Department of Energy

Ohio Field Office
Fernald Area Office
P. O. Box 538705
Cincinnati, Ohio 45253-8705
(513) 648-3155

1-3919

2 4 OCT 2001

Mr. James A. Saric, Remedial Project Manager
United States Environmental Protection Agency
Region V, SRF-5J
77 West Jackson Boulevard
Chicago, Illinois 60604-3590

DOE-0061-02

Mr. Tom Schneider, Project Manager
Ohio Environmental Protection Agency
401 East 5th Street
Dayton, Ohio 45402-2911

Dear Mr. Saric and Mr. Schneider:

TRANSMITTAL OF THE AUGUST-SEPTEMBER 2001 MONTHLY REPORT FOR IMPACTED MATERIAL PLACEMENT AT THE ON-SITE DISPOSAL FACILITY

Enclosed for your information is the August-September 2001 Monthly Report for Impacted Material Placement at the On-Site Disposal Facility (OSDF). Impacted material placement began on August 16, 2001 for the 2001 construction season. The following information is included:

- Air monitoring sampling data from the OSDF, Southern Waste Units (SWU), and Haul Road.

- Placement graphs for:
  - Category 1 soil placement versus projected placement in-place cubic yards (icy)
  - Debris placement versus projected placement (icy)
  - Total placement versus projected placement (icy)
  - Total placement versus projected placement in bank cubic yards (bcy).

- Current surface plan views - Cell 2 and Cell 3 plan views showing the current lift of impacted material as of September 30, 2001.

- OSDF Cross sections - Selected cross sections looking north and west showing placement progress.

Recycled and Recyclable

Summary

Approximately 34,500 icy of impacted material were placed in the months of August and September 2001. This quantity is based upon survey data. The enclosed graphs reflect estimated in-place quantities based on shrinkage factors for compaction and debris bulking factors. The estimated quantities on the graphs closely match the surveyed quantity. As shown on the graphs, total soil and debris placement has been behind schedule. The projected schedule was based on placing approximately 8,000 icy/week. Through September 22, 2001, the subcontractor averaged 5,000 icy/week. This is due in part to placing material in areas which are hard to maneuver machinery. The catchment area in Cell 2 and the north side of the intercell berm are two such areas. During the last week of September, the subcontractor averaged 7,300 icy/week of placement. Placement production increased because the low areas were being built higher and making access and maneuverability more manageable. The projections did not account for the constructibility at the start of the season.

Cell 2 is at approximately 60 percent of its impacted material storage capacity. Cell 3 has reached approximately 25 percent of its impacted material storage capacity.

Other activities within the cells included scarifying the Cell 2 and 3 surface to remove vegetative growth prior to placement in the 2001 construction season. Select impacted material was placed in Cell 2 at the catchment area and in the ditch north of the Cell 2/ Cell 3 intercell berm.

The current surface plans for Cells 2 and 3 show the category of impacted material placed in each grid. The latest lift is noted on the grid with the date it was placed. Grids with the same lift number will not necessarily contain the same category of material. If you have any questions or require additional information, please contact Jay Jalovec at (513) 648-3122.

Sincerely,

Johnny Reising

FEMP:Jalovec

Johnny W. Reising
Fernald Remedial Action
Project Manager

Enclosures: As Stated

2 4 OCT 2001

DOE-0061-02

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cc w/enclosures:
R. Greenberg, EM-31/CLOV
N. Hallein, EM-31/CLOV
J. Jalovec, OH/FEMP
R. J. Janke, OH/FEMP
T. Schneider, OEPA-Dayton (three copies of enclosures)
G. Jablonowski, USEPA-V, SRF-5J
F. Bell, ATSDR
F. Hodge, Tetra Tech
M. Schupe, HSI GeoTrans
R. Vandegrift, ODH
AR Coordinator, Fluor Fernald, Inc./MS78

cc w/o enclosures:
R. J. Bell, OH/FEMP
G. Griffiths, OH/FEMP
D. Pfister, OH/FEMP
J. Reising, OH/FEMP
A. Tanner, OH/FEMP
K. Badu-Tweneboah, GeoSyntec/MS38
D. Carr, Fluor Fernald, Inc./MS2
J. Chiou, Fluor Fernald, Inc./MS64
T. Hagen, Fluor Fernald, Inc./MS65-2
K. Harbin, Fluor Fernald, Inc./MS64
U. Kumthekar, Fluor Fernald, Inc./MS64
S. Lorenz, Fluor Fernald, Inc./MS52-5
A. Snider, Fluor Fernald, Inc./MS64
R. Stengel, Fluor Fernald, Inc./MS64
C. Van Arsdale, Fluor Fernald, Inc./MS64
T. Walsh, Fluor Fernald, Inc./MS46
H. Weeks, Fluor Fernald, Inc./MS52-4
D. Whisler, Fluor Fernald, Inc./MS64
W. Zebick, Fluor Fernald, Inc./MS64
ECDC, Fluor Fernald, Inc./MS52-7

On Site Disposal Facility - AUGUST

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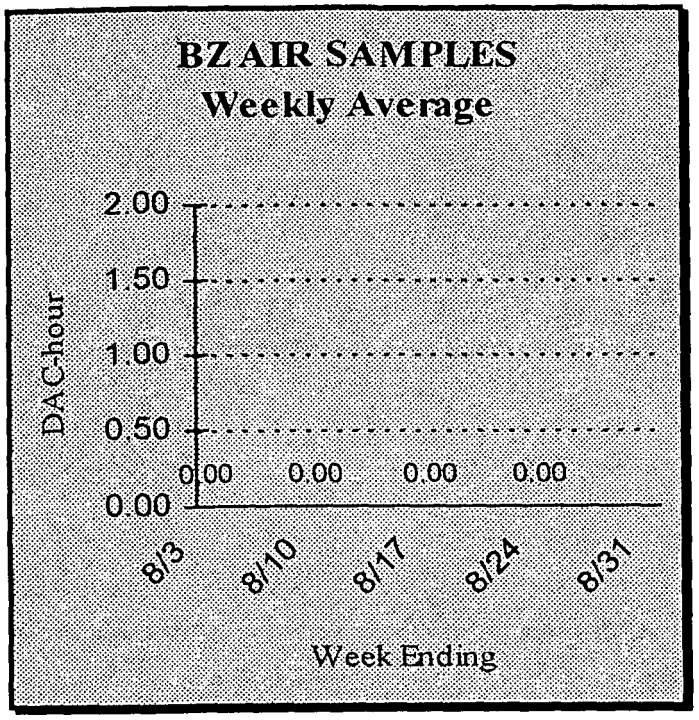
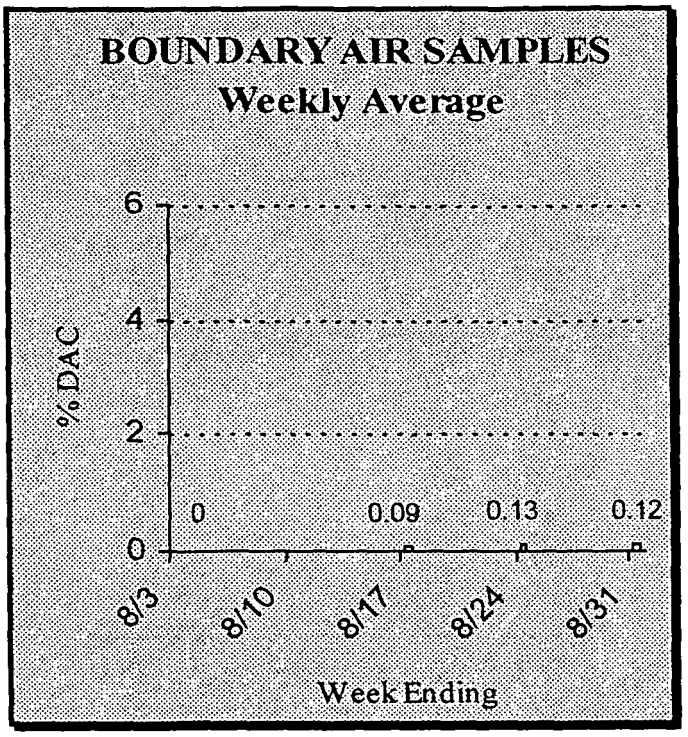
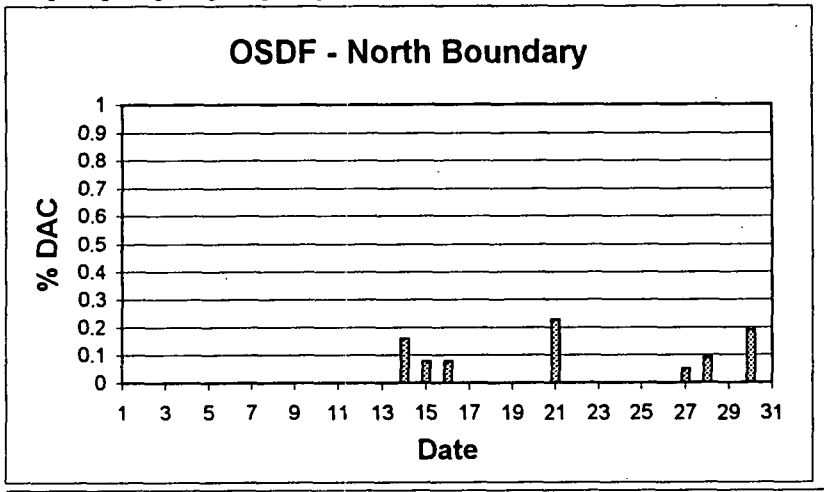


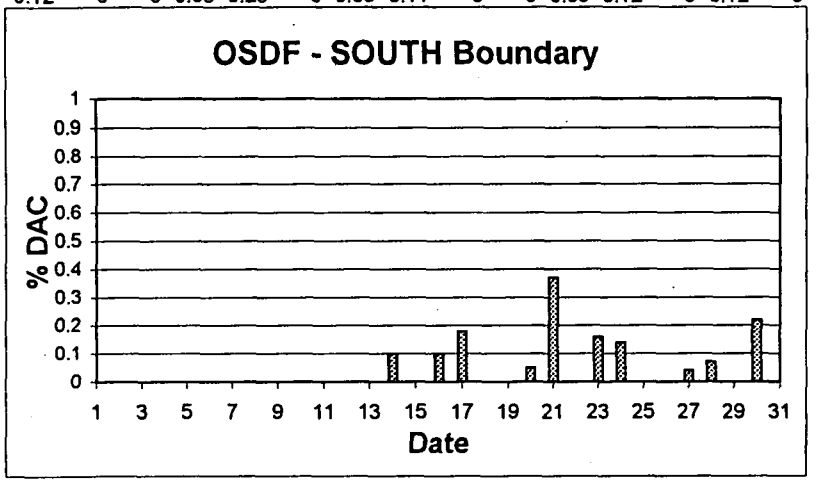


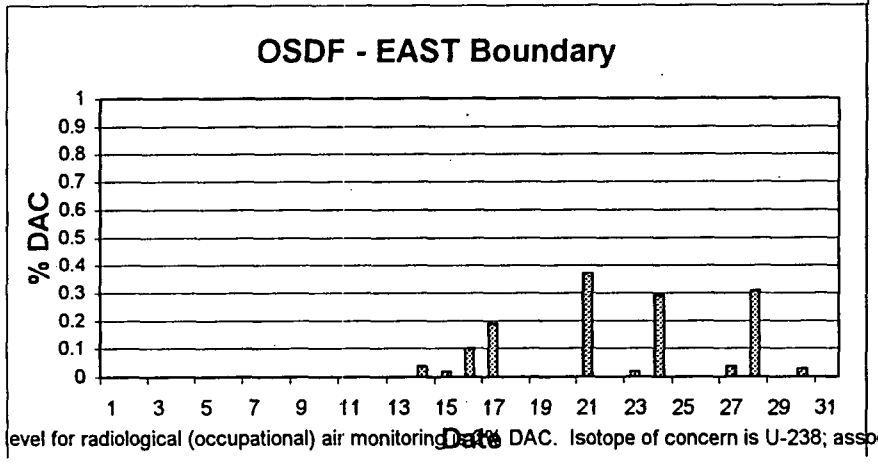
Project Activities and Events
•Performance of OSDF impacted material placement •Impacted material placement started on 8-15-01 •materials being placed in inter cell berm of 2&3 and also in cell2 catchment area

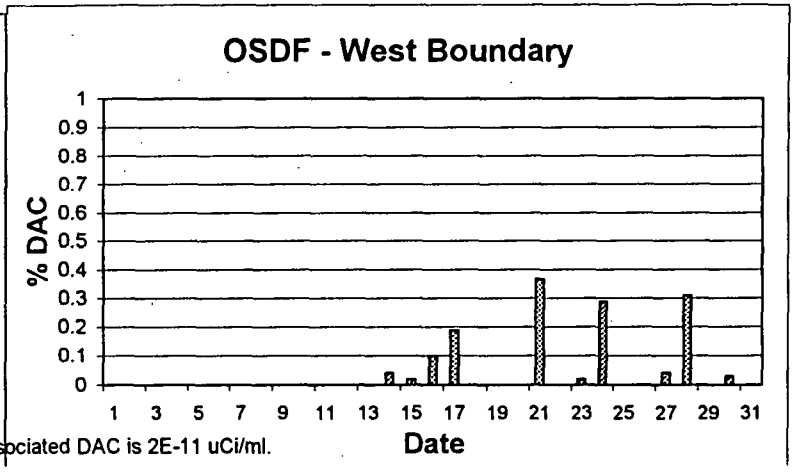
Engineering and Administrative Controls
•Water used for dust control in work areas •Workers remain safe working distance from operating equipment and upwind of potential dust generating activities Note: BZA limit - 12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY														0.16	0.08	0.08	0			0	0.23	0	0	0			0.05	0.09		0.19	
S.BNDY														0.1	0.08	0.1	0.1			0.05	0.16	0	0.16	0			0	0.02		0.03	
E. BNDY														0.1	0	0.1	0.18			0.05	0.37	0	0.16	0.14			0.04	0.07		0.22	
W. BNDY														0.04	0.02	0.1	0.19			0	0.37	0	0.02	0.29			0.04	0.31		0.03	
days sum	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.40	0.18	0.38	0.47	0.00	0.00	0.10	1.13	0.00	0.34	0.43	0.00	0.00	0.13	0.49	0.00	0.47	0.00
days avg	0	0	0	0	0	0	0	0	0	0	0	0	0	0.1		0.1	0.12	0	0	0.03	0.28	0	0.09	0.11	0	0	0.03	0.12	0	0.12	0

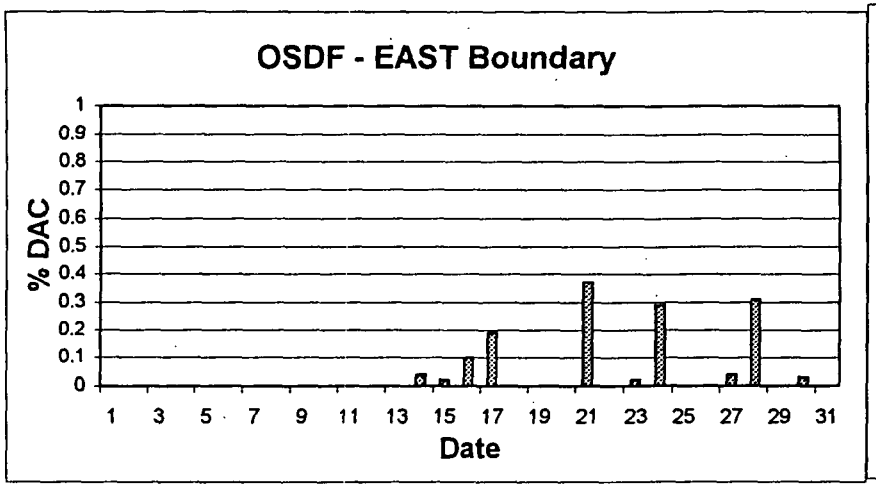


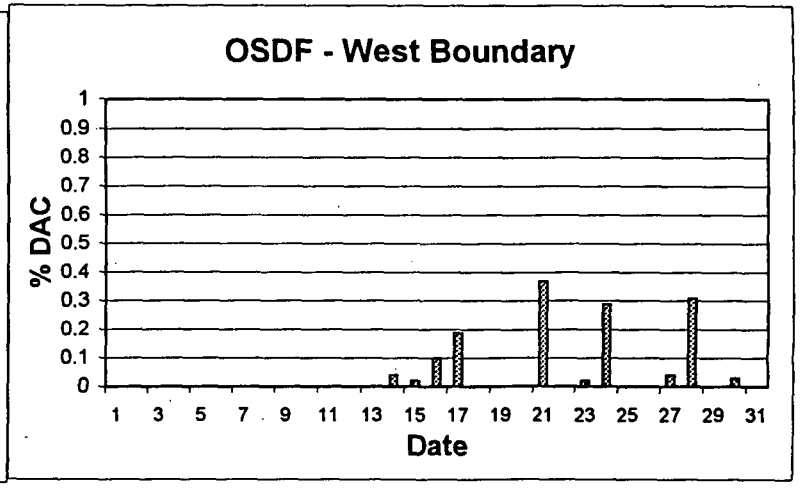






Action level for radiological (occupational) air monitoring Date 1% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.





Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

On Site Disposal Facility - September

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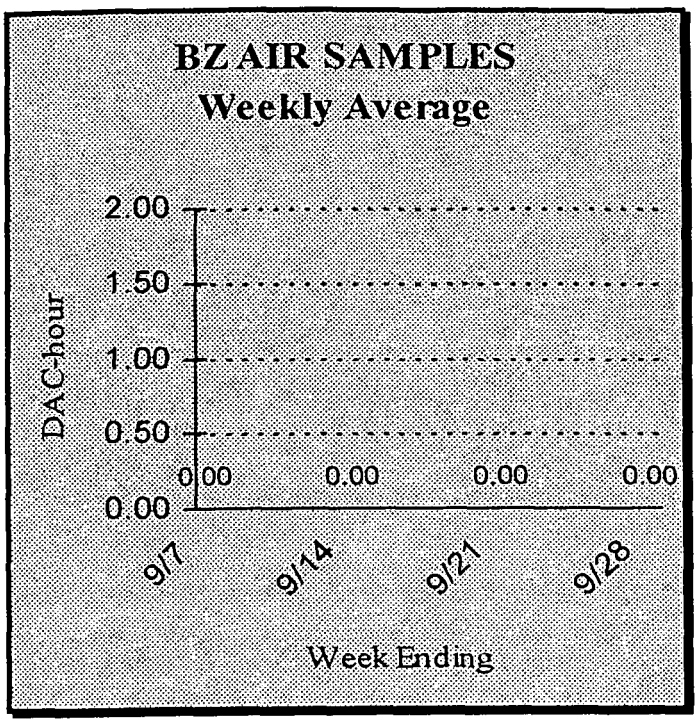
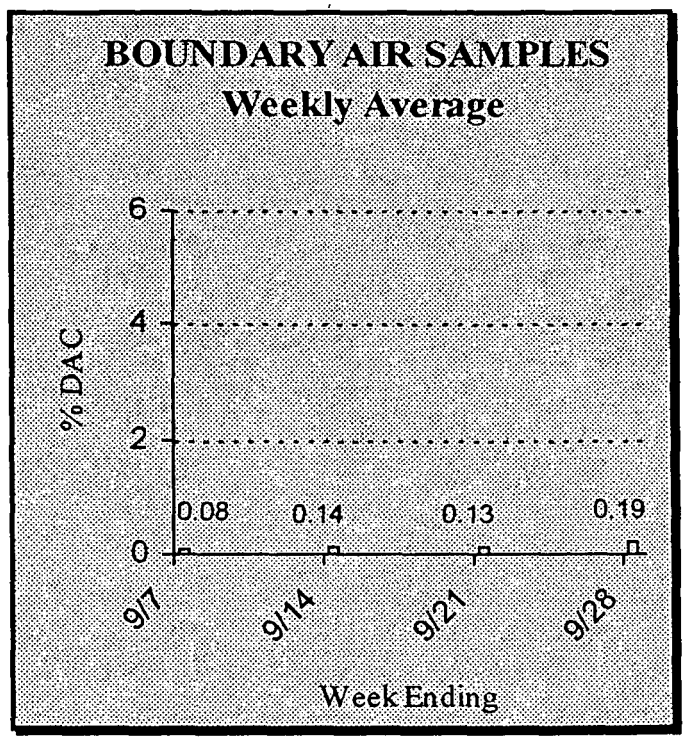




Project Activities and Events

- Performance of OSDF impacted material placement
- Impacted material placement started on 8-15-01
- materials being placed in inter cell berm of 2&3 and also in cell2 catchment area
- placement of lime sludge starts.

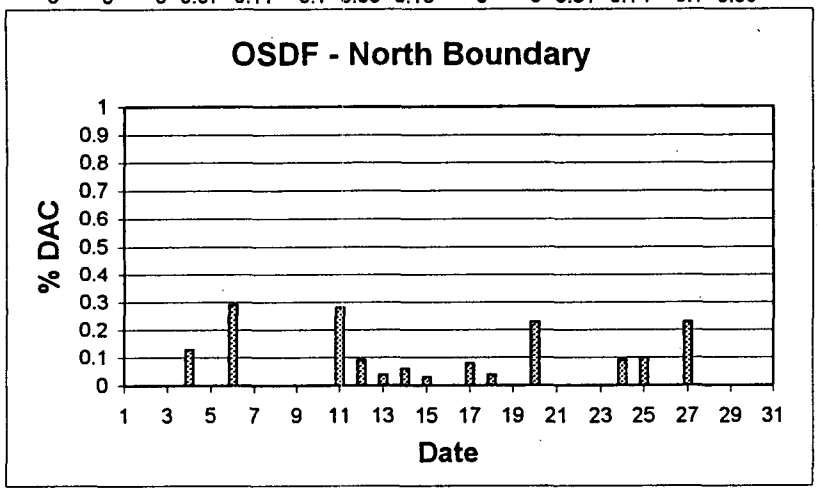
Engineering and Administrative Controls

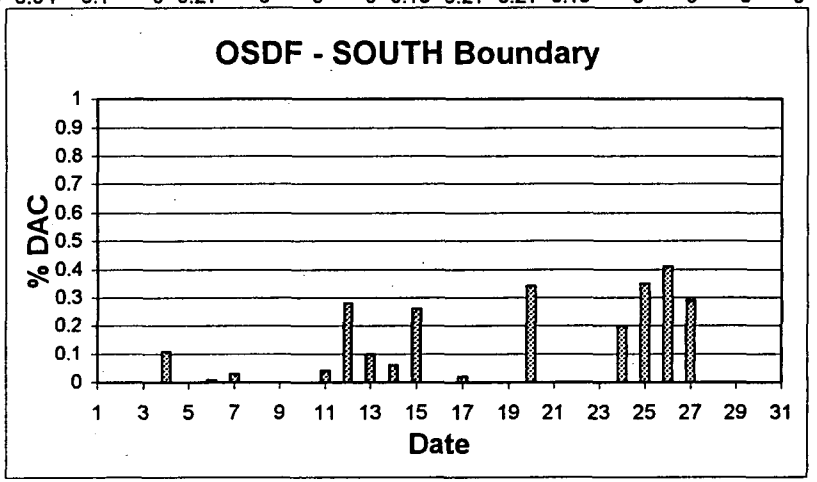
- Water used for dust control in work areas
- Workers remain safe working distance from operating equipment and upwind of potential dust generating activities

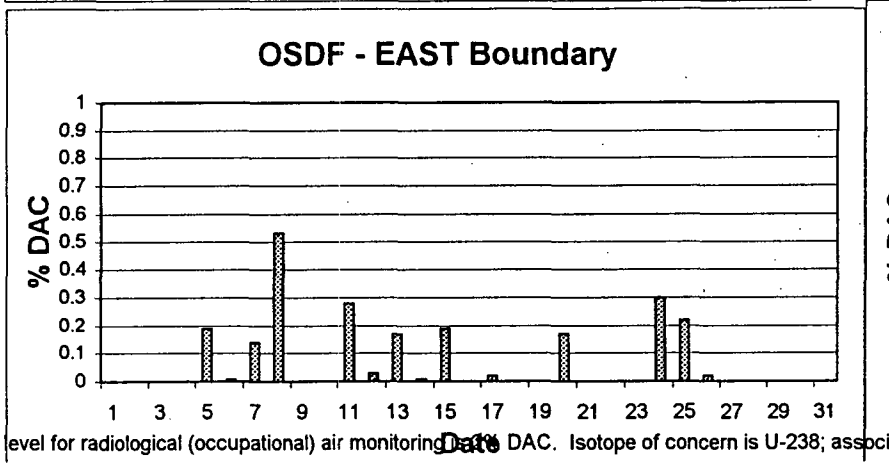
Note: BZA limit - 12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

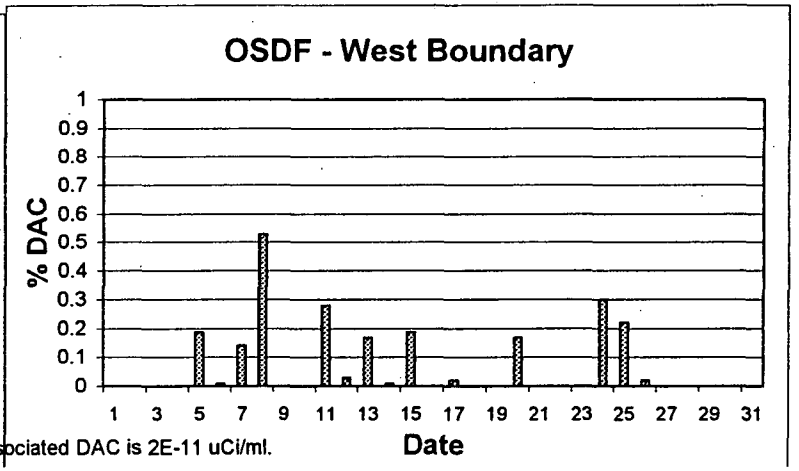
OSDF BOUNDARY AIR SAMPLES September 2001

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY				0.13	0.00	0.29	0				0.28	0.09	0.04	0.06	0.03		0.08	0.04		0.23				0.09	0.1	0	0.23				
S.BNDY				0.04	0.26	0.09	0.01				0.63	0.16	0.1	0.12	0.27		0.02	0.34		0.1				0	0.15	0.41	0.23				
E. BNDY				0.11	0.00	0.01	0.03				0.04	0.28	0.1	0.06	0.26		0.02	0		0.34				0.2	0.35	0.41	0.29				
W. BNDY				0	0.19	0.01	0.14	0.53			0.28	0.03	0.17	0.01	0.19		0.02	0		0.17				0.3	0.22	0.02	0				
days sum	0.00	0.00	0.00	0.28	0.45	0.40	0.18	0.53	0.00	0.00	1.23	0.56	0.41	0.25	0.75	0.00	0.14	0.38	0.00	0.84	0.00	0.00	0.00	0.59	0.82	0.84	0.75	0.00	0.00	0.00	0.00
days avg	0	0	0	0.07	0.11	0.1	0.05	0.13	0	0	0.31	0.14	0.1	0.06		0	0.04	0.1	0	0.21	0	0	0	0.15	0.21	0.21	0.19	0	0	0	0









Action level for radiological (occupational) air monitoring is 1% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

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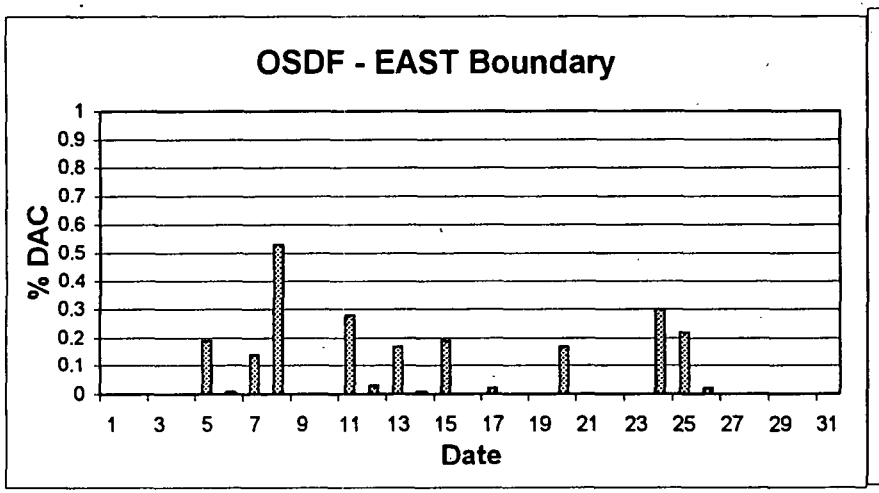

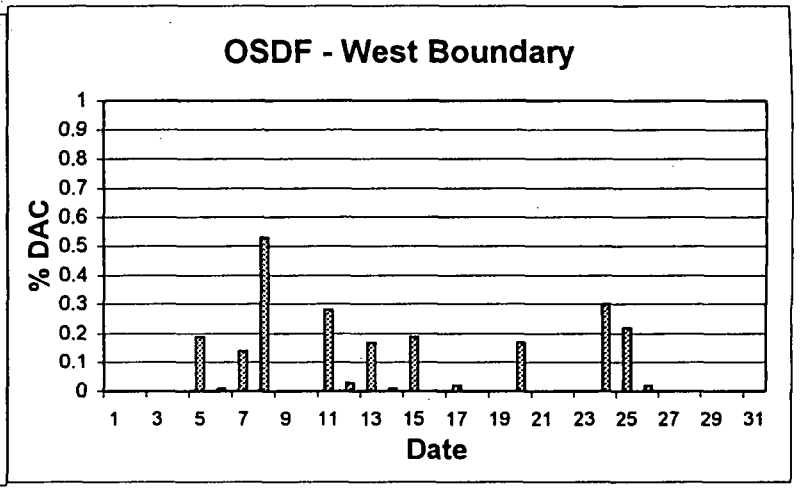

Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

OMTA-August

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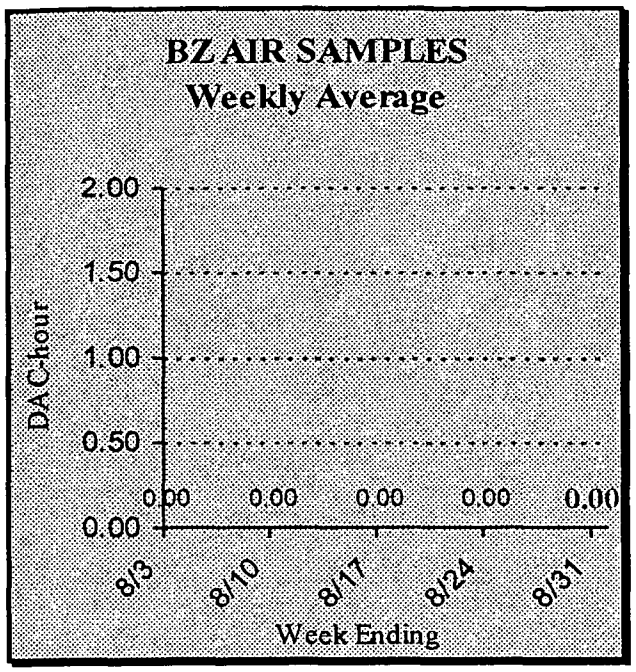
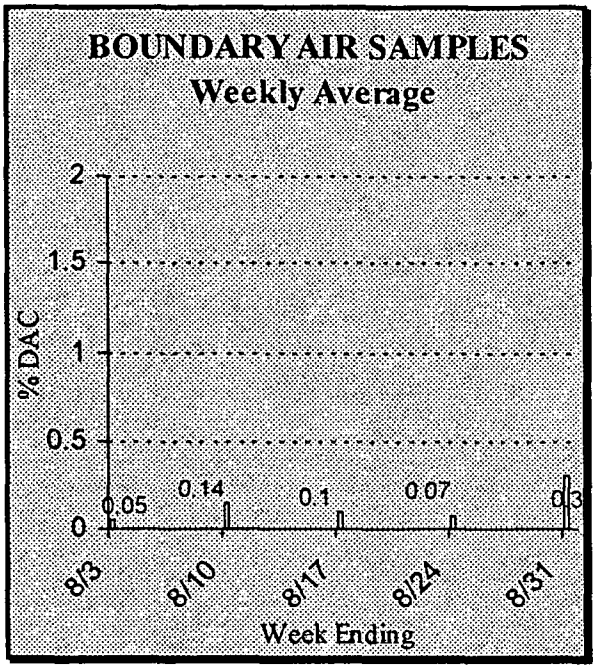


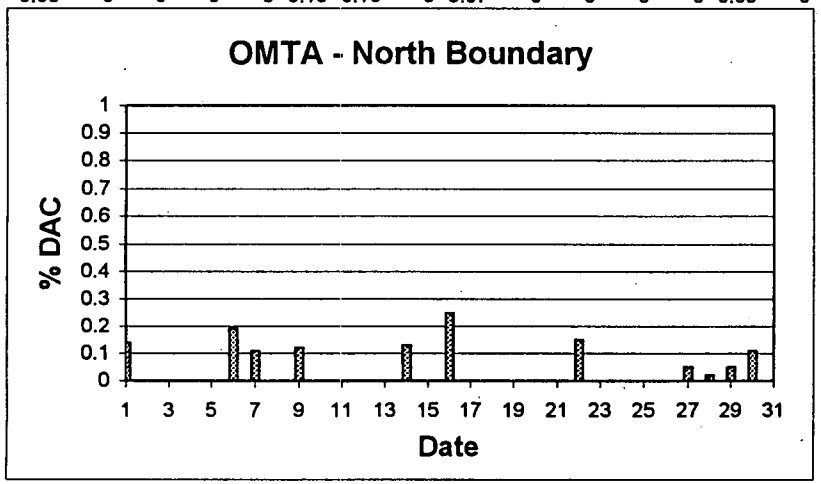


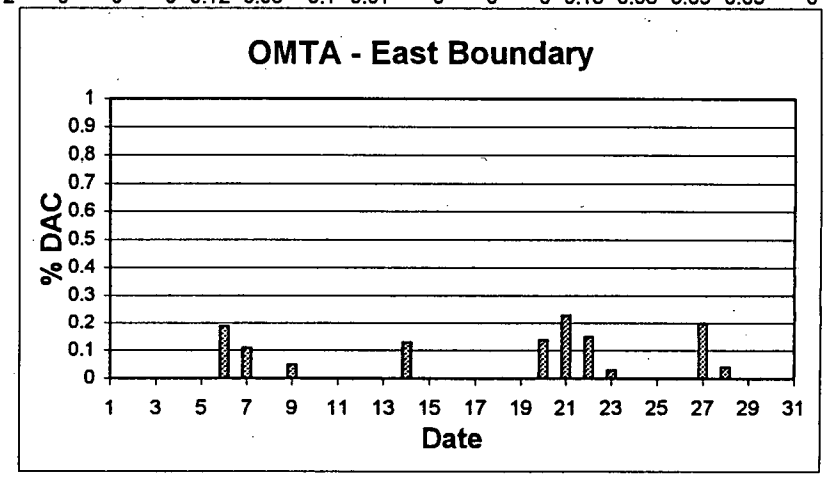
Project Activities and Events
•Dumping of bulk debris boxes in area from D&D projects •Dumping of boxes of materials staged in WGS storage areas

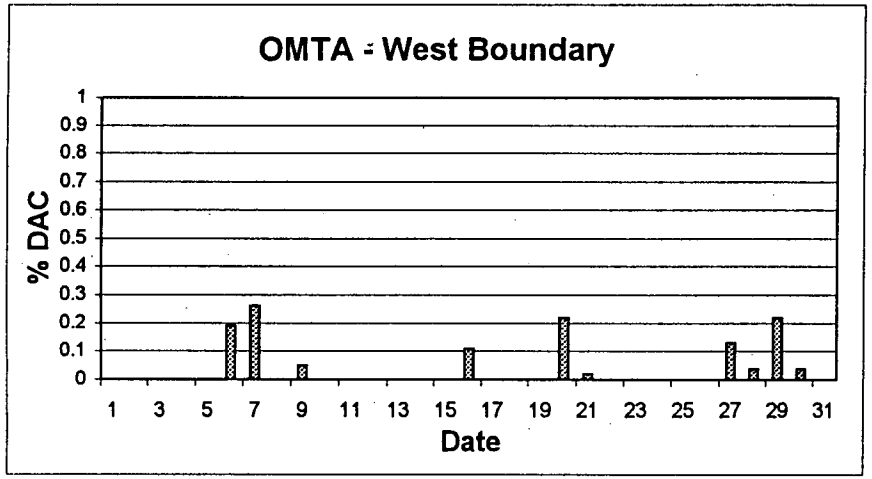
Engineering and Administrative Controls
•Water application for dust control; •Controlled loading of equipment to prevent the spread of contamination •Note: BZA limit -12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

OMTA BOUNDARY AIR SAMPLES August 2001

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY	0.14					0.19	0.11		0.12					0.13	0	0.25				0	0	0.15	0				0.05	0.02	0.05	0.11	
E. BNDY	0					0.19	0.11		0.05					0.13	0	0				0.14	0.23	0.15	0.03				0.2	0.04	0	0	
W. BNDY	0					0.19	0.26		0.05					0	0	0.11				0.22	0.02	0	0				0.13	0.04	0.22	0.04	
days sum	0.14	0	0	0	0	0.57	0.48	0	0.22	0	0	0	0	0.26	0	0.36	0	0	0	0.36	0.25	0.3	0.03	0	0	0	0.38	0.1	0.27	0.15	0
days avg	0.05	0	0	0	0	0.19	0.16	0	0.07	0	0	0	0	0.09	0	0.12	0	0	0	0.12	0.08	0.1	0.01	0	0	0	0.13	0.03	0.09	0.05	0







Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

OMTA-September

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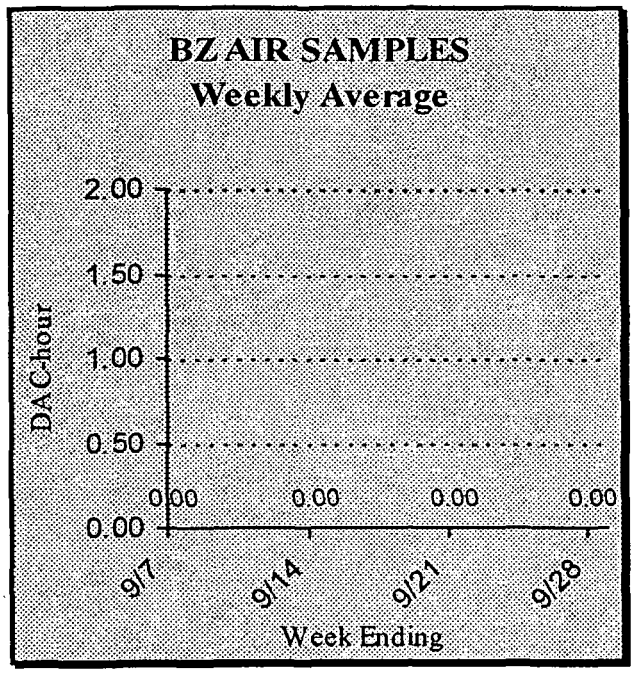
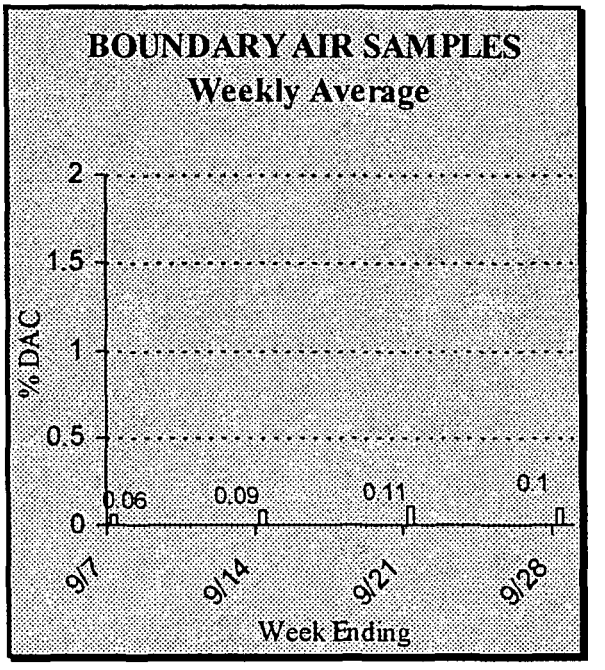




Project Activities and Events

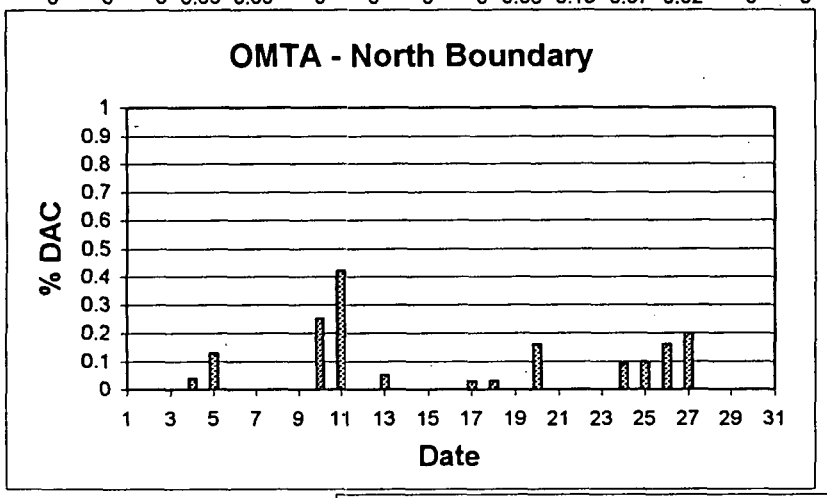
- Dumping of bulk debris boxes in area from D&D projects
- Dumping of boxes of materials staged in WGS storage areas
- Load out of bulk debris in roll off boxes for cell placement starts.

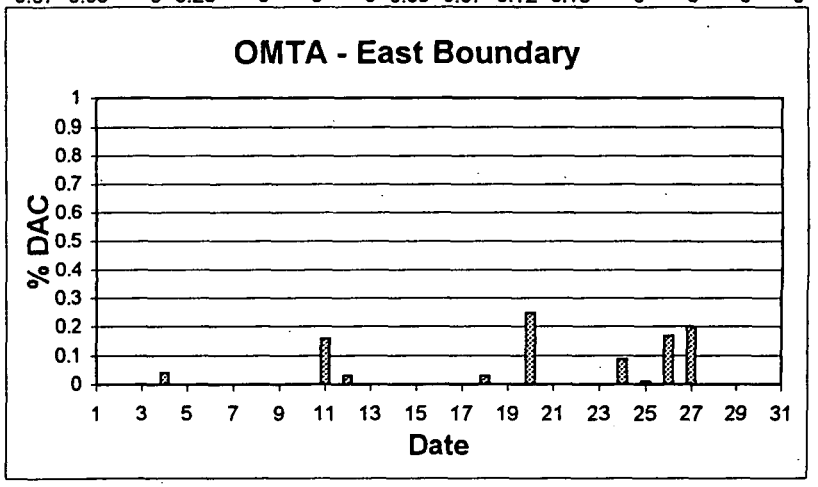
Engineering and Administrative Controls

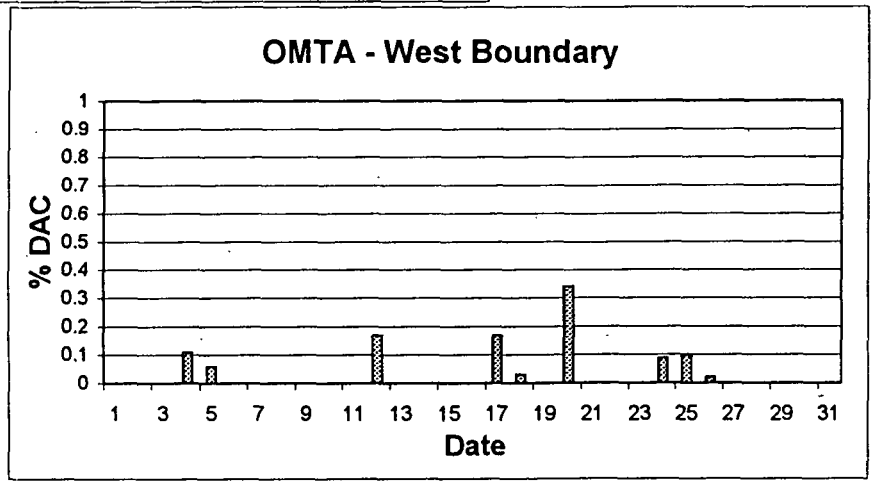
- Water application for dust control;
- Controlled loading of equipment to prevent the spread of contamination

- Note: BZA limit -12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
N. BNDY				0.04	0.13					0.25	0.42	0	0.05				0.03	0.03		0.16				0.09	0.1	0.16	0.2				
E. BNDY				0.04	0.00					0	0.16	0.03	0				0	0.03		0.25				0.09	0.01	0.17	0.2				
W. BNDY				0.11	0.06					0	0	0.17	0				0.17	0.03		0.34				0.09	0.1	0.02	0				
days sum	0	0	0	0.19	0.19	0	0	0	0	0.25	0.58	0.2	0.05	0	0	0	0.2	0.09	0	0.75	0	0	0	0.27	0.21	0.35	0.4	0	0	0	0
days avg	0	0	0	0.06	0.06	0	0	0	0	0.08	0.19	0.07	0.02	0	0	0	0.07	0.03	0	0.25	0	0	0	0.09	0.07	0.12	0.13	0	0	0	0







Action level for radiological (occupational) air monitoring is 2% DAC. Isotope of concern is U-238; associated DAC is 2E-11 uCi/ml.

Southern Waste Units - AUGUST

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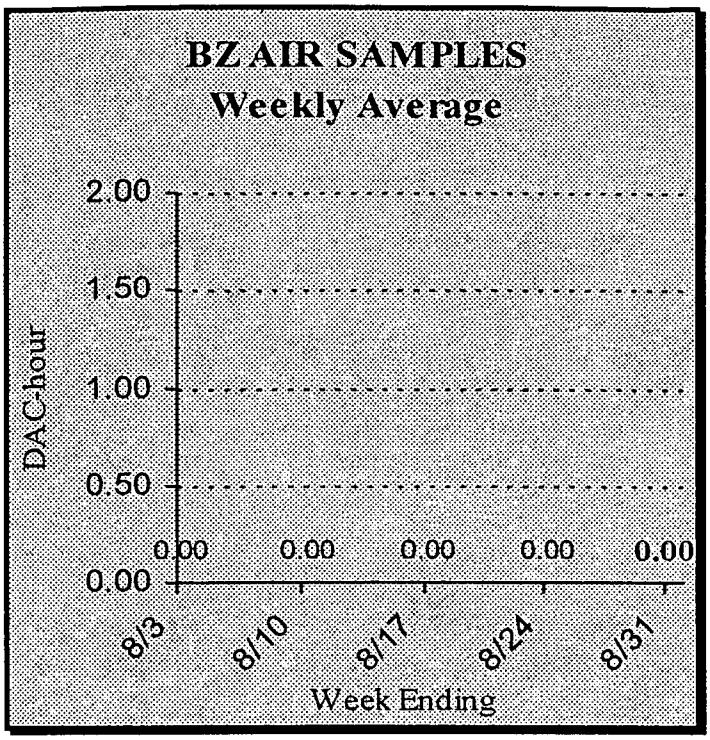

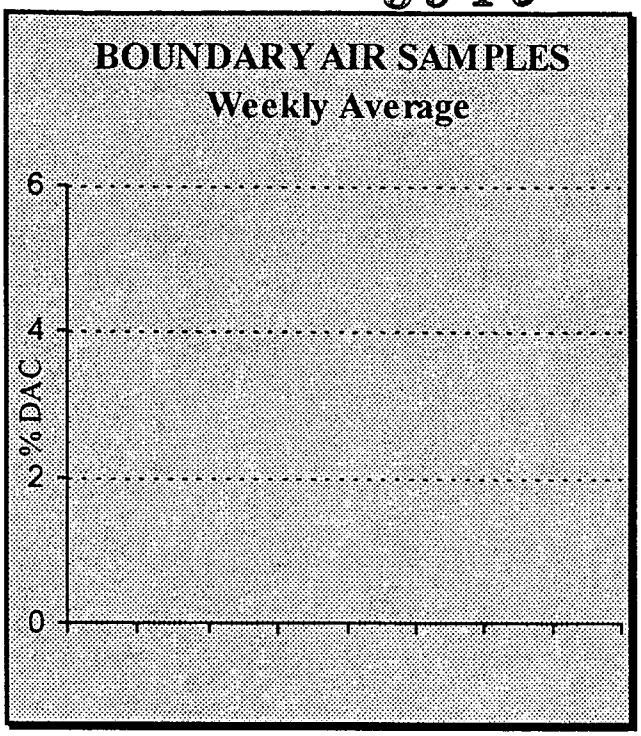

Project Activities and Events

- Hauling from impacted stock piles within the south field
- materials from inactive flyash pile
- materials from Carolina area
- materials from turnaround pile

Engineering and Administrative Controls

- Water application for dust control;
- Controlled loading of equipment to prevent the spread of contamination

- Note: BZA limit -12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

Southern Waste Units - September

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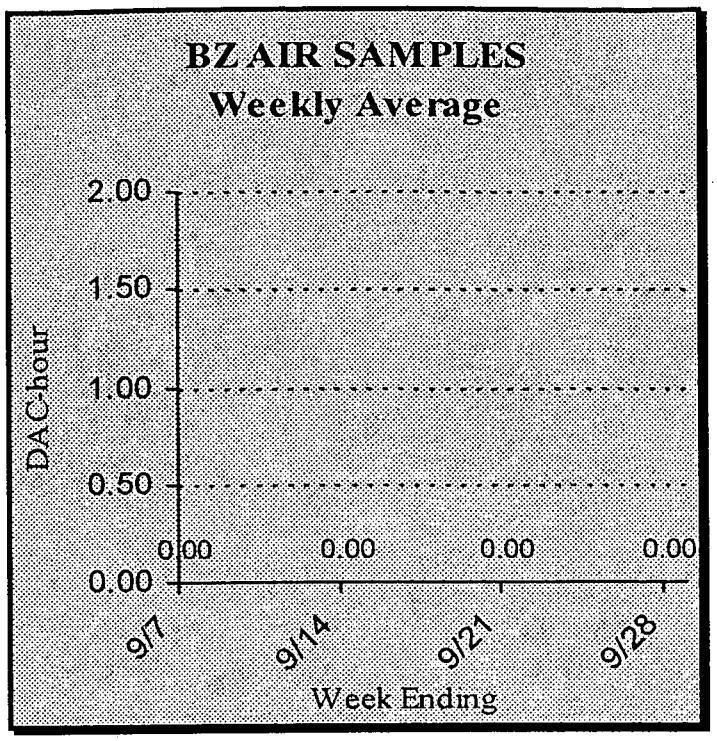
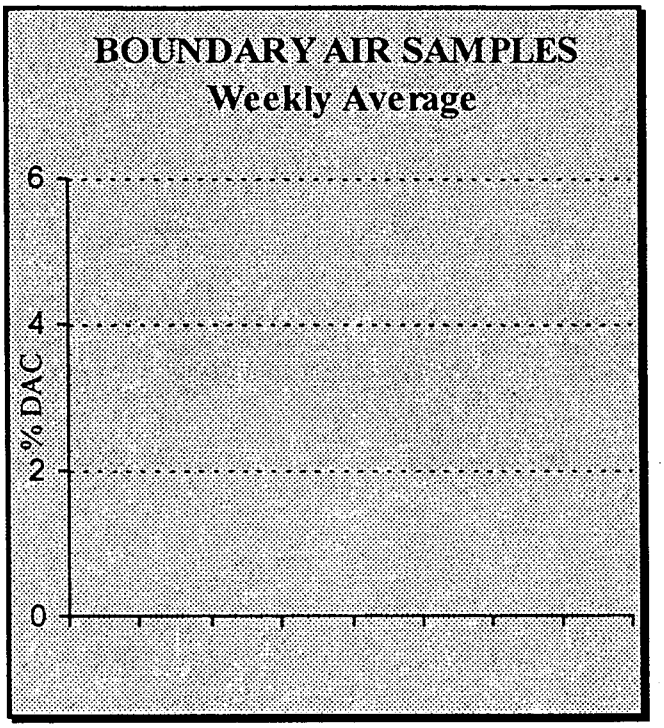




Project Activities and Events

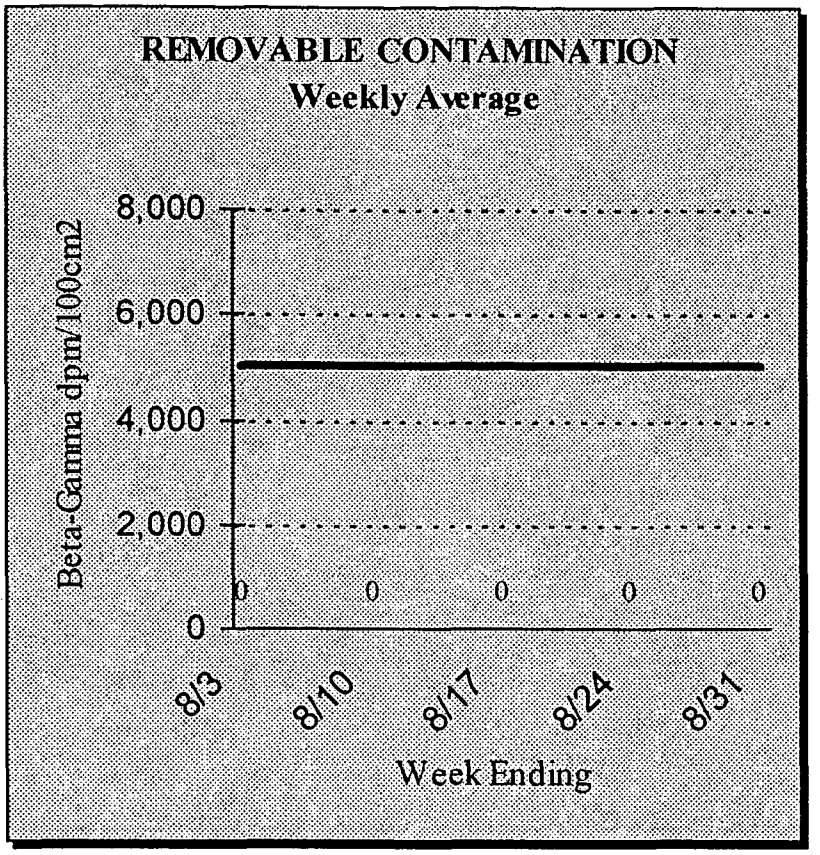
- Hauling from impacted stock piles within the south field
- materials from inactive flyash pile
- materials from Carolina area
- materials from turnaround pile
- materials from lime sludge ponds.

Engineering and Administrative Controls

- Water application for dust control;
- Controlled loading of equipment to prevent the spread of contamination

- Note: BZA limit -12 DAC-hrs/week; Boundary limit - 2% DAC averaged over a week

Haul Road -AUGUST

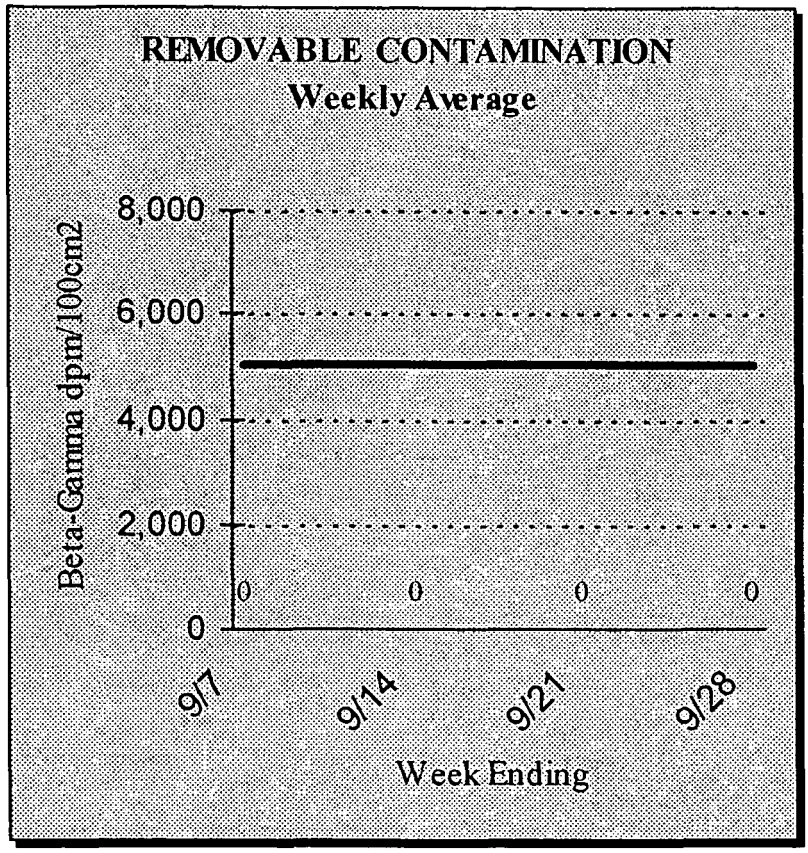


Project Activities and Events
•Hauling from SWU and OMTA to OSDF; •Haul road is considered a dirty buffer rad work permit required.

Engineering and Administrative Controls
Note: Contamination level "limit" for HR activities - 1000 dpm/100cm^2 (0 on graph indicates less than 1000 dpm/100cm^2)

Haul Road -September

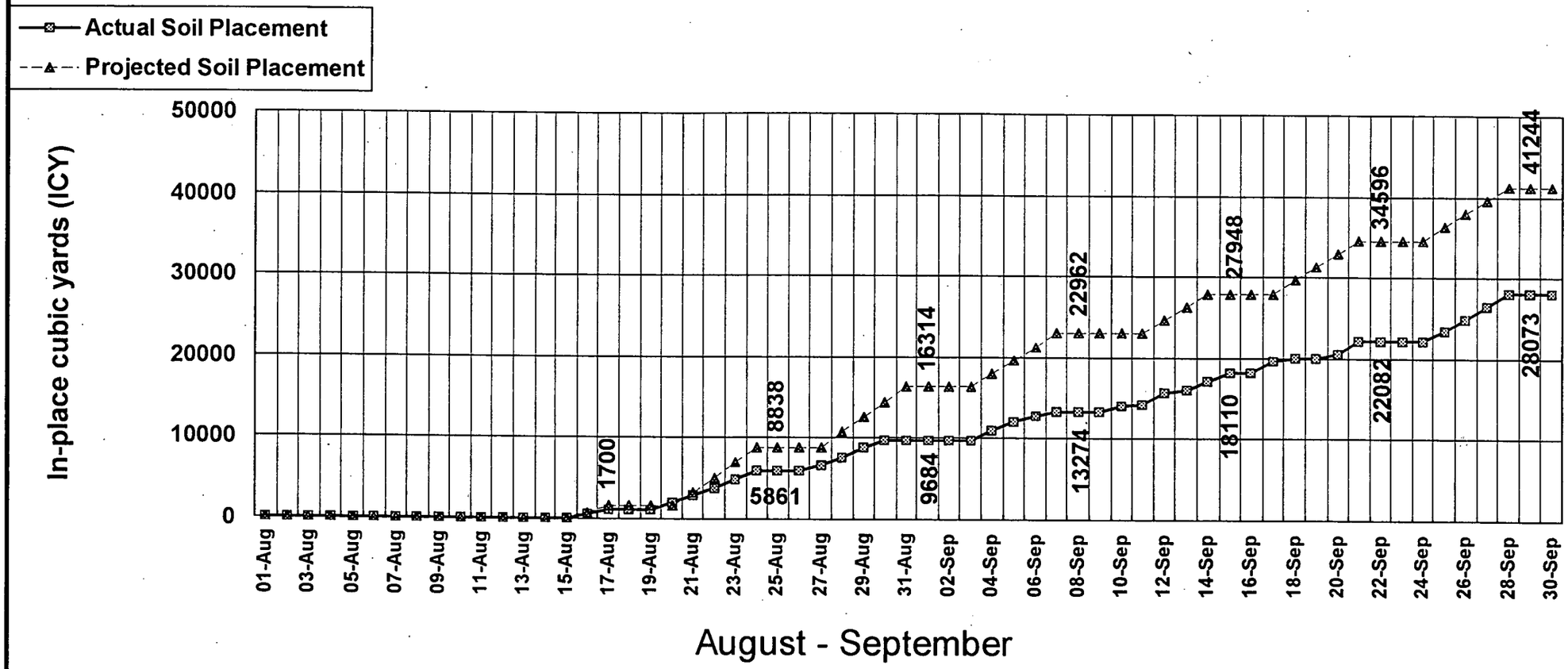
3919



Project Activities and Events
•Hauling from SWU,OMTA and lime sludge ponds to OSDF; •Haul road is considered a dirty buffer rad work permit required.

Engineering and Administrative Controls
Note: Contamination level "limit" for HR activities - 1000 dpm/100cm^2 (0 on graph indicates less than 1000 dpm/100cm^2)

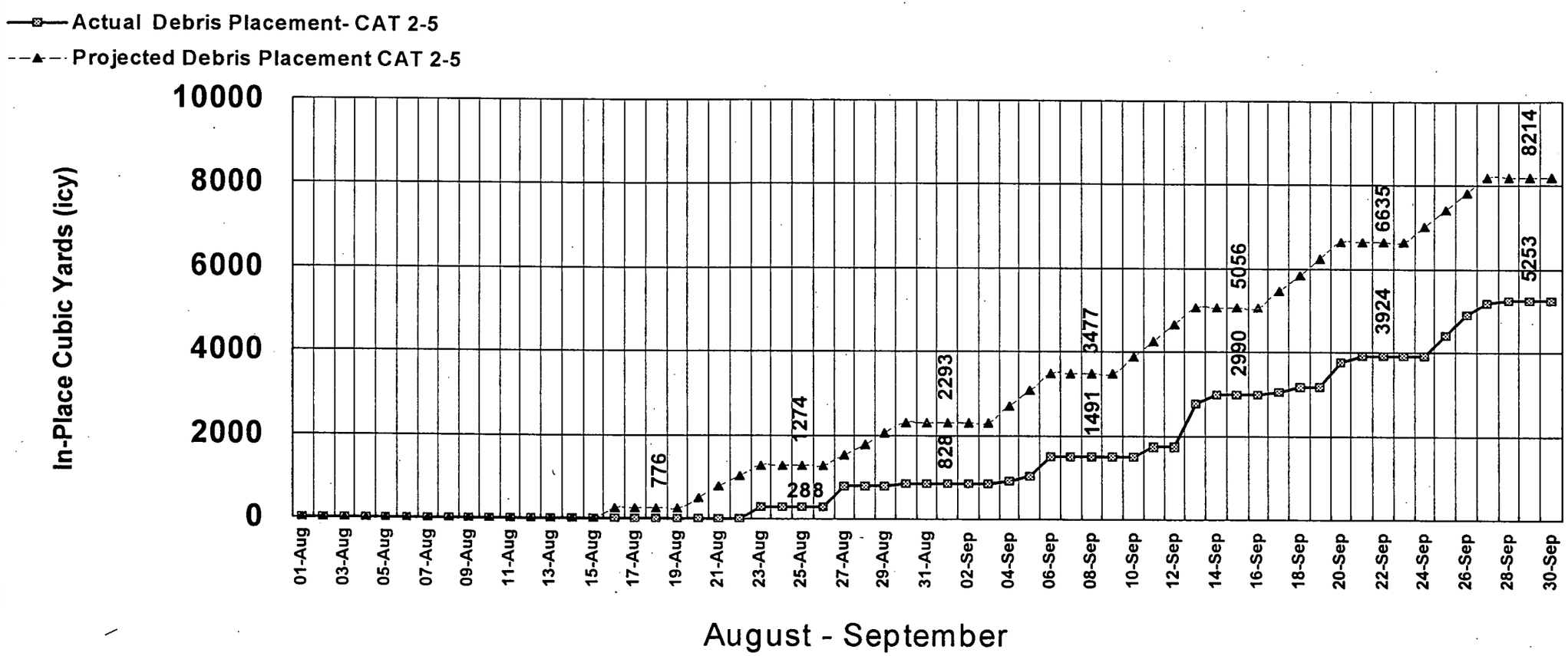
CAT 1 Soil Placement



CAT 1 Soil Chart 1

10/10/2001

Debris Placement

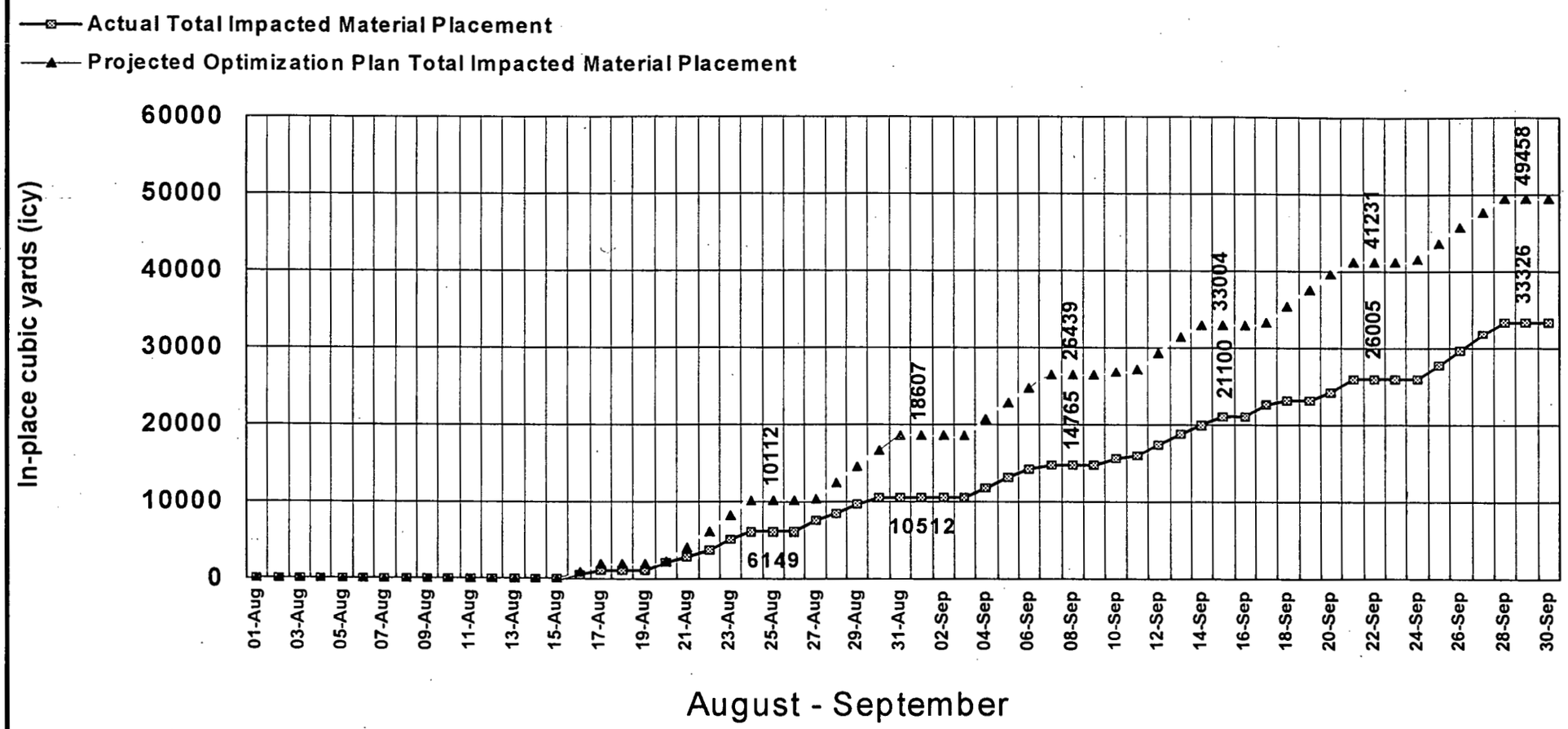


Total Debris Chart 1

10/10/2001

3919

Total Soil and Debris Placement (icy)



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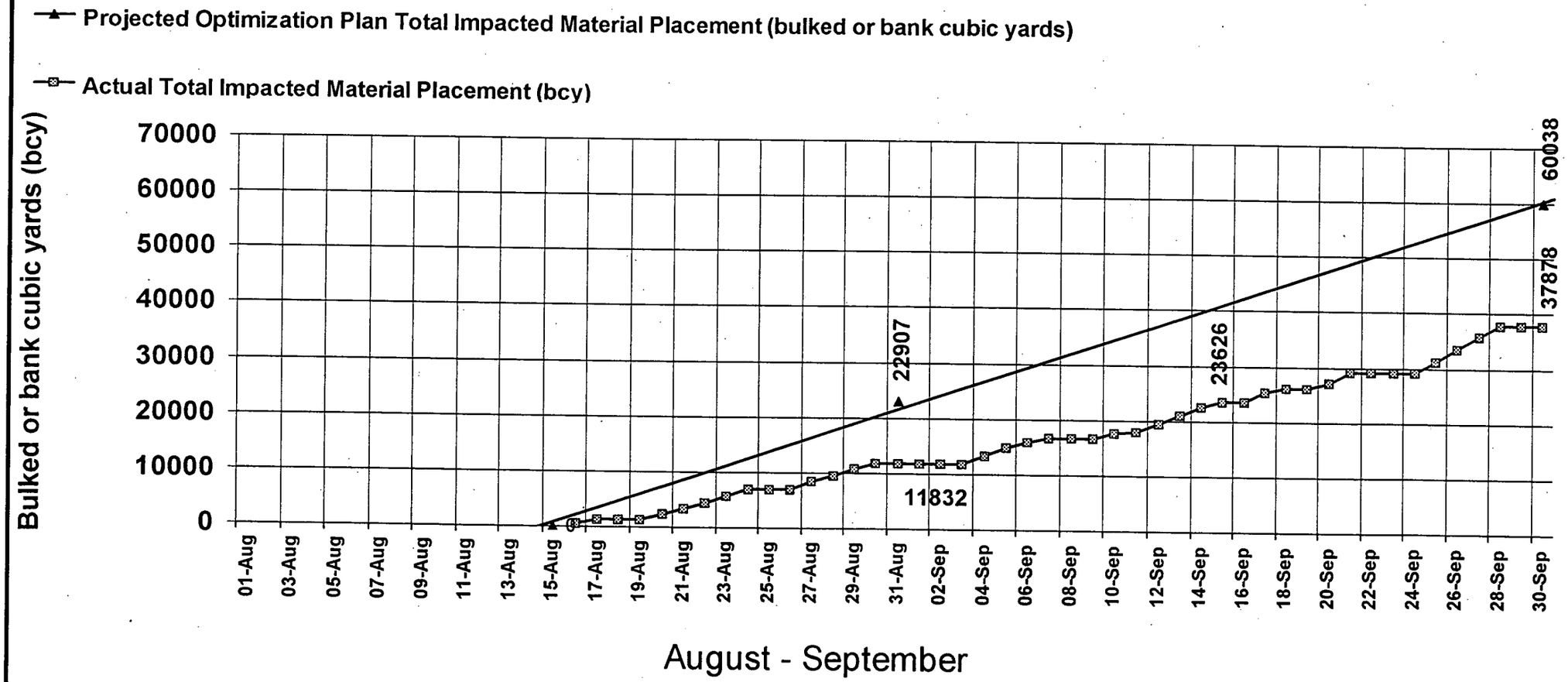
Total Soil and Debris Chart 1

Note: Projected quantities based on approx. 8,500 icy/wk of impacted material placement

10/10/2001

3919

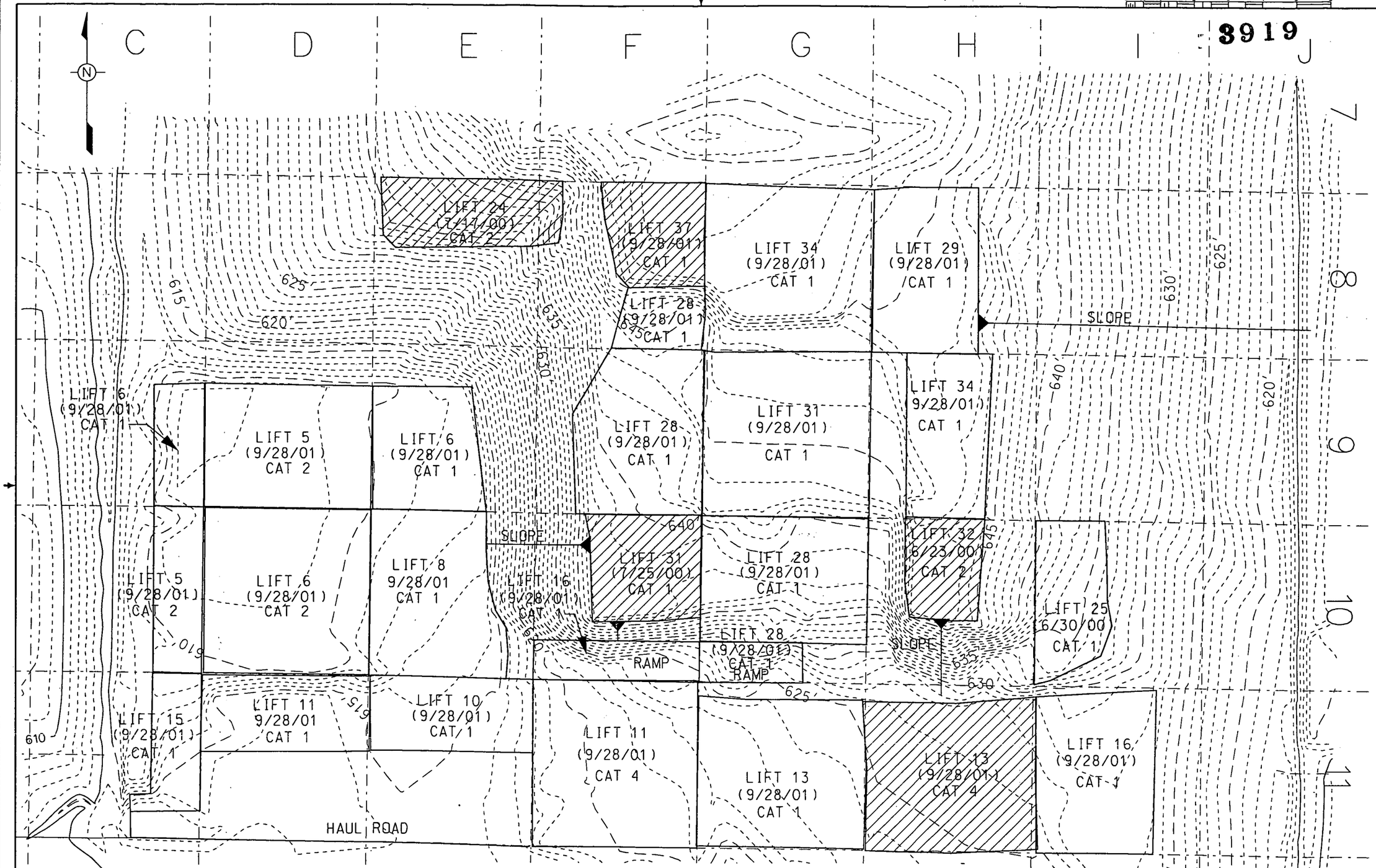
Total Soil and Debris Placement (bcy)



000021

Total bcy optimized Chart 1

10/10/2001



CELL 2 CURRENT SURFACE PLAN AS OF 9/28/01

LEGEND:

SURVEYED AREAS

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: FLUOR FERNALD CADD DRAWING, DO NOT REVISE MANUALLY.

CONFIGURATION MANAGEMENT DRAWING

COGNIZANT ENGINEER DATE

APPROVALS

CIVIL & STR.		SAFETY ENG.	
ELECTRICAL		MAINTENANCE	
ENGINEER		FIRE PROTECT	
INSTRUMENT		WASTE MANAGE	
MECHANICAL		SECURITY	
		PROJECTS	
CHECKED			
APPROVED			

Fernald Environmental Management Project

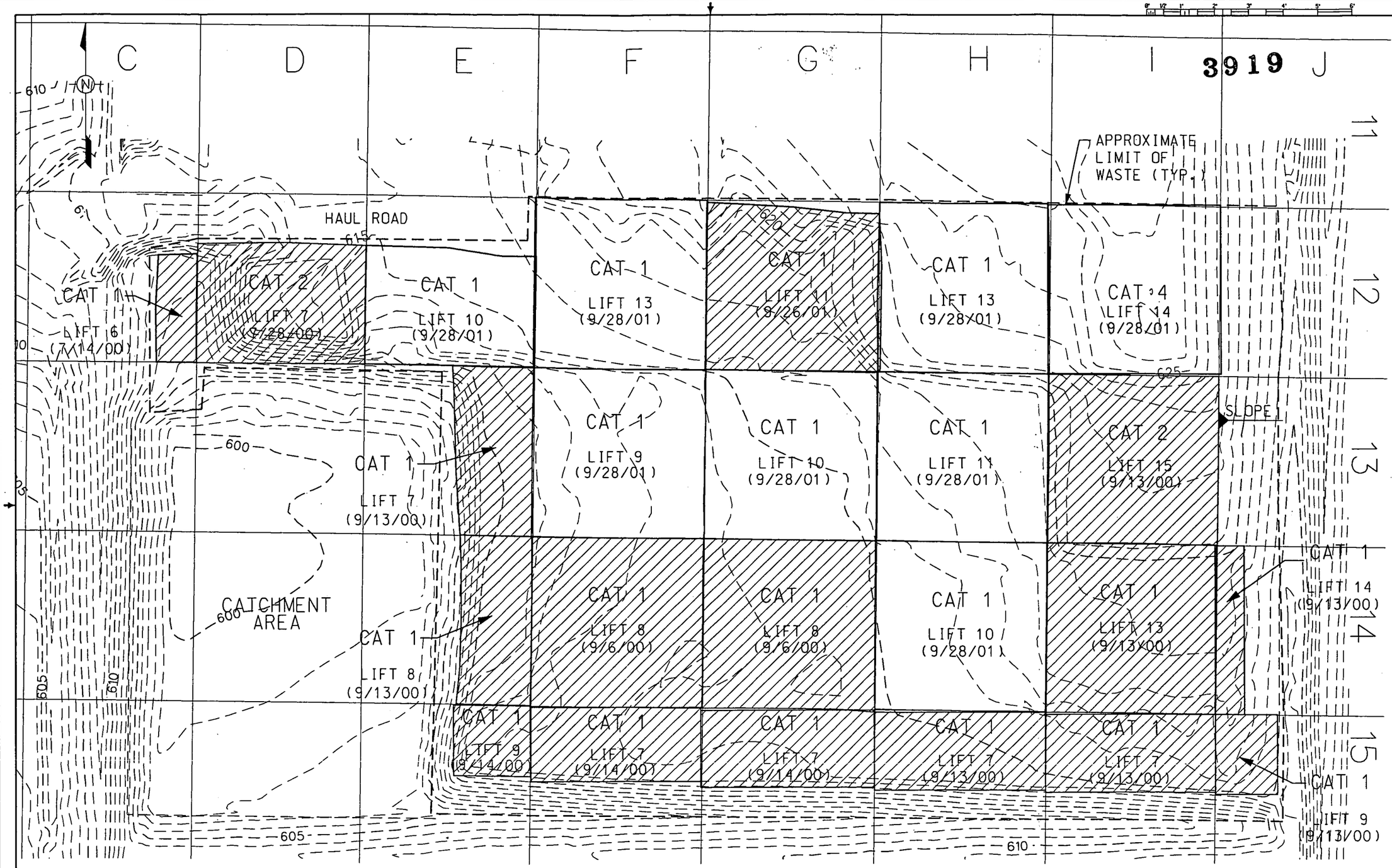
FLUOR FERNALD, INC.

U.S. DEPARTMENT OF ENERGY

CELL 2
TOP LIFT PLAN
CATEGORY PLACEMENT

DATE 10/12/01
DRAWN WJO

FILE NAME: 2sep01.dgn



CELL 3 CURRENT SURFACE PLAN AS OF 9/28/01

000023

LEGEND:

SURVEYED AREAS

NO.	REVISIONS	DATE	DWN. BY	APPD.	NO.	REVISIONS	DATE	DWN. BY	APPD.	REF. DWG. NO.

NOTE: FLUOR FERNALD CADD DRAWING, DO NOT REVISE MANUALLY.

CONFIGURATION MANAGEMENT DRAWING

SYSTEMS, STRUCTURES OR COMPONENTS DEPICTED ON THIS DRAWING ARE UNDER CONFIGURATION MANAGEMENT CONTROL. SEE NOTES.

COGNIZANT ENGINEER DATE

APPROVALS

CIVIL & STR.		SAFETY ENG.	
ELECTRICAL		MAINTENANCE	
ENGINEER		FIRE PROTECT.	
INSTRUMENT		WASTE MANAGE	
MECHANICAL		SECURITY	
		PROJECTS	
CHECKED			
APPROVED			

Fernald Environmental Management Project

FLUOR FERNALD, INC.

U.S. DEPARTMENT OF ENERGY

CELL 3
TOP LIFT PLAN
CATEGORY PLACEMENT

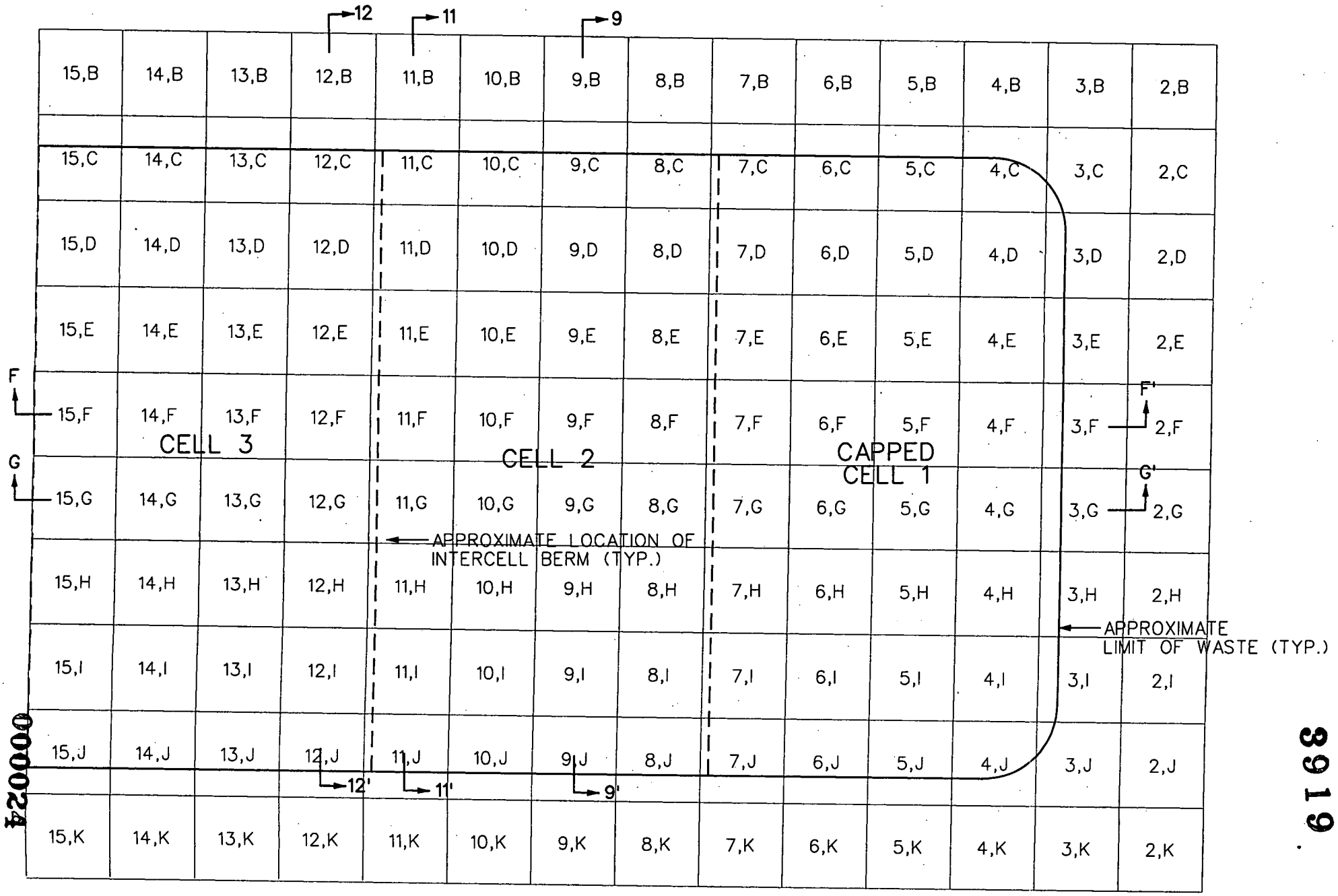
DATE 10/17/00
DRAWN DRF

FILE NAME: 3sep01.dgn

10/18/01

FFS.DGN 3/22/00

OSDF GRID KEY PLAN



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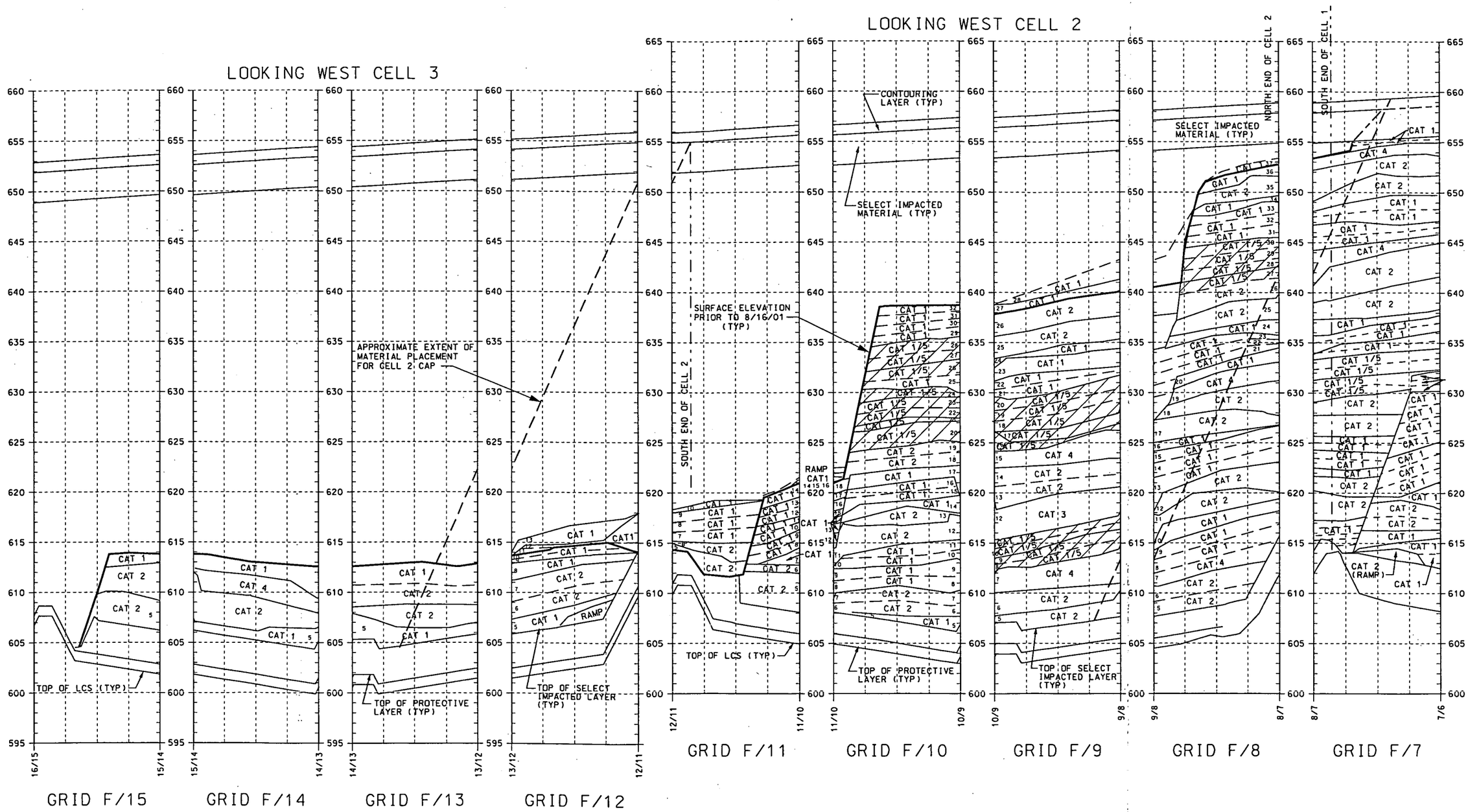
cell1.dgn



SECTION F-F'

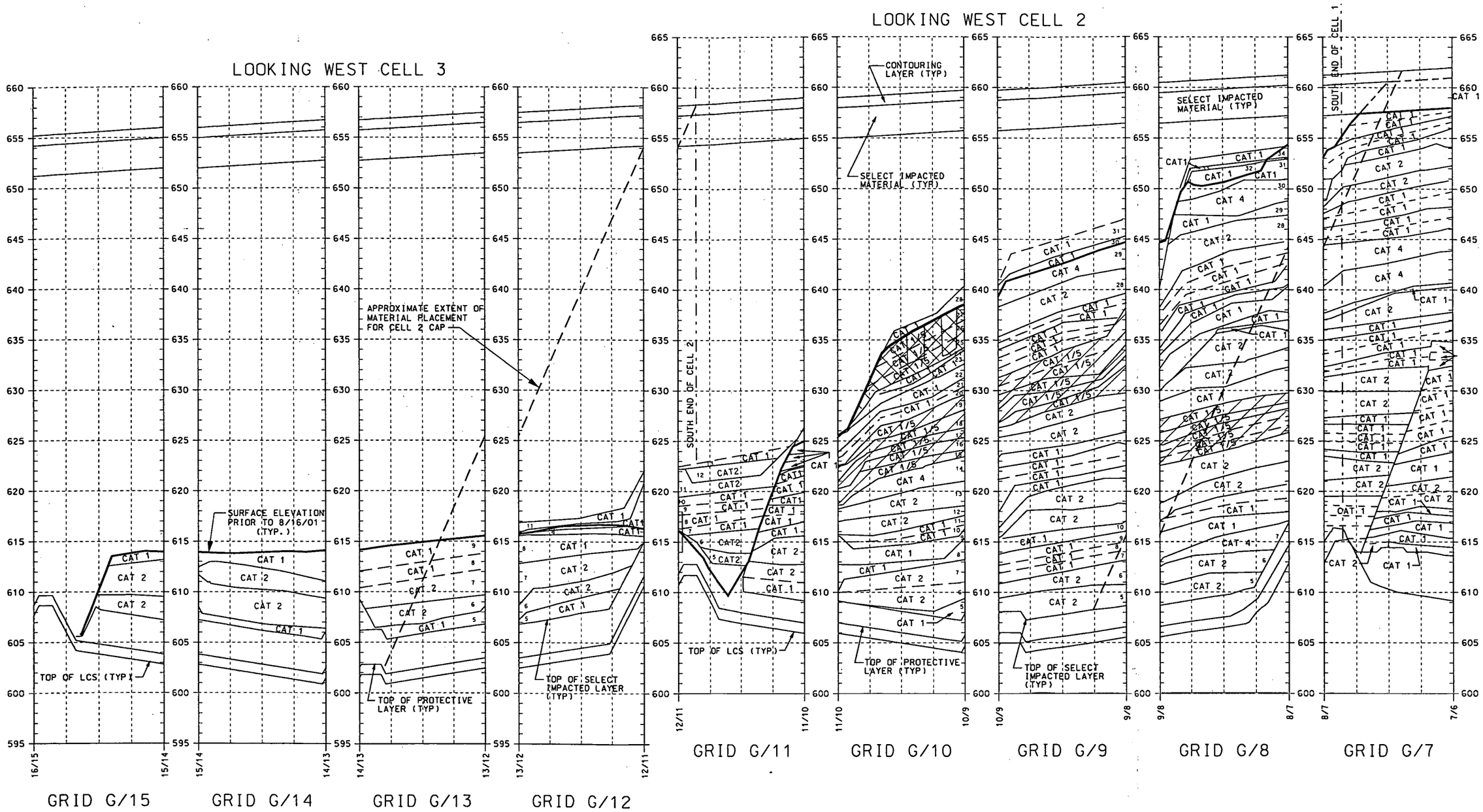
REVISED 9/28/01 (9/28/01WK SURVEY)

10/18/01

F

sect01.dgn

3919



SECTION G-G'

REVISED 9/28/01 (9/28/01WK SURVEY)

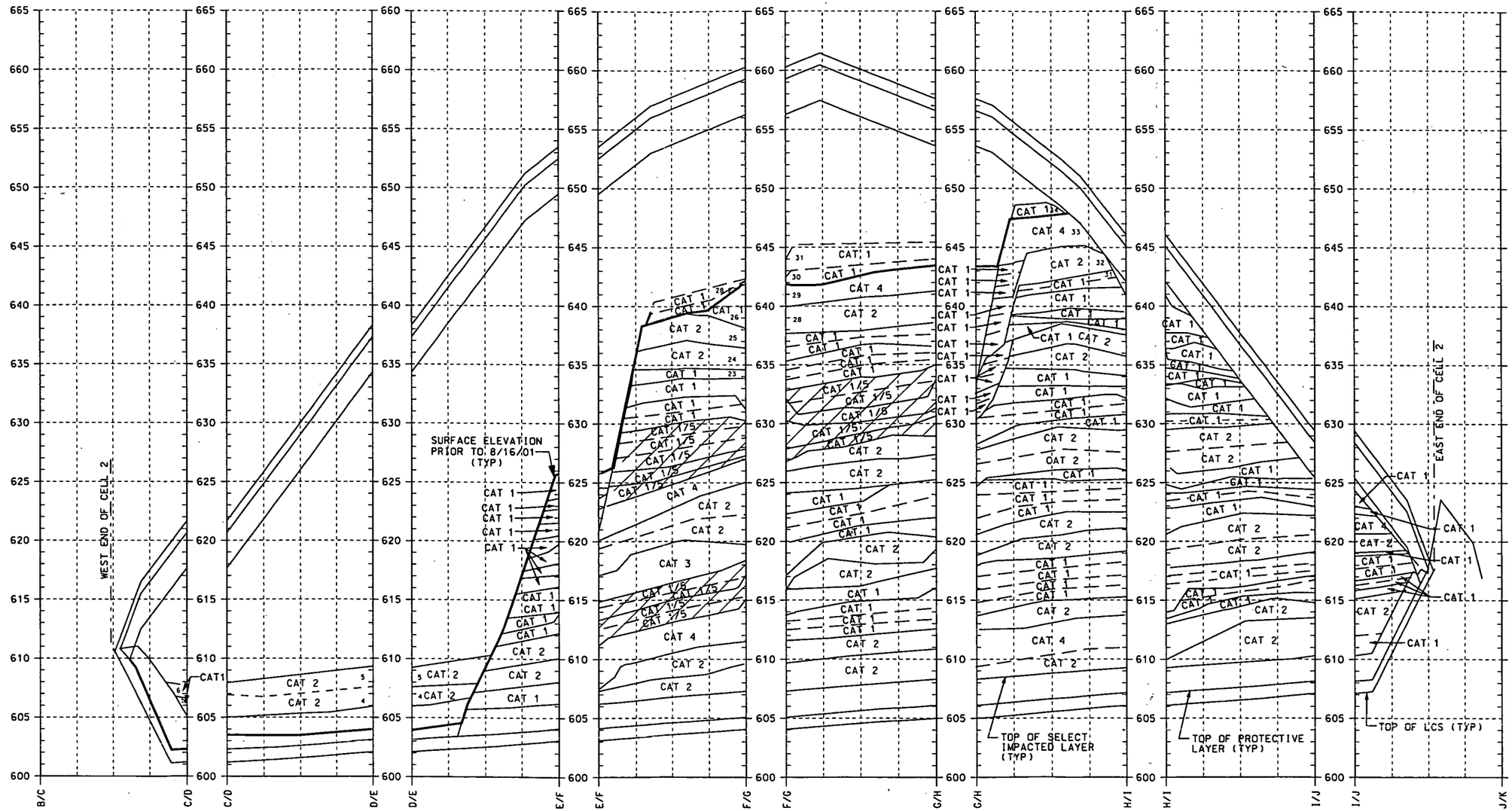
000026

G

sect01.dgn

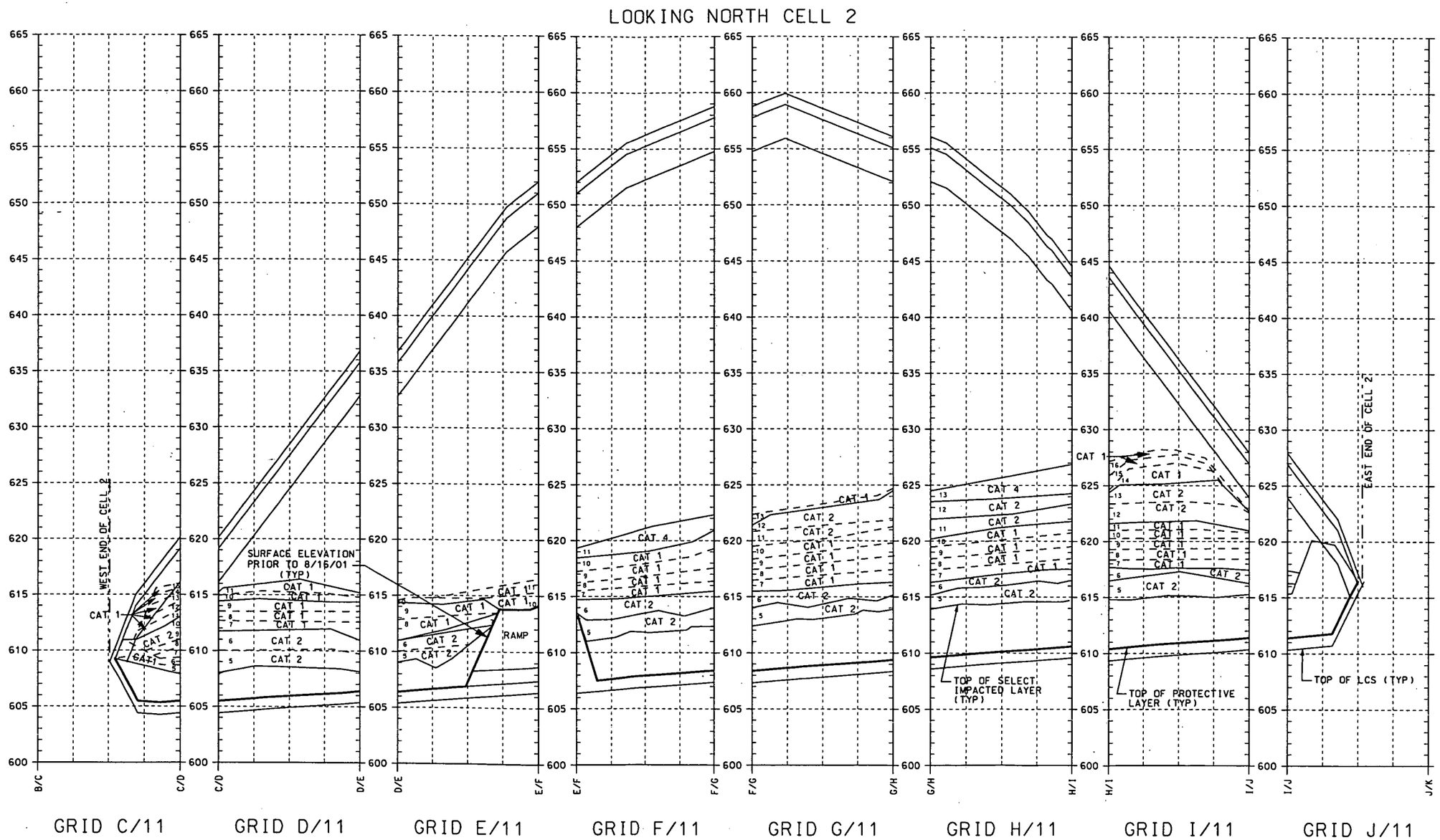
10/18/01

LOOKING NORTH CELL 2



REVISED 9/28/01 (9/28/01WK SURVEY)

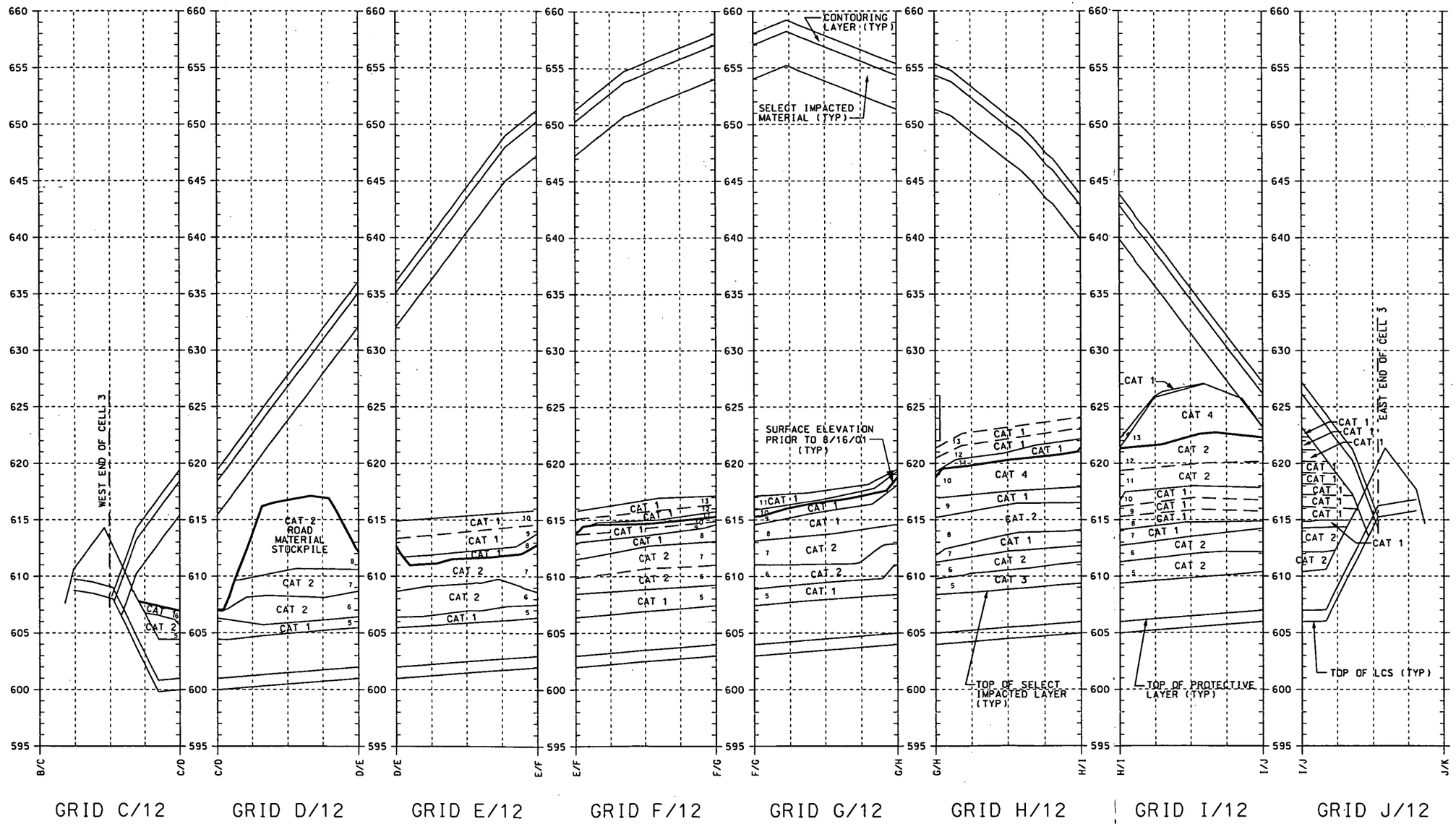
SECTION 9-9'



SECTION 11-11' (INTERCELL AREA)

REVISED 9/28/01 (9/28/01WK SURVEY)

LOOKING NORTH CELL 3



REVISED 9182/01 (9/28/01WK SURVEY)

SECTION 12-12'

000029

sect01.dgn

10/18/01