Rm 109A S	94 A/B	124 east side
from		27 G	106 South	61 A/B	RM 109B N	95 I	124 east side
tt		28 A/B	106 North	62 I	RM 109B N	96 G	124 east side
edule		29 I	106 North	63 G	RM 109B N	97 A/B	111 SW corner
do		30 G	106 North	64 A/B	RM 109B S	98 I	111 SW corner
ms		31 A/B	? RM 127	65 G	RM 109B S	99 G	111 SW corner
103A)		32 I	? RM 127	66 B	RM 109B S	100 A/B	101A
		33 G	? RM 127	67 A/B		101 I	101A
Sample (gamma)	✓	34 A/B	? RM 127	68 I		102 G	101A

ID	Room
103 NP	131 E
104 S	131 E
105 G	131 E
106 NP	131 C
107 S	131 C
108 G	131 C
109 NP	111 NW corner
110 I	111 NW corner
111 G	111 NW corner
31 G/AM	127 North 9' W of entr,
32 I	127 North 9' W of entry
33 C	127 North 9' W of entry
43	125 NW corner
44	125 NW corner
45	125 NW corner
46	125 E center
47	125 E center
48	125 E center
58	109A South
59	109A South
60	109A South
61	109B North
62	109B North
63	109B North
64	109B South
65	109B South
66	109B South

1-7-98 (cont)
but will suffice
→ the current weights

Called Pete Tonrigny to confirm arrival of 2" core bits He said they'll be in this aft. 12:30-1 pm. The SAP reg's 1" bits but we could not afford the time needed to collect enough material to satisfy analytical reqmts. Called + Lm for Tim Hipsher to get RCT support for this aft. We'd like to begin @ 3 pm.

10 Am B123 Mtg
Told Wm G. that we'd finish coring this weekend. Mark Brooks to observe at 3pm

1555 KH
About 1430 MD was informed via phone by Steve Cox that we would have RCT coverage until 1[illegible]:30, but was unsure about after then. He said he would try to get us 2 RCTs for tonight when I arrived at the B113 at 1500 I was informed that we did not have coverage until 1630 because he did not have 2 RCTs available As of now we still don't know if we have coverage for tonight.
→ At Smith told me we'd have the [illegible] wing to ourselves tonight. The perchloric work was postponed due to a sick worker. I'd like to get those rooms out of the way (125, 127) otherwise it will become increasingly difficult to get in there before Monday.
→ Matt got a verbal OK from Ernie Bentsen to dump the slurry down a [illegible]

10

1-7-98 (cont)
drain.

MATT DESSI SIGNING IN

OBTAINED RCT SUPPORT FOR WED NIGHT RANDY PALMER WILL BE SUPPORTING THE CORING AS RCT SUPPORT

KIRK WILL BE PERFORMING THE CORE SAMPLING WHILE MATT DESSI WILL BE SUPPORTING OUTSIDE of THE "CA"

KIRK BEGAN DONNING PPE AT 1640

8 00

→ 5 30PM MARK BROOKS STOPPED BY TO CHECK OUT CORING PROCEDURES

FIRST CORES WITH 2" BIT COMPLETED IN ROOM 112 ~~of~~ IN SOUTH WEST CORNER THE WEIGHT of EACH CORE WAS APPROXIMATELY 125 gRAMS THREE CORES TOTAL

8 45

ONE CORE WAS SPLIT FOR ISOTOPIC WEIGHT AND RAD SCREEN

9 30

→ KIRK DOFFED PPE IN "CA" AT 615 PM FOR A COOL DOWN AND DRINK of WATER OVER IN B113 (RAD OPS)

HE WILL BE RE-ENTERING THE ROOM 112 CA WITH NEW P.PE TO FINISH THE CORES

1 40

11

1-8-98 IS ISSUING an

→ CORING BEGAN AT 7:10PM
TO FINISH ROOM 112 NE CORNER
KIRK BACK IN P.P.E AND CORING.
1-8-98 call from Mark Brooks RMRS QA
IS ISSUING an RDR - I didn't have a current Dosimeter
need COC forms
think about preparing a procedure
for drilling operation

END OF DAY (MD) 1/7/98

1 8-98 1500 mtg about RDRs
Fact finding mtg. END OF DAY (MD) 1/8/98
1.9 98 KIRK FIRED FOR RDR INCIDENT
MATT DESS. LAYED OFF FOR 2 DAYS.
WEDNESDAY 1 14 98

8:00 SEG ON FOR CORE SAMPLING ~~IN P~~ AS (MD) 1/8/98 DISCUSSED
IN P.O.D

8 45 MET WITH JOE CABRARRA ABOUT CORING
IN ROOM 106 AND 103 DURING DAY
HOURS

9.30 MIKE SCHLUTERBUSCH AND MATT DESS
MET WITH RCT'S TO DISCUSS CORING
FOR SUPPORT ON DAY SHIFT
RCT'S WERE RELUCTANT TO SUPPORT
DUE TO LACK OF RCT'S AVAILABLE

9 40 PAGED ROD JOHNSON TO DISCUSS
AVAILABILITY OF RCT'S.
ROD DID NOT CALL BACK

Y
ED
NER
CORES TOTAL
PIC
N
M
NISY
12

9'50 MATT DESS. MET WITH ANDREW KAMUCHEY ABOUT LACK of RCT's, ANDREW CONTACTED LORENZO CASEY TO GET SUPPORT DUE TO PRIORITY of RCT'S NEEDED FOR RAD SURVEYS & STRIPOUT, THE CORING WILL NOT HAVE RCT SUPPORT.

10.00 LORENZO CASEY ON RADIO WITH ANDREW TO TRY TO ARRANGE RCT SUPPORT FOR PM SHIFT

10 10 MATT DESSI & MIKE SCHLUTERBUSCH DISCUSSED CUSTODY RECEIPTS CHAIN of FOR SAMPLES AND FOR SITUATION AT HATCH W/ NO RCT SUPPORT

10 15 MATT DESSI & MIKE SCHLUTERBUSCH BEGAN SEGREGATING CORE SAMPLES AND PREPARING CHAIN of CUSTODY PAPERWORK IN ROOM 101A

11 20 MATT DESSI & MIKE SCHLUTERBUSCH BREAK FOR LUNCH TO CAFETERIA

→ DECIDED TO FINISH CHAIN of CUSTODY'S FIRST LOCKED IN 101A.

11 50 BREAK FOR LUNCH

4.00 PRE-EV HELD FOR CORING
LORENZO CASEY PRESENT: ALL ITEMS
DISCUSSED.

4 40 SET UP HILTI EQUIPT. DID A PRE-JOB
INSPECTION OF ALL EQUIPTMENT
MIKE DELMASTRANE WITH DENVER WEST
WAS ASSISTING MATT AS PART OF A
BUDDY SYSTEM

500 CORING WAS ROUTINE WITH NO INCIDENTS.
AND COMPLETED AT 7:50 PM

1150 ATTENDED P.O.D. - CORING ESTABLISHED FOR
8.00AM DAY SHIFT

900AM MET WITH MIKE SCHLITTENBACH TO DISCUSS
CORING PROCEDURES FOR DAY

9.30 IN BUILDING 123 PLACED TID RESISTANT
SEALS ON SAMPLE BAGS LOCKED ROOM 101A

9.45 MET WITH RCT'S TO DISCUSS PRE-EVOLUTION
TIME AND PROCEDURES FOR CORING.

10 00 MET WITH ANDREW KAMVICHET (RMRS)
TO DISCUSS CORING LOCATIONS AND
PRE-EVOLUTION TIME. (TIME OF PRE-EV 12:30pm
SEE TO BEGIN CORING IN ROOM 127.

	REQUIRED	310
12.30	PRE-EVOLUTION ALL ATTENDEES PRESENT MIKE SCHLUTERBUSCH TO BE ASSISTING MATT DESSI	
100	PRE-EVOLUTION COMPLETED WHILE SETTING UP CORING EQUIPTMENT, INCIDENT IN ROOM 125 DURING DW STRIPOUT OCCURRED HAZ-MAT TEAM WAS NOTIFIED BUILDING EVACUATION OCCURRED.	330
115	FIRE DEPARTMENT & HAZMAT TEAM ARRIVED.	
135	FIRE DEPARTMENT & HAZMAT TEAM DISPATCHED FROM B123. BUILDING IS CLEAR TO RESUME WORK.	400
140	Mobilized & donned P.P.E Final setup & connections required - searched for and found 3 outlet (GFI's)	430
220	Began core drilling - 3 locations within berm in Room 127	500
245	Coring complete - began shutdown ops Rad-ops smears & surveys at sample locations, on bit on jars; PPE.	
300	CHECKED MESSAGES JOHN MILLER INFORMED MATT DESSI of RESULTS FOUND IN ROOM 109 ABATEMENT WORK APPROXIMATELY 50,000 DPM WERE FOUND BY RCT'S DURING ASBESTOS TILE REMOVAL JOHN MILLER INFORMED MATT TO HOLD off DOING CONCRETE CORING IN All ROOM 109's.	

15

3:10 CLEANED UP CORING EQUIPTMENT IN ROOM 127. CONFIRMED RCT SUPPORT FOR P.M. SHIFT. STEVE COX (RCT) TO COVER CORING WORK IN ROOM 103A

3:30 BEGAN PLACING "DANGER - ASBESTOS CONTAINING MATERIAL" STICKERS ON ALL CORING LOCATIONS. STICKERS WERE PLACED ADJACENT TO TAPED HOLES.

4:00 CALLED MARY AYCOCK TO CONFIRM CORING DURING PM SHIFT.

4:30 PRE-EVOLUTION FOR CORING IN ROOM 103A.

5:00 CORING CANCELED DUE TO WORK FOR DENVER WEST PERCHLORIC HOOD WORK BEING DONE DURING PM SHIFT. THE WEST WING WILL BE CLOSED OFF. ACCESS TO WATER FOR DRILL TANK WILL NOT BE AVAILABLE DUE TO LOCATION IN WEST WING LEFT A MESSAGE WITH RICK CANFIELD TO EXPLAIN CANCELLATION OF CORING. WITH RMRS CONSTRUCTION MANAGEMENT FOR T3123

END OF DAY

AB 1/15/98

7 00AM | 1 16 98. FRIDAY | 11 20

B123 | PRE-EVOLUTION HELD IN ROOM 131 | 11 45
JOBS TO BE PERFORMED DURING
DAY SHIFT DISCUSSED

8 15 | P.O.D. MEETING HELD IN T891
DISCUSSED CORING COMPLETED | 12 00
IN ROOM 127 ON PREVIOUS NIGHT.
LACK of RCT SUPPORT ISSUES
WERE DISCUSSED FOR FRIDAY DAY CORING
ONLY 4 RCT's ARE AVAILABLE
ROOMS REMAINING ARE: 125 (4 LOCATIONS)
ROOM 103A (3 LOCATIONS)
DUE TO ASBESTOS ABATEMENT WORK
IN ROOM 125 DURING DAYSHIFT,
CORE DRILLING OPERATIONS ARE PUSHED
UP TO P.M.'s

RTG LAB SETUP IN ROOM 103A.
CORING CAN NOT BEGIN UNTIL 5 00PM | 1 30
IN 103A OR UNTIL RTG LEAVES BUILDING FOR THE NIGHT

9 30 | MET WITH RICH CANFIELD, ROB
SISTLER, TIM HILSHIRE AND
TOM BOUSKOUS (DENVER WEST) TO
DISCUSS LACK of RCT's AND | 2 00
PRIORITIZE RCT's TO HIGHEST
PRIORITY JOBS

10 15 | AT BUILDING 123
BAG AND RE-TAG SAMPLES ON CHAIN of
CUSTODY SHEETS

11 20 BREAK FOR LUNCH

131. 11 45 SPOKE TO MARY TYCOCK ABOUT PREVIOUS CORE SAMPLES WHICH WERE SUBMITTED TO THERMO NUTECH

1/6/98

71

12:00 CALLED NORM STONER TO CHECK ON CORE (RAD SCREENS) SAMPLES STATUS

1T.

CORING

NORM STONER INFORMED MATT DESSI THAT CORE SAMPLES SENT TO THERMO NUTECH COULD NOT BE PROCESSED AT THE LAB FACILITY SET UP IS NOT SUITABLE FOR CRUSHING CORES. THERE IS ALSO AN ASBESTOS ISSUE WITH THE CORES

(LOCATIONS)

ED

A DECISION WAS MADE BY JOHN MILLER WITH RAD ENGINEERING TO HAVE SEG CRUSH THE CONCRETE CORES INTO A FINE GRANULAR MATERIAL.

3A.

OPM 1 30 CONFIRMED RCT SUPPORT WITH ANDREW KOTNOWSKI FOR P.M SHIFT ROOM 103A WILL BE COMPLETED.

R THE NIGHT

3 ABATEMENT WORK STILL IN PROGRESS IN ROOM 125.

TO

2.00 SPOKE TO MIKE SCHNITZER TECH TO CONFIRM HIS SUPPORT FOR P.M CORING OPERATIONS

CONT'D OF 1§

3 00 CHECKED STATUS of ROOM CLEARANCE IN ROOMS 125 AND 103A FOR PM WORK

SEG TO SET UP AND CORE 103A TONIGHT SEG, WILL BE HOLDING off ON ROOM 125 UNTIL MONDAY NIGHT THE HOLD off IS DUE TO DWRC DOING COUNTER STRIP OUTS FROM 5 00 → 8 00PM ON FRIDAY NIGHT

SIDE NOTE
DW = DENVER WEST
DWRC = DENVER WEST REMEDIATION CONTRACTORS

3 30 CONTACTED MIKE SCULUTERBUSH ABOUT 4PM PRE-EVOLUTION TO CORE IN ROOM 103A

4 00 PRE-EVOLUTION FOR CORING IN 103A PRE-EVOLUTION GIVEN BY MATT DESSI, ANDREW KAMUCHES PRESENT FROM RMRS CONSTRUCTION SAFETY STEVE COX TO BE PRESENT AS RCT.

4 45 ~~5 10~~ (MS) Began prep + mobilization in 103A. First room of evening

5 10 Drilling at 1st site, NE corner.

5 40 Drilling at 2nd site, W side @ drain

5 57 Drilling at 3rd site ~~W~~ SE corner

6 10 Drilling completed, beginning demobilization

19

END of DAY (MS) 1/16/98

11

7 15 AM PRE
CON
INF
ONLY

8 15 PO
SCU
AF
RC
RC
PRI
AND

9 20 TA
REM
RAD
ROI
of

9 45 SP
KAM
AT
of
TO

10 00 W
W
K
T

10 19

1/19/99

7.15 PRE-EV IN B123
CONCRETE CORING CLEAR FOR RM 125
INFORMED BY STEVE COX THAT THERE ARE ONLY 3 RCTS FOR THE DAY

8.15 POD MEETING.
SCHEDULED CORING IN RM 125 STAYED AFTER P.O.D. MEETING TO DISCUSS RCT AVAILABILITY.
RCTS WILL BE COVERING HIGHER PRIORITY JOBS. (FOR EX. STRIPOUT ACTIVITIES AND FINAL RAD SURVEYS).

9.20 TALKED WITH VERN GUTHRIE ABOUT REMAINING ROOMS TO BE CORED. EXPLAINED RAD. POTENTIALS IN ROOM 109A & 109B
ROD JOHNSON INFORMED MATT DESS of POSSIBLE RWP COMPLETED FOR 105.

9.45 SPOKE TO STEVE COX AND ANDREW KAMUCHEY ABOUT EXCESS EQUIPTMENT AT PU&D INFORMED KAMUCHEY OF P.R.E. FOR EQUIPT DOWN AT PU&D TO GO TO THERMO NUTECH.

10.00 WORKED ON EXCESS EQUIPTMENT IN WEST COURTYARD AT B123 W/ ANDREW KAMUCHEY. LISTED CONTROL #'S FOR TRANSFER

10.19 SPOKE TO MIKE SCHLUTERBUSH ABOUT AFTERNOON SUPPORT FOR CORE DRILLING. WAITING ON RCT SUPPORT

10 40 WALKED DOWN ROOM 125 AND DID A PRE-JOB INSPECTION OF CORING EQUIPTMENT AND PPE.
↳ CHECKED TO SEE IF I NEED ADDITIONAL HOODS, GLOVES, TAPE, CHEM WIPES, RESPIRATORS. LOCKED 101A.

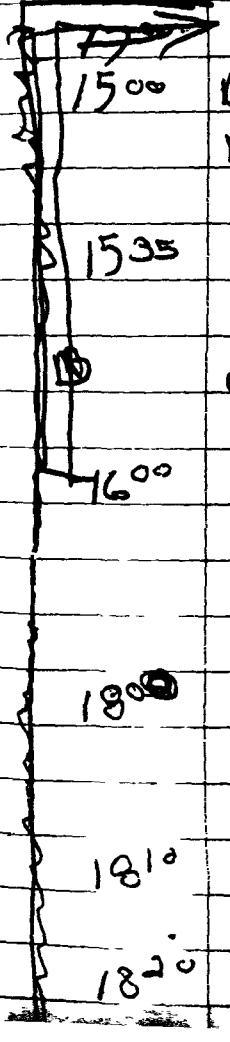
11 00 SPOKE TO ANDREW KAMUCHEY ABOUT MEETING AFTER LUNCH TO GET SOME INFORMATION ON RCT AVAILABILITY

11 10 BREAK FOR LUNCH

12 45 SPOKE TO MARY AYCOCK ABOUT MEETING WITH MARK BROOKS AND MYSELF. DISCUSSED LACK OF RCT SUPPORT TO SURVEY OUT BAGS & SAMPLES, INCLUDING LACK OF RCT SUPPORT FOR CORING IN RM 125 RCT'S WILL BE ABLE TO SUPPORT ON PM SHIFT

1 00 SPOKE WITH ANDREW KAMUCHEY STILL NO WORD ON RCT SUPPORT. PICKED UP MASTER KEYS FROM LORENZO CASEY SO I COULD GET INTO 101A IF WE GOTTNED RCT SUPPORT FOR CORING. GAVE KEYS TO ANDREW KAMUCHEY

2 00



2 00 RECIEVED COPIES & SURVEYS THAT RCT'S PERFORM BETWEEN CORING LOCATIONS

THE PROCEDURE FOR ALL NIGHTS WERE THAT THE RCT'S WOULD SURVEY ALL EQUIPTMENT AND TAKE SMEARS WHICH THEY COUNTED IN B113 PRIOR TO MOVING ANY EQUIPTMENT. WHEN THE RCT'S GAVE THE GO AHEAD THAT NO CONTAMINATION WAS FOUND, THEN SEG CORING TEAM WOULD MOVE EQUIPTMENT TO NEXT LOCATION. BEFORE MOVING EQUIPTMENT THE OUTSIDE AND INSIDE of BITS WERE WIPED DOWN WITH CHEM (KIMWIPES) WIPES AND A DECON, SOAP SOLUTION.

15 00 Began Pre-evolution briefing / all hands present (See record)

15 35 Began Core Drill operations 125 NW corner - had to run Xtra extention cord for power.

16 00 Began setup operations room 125, mobilized equipment, filled water and readied equipment

18 00 Completed 1st site, moved to second, Re-run power to drill

18 10 Started 2nd site core drill

18 20 Completed 2nd site & moved to 3rd

18^{20} (con) site. 125 SE corner

18^{30} Began drilling @ 3rd site.

18

18^{40} Completed 3rd site & moved to 4th

18^{50} Began drilling @ 4th site

19^{05} Drilling complete @ 4th site
began demobilization

M [signature] 1/19/98

END of DAY

M 1/19/98

7 15 PRE-EVOLUTION IN ROOM 131 of BUILDING 123 DISCUSSED AGENDA'S FOR THE DAY

AFIC TO CO. ABATE ROOMS 109 A & B. TILE FLOORS TO BE RIPPED UP.

8:15 POD.

DISCUSSION of AVAILABILITIES of RCT'S. DISCUSSED CORING OPTIONS AND NEXT ROOMS TO CORE. IT LOOKS AS if ROOMS 109 A & B will BE AVAILABLE FOR P.M SHIFT.

CHANGES MADE IN ACCORDANCE W/ SAP

9:30 ADJUSTMENTS TO THE SAP ARE NOTED AS REQUESTED BY MARK BROOKS ON 1/19/98. IT WAS DETERMINED ON THE FIRST NIGHT of CORING IN ROOM 135 (12 30 97) THAT VISQUINE WAS NOT NEEDED DURING CORE DRILLING. THE VISQUINE WAS TO BE USED TO ABSORB EXCESS SLURRY THE HILTI UNIT WITH THE WET VAC WAS SUFFICIENT NO EXCESS SLURRY WAS PRODUCED WHILE CORING.

IN THE SAP THE DIRECTIONS WERE TO OBTAIN 2 CORES WHICH SHOULD HAVE WEIGHED APPROXIMATELY 180 GRAMS A PIECE IN ACTUALITY THE CORES ONLY WEIGHED 40 GRAMS

1/19/98

DUE TO THE INCREASE IN CORE TIME AND NUMBER of HOLES TO BE DRILLED WITH A 1" DRILL BIT. 2" CORING BITS WERE PURCHASED AND 3 CORE HOLES WERE DRILLED EACH 2" CORE WEIGHED APPROXIMATELY 125 grams THE MINIMUM of **250 g** of MATERIAL TO BE USED FOR THE ISOTOPIC AND 200g COROSS ALPHA ~~BETA~~ SAMPLES WERE REDUCED BY THE LAB (EPI) TO A MINIMUM of 125g A PIECE THE RAD SCREEN MINIMUM WAS DROPPED FROM 60g TO 10g.

4.30

MD

500

530

EACH NIGHT A PRE EVOLUTION WAS GIVEN TO DETERMINE AND CLARIFY THE CORING OPERATIONS FOR THAT SPECIFIC TIME. ALL WORKERS AND SUPPORT PERSONEL WERE BRIEFED AND REVIEWED THE AHA, THE SAP AND ALL CONTENTS IN IWCP, INCLUDING THE RAD REQUIREMENTS IN THE RWP.

545

600

610

620

4.30	CORING PRE-EVOLUTION IN ROOM 101 IN BUILDING 123
	PRE-EVOLUTION COLLOBLES OUTLINED AND ALL PERSONEL ATTENDING REVIEWED IWCP.
	MIKE DELMASTRAEU UNABLE TO HELP TONIGHT DUE TO LOWER BACK PAIN.
	MIKE SCHLUTERBUSCH UNABLE TO HELP DUE TO HOMEWORK.
	~~WAYNE~~ 1/20/98
5.00	SET UP CORING EQUIPMENT AND D.D A PRE-JOB INSPECTION OF ALL TOOLS AND EQUIPT. BEFORE STARTING
5:30	BEGIN CORING IN ROOM 109A.
5 45	WATER TANK NEEDED TO BE RE-FILLED
600	WHILE CORING, BLEW A FUSE RELOCATED OUTLET AND SOURCES FOR POWER RESTARTED CORING.
610	BLEW ANOTHER FUSE. REDIRECTED CORDS TO TWO SEPARATE SOURCES
6.20	COMPLETED FIRST LOCATION. BEGIN TO DECON EQUIPT MOVED ALL EQUIPMENT TO SOUTH SIDE of ROOM 109A. WAYNE CHRISTOPHERS (D.W.B.C.

8:30. C

WENT TO FILL UP WATER
TANK IN DOING SO,
THE HOSE OFF THE PUMP
CAUGHT THE RELEASE
VALVE ON THE WET VAC
SPILLING APPROXIMATELY 2 GALLONS
OF NON-CONTAMINATED WATER
ONTO THE FLOOR IMMEDIATELY
MATT DEISI IN FULL PPE
STARTED UP THE WET VAC
AND BEGAN CLEANING UP
THE WATER THAT WAS
RELEASED STEVE COX PLACED
ABSORBANT SOCKS AT THE
FRONT OF SPILL TO
CONTROL THE SPREAD OF
WATER ANDREW KAMUCHEY
MADE SURE ALL OUTLETS
AND POWER CORDS WERE
CLEAR FROM WATER.
AFTER WATER WAS CLEANED
UP, ALL THREE (STEVE COX, ANDREW
KAMUCHEY AND MATT DEISI) DECIDED
TO SHUT DOWN THE WORK AND
CLEAN ALL EQUIPMENT UP.
CORING CLEAN UP AND CHAIN of
CUSTODY LABELS AND RECEIPTS
WERE COMPLETED
THE WET VAC VALVE WAS
TAPED UP TO PREVENT ANOTHER
ACCIDENT

8 00 SPOKE TO MARY AYCOCK ABOUT
27 THE ACCIDENT IN ROOM 109A.

1/20/92

8:30. COMPLETED LOG ~ IN'S of INCIDENT.

GALLONS
ATER
ATELY

VAC
UP
S
LACED
- THE

of
LUCHEY
S
RE

EANED
X, ANDREW
) DECIDED
? AND
UP.
) CHAIN of
PTS

ANOTHER

ABOUT
. 109A.

END OF DAY

1/20/98

WEDNESDAY 1 21 98

7 IS PRE-EVOLUTION AT B123 IN RM 163

8 IS POD IN T891C

DISCUSSED PREVIOUS CORING ACTIVITIES FROM TUESDAY NIGHT

ACTIVITIES FOR THE DAY INCLUDE:

NO CORING OPERATIONS FOR DAY

PRIORITY IS TO GET RAD SCREEN SAMPLES CRUSHED AND SENT TO THERMO NUTECH.

IT WAS DISCUSSED IN THE POD TO NOT DO ANY CORING IN ROOMS 105 AND 109 BASED UPON PREVIOUS KNOWLEDGE ON FIXED RADIATION POINTS (WHAT CHANCE SPREADING ANY CONTAMINATION?) THIS ITEM IS GOING TO BE DISCUSSED IN DETAILS WITH RAD ENGINEERING ESPECIALLY JOHN MILLER

10 30

11 30

12 00

12 30

9 55 TALKED TO ANDREW KAMUCHEY ABOUT BREAKING UP RAD SAMPLES AFTER LUNCH. SCHEDULED STEVE COX, RCT TO SUPPORT OPERATIONS AT 1.00pm

1 30

10 30 WENT TO THERMO NUTECH SPOKE TO LAB TECH (MOLLY) ABOUT HOW FINE OF A GRAIN IS NEEDED WHEN BREAKING UP THE CONCRETE CORES. THE CORES WILL BE USED TO RUN RAD ANALYSIS. MOLLY SUGGESTED A FINE POWDER WOULD BE THE BEST.

11 30 SPOKE TO ANDREW KAMUCHEY ABOUT GETTING INTO RM 101A. STOPPED AT T891C TO GET KEYS

12 00 SPOKE TO STEVE COX ABOUT PROCEDURES AND COVERAGE DURING CRUSHING of CORES. STEVE GAVE THE GO AHEAD TO CRUSH THE CORES USING A PLASTIC BAG AND REQUIRED NO RAD PRECAUTION INCLUDING NO RNP. (+) MAT DESS. D.D WORK GLOVES AND T.L.D. FOR PRECAUTIONS

12'30 BEGAN BREAKING UP CORES IN RM 101A. (+) (URGENT)

1 30 BUILDING EVACUATED DUE TO ASBESTUS AIR MONITORING IN WEST WING. RESULTS WERE ABOVE BASELINE LIMITS A MANAGERS MEETING WILL BE HELD AT 2:00 IN T891C.

145	CALLED MARK AYCOCK TO INFORM of BUILDING SHUT DOWN. LEFT A MESSAGE ON AUDIX
~~150~~ MP	CALLED MIKE SCHLUTERBUSCH
^	ABOUT ASBESTOS SITUATION
150	HE INFORMED ME NO ONE HAD CALLED HIM TO DISCUSS POTENTIAL IMPACTS AND/OR INVITE HIM TO THE MANAGERS MEETING
200	SPOKE TO RAD OPS PERSONNEL ABOUT SITUATION AT HAND. WAITING TO HEAR WHEN BUILDING WILL BE CLEARED.
300	INFORMED BY DENVER WEST WORKERS AND TIM HIPSHIRE THAT B123 IS CLOSED DOWN UNTIL 7 00AM ON THURSDAY
NOTES:	MATTS SAMPLES ARE IN ROOM 101A, LOCKED UP BUT ARE NOT UNDER CHAIN of CUSTODY. THIS OCCURRED DUE TO EVACUATION of BUILDING ALL WORK STOPPED IN AN "AS IN" CONDITION. MATT WAS UNABLE TO GATHER EQUIPMENT AND SAMPLE JARS IN

PROPER STORAGE CONDITIONS
DUE TO QUICK EVACUATION & CLEAN-
UP.

OPERATIONS WILL CONTINUE IN A M

↑ MORNING OF 1/22/98

END OF DAY

1/20/98

1 22 98 THURSDAY

7 15 NO B123 PRE-EVOLUTION FOR
DWRC OR OTHER WORK IN B123
DUE TO CONDITIONS OF ASBESTOS
HAZARDS IN EAST WING BUILDING
IS STILL SHUT DOWN

8 15 POD
DISCUSSIONS ON BUILDING SHUT
DOWN NO WORK INSIDE OF
BUILDING AFIC (ASBESTOS ABATEMENT)
CONTRACTOR WILL BE CLEANING BUILDING
LOOKING TO OPEN BUILDING MONDAY
JAN. 26TH.

WORK ACTIVITIES OUTSIDE OF BUILDING
WILL CONTINUE FOR DAY

CONCRETE CORING WILL CEASE UNTIL
MONDAY JAN 26TH.

CORES IN ROOM 101A THAT ARE
READY TO BE RELEASED TO THERMO
NUTECH WILL BE PULLED FROM
BUILDING BY AN AFIC WORKER
ONCE SAMPLES ARE OUT OF B123,
MATT DESS. WILL TRANSPORT CORES
(SEALED IN JARS W/ CHAIN OF CUSTODY) TO
LAB

9 30 SPOKE TO BILL ALER x5982
TO DISCUSS A MEETING TIME TO REVIEW
CORING HAZARDS & PRECAUTIONS IN IWCP

33

10.00 PICKED UP P.R.E. FROM JESSIE CISNEROS (RAD ENGINEER) FOR SURVEYING DIRECTIONS FOR RCT'S OF EQUIPTMENT AT PUED SENT FROM B123.

10'15 DROPPED OFF P.R.E TO RCT'S AT B113. DISCUSSED TIMES WHEN SURVEY'S CAN BE CONDUCTED.

10 30 STOPPED IN (B123 TRAILER) TO SPEAK TO ANDREW KAMMERMEY ABOUT CHANGES OF GETTING CORE SAMPLES OUT OF ROOM 101A. ASKED ANDREW ABOUT DIRECTIONS LIST (of WHERE AND WHAT TO DO FOR AFIC WORKERS) (GIVEN TO LORENZO IN Pg) HE SAID THAT HE HAS THE LIST BUT THE BUILDING IS LOCKED UP AND NO COMMUNICATIONS (IN) IS AVAILABLE TO GET AN AFIC WORKER OUT OF THE BUILDING

11.00 TALKED TO AFIC REP. TOLD HIM WHAT I NEEDED OUT OF ROOM 101A WORKERS INSIDE GOT SAMPLES TO DOOR. WITH RCT APPROVAL & SURVEYS, TOOK SAMPLES AND GENERATED CHAIN of CUSTODY WITH RAD SURVEY TO THERMO NUTECH

11 30

END of DAY

SIGN OUT for day 4/22/98

MON 1 26 98 NO CORE DRILLING BUILDING SHUT DOWN

TUE 1 27 98 " " " "

WED 1 28 98 MATT DESSI SICK, CORING TO CONTINUE ON 1 29 98

END OF DAY MD 1/28/98

THURS 1 29 98 MATT NOT WELL ENOUGH TO CORE MD 1/29/98

~~7 15~~ MD 2/2/98

2 2 98 MONDAY

715 PRE-EV AT BUILDING 123

730 MOVE TO STEVE COX (RCT) TO GET SUPPORT FOR CORING

800 PRE-EVOLUTION GIVEN ALL WORK ROUTINE

MD 2/2/98

0820 Began core drill ops in 109A: ~~two~~ two holes to do.

0845 Build y evacuated for power cut

0930 Restarted ops- run new power-got water, etc

~~0950~~

0950 Began & completed 1st site.

1013 Waiting on RCT to read swipes.

1030 Moved to & began 2nd site, 109B NW

1050 Completed 2nd site - Waiting for rad-ops smears- re-fueled generator

1116 Began core drill at 3rd site

1127 Completed 3rd site & waiting for Rad-ops smears.

SUMMARY FOR MONDAY 2.2.98 AND CORE DRILLING OPERATIONS.

SAMPLING WAS COMPLETED ON MONDAY AFTERNOON. ROOMS 109A AND 109B WERE CORED. MIKE SCHLUTERBUSCH ASSISTED MATT DESSI FOR THE DAY.

IT WAS DECIDED DURING THE PREVIOUS WEEK THAT ROOMS 109 AND 105 WERE NOT GOING TO BE CORED BY SEG. THE DECISION WAS MADE BY RAD ENGINEERING DUE TO THE POTENTIAL FOR THE SPREAD OF FIXED CONTAMINATION IN BOTH ROOMS.

THE SLAB IN BOTH ROOMS HAVE BEEN IDENTIFIED AS HAVING FIXED CONTAMINATION BY RAD OPERATIONS. IT WAS DETERMINED THROUGH GAMMA SPEC SURVEYS THAT THE FIXED CONTAMINATION IN ROOM 109 IS CESIUM AND THE FIXED CONTAMINATION IN ROOM 105 IS THORIUM.

IT WILL BE DECIDED IN A LATER DATE IF THE SLAB IN ROOM 109 AND 105 WILL REMAIN AFTER B123 DEMOLITION OR WILL BE REMOVED AS PART OF B123 DEMOLITION.

OVERALL, THE CONCRETE SAMPLING IN B123 WENT WELL THROUGH TRIAL AND ERROR MANY ITEMS WERE EITHER ADDED INTO SAMPLING METHODS OR REMOVED. FOR EXAMPLE, THE USE OF LARGER DRILL BITS TO OBTAIN THE PROPER WEIGHT FOR LAB ANALYSIS ON THE CONCRETE CORES.

ANOTHER EXAMPLE WAS THE SUFFICIENCY OF THE HOUSING UNIT DURING CORE DRILLING THAT VISQUINE ~~ABSORBENT~~ WAS NOT NEEDED ~~DURING CORING~~ (NWD) 2/4/98

ALL WORK WAS PERFORMED IN ACCORDANCE WITH THE IWCP INCLUDING THE SAP AND AHA PRE-EVOLUTIONS WERE GIVEN PRIOR TO ALL WORK DOCUMENTATION OF PRE-EVOLUTIONS INCLUDING SIGNATURES OF ATTENDEES WILL BE SUBMITTED INTO THE IWCP IN SECTION/APENDIX 3

DURING PRE-EVOLUTIONS, ALL ATTENDEES WERE BRIEFED ON WORK PROCEDURES AND RESPONSIBILITIES ALL WORKERS WERE BRIEFED ON THE BASIS OF THE IWCP, AHA AND REQUIREMENTS UNDER THE RAD WORK PERMIT

NO INJURIES OCCURRED OR WERE REPORTED DURING CORE OPERATIONS ALL CORE SAMPLES WERE SURVEYED PRIOR TO EXITING B123 ALL SAMPLES WERE STORED UNDER CHAIN of CUSTODY SEALS, ~~AS~~ WELL AS, TID'S AND WITHIN A LOCKED OFFICE (ROOM 101A)
↑ STORED

ANALYSIS of CORES WILL OCCUR AS OUTLINED IN THE SAP ALL NEEDED SIGNATURES AND INSPECTION of IWCP WILL BE IMPLEMENTED, AS WELL AS, FOR LOG BOOK ALL DOCUMENTS WILL BE

FFICIENCY
CORE
SORBENT
~~ORING~~ (MD) 2/2/98
RMED
I W C. P
AHA
PRIOR
TON
SING
Will
I W C P

All
N WORK
LITIES
ON THE
AHA
THE

OR WERE
ATIONS
SURVEYED
All
DER
Well AS,
ED OFFICE.
(ROOM 101A)
OCCUR
A P
AND
BE
R
Will BE
K

SUBMITTED TO THE APPROPRIATE REVIEW BOARDS.

END OF DAY

[signature]
2/2/98

-/3/98

07⁰⁰ BEGAN TRACKING DOWN RWP, PROPER PPE REQUIRED, EQUIPTMENT, WALKDOWNS AND RCT SUPPORT FOR AFTERNOON CORING IN ROOM 105

3/3/98

10⁰⁰ Pre-evolution briefing / 5 attendee RWP covered, AHA work practices

10⁰⁶ Matt D. enters room 105 & begins setup ops.

11¹⁰ Began core drilling ops 2' E of W wall 8' S of N wall. Four spots cored at this location

11³⁰ Drilling completed & beginning cleanup and demobilization

12⁰⁰ Maths & equipt sitting outside rm 105 at RBA

3 3 98 CONCRETE CORES WERE TAKEN FROM ROOM 105 PER REQUEST of RAD ENGINEERING. WORK WAS PERFORMED UNDER A NEW RWP WHICH WAS BASED UPON AN ALARA JOB REVIEW FROM JOHN MILLER. ONE SAMPLE LOCATION WAS REQUIRED FOR ANALYSIS A TOTAL of THREE CONCRETE CORES WERE TAKEN. THE LOCATION WAS CHOSEN BY THE RAD OPS PEOPLE DUE TO THE NOTION of CORING INTO THE "HOTTEST" SPOT IN THE ROOM THE RAD SCREEN SAMPLE (10.0g) WAS SENT TO B559. TWO SAMPLES WERE SEALED AND STORED UNDER COC's LOCK & KEY IN RAD OP's B113 RMMA FACILITY

BOB BAHL AND RICH ADKINS WERE THE RCT's FOR SUPPORT ALL WORK WAS DONE UNDER THE RWP REQUIREMENTS. ALL EQUIPTMENT WAS SURVEYED OUT of ROOM 105 AND A P.R.E. WAS GENERATED TO RELEASE THE EQUIPTMENT OUT of THE BUILDING (B123)

MIKE SCHLUTERBUSCH ASSISTED MATT DESSI OUTSIDE OF THE "HCA". NO PROBLEMS WERE ENCOUNTERED ALL DOCUMENTS WERE IN PLACE AND ALL PAPERWORK COMPLETED PRIOR TO CLOSE OUT of OPERATIONS

3/30/98 I
D
USE
D
LA
WE

Lo
DE
BA
GU
AS
MA
SY

END of DAY

3/3/98

41 CLOSE OUT of LOG BOOK 3/3/98

IWCP CLOSEOUT COMMENTS

3/30/98 DURING CLOSEOUT of IWCP IT WAS DETERMINED THAT BENTONITE WAS NOT USED TO Fill CONCRETE CORE HOLES. DUE TO THE RESULTS FROM THE LAB ANALYSIS, All CORING LOCATIONS WERE CONSIDERED NON-RAD

LOCATIONS of CORES WERE DETERMINED ON A VISUAL/WALKDOWN BASIS AND NOT BY ANY GLOBAL POSITIONING SYSTEMS (GPS) AS STATED IN IWCP DATA WAS NOT ENTERED INTO G.I.S SYSTEM.

END of DAY

W. H. O.

3/30/98

42/42

3/3/98