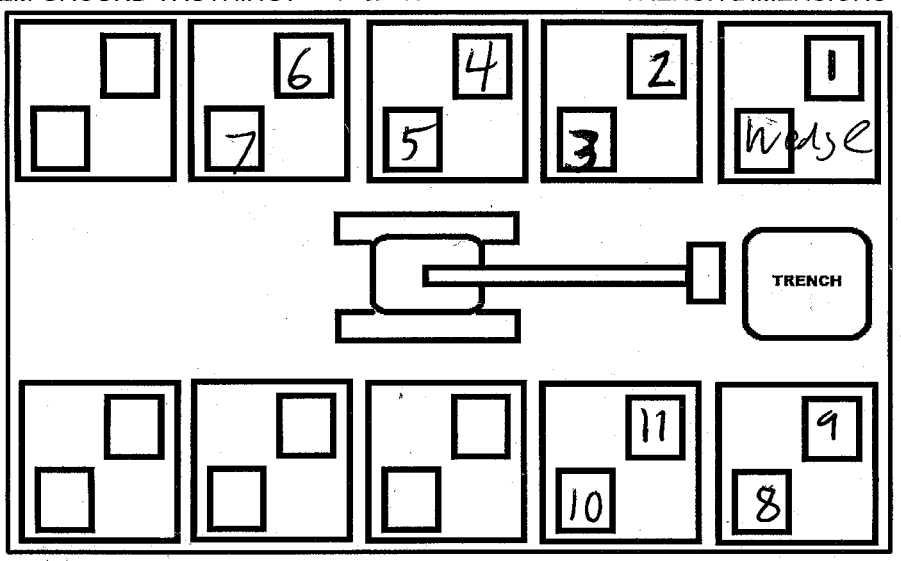
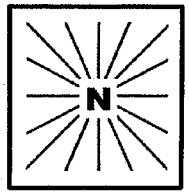
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 4+42
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 34
TOP OF TRENCH EL - 43.1 46.1 ce 45.5
ORIGINAL GROUND ELEV - 41.0 ALL CUT
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

wedge
off

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.5			Y → plate	
2	5.0				
3	~~5.0~~ 5.0				
4	4.5				
5	4.5				
6	~~3.5~~ 3.5	Y	Y		
7	~~3.5~~ 3.5	Y	Y		
8	3.0				
9	3.0	3.5 – 2.5			
10	2.5				
11	2.5				
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22		750 wedge	1500		
23		1500 3'	2000		
24		1500 2'	1600		
		1500 1'	1600		
		750 3"	700		

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:
~~Settlement Plate~~
Settlement Plate @ #1
Cut #1 → wedge

10x9

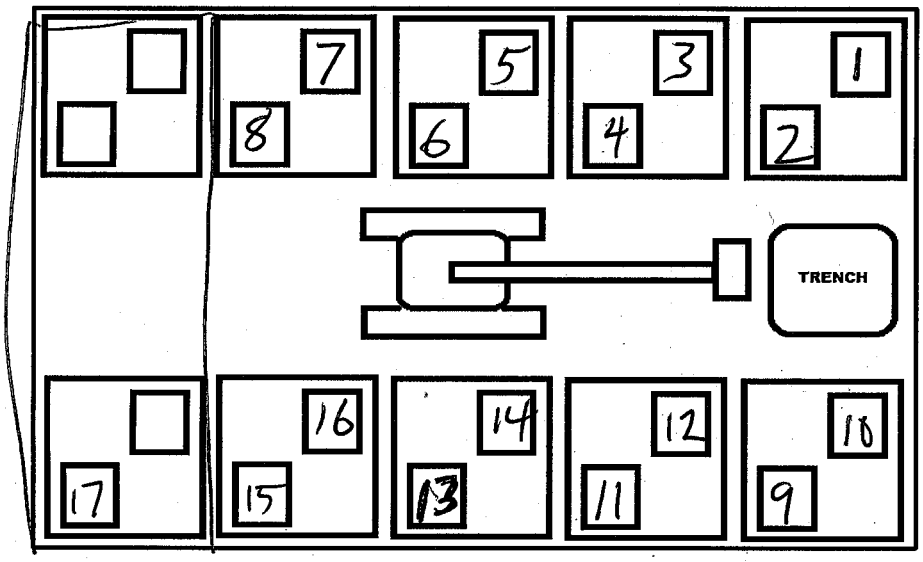
ATTACHMENT "A"

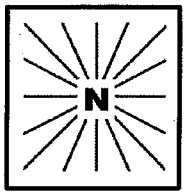
WBV 14C.2
TRENCHING FIELD LOG

N 506921.9
E 365 4918.8

CL STA - 9+80
START TIME -
END TIME -
WEATHER - Overcast, windy
DATE - 11-3-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - ES
TRENCH OFFSET FROM CL - 49
TOP OF TRENCH EL - +6.0
ORIGINAL GROUND ELEV - +2.0
TRENCH DEPTH - 5'
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	5.5				
	2	5.5				
	3	5.6				
	4	5.0				
1-2	5	4.5		✓		
	6	4.5	Y	Y		
	7	4.0	Y	Y		
	8	4.0				
2-3	9	3.5	Y	Y		
	10	3.5	Y	Y		
	11	3.0	Y			
	12	3.0	Y	Y		
3-4	13	2.5				
	14	2.5				
	15	2.0				
	16	2.0				
4-4.5	17	1.5				
	18	1.5				
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

River Birch old

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:

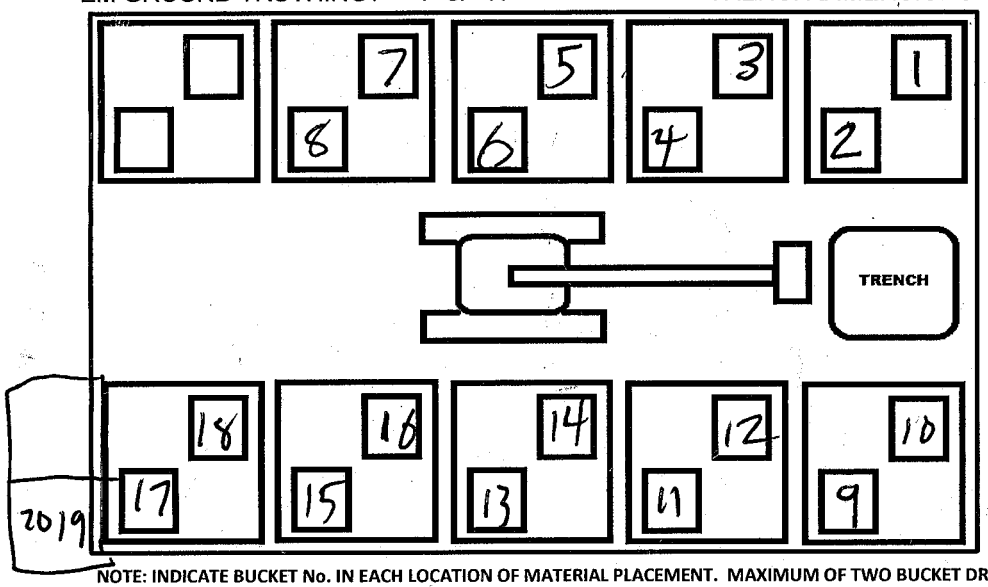
2800 2'
1700 1'
1500 3.5'
3' 3700
18" 2000
9" 1700
Bottom 1" 1750

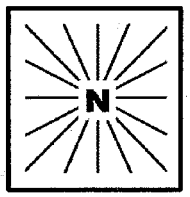
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 1+41
START TIME -
END TIME -
WEATHER -
DATE - 11-3-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - ~~42~~ 21'
TOP OF TRENCH EL - ~~20.0~~ +9.2
ORIGINAL GROUND ELEV - +2.0
TRENCH DEPTH - 5'
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1.1	1	8.7			Y	Metal
	2	8.7				
	3	8.1				
	4	8.1				
1-2.1	5	7.7	Y			
	6	7.7				
	7	7.1				
	8	7.1				
2.1-3.0	9	6.7				
	10	6.7				
	11	6.2	Y			
	12	6.2				
3-4	13	5.7				
	14	5.7				
	15	5.2				
	16	5.2				
4-5	17	4.7				
	18	4.7				
	19	4.2				
	20	4.2	Y			
	21					
	22					
	23			15004'	1300	
	24					

* See key sheet.

15003' 1600
16002' 1600
14001' 1400
21003" 2100
Bottom

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

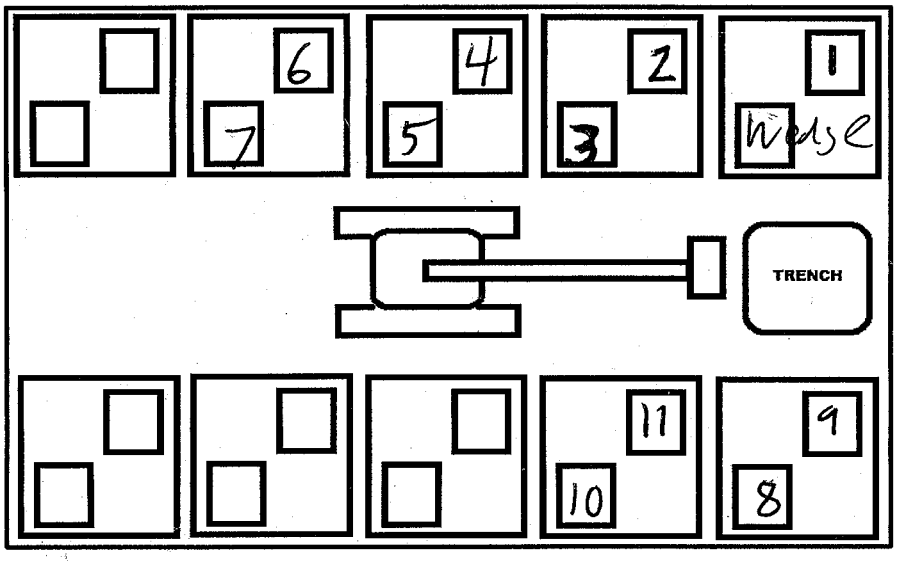
NOTES:

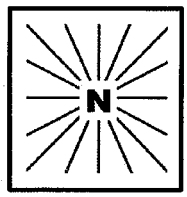
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 4+42
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 34
TOP OF TRENCH EL - ~~+7.1~~ +6.1 ce +5.5
ORIGINAL GROUND ELEV - +11.0 All CMT
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

wedge

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.5			Y → plate	
2	5.0				
3	~~[illegible]~~ 5.0				
4	4.5				
5	4.5				
6	~~[illegible]~~ 3.5	Y	Y		
7	~~[illegible]~~ 3.5	Y	Y		
8	3.0				
9	3.0				
10	2.5	3.5 – 2.5			
11	2.5				
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22		750 wedge	1500		
23		1500 3'	2000		
24		1500 2'	1600		
		1500 1'	1600		
		750 3"	700		
		Rotarm			

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:
~~Settlement Plate~~
Settlement Plate @ #1
Cut #1 → wedge

10x9

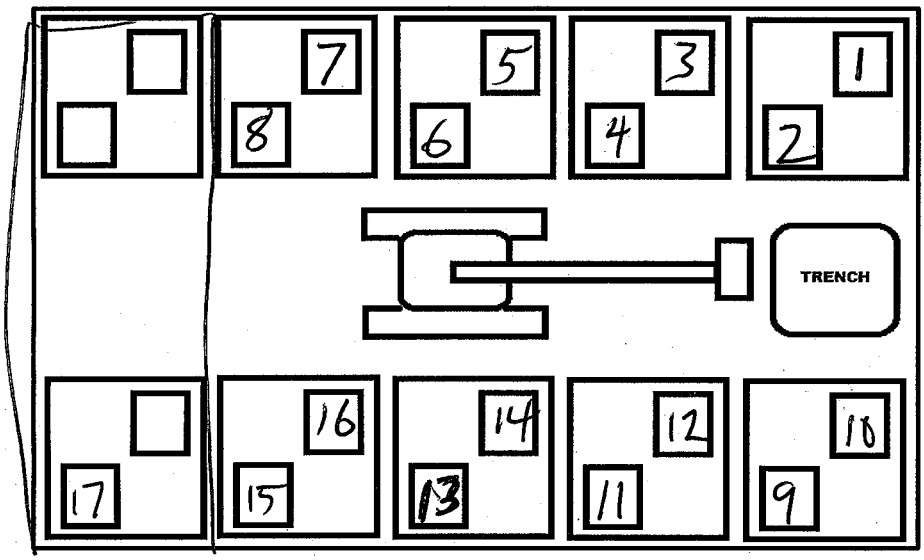
ATTACHMENT "A"

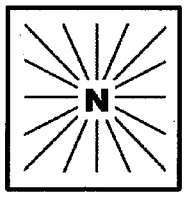
WBV 14C.2
TRENCHING FIELD LOG

N 506921.9
E 365 4918.8

CL STA - 9+80
START TIME -
END TIME -
WEATHER - Overcast, windy
DATE - 11-3-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - ES
TRENCH OFFSET FROM CL - 49
TOP OF TRENCH EL - +6.0
ORIGINAL GROUND ELEV - +2.0
TRENCH DEPTH - 8'
TRENCH DIMENSIONS -





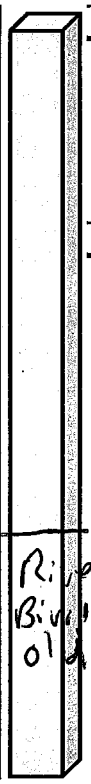
BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	5.5				
	2	5.5				
	3	5.0				
	4	5.0				
1-2	5	4.5		✓		
	6	4.5	Y	Y		
	7	4.0	Y	Y Y		
	8	4.0				
2-3	9	3.5	Y	Y		
	10	3.5	Y	Y		
	11	3.0	Y			
	12	3.0	Y	Y		
3-4	13	2.5				
	14	2.5				
	15	2.0				
	16	2.0				
4-4.5	17	1.5				
	18	1.7				
	19					
	20					
	21					
	22					
	23					
	24					



BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:

* See key sheet.

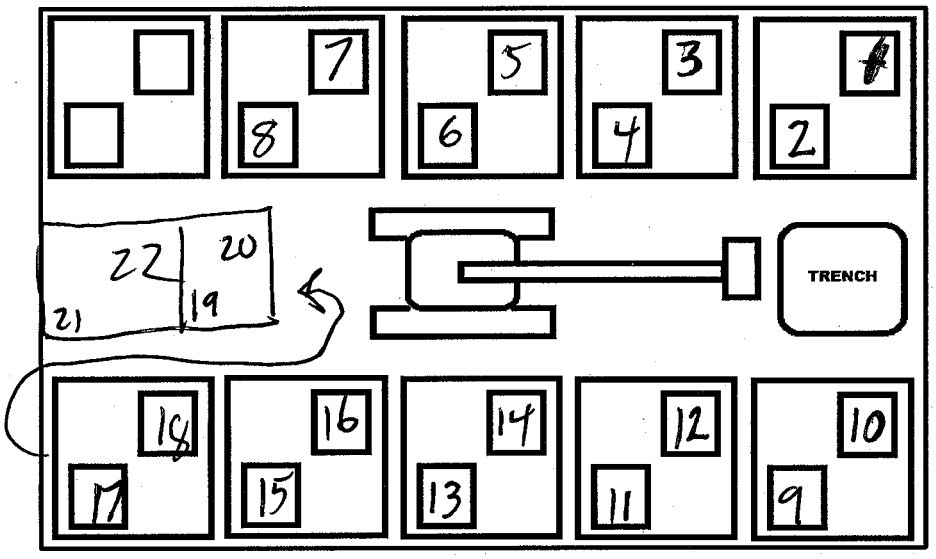
2800 2'
1700 1'
1500 3.5'' Bottom 1''
3' 3700
18'' 2000
9'' 1700
1750

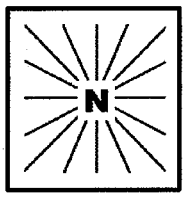
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 21+95
START TIME - 800
END TIME -
WEATHER -
DATE - 11-3-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.5
ORIGINAL GROUND ELEV - 74.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	13.0				
	2	13.0				
	3	12.5		Y		
	4	12.5				
	5	12.0	Y	Y		
1-2	6	12.0				
	7	11.5				
	8	11.5				
	9	11.0				
2-3	10	11.0				
	11	10.5				
	12	10.5				
	13	10		Y		
3-4	14	10				
	15	9.5				
	16	9.5				
	17	8.5				
4-5	18	8.5				
	19	8.0				
	20	8.0				
	21	7.5	Y	Y		
	22	7.5				
5-6	23					
	24					

WB
EX
RB

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:
2.5' h:1 lon

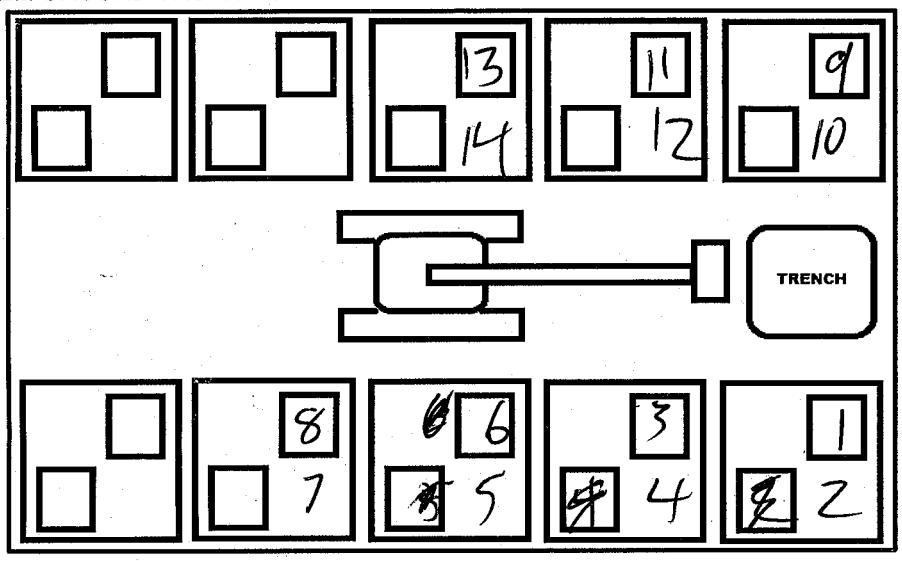
Get Merritt notes

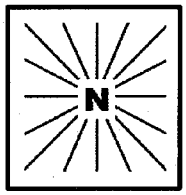
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 27+25
START TIME -
END TIME -
WEATHER -
DATE - 11-2-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - ES
TRENCH OFFSET FROM CL - 80
TOP OF TRENCH EL - 4.8
ORIGINAL GROUND ELEV - 0.8
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1					
2					
3					
4					
5	1-1.5				
6	1-1.5				
7	1.5-2.0		Y		
8	1.5-2.0				
9					
10	2-3				
11					
12					
13	3-4				
14					
15					
16					
17					
18					
19					
20					
21					
22			3.5'	1000	
23		7003'			
24		12502	3'	1200	

* See key sheet.

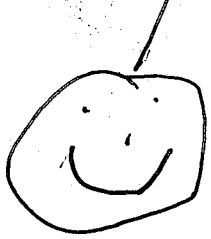
12502 3' 1200
23001' 2' 750
17006" 1' 1000
10003" 3" 600
Bottom

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

Wood obj @2'

NOTES:

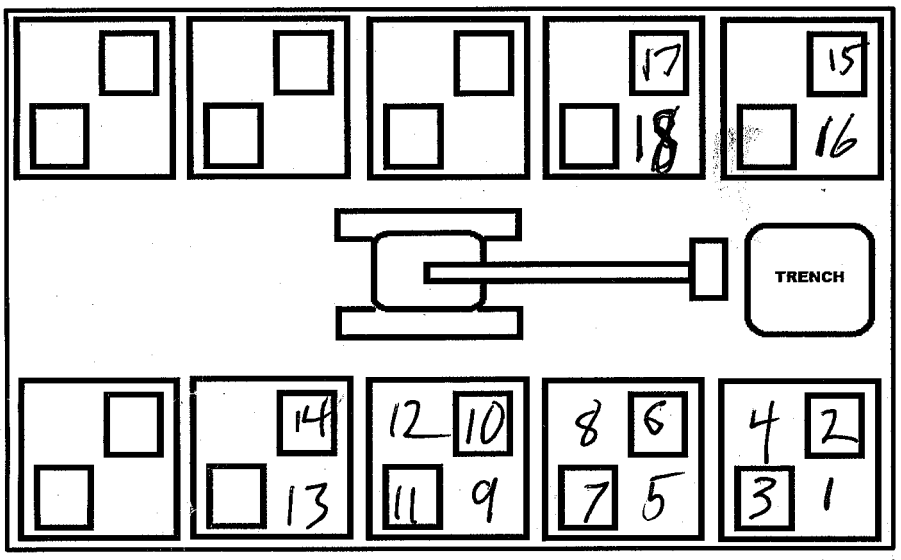


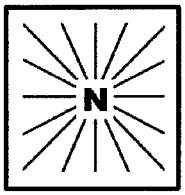
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - Approx 29+50
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - ES
TRENCH OFFSET FROM CL - 50
TOP OF TRENCH EL -
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
-1	1	0-0.5				
	2	0-0.5				
	3	0.5-1				
	4	0.5-1			Y	
1-2	5					
	6					
	7					
	8	1.5-2.0				
2-3	9	2.5				
	10	2.5				
	11	3.0				
	12	3.0				
3-4	13	3.5				
	14	3.5	Y			
	15	4.0				
	16	4.0				
	17					
4.5-5	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

1806 4.5 1800
1300 3.5 1000
1600 2.5 2500
2600 1.5 1100
3700 Bottom 19" 2100

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:
1+2 Brier
Concrete

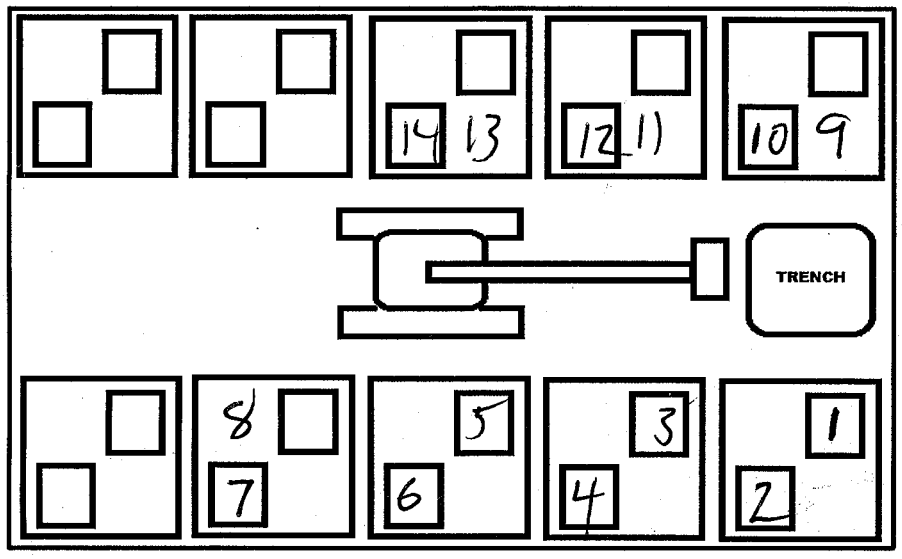
ATTACHMENT "A"

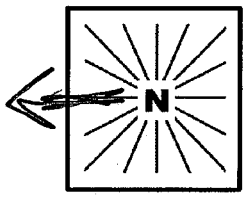
N 506429.82
E 365-7113.73

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 32+29
START TIME - 1:43
END TIME -
WEATHER -
DATE - 11-2-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 110
TOP OF TRENCH EL - + 4.2
ORIGINAL GROUND ELEV - + 0.9
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	3.8				
	2	3.8				
	3	3.2				
	4	3.2			River	
	5	2.7				
1-2	6	2.7			Birch	
	7	2.2				
	8	2.2				
	9	1.7				
2-3	10	1.7				
	11	1.2				
	12	1.2				
	13	0.7	Y	Y		
5	14	0.7				
	15	0.2				
	16	0.2				
	17					
	18					
	19	-0.8				
	20	-0.8				
	21					
	22					
	23					
	24					

Coarse Fill

Ou[illegible]

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:
B#1 - Dry
B#2 - Dry
B-3 Wet/moist

Wood logs bdl
Muckroll
@ 3.5'

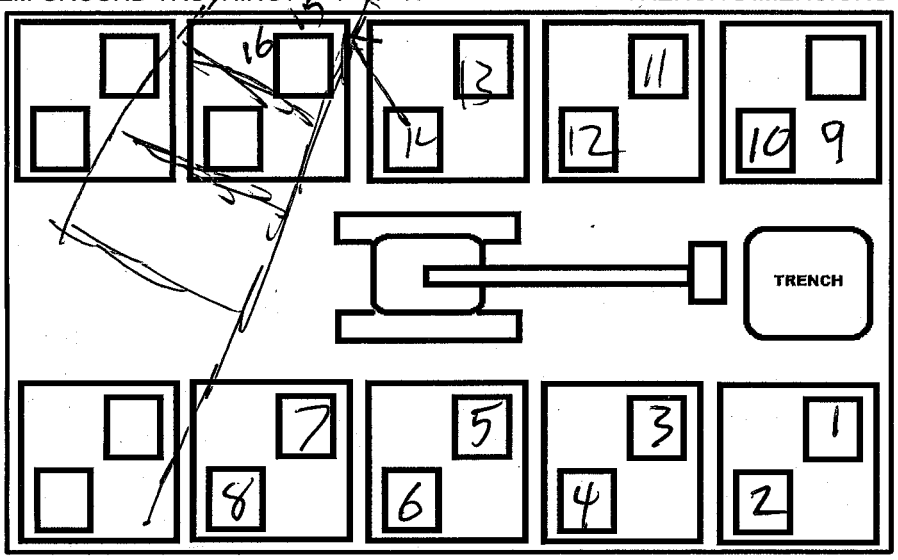
20	19	18	17	16	15

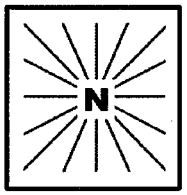
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 37+23
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - ~~FS~~ - CL - FS
TRENCH OFFSET FROM CL - 139
TOP OF TRENCH EL - 2.9
ORIGINAL GROUND ELEV - 0.4
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1-1	1	2.4				
	2	2.4				
	3	1.9				
	4	1.9				
	5	1.4		Y		
-2	6	1.4				
	7	0.9				
	8	0.9				
	9	0.4				
2-3	10	0.1				
	11	-	Y	Y	Y Concrete	
	12					
	13	-0.6				
3-4	14	-0.6				
	15	-1.1				
	16	-1.1				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

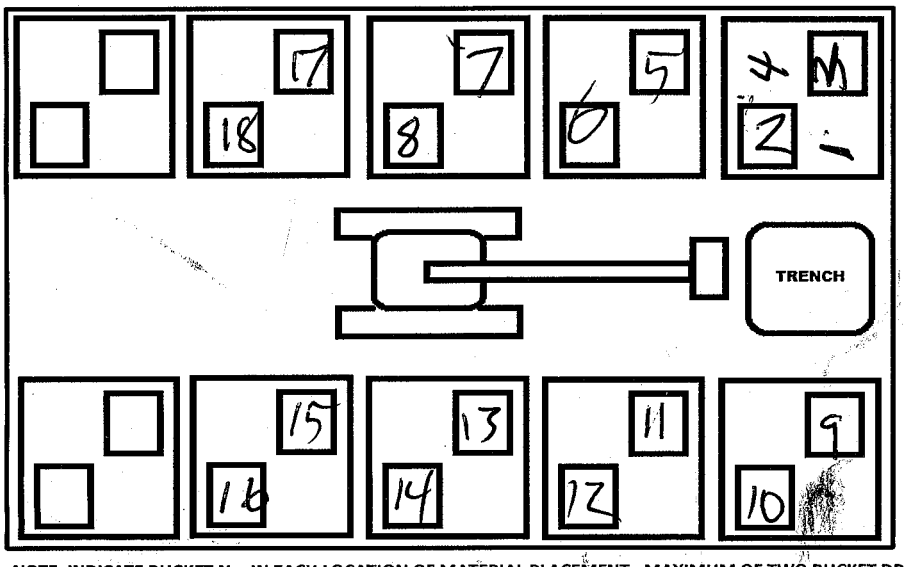
- All willow Bend Above Slab
- Roots showing original ground

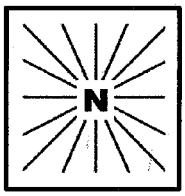
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 39+90
START TIME - 1015
END TIME -
WEATHER -
DATE - 11-2-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - ~~[illegible]~~ 120'
TOP OF TRENCH EL - 3.8
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	0-6" 1					
	0-6" 2					
	6-12" 3					
	6-12" 4					
0-1	5	2.8				
	6	2.8				
-2	7	2.3				
	8	2.3				
	9	1.8				
	10	1.8				
2-3	11	1.3				
	12	1.3	Y			
	13	0.8				
	14	0.8				
3-4	15	0.3				
	16	0.3				
	17	-0.2	Y			
	18	-0.2				
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

Medium Stiff

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES: Uncompacted Looks Good

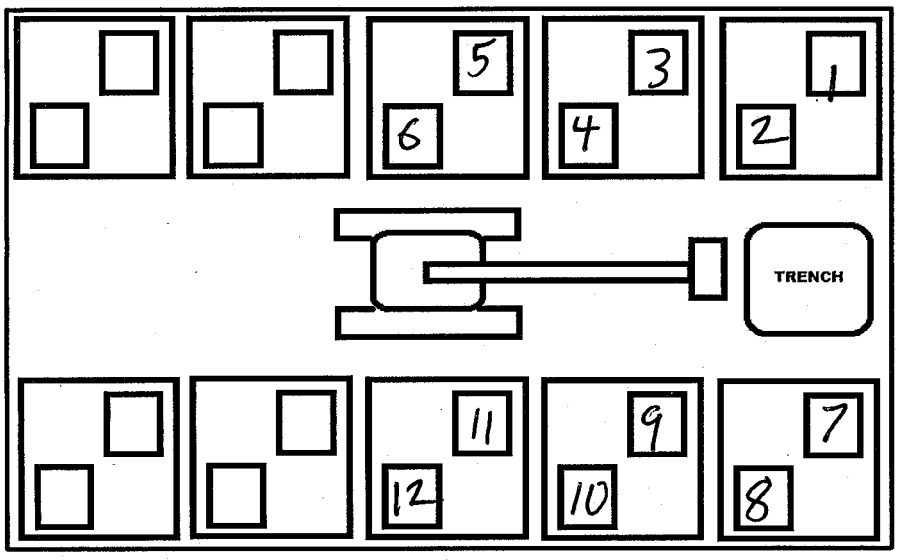
ATTACHMENT "A"

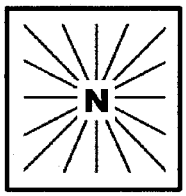
13	15	17	19
14	16	18	20

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 40+51
START TIME -
END TIME -
WEATHER -
DATE - 11-2-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS CL ES
TRENCH OFFSET FROM CL - 38
TOP OF TRENCH EL - 6.4
ORIGINAL GROUND ELEV -
TRENCH DEPTH - 5
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	5.9	Y			
	2	5.9				
	3	5.4				
	4	5.4	Y	Y		
-2	5	4.9				
	6	4.9				
	7	4.4		Y		
	8	4.4				
	9	3.9		Y		
-3	10	3.9				
	11	3.4	Y	Y		
	12	3.4		Y		
	13	2.7		Y		
-4	14	2.7		Y		
	15	2.4		Y		
	16	2.4	Y	Y		
-5	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Bucket #1 → 1 Large piece

ATTACHMENT "A"

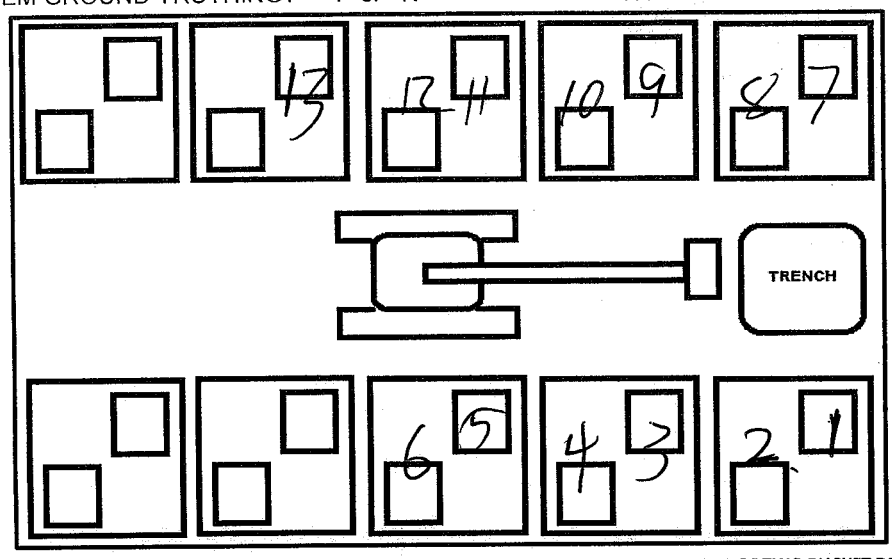
Anom #15

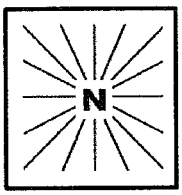
WBV 14C.2
TRENCHING FIELD LOG

N 505807.9
E 3660414.5

CL STA - 66+88
START TIME -
END TIME -
WEATHER -
DATE - 10-27-01
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 4.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	13.0				
	2	13.0				
1	3	12.5				
	4	12.5				
	5					
2	6					
	7	11.5				
	8	11.5				
	9					
2-3	10					
	11	10.5				
	12	10.5				
3-3.5	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:

ATTACHMENT "A"

2000

bottom 2700

bottom 2500+

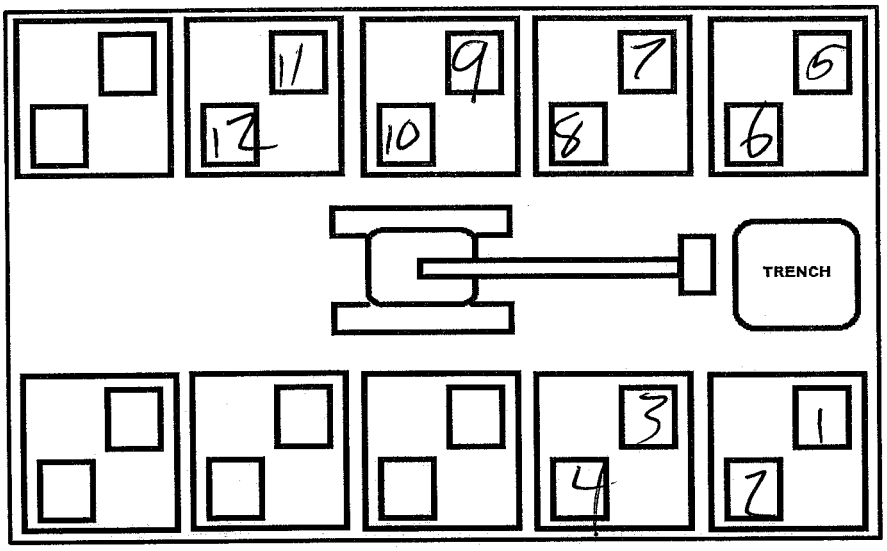
Anom. #16

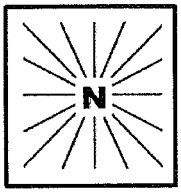
WBV 14C.2
TRENCHING FIELD LOG

N 505653.3
E 3660659.7

CL STA - 70+00
START TIME - 1604
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL FS
TRENCH OFFSET FROM CL - ~~40~~
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 5.0
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	12.5				
	2	12.5				
	3	12.0				
-2	4	12.0				
	5	11.5				
	6	11.5				
	7	11.0				
2-3	8	11.0				
	9	10.5				
	10	10.5				
3-35	11	10.0				
	12	10.0				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:

2200 10'10" X 10' 9"

2500 L.S

M/N & Bottom May

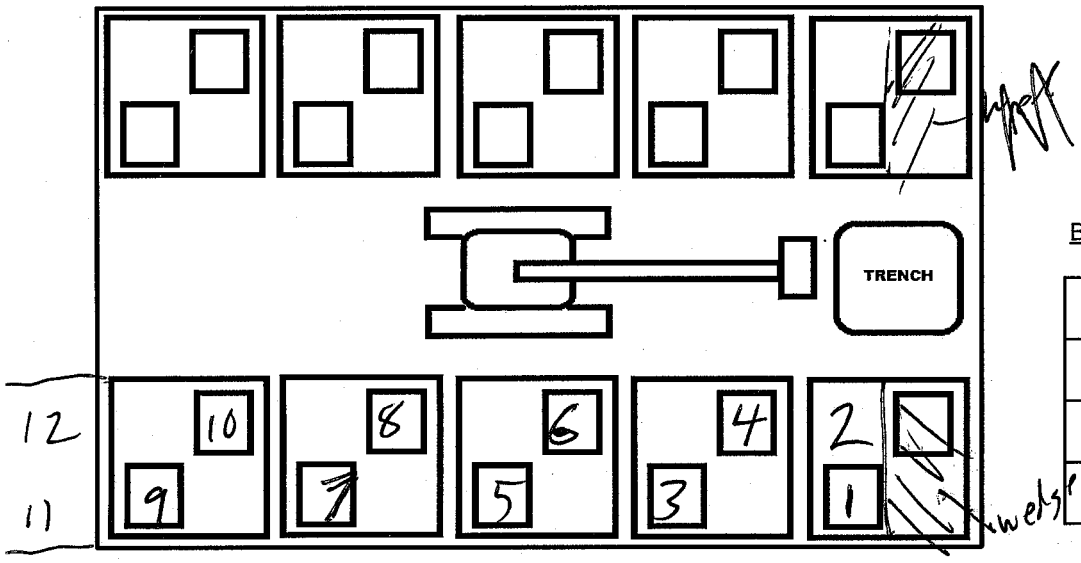
ATTACHMENT "A"

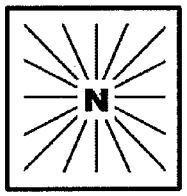
WBV 14C.2
TRENCHING FIELD LOG

71+39

CL STA - ~~71+39~~
START TIME -
END TIME -
WEATHER -
DATE - 11-4-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - ES - CL - FS
TRENCH OFFSET FROM CL - 36
TOP OF TRENCH EL - 5.7
ORIGINAL GROUND ELEV - 11.3
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

5.5

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.0				
2	5.0	Y			
3	4.5				
4	4.5				
5	4.0		Y		
6	4.0				
7	3.5				B.S
8	3.5		Y	Y Concrete	
9	3.0		Y	Y Concrete	
10	3.0				
11	2.5				
12	2.5	Y			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1-1
-2
-3

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

½ Football

NOTES:

2600 2' 2800
1700 1' 1500
1600 3" 1800
Bottom

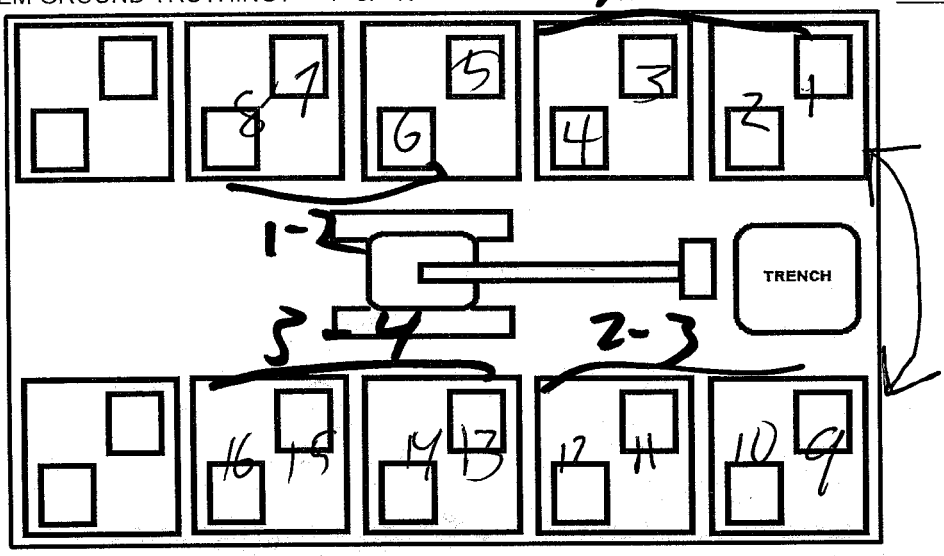
ATTACHMENT "A"

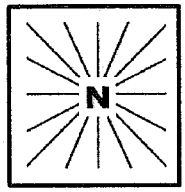
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 97+00
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.6
ORIGINAL GROUND ELEV - 4.6
TRENCH DEPTH - 8-5
TRENCH DIMENSIONS -

2 RB
6' WB





1.5 L Deep
WB

BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	1		N	N		
	2					
	3	12.5				
	4	12.5				
2	5					
	6				Y Brick	
	7	11.5	Y Small	N		
	8	11.5				
2-3	9	11.0	Y	Y	Big wood	
	10	11.0				
	11	10.5				
	12	10.5				
	13	10.0				
3-4	14	10.0				
	15	9.5	Y	Y		
	16	9.5	Y	Y		
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

10'7" x 9'9"

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

1.5 +4500
Bottom 1500
1980

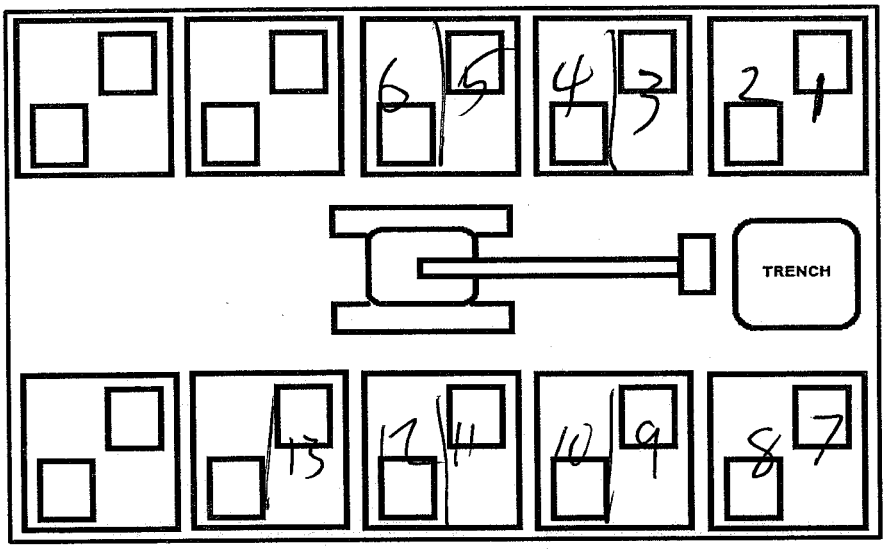
ATTACHMENT "A"

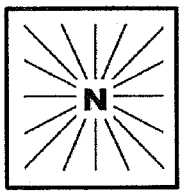
WBV 14C.2
TRENCHING FIELD LOG

Anomaly #19

CL STA - 104+51
START TIME -
END TIME -
WEATHER -
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - BS - CL - FS
TRENCH OFFSET FROM CL - 149'
TOP OF TRENCH EL - +2.5
ORIGINAL GROUND ELEV - -1
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1					
	2					
	3					
	4	1.5				
1-2	5					
	6					
	7					
	8	0.5				
2-3	9					
	10					
	11					
	12	-0.5	Y	Y		
3-4	13	-1.5	Y	Y		
	14	-1.5		Y		
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Shell @ bottom

2000 3'
1750 2'
1400 1'
800 (6') Bottom

4000
+4500 2500
1200

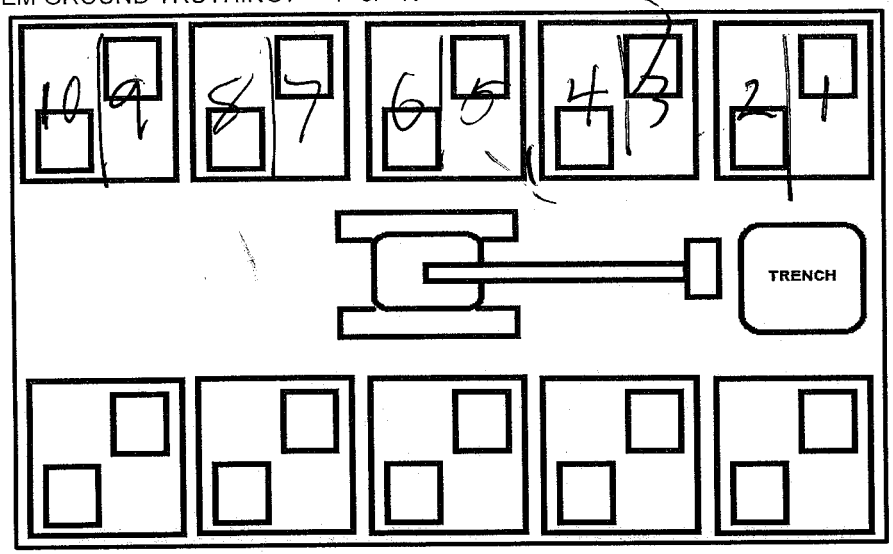
ATTACHMENT "A"

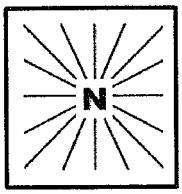
12 | 13 | 12 | 11

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 108+18
START TIME - 11:13
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - ~~PS~~ - CL - FS
TRENCH OFFSET FROM CL - 60
TOP OF TRENCH EL - 5.0
ORIGINAL GROUND ELEV - 7.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1	4.5	Y	Y		
	2	4.5				
	3	4.0		Y		
	4	4.0		Y		
	5					
1-2	6					
	7	2.7				
	8	2.7				
2-3	9	2.4				
	10	2.4				
	11	2.0				
	12	2.0				
3-3.5	13	1.5				
	14	1.6				
	15	~~[illegible]~~				
	16	~~[illegible]~~				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:
Big wood

1200
1250 ~~[illegible]~~
1000 Bottom PS

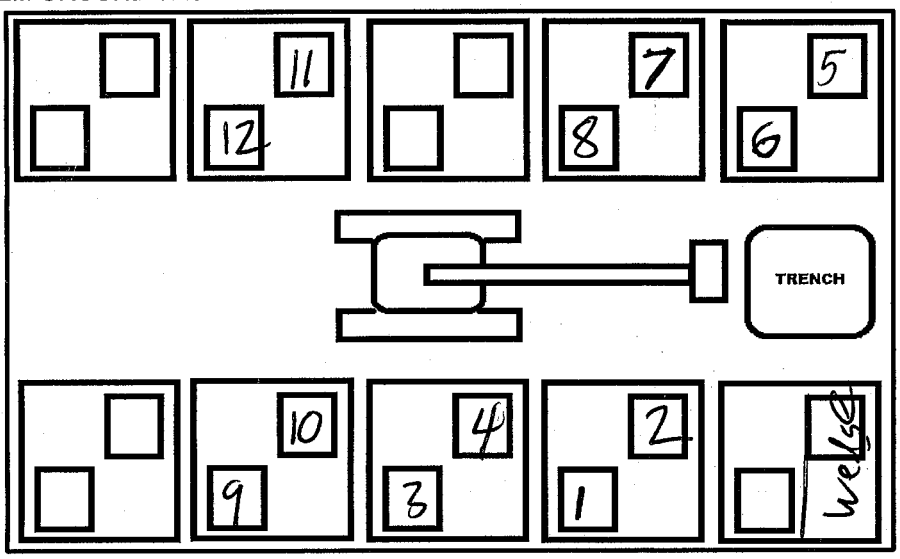
1300
1000
1600

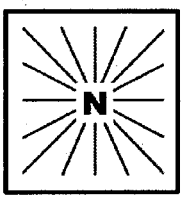
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 109+30
START TIME -
END TIME -
WEATHER -
DATE - 11-4-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 33
TOP OF TRENCH EL - 6.3
ORIGINAL GROUND ELEV - 11.3
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

5.7

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.0				
2	5.0				
3	4.5				
4	4.5				
5	4.0				
6	4.0				
7	3.5				
8	3.5				
9	3.0				
10	3.0				
11	2.5				
12	2.5				
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

-1
1-2
1-3
1-4

* See key sheet.

800 3' 1200
800 2' 1500
2200 1' 2100
2000 3" 1600
Bottom

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:
Very Clean
Below
Increase/1'

ATTACHMENT "A"

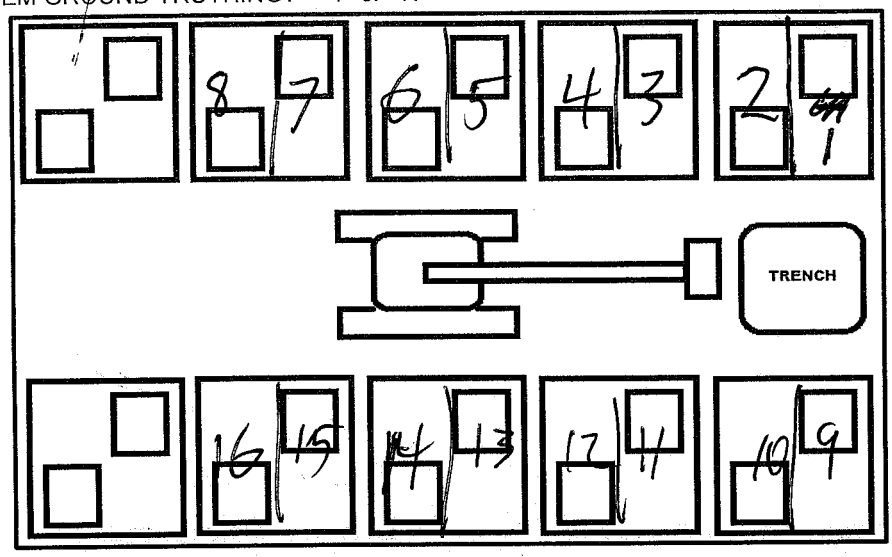
Anom 22

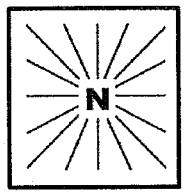
WBV 14C.2
TRENCHING FIELD LOG

N 501118.41
E 3660001.57

CL STA - 120+39
START TIME - 9:20
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - ~~PS~~ - CL - FS
TRENCH OFFSET FROM CL - 63'
TOP OF TRENCH EL - 6.5
ORIGINAL GROUND ELEV - 9.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

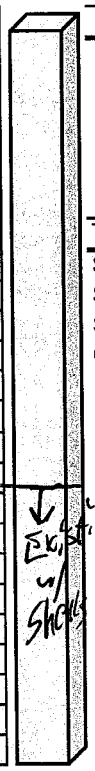
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1-1	1	6.0				
	2	6.0	Y	Y		
	3	5.5				
	4	5.5	Y	Y		
-2	5	5.0				
	6	5.0				
	7	4.5	Y	Y		
	8	4.5				
-3	9	4.0				
	10	4.0				
	11	3.5				
	12	3.5				
3-4	13	3.0	Y	Y		
	14	3.0				
	15	2.5				
	16	2.5				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.



Exist. w/ Shell

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:

10'8" x 9'7" 2' cut

* Wood below 4.0'

2.5 1100
1.5 1000
1 500
Bottom — 500/375/250/500 | 250

ATTACHMENT "A"

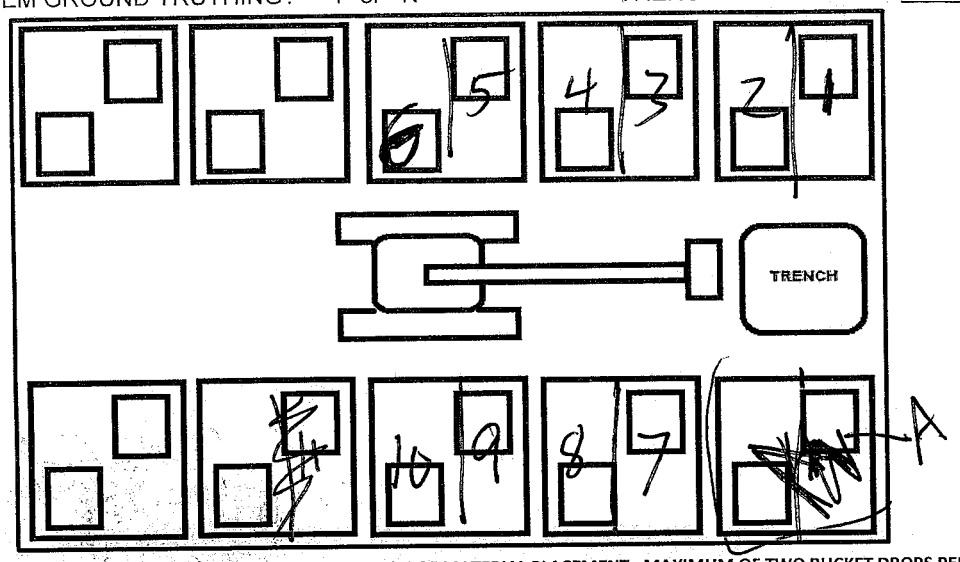
~~#8~~ #23/Arch

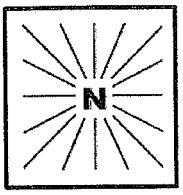
WBV 14C.2
TRENCHING FIELD LOG

N 501062.4
E 3660104.28

CL STA - 121+46
START TIME - 7:40
END TIME - 9:10
WEATHER -
DATE - 10-27-10
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - ~~RS~~ G - CL - FS
TRENCH OFFSET FROM CL - 15'
TOP OF TRENCH EL - 10.8
ORIGINAL GROUND ELEV - 8.0
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1		Y	Y		
2				Y	
3					
4	10.7/8.4				
5					
6					
7	9.7/7.4				
8	9.7/7.4				
9					
10					
11	8.8/6.1				
12	8.7/~~5~~				
13					
14					
15					
16	8.1/5.7				
17					
18					
19					
20					
21					
22					
23					
24					

1-2
2-7.5
5
3.0
3-3.5

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

Cut 2 → Hook

A → Combination
Top 18"
8.7" × 10.7" } → Cut Bottom

* See key sheet

11	12	13	14	

3-3.5

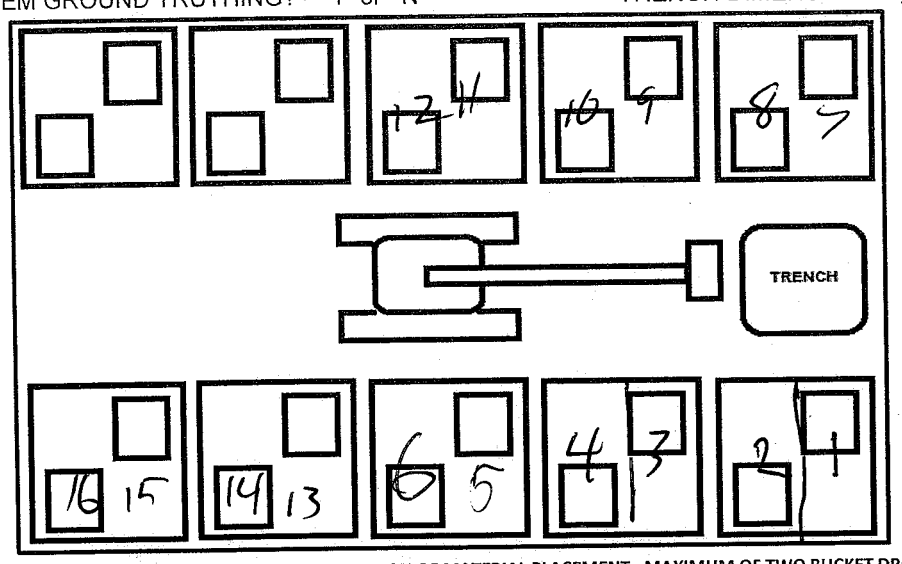
1300
1200
Bottom 800/600 2100

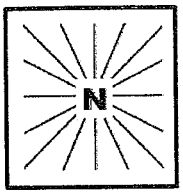
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - Sta. 136+07
START TIME - 15:23
END TIME -
WEATHER -
DATE - 10-26-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 5.8
TRENCH DEPTH - 4-5
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1'	1					
	2					
	3		Y			
	4	12.5				
	5					
2'	6					
	7					
	8	10.5		3600		
	9					
3	10					
	11					
	12	10.5				
	13					
4	14			1400 / 1200		
	15					
	16	9.5				
4.5'	17	8.5		1700		
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

1' 10 x 9½"

ATTACHMENT "A"

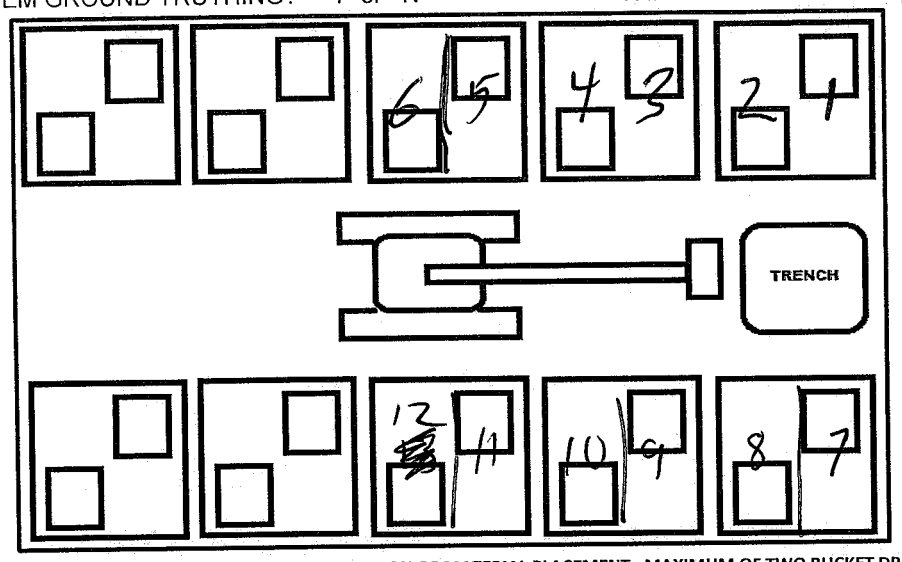
N 501016.0
E 3662107.602

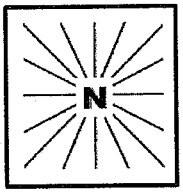
WBV 14C.2
TRENCHING FIELD LOG

13	14	15	

CL STA - 141 + 46
START TIME -
END TIME -
WEATHER -
DATE - 10-28-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - DS - CL - FS
TRENCH OFFSET FROM CL - 118
TOP OF TRENCH EL - 5.5
ORIGINAL GROUND ELEV - 2.8
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1			Y		
	2					
1-1	3	4.5				
	4	4.5				
	5	4.0				
-2	6	4.0	Y		1500	
	7	3.5				
	8	3.5				
	9	3.0				
2-3	10	3.0			3200	
	11	2.5				
	12	2.5				
	13	2.0				
3-4	14	2.0			1550	
	15	1.5				
	16	1.5				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

Existing

NOTES:

→ natural

1u5 X10
11 X10

ATTACHMENT "A"

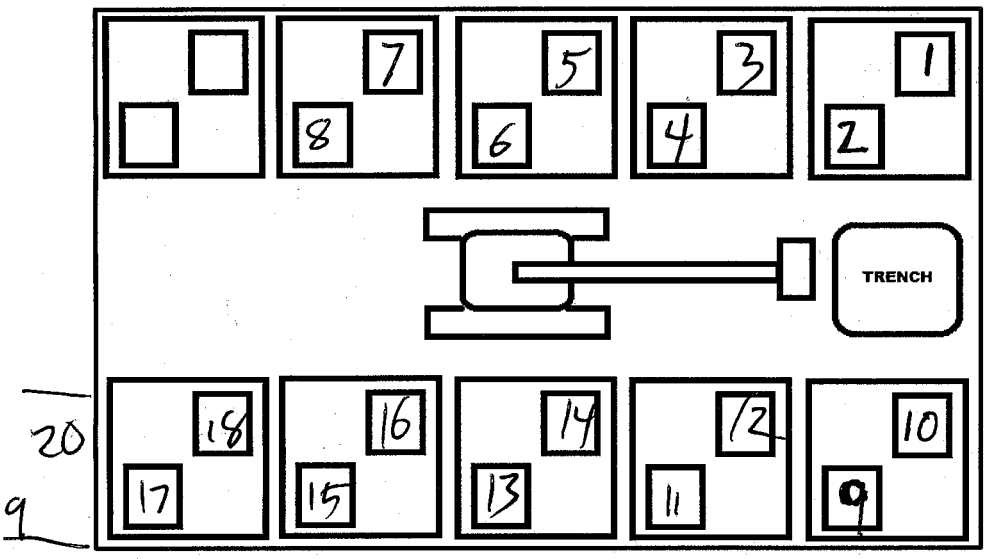
N 500798.0
E 3663398.0
154+50

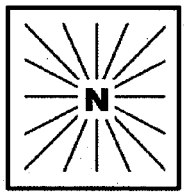
WBV 14C.2
TRENCHING FIELD LOG

12.9
11.6
10.5

CL STA - ~~[illegible]~~
START TIME - 1:45
END TIME -
WEATHER - Clear Sunny
DATE - 11-4-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - DS - CL - FS
TRENCH OFFSET FROM CL - 12'
TOP OF TRENCH EL - 11.6
ORIGINAL GROUND ELEV - 5.1
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1					
	2					
	3	10.5				
	4	10.5				
1-2	5	10.0		Y		
	6	10.0	Y	Y		
	7	9.5	Y			
	8	9.5	Y			
2-3	9	9.0	Y obstrctn	Y		
	10	9.0				
	11	8.5				
	12	8.5		Y		
3-4	13	8.0	Y	Y		
	14	8.0	Y	Y		
	15	7.5	Y			
	16	7.5	Y	Y		
4-5	17	7.0	Y			
	18	7.0	Y			
	19	6.5	Y			
	20	6.5	Y			
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:

2000 3' 1200
3000 2' 2800
2500 1' 1700
500,2300 600 3" 1900

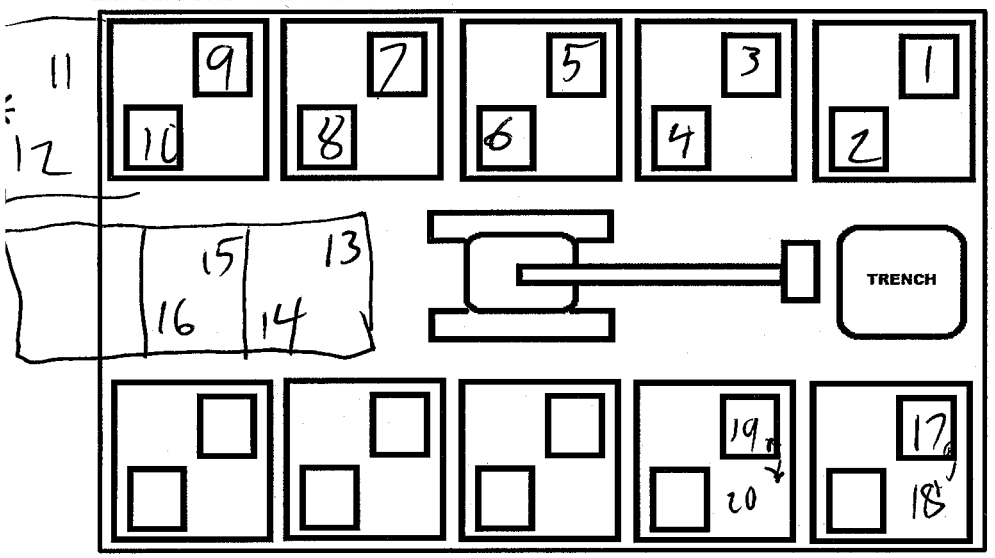
ATTACHMENT "A"

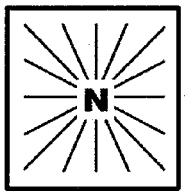
N500 757.1
E366 4196.3

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 162+50
START TIME -
END TIME -
WEATHER -
DATE - 11-4-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.6
ORIGINAL GROUND ELEV - 5.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	13.0				
	2	13.0				
3-1	3	12.5	Y	Y		
	4	12.5		Y		
	5	12.0				
1-2	6	12.0	Y			
	7	11.5				
	8	11.5				
2-3	9	11.0				
	10	11.0				
	11	10.5				
	12	10.5	Y	Y		
	13	10.0				
3-4	14	10.0				
	15	9.5				
	16	9.5				
	17	9.0				
4-5	18	9.0				
	19	8.5				
	20	8.5	Y	Y		
	21					
	22					
	23					
	24					

WB

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:

* See key sheet.

2100 3' 3000
1500 2' 2700
1600 1' 1100
2700 3" 1200

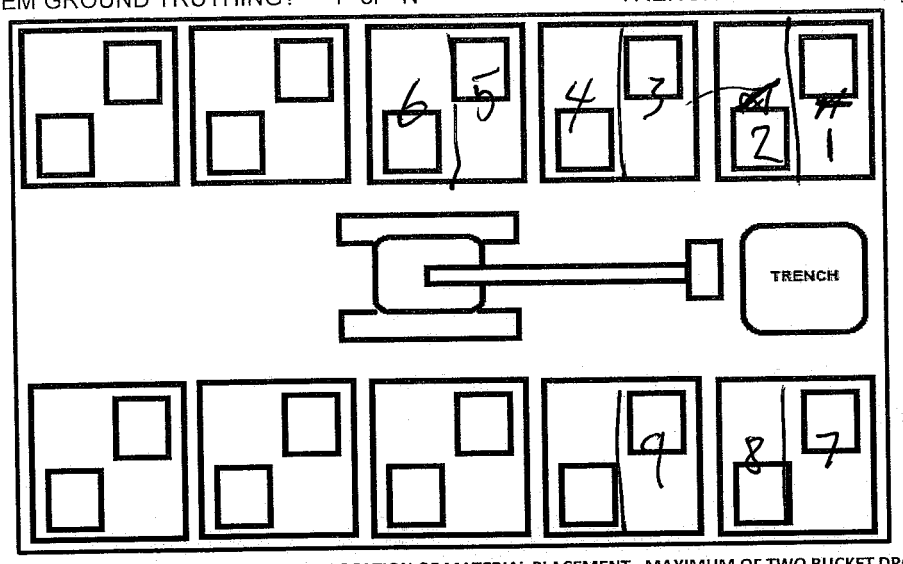
ATTACHMENT "A"

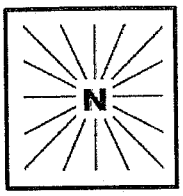
WBV 14C.2
TRENCHING FIELD LOG

CL STA - Sta 165+08 (P.S)
START TIME -
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 8.5
ORIGINAL GROUND ELEV - 12.1
TRENCH DEPTH - 2.5-5.0
TRENCH DIMENSIONS -

9.9 Top
7.8 Bottom





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1					
2					
3			Y		
4			Y		
5					
6					
7		Y	Y	Y	
8	7.9/5.8				
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1'
2
2-3

* See key sheet

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:
Concrete @ 5.8' EL in Existing

1' 1600
1460
Bottom

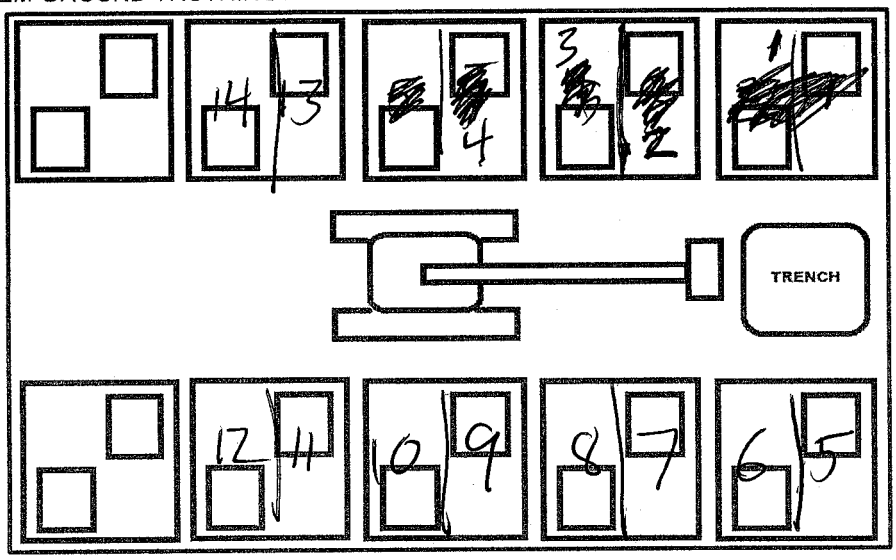
ATTACHMENT "A"

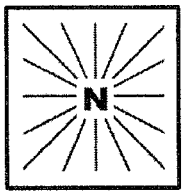
WBV 14C.2
TRENCHING FIELD LOG

Anm. 27

CL STA - 166+90
START TIME - 10:30
END TIME -
WEATHER -
DATE - 10-26-10
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1					
2					
3					
4	12.5'				
5					
6	11.5	Y	Y		
7					
8	11.0				
9					
10					
11					
12	9.5		Y		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1' 1' 2' 3' 3"

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:

10.5 x 9 → 92'

10'3" Bottom x 6' Bottom

Bottom 3'3" of 3' →

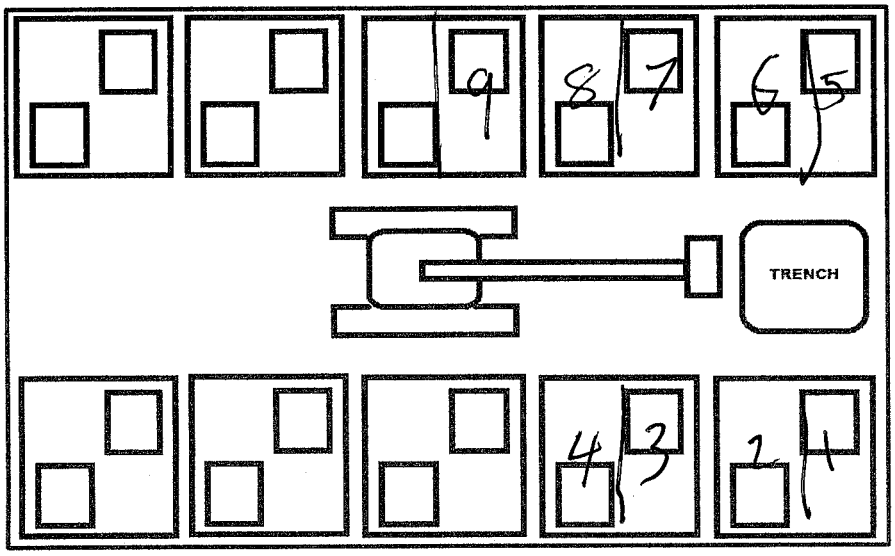
3500 2
1500 1.5
1000 1.
Bottom = 1000' 6'

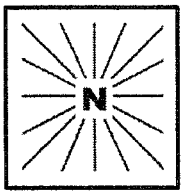
ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 172+00
START TIME - 9:00
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 7.2
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	1					
	2					
	3	6.2	Y	Y		
2	4		Y	Y		
	5					
	6	5				
	7					
3	8	4.5				
	9	4.0	Y	Y		
	10					
	11					
	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:

1' 8' x 9.75'

0-2 Mod fill
2-3 Existing

Final 10.5 x3
10.0

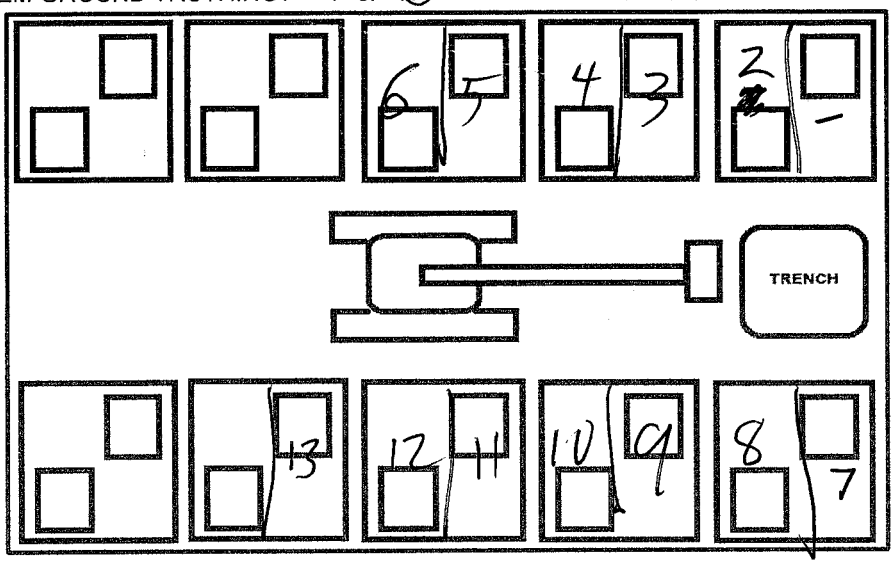
ATTACHMENT "A"

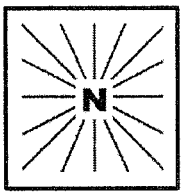
#29

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 174+00
START TIME - 14:50
END TIME -
WEATHER - 1
DATE - 10/25/2011
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.6
ORIGINAL GROUND ELEV -
TRENCH DEPTH - 4'
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1'	1					
	2					
	3		Y	→ V.ery small	Non-Obj	
	4	12.5	Y	Y		
	5		Y	Y	Y (small brick)	
2'	6		Y	Y		
	7					
	8	11.1				
	9			Y		
3'	10	10.6	Y	Y		
	11		Y	Y		
	12					
	13					
4'	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:
1 → 11.0'
2.5 → 11' x 10'

3000 1750
2200
1300
750 1750 800
PS 150 total

2300
1650
1500
PS

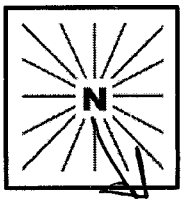
1.5' → Loosed/Less Clay

ATTACHMENT "A"

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 179+80
START TIME - 9:15
END TIME - 11:40
WEATHER - Sunny Clear
DATE - 10-25-11
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +136
ORIGINAL GROUND ELEV -
TRENCH DEPTH - 4
TRENCH DIMENSIONS - 10x10



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1st	Cut #1 1		N			
	Cut #2 2		1' N			
	Cut #3 3		N			
2nd	Cut #4 4	12.4	N			
	5 5			??		
3	6 6		Y			
	7 7					
4	8 8	11.6				
	9 9		Y	Y		
5	10 10			Y		
	11 11					
6	12 12	10.5				
	13 13		Y	Y		
7	14 14					
	15 15					
8	16 16	9.5				
	17 17					
	18 18					
	19 19					
	20 20					
	21 21					
	22 22					
	23 23					
	24 24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	Y or (N)

NOTES:
#1] 1' 10.5 X 11.5'
2' 11 X 11
3' 11 X 11

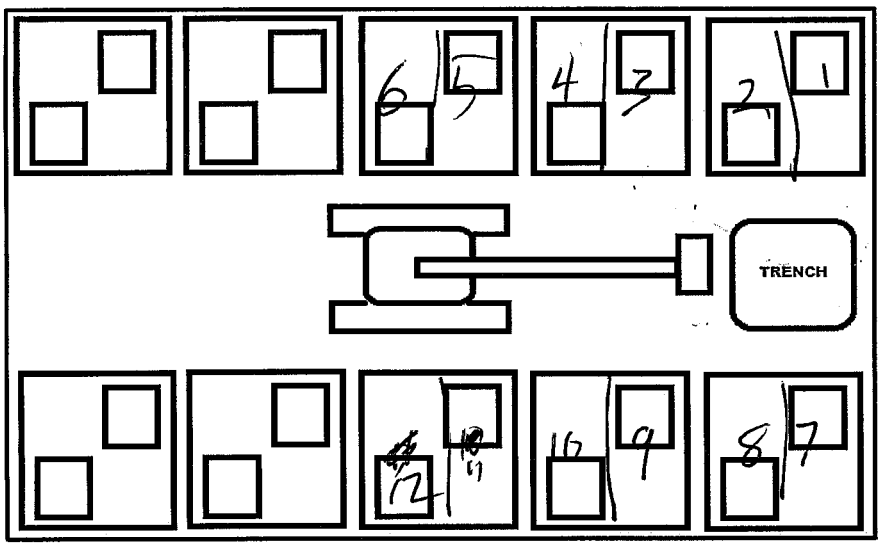
ATTACHMENT "A"

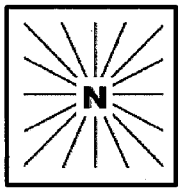
Total 1250

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 180+01
START TIME - 11:05
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 3.0
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1					
2					
3			Y		
4	2.0	Y	Y		
5		Y	Y		
6					
7					
8	1.0				
9					
10					
11					
12	0				
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1' 1 2 3
2' 4 5 6 7
3' 8 9 10 11 12

* See key sheet.

#7) → Soil not sticking on bottom or well
#8) →

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	N
SAND STRATAS	Y or	N
STABILITY CONCERN	Y or	N
GOOD COMPACTION	Y or	N

NOTES:

1' 10x11
2' 10.5x11
3 11x10

ATTACHMENT "A"

Conroy

"Inferred metallic anomaly"

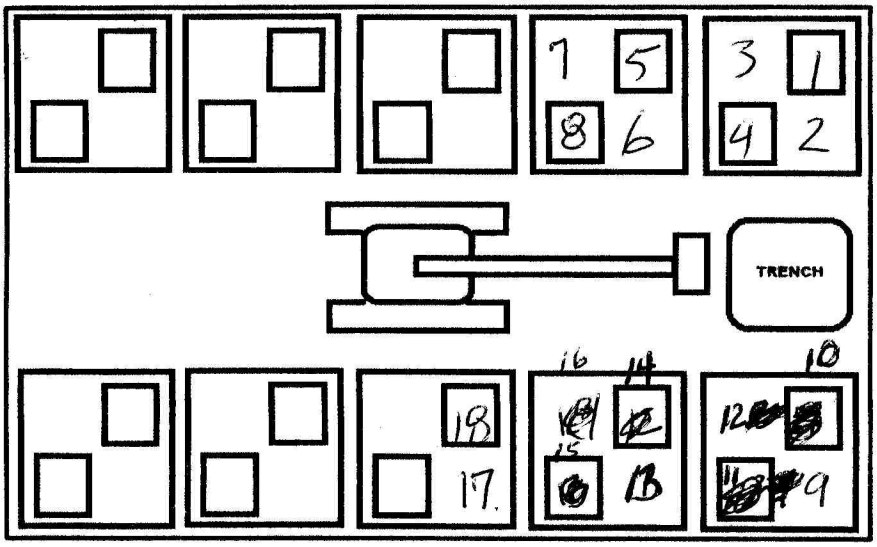
WBV 14C.2
TRENCHING FIELD LOG

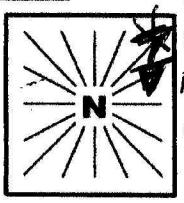
-13.5 WB
11.5 —
LD
10 —
RB
5
WB
W E

CL STA - 1+41
START TIME - 1705 (11/3)
END TIME - (0800 11/4)
WEATHER -
DATE - 11/3 - 11/4/2011
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 21'
TOP OF TRENCH EL - +9.2
ORIGINAL GROUND ELEV - +2
TRENCH DEPTH -
TRENCH DIMENSIONS -

1900 +49" 1900
1500 +36" 1600
1600 +24" 1600
1400 +12" 1400
+3" 2100





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION (center)	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0.5	1705 1	8.7			18 x 3 @	pipe
	2	8.7				
	3	8.1				
1.0	4	8.1				
	5	7.7	Y small	Y		
1.5	6	7.7				
	7	7.1				
2.1	8	7.1				All RB
	9	6.7				
2.5	10	6.7				
	11	6.2				
3.0	12	6.2				
	13	5.7	Y small	Y		
3.5	14	5.7				
	15	5.2				
4	16	5.2		Y		
	17	4.7				
4.5	1737 18	4.7		Y		
	19	4.2	Y small			
5.0	1542 20	4.2				WB
	21					stable
	22					
	23					
	24					

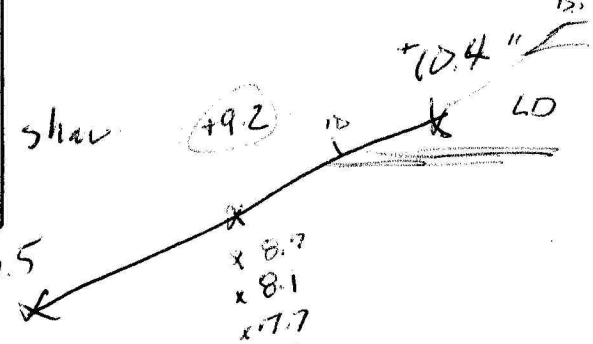
* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:



ATTACHMENT "A"

1

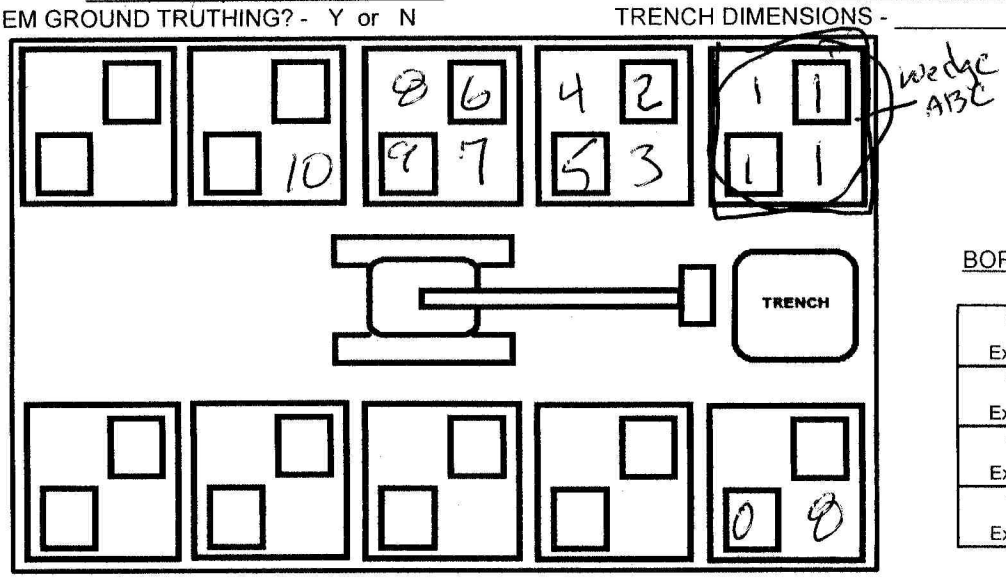
Conroy

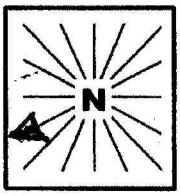
WBV 14C.2
TRENCHING FIELD LOG

N 507107.34
E 3654407.2

CL STA - 41+42
START TIME - 1512 11/3/11
END TIME -
WEATHER -
DATE - 11/3/12
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 34'
TOP OF TRENCH EL - +6.1
ORIGINAL GROUND ELEV - +11 ALL CUT
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
ele 5.5 1	All wedge ABC incl		settle plate @ +5.5 w/wood stakes		
2	5.0				
1515 3	5.0				
4	4.5				
1530 5	4.5				
6	3.5	Shells & decaying wood layer			
7	3.5	(3.5)			
8	3.0				
9	3.0				
10	2.5				
1600 11	2.5	well encapsulated rock			
12		organic? @ bottom			
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

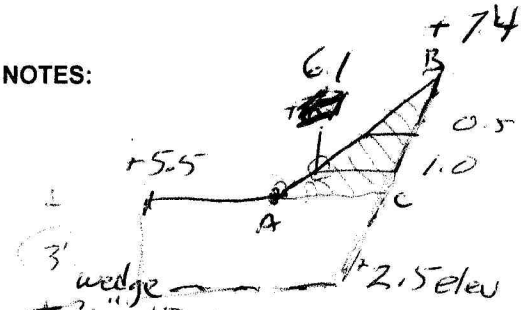
* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:



+36" 1500
+24" 1500
+12" 1500
+3" 750
+2.5

Settle plate wood stakes @ era 2001
decayed wood in bucket 6 era
Decayed and intact wood found?
Types, existing conditions, when ...

ATTACHMENT "A"

2

Conroy

Anan #4
TV #23

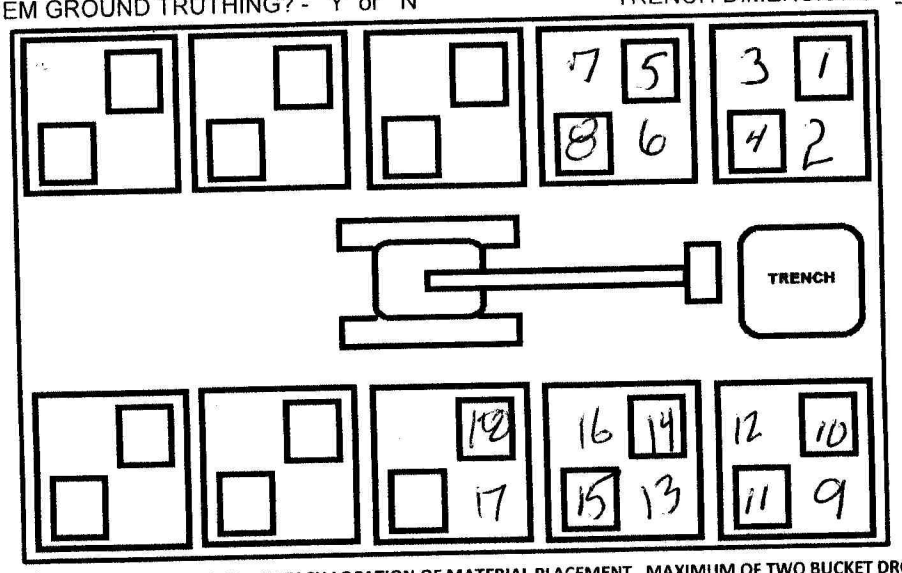
WBV 14C.2
TRENCHING FIELD LOG

N 506921.9
E 3654918.8

1/2 WB
1 RB
2' WBV14B.2

CL STA - 19+80
START TIME - 1330 11/3/11
END TIME -
WEATHER - Cloudy 50°!!
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 47
TOP OF TRENCH EL - +6.0
ORIGINAL GROUND ELEV - +2.0
TRENCH DEPTH - 5 plan
TRENCH DIMENSIONS -



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0.5	1	5.5				WB
	2	5.5				
	3	5				
1.0	4	5		Y		RB
	1337 5	4.5	Y	Y		
1.5	6	4.5	Y	Y		
2.0	1340 7	4				14B.2
	8	4				
	9	3.5		Y		
2.5	10	3.5	Y small	Y		
	11	3		Y		
3	12	3	Y small			
	13	2.5				
3.5	14	2.5	Y small	?		
	15	2				
4.0	16	2				
	17	1.5				
4.5	18	1.5				
	19					
	20					
	21					
	22					
	23					
	24					

soft gray clay
probably the
WBV14C.1 berm

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES: Pocket Pen

+36	3700
+18"	2000
~~+12"~~	1700
floor @ +2	1750

N 507109.3
E 3654100.2
coords for marker point

ATTACHMENT "A"

3

Conroy

WBV 14C.2
TRENCHING FIELD LOG

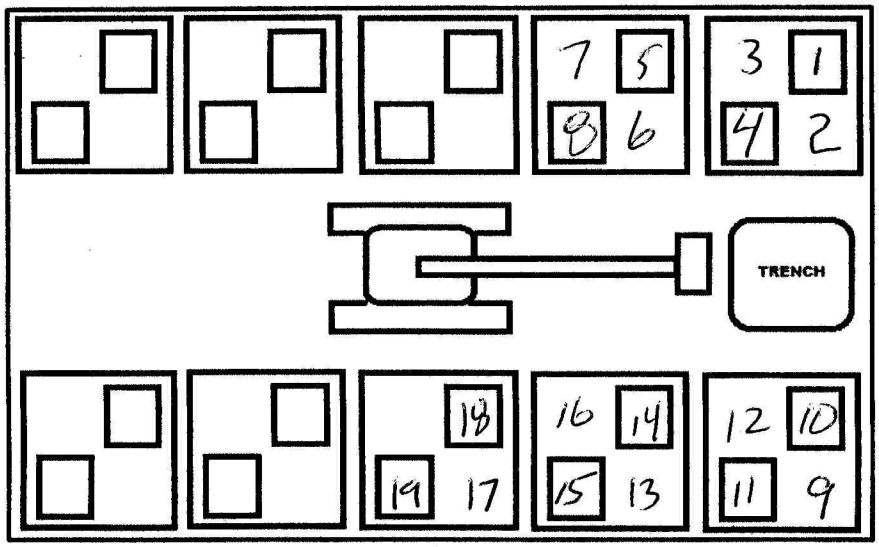
11/3/11

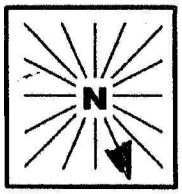
N 506736.9
E 3656120.5

CL STA - ~~22+00~~ 21+95
START TIME - 0800
END TIME -
WEATHER -
DATE - 11/3/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS (CL) FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.5
ORIGINAL GROUND ELEV - +4.6
TRENCH DEPTH -
TRENCH DIMENSIONS -

13.5
11.5 2 WB
1½ LD
~~10~~ 9.5 5' RB





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	13				WB
0.5'	2	13.0				
	3	12.5		Y		
1.0	0804 4	12.5				
	5	12	Y small	Y		
1.5	6	12				
	7	11.5				
2.0	8	11.5				WB
	9	11				LD
2.5	10	11				
	11	10.5	Y small	Y	small shell	b
3	12	10.5			"	
	13	10		Y	"	
3.5	14	10		Y	"	
	15	9.5		Y		
4.0	16	9.5				LD
	17	8.5				
5	18	8.5				
	19	8				RB
5.5	20	8		Y		
	21	7.5				
6.0	22	7.5		Y		
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

A 8"-10" ~~rock~~ concrete piece uncovered from levee degrade.

ATTACHMENT "A"

4

Conroy

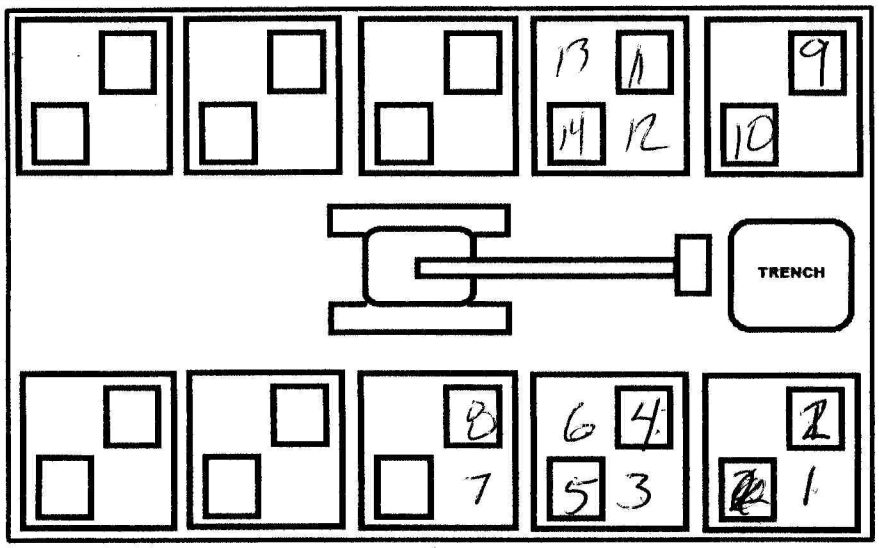
ww4-bulk

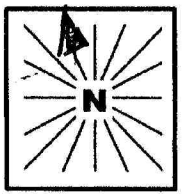
Anomolie #6

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 127+25
START TIME - 4:28 11/2/11
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 80'
TOP OF TRENCH EL - 4.8 (est)
ORIGINAL GROUND ELEV - +0.8
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1					
0.5	2					
	3					
1.0	4					
	5					
1.5	6					
	7			Y		
2.0	8		Y ≥12"+	Y (Small)		
	9					
2.5	10					
	11					
3.0	12					
	13		Y small	Y		
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

ATTACHMENT "A"

5

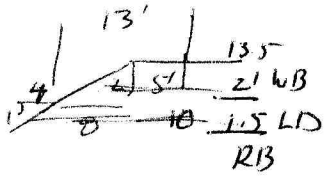
Conroy

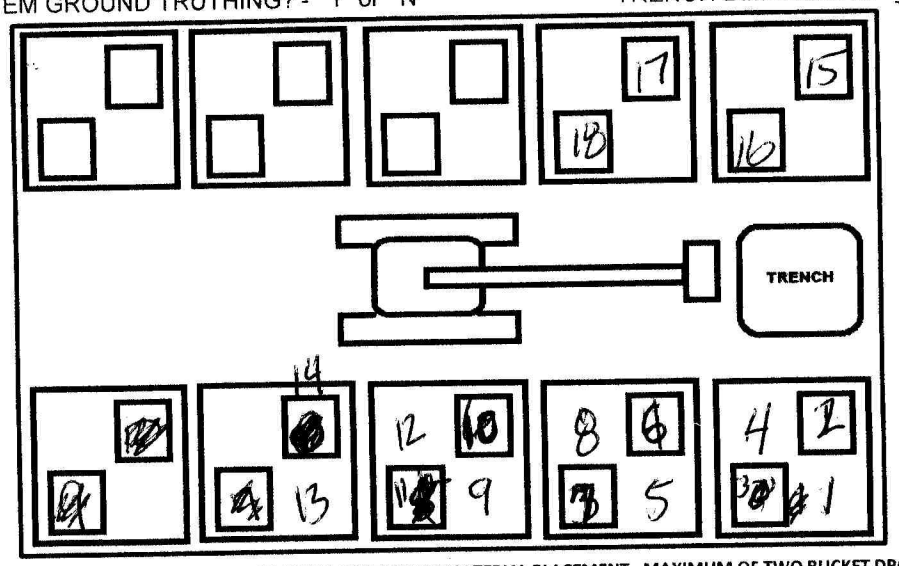
WS-B

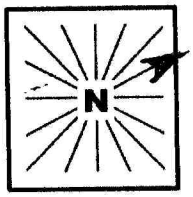
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 29+50
START TIME - 3:15pm 11/2/11
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 13'
TOP OF TRENCH EL - 11.5
ORIGINAL GROUND ELEV - 3.4
TRENCH DEPTH -
TRENCH DIMENSIONS -







BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

COT

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	3:15 1				Willow Bend	
0.5	2					-Lt Brn
	3					Gray
1.0	4					-10"-12"
	5					brick
1.5	6				levee	
	7				Debris	
2	8					
	9					
2.5	10					
	11					
3.0	12					
	13					
3.5	3:33 14	18"	Small			
	15		Y	Y		
4.5	16					
	17		Y			
5.0	18		Y			
	19					
	20					
	21					
	22					
	23					
	24					

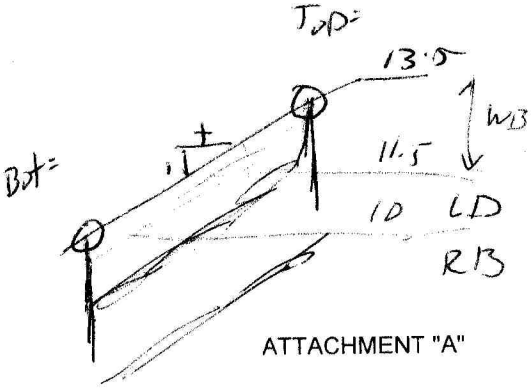
* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:



ATTACHMENT "A"

6

Conroy

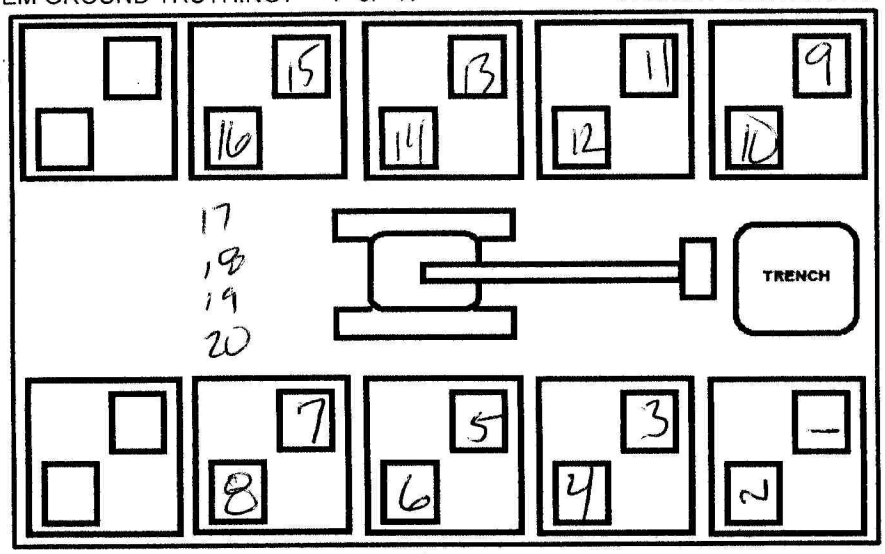
Anacola #8

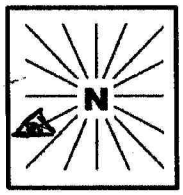
WBV 14C.2
TRENCHING FIELD LOG

N 506429.8
E 3657113.7

CL STA - 32+29
START TIME - 1:48 11/2/11
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 110'
TOP OF TRENCH EL - 4.2
ORIGINAL GROUND ELEV - 0.9
TRENCH DEPTH - 4-5' (planned)
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	3.7				Dry
0.5	2	3.7				Dry
	3	3.2		Y	Compacted	
1.0	4	3.2	Y small	Y	Compacted	
	5	2.7	Y small	Y		
1.5	6	2.7	Y	Y		
	7	2.2				
2.0	8	2.2			Compacted	
	9	1.7				
2.5	10	1.7				
	11	1.2			Un Compacted	
3.0	12	1.2				
	13	0.7	Y bigger	Y }	Roots	
3.5	14	0.7	Y	} Existing Ground		
	15	0.2			Roots	
4	16	0.2			Roots	
	17	-0.3	water		Roots	Terra Cotta Pipe
4.5	18	-0.3	water			
	19	-0.8			wooden timbers	
5	20	-0.8	gravel			
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Debris

ATTACHMENT "A"

Conroy

WBV 14C.2
TRENCHING FIELD LOG

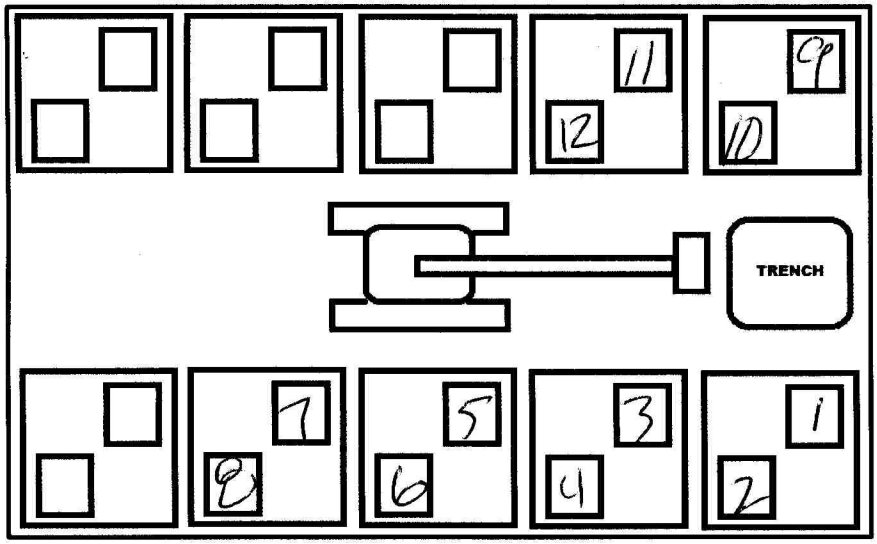
Anomaly #9

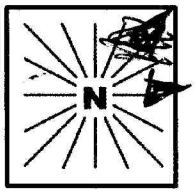
N 506580.7
E 3657646.8

CL STA - 37+23
START TIME - 1135 11/2/11
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 139'
TOP OF TRENCH EL - +2.9
ORIGINAL GROUND ELEV - +0.4
TRENCH DEPTH - 3.5'
TRENCH DIMENSIONS -

All willow Bed above the debris.





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0.5	1	2.4				
	2	2.4				
	3	1.9	Y small			
	1.0 4	1.9	Y			
1.45	5	1.84				
1.45	6	1.84				
	7	0.9	Y small			
2.0	8	0.9	Y small			
	9	0.4				
2.5	11:49 10	0.4				
	11	-0.1			Hit debris Hard Pan	
3.0	12	-0.1	Debris field			
	13	-0.6				
3.5	14	-0.6				
	15	-1.1		Grinding, ripping sounds		
4.0	16	-1.1				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

Willow Bend

Terminate. ACR warns beginning to get out of scale

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Old tire, concrete slab, metal, water, timber, plastic shoe, wire

Letter from State(?) addressing concrete slabs?

ATTACHMENT "A"

Conroy

WW-7

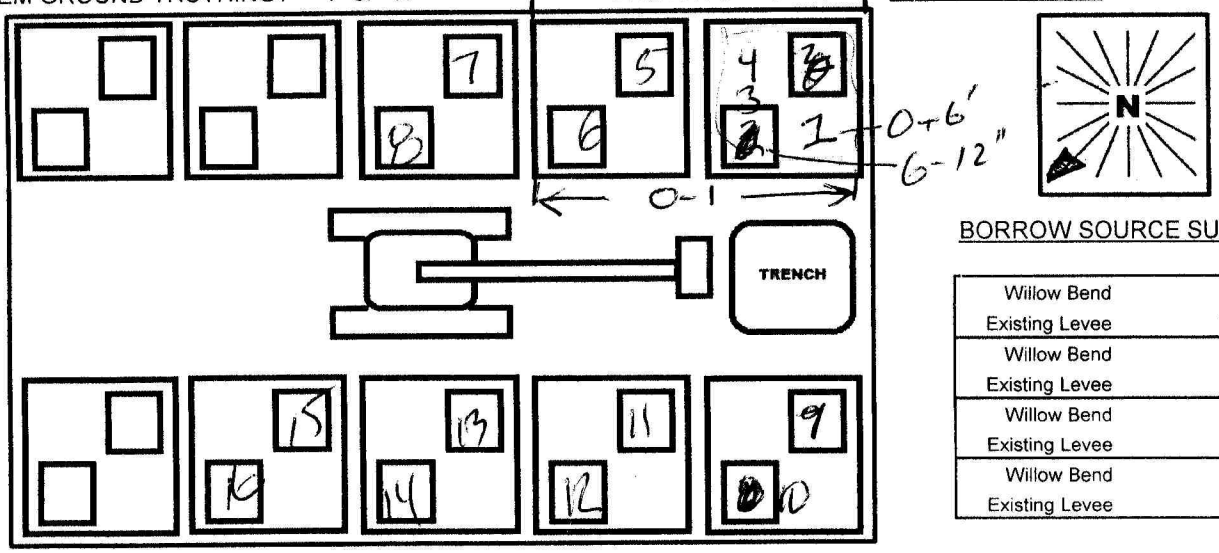
WBV 14C.2
TRENCHING FIELD LOG

3.8
-4.0
.2

CL STA - 139+90
START TIME -
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 110'
TOP OF TRENCH EL - +3.8
ORIGINAL GROUND ELEV - -0.4
TRENCH DEPTH -
TRENCH DIMENSIONS -

3.8
-4.0
-0.2



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1'	10:15 1					
	2	2.8	N	N		
	3		N	N		
	4		N	N		
	5		N	N		
	10:20 6	2.8	N	N		
1.5	10:22 7	2.3	N	N		Gray, Unsorted
	8	2.3	N			
	9	1.8				
2.0	10	1.8	Sound of soft			
	11	1.2	Clay breaking			
2.5	12	1.2				
3.0	13	0.8	Sounds of soft clay			
	14	0.8				
	15	0.3				
3.5	16	0.3				
	17	-0.02				
4.0	10:55 18	-0.02				
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

- NO anomaly encountered
- pocket pen in daily 500 psf all around

only 1-2 day of open trench then batts failed

ATTACHMENT "A"

9

Conroy
11/2/11

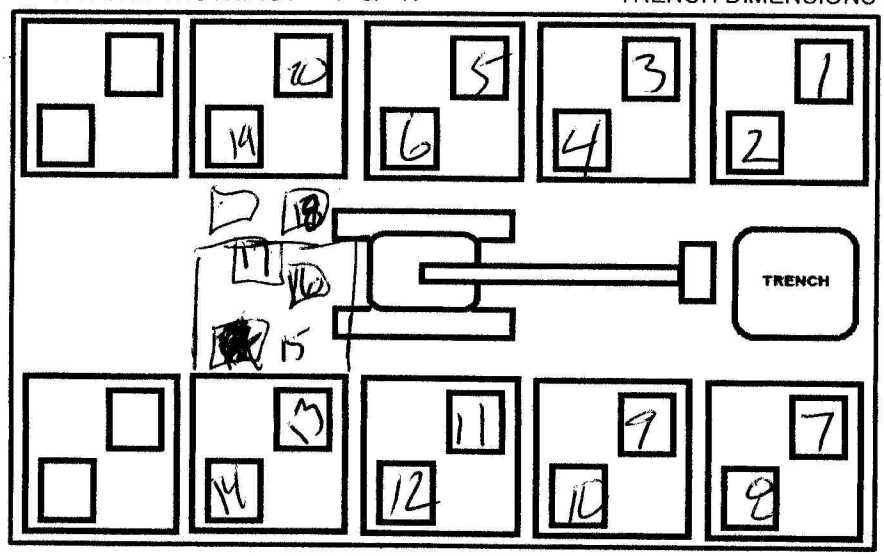
WBV 14C.2
TRENCHING FIELD LOG

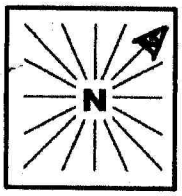
N 506342.3
E 3657934.4

5'
1.5' RB
1.5' LD
2' RB

CL STA - 140+~~50~~ 51
START TIME - 0815
END TIME -
WEATHER -
DATE - 11/2/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - ~~48'~~ 38'
TOP OF TRENCH EL - +6.4
ORIGINAL GROUND ELEV -
TRENCH DEPTH - 5' plan
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	0815 1	5.9	Y big	piece		
0.5	2	5.9				
	0817 3			Y		
1.0	0817 4	5.4		Y		
	0819 5	4.4		Y		
1.5	0820 6	4.9				
	0822 7	4.4		Y		
2.0	0823 8	4.4		Y		
	0825 9	3.9		Y		
2.5	0827 10	3.9				
	11	3.4	Y	Y		
3.0	0831 12	3.4				
	0835 13	2.97	Y (small)	Y		
3.97	0839 14	2.7				
	0840 15	2.4				
4.0	0841 16	2.4				
	17	1.8				
4.6	18	1.8				
	19	0.8		Y		
5.6	0852 20	0.0				
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

6.4
-0.9
5.6

In NE wall
Cohesion in KSF
as meas by
pocket pen

5.0' — 1.0
4.0' — 1.0
3.0' — 2.5
2.0' — 2.0

1.5
1.3
0' floor

ATTACHMENT "A"

10

Conroy

WBV 14C.2
TRENCHING FIELD LOG

~~#15~~ Tr #14

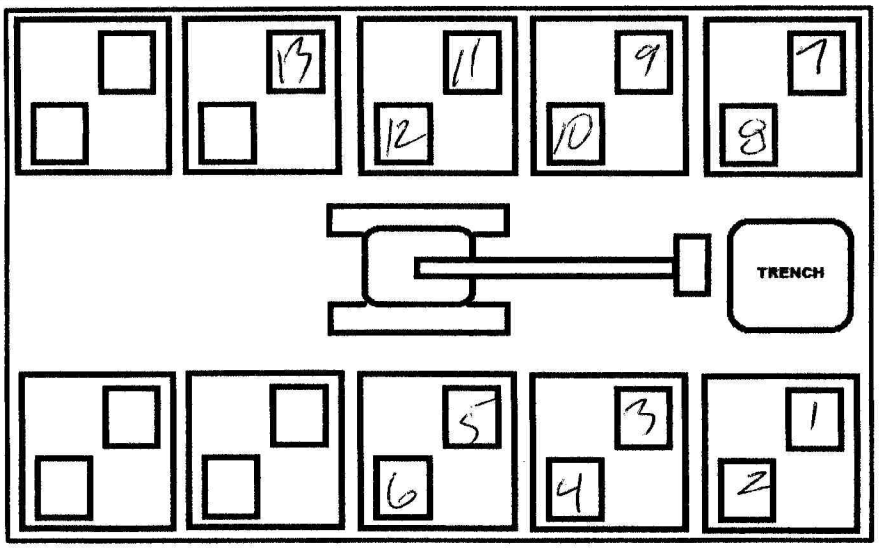
Anomolie #15

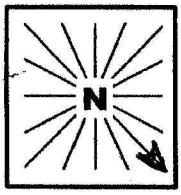
N 505807.9
E 3660414.5

3' deep
6" RTS
4' Degrade

CL STA - 66+88
START TIME - 4:55
END TIME -
WEATHER -
DATE - 10/27
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 4.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0.5	455 1	13				B/1
	2	13				CH
	453 3	12.5				Dry
1.0	4	12.5				
	458 5	12.0	small	Y		
1.5	500 6	12.0				
	7	11.5	Y (small)	Y		
2.0	8	11.5				
	9	11		Y		
2.5	10	11		Y		
	11	10.5				
3.0	12	10.5		Y		
	13	10		Y		
3.5	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Finish @ 5:25 pm

ATTACHMENT "A"

11

Conroy

WBV 14C.2
TRENCHING FIELD LOG

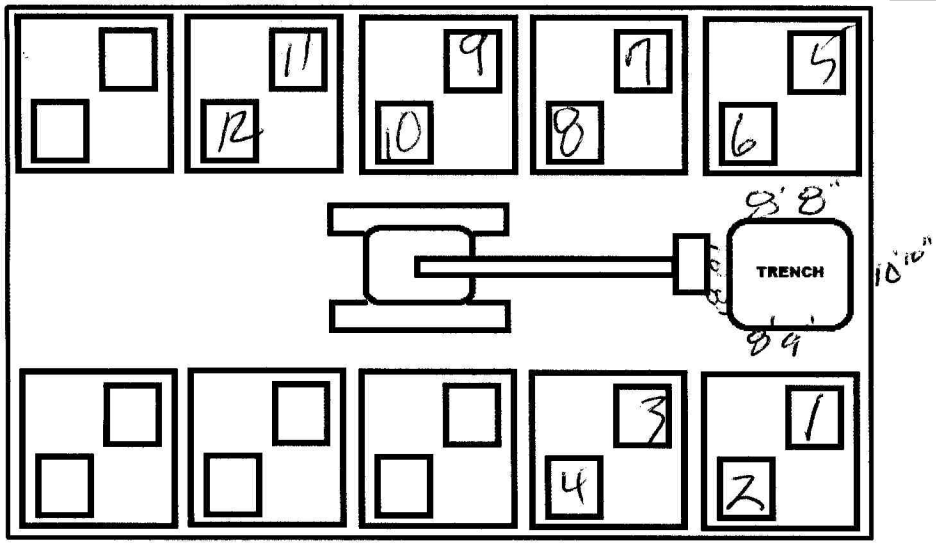
Anom #16

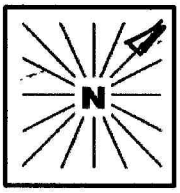
N 505653.3
E 3660659.76

CL STA - 70+00
START TIME - 4:04pm
END TIME -
WEATHER -
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 5.0
TRENCH DEPTH -
TRENCH DIMENSIONS -

3½ feet
6" RB
3' LD
↓ WB





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	405 1	12.85				
1'	2	12.5				
	4.11 3	12				Brown
1.5	4	12				NOT
	5	11.5				RB
2°	4:15 6	11.5				
	7	11				
2.5	8	11				
	4:21 9	10.5				
3°	10	10.5				
	11	10				
3.5	12	10				
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

- Some wood
- No objectionable
- 1 small piece of concrete

ATTACHMENT "A"

12

Conroy
Moved closer to LS levee toe

WBV 14C.2
TRENCHING FIELD LOG

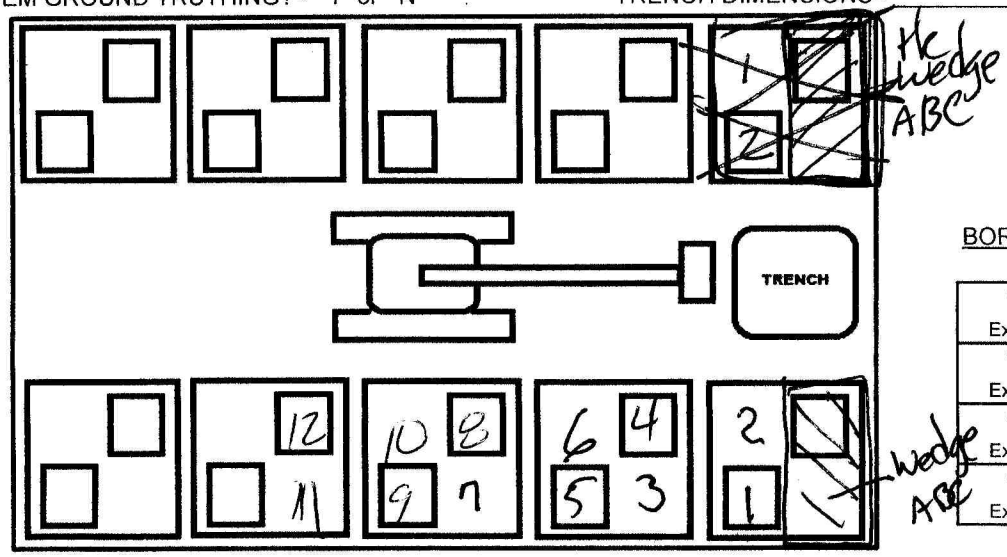
TR#26 Array 17

505508.8
~~N 505505.1~~
~~E 3660611.1~~
3660659.2

All CUT

CL STA - 71+39
START TIME - 11/4/11
END TIME -
WEATHER -
DATE -
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 36 [redacted]'
TOP OF TRENCH EL - 5.5 [redacted]
ORIGINAL GROUND ELEV - 11.3 [redacted]
TRENCH DEPTH -
TRENCH DIMENSIONS -



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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See photo for time

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	5.0				Concrete
0.5	2	5.0	Y	Y		
	3	4.5				
1.0	4	4.5				
	5	4.0		Heard concrete scrape		
1.5	6	4.0				
	7	3.5		Some grinding		
2.0	8	3.5		Big grinding sound		
	9	3.0	Base had size rock	(top of rt @ +3.5)		
2.5	10	3.0				
	11	2.5				
3.0	12					
	13					
	14					
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

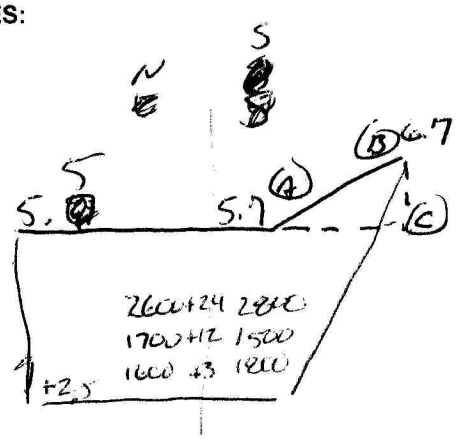
Look L
Look R

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:



Jaz dug out an 8" concrete piece in bucket 9 that was well encapsulated

ATTACHMENT "A"

Conroy

WBV 14C.2
TRENCHING FIELD LOG

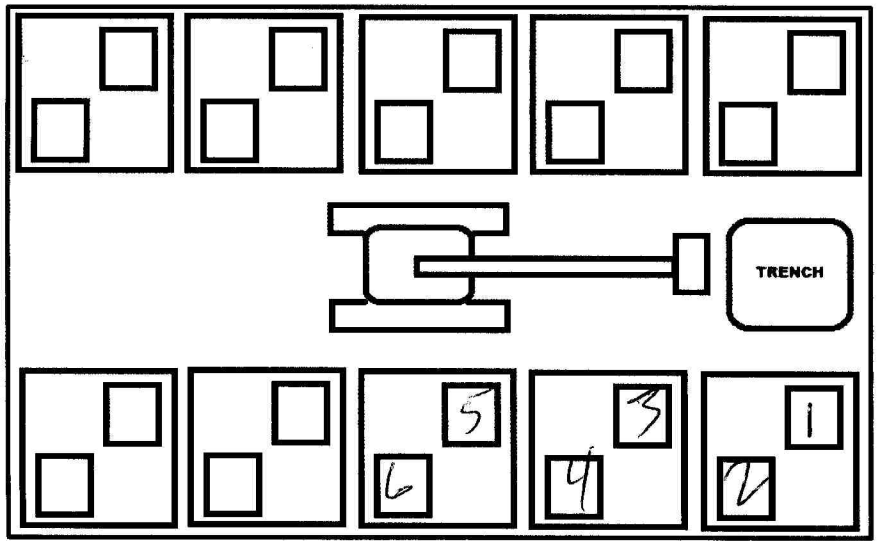
Area #18
Trench #12

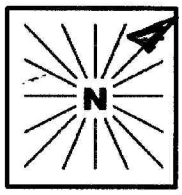
N 503056.18
E 3659919.12

CL STA - 97+00
START TIME - 2 35
END TIME -
WEATHER -
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.6
ORIGINAL GROUND ELEV - 4.6
TRENCH DEPTH - 4-5
TRENCH DIMENSIONS -

2' RB
6" WB
1½ LD
↓ LB





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1			N		
2			N		
3	12.5	Y	N	2 pieces close to objectionable.	
4	12.5	Y	N		
~~1 3 5~~ 5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

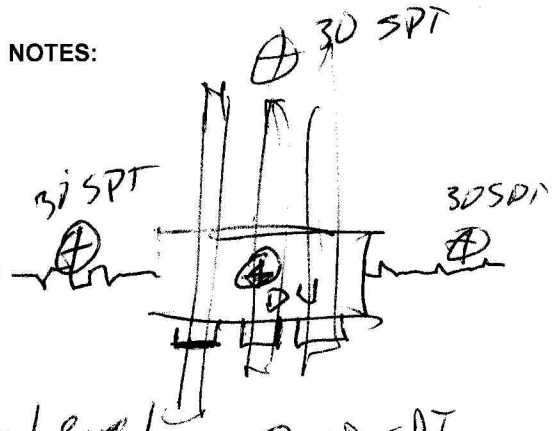
* See key sheet.

See Brad's notes

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:



Big Piece @ 2.5' deep
2-3' deep most material - Level Degraded
Lmst + PP=1500

30 SPT

ATTACHMENT "A"

Top 3' pretty dry - the reason 1' for the "blue" area

14

Conroy

WBV 14C.2

TRENCHING FIELD LOG

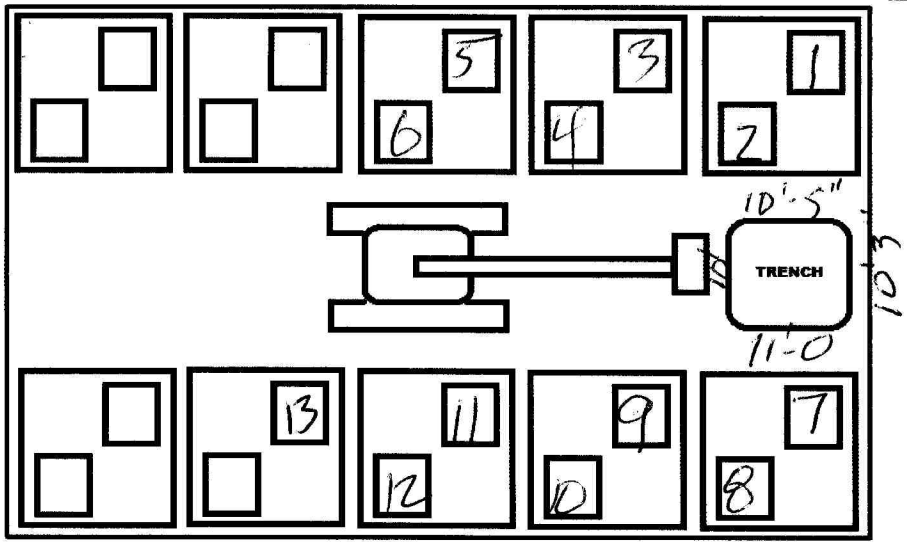
hole #11 Anomaly #19

N 502293.62
E 3659879.7

CL STA - 104+51
START TIME - ~~1:40pm~~ 1:30pm
END TIME -
WEATHER - Clear 70°
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 149'
TOP OF TRENCH EL - 2.5
ORIGINAL GROUND ELEV - -1.0
TRENCH DEPTH -
TRENCH DIMENSIONS -

~~All Rock~~
~~Birch~~



0-1 Levee
1- R. Birch

BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1330	1					
	2	+2				
-.5 1333	3		small stuff			
	4	+1.5				
-1.0 1335	5				thin fractured 4"x4"	
	6	+1.0				
-1.5	7	+0.5				
	8	+0.5				
-2.0	9	0				
	10	0	Y			
-2.5	11	-0.5		Y		
	12	-0.5	Y	Y		
-3.0	13	~~[illegible]~~ -1.5				
	14	-1.5				
-4.0	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

ATTACHMENT "A"

Conroy

WBV 14C.2
TRENCHING FIELD LOG

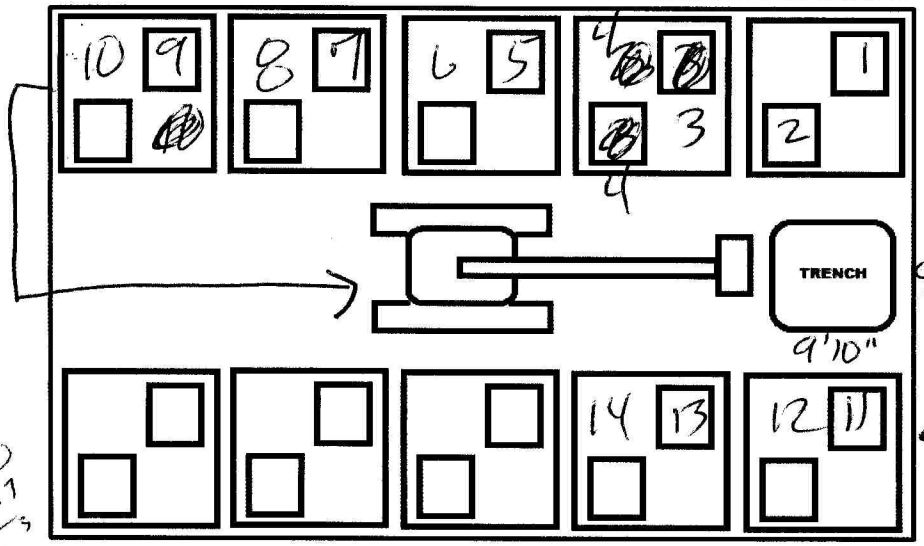
#10 manual #20

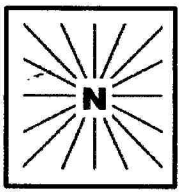
N 501957.99
E 3659705.98

CL STA - 108+18
START TIME - 11:13 am
END TIME -
WEATHER -
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS CL - FS
TRENCH OFFSET FROM CL - 60 PS
TOP OF TRENCH EL - 5.0
ORIGINAL GROUND ELEV - 7.6
TRENCH DEPTH -
TRENCH DIMENSIONS -

@ least 4'





99'

5.0
-2.7
2.3

BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0.5	11:13 1	* 4.5	Y	Y		
	11:14 2	4.5	Y	Y		
	11:17 3	4.0				
1.0	11:19 4	4.0				
	5					
1.5	11:24 6					
	7	2.9			Very clean	
2.3	11:26 8	2.7				
	11:30 9	2.4				
2.6	10	2.4				
	11:34 11	2.0				
3.0	12	2.0				
	13	1.5				
3.5	14	1.5				
	15					
	16					
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

Terminate @ elev 1.5'

No conclusive evidence on Fugro full colors as to the existence of the ▽.

* The 1st 6" is a lot of hard road w/ a lot of wood.

ATTACHMENT "A"

16

Conroy

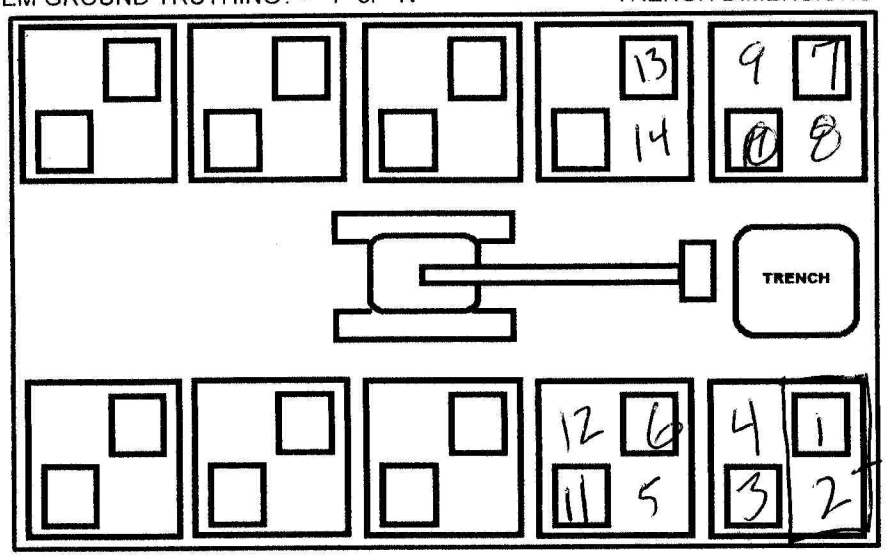
WBV 14C.2
TRENCHING FIELD LOG

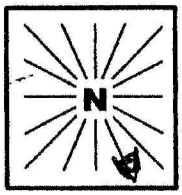
Anom #21 (nearest tr #27

N 501855.8
E 3659653.7

CL STA - 109+30
START TIME - 927 11/4/11
END TIME -
WEATHER -
DATE - 11/4/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 33'
TOP OF TRENCH EL - 6.3
ORIGINAL GROUND ELEV - 11.3
TRENCH DEPTH - to el +1.7 (4' below hwl road)
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
932 1	The wedge				
2					
3	+5.0				
4	+5.0				
5	4.5		Y		
6	4.5				
7	4.0				
935 8	4.0	Y small			
9	3.5				
10	3.5				
940 11	3.0				
12	3.0				
13	2.5				
3' 947 14	2.5				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

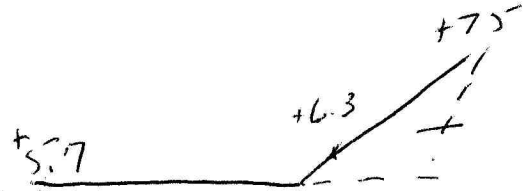
N wall		S wall
800	36"	1200
800	24"	1500
2200	12	2100
2000	3"	1600

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:



1.0 4.7
2.0 3.7
3.0 2.7

ATTACHMENT "A"

17

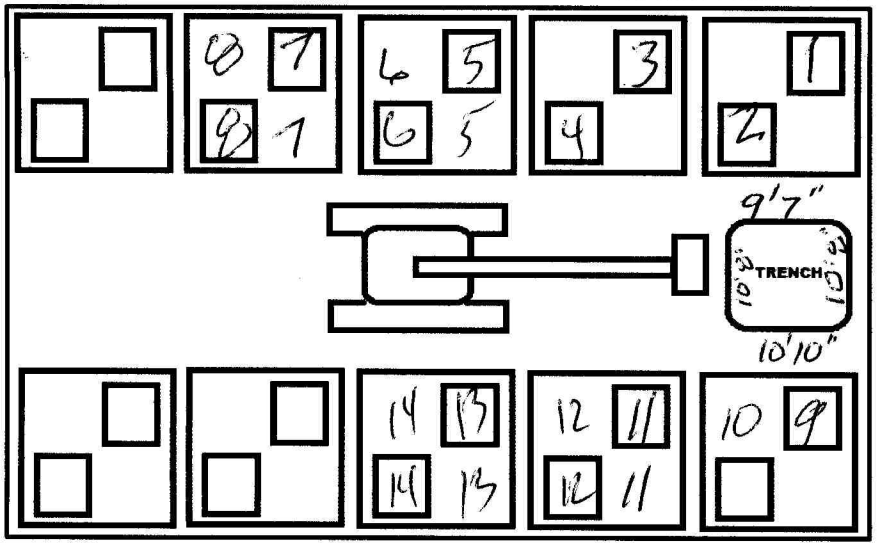
Conroy

WBV 14C.2
TRENCHING FIELD LOG

N ~~360~~
501118.4
3660001.6

CL STA - 120+39
START TIME - 9:20
END TIME -
WEATHER -
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 63'
TOP OF TRENCH EL - 6.5
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1		larger in	} surficial		
0.5	2	6	side wall	} dressing mat'l		
	3					
1.0	4		Y (bigger)	Y		in site
	5	5.0				
1.5	6	5.0				
	7	4.5				lighter color
2.1	8	4.5				
	9	4.0	Y	N		
2.5	10	4.0		Y		
	11	3.5		Y		
3.0	12	3.5		Y		darker color
	13	3.0		Y		
3.5	14	3.0		Y		
	15	2.5				
4.0	16	2.5		Y		
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES: Do a boring to sample the softer stuff at the 4' depth.

Possible DSM nearby!

- Dug a piece of wood out of the bottom side that was in a "pocket of wet clay"
- Lines "pocket pen" readings - check bumps for strengths

Mr Morris obtained a soil sample of the softer soil. 10

ATTACHMENT "A"

Conroy

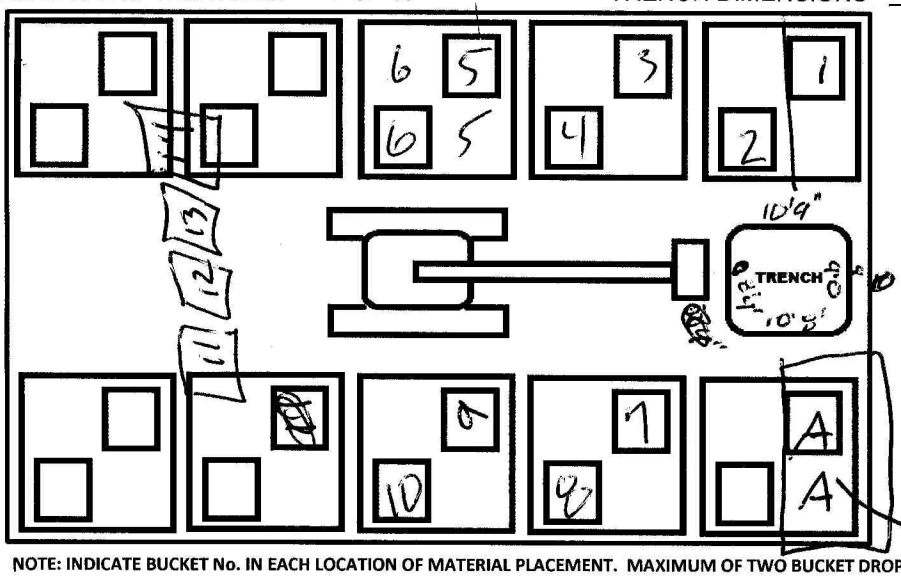
WBV 14C.2
TRENCHING FIELD LOG

Anomal #23

N 501062.4
E 366014.28

CL STA - 121+46
START TIME - 0740
END TIME -
WEATHER - Clear 70°
DATE - 10/27/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 15'
TOP OF TRENCH EL - 10.8 ≈ 2.0 fill
ORIGINAL GROUND ELEV - 8.0
TRENCH DEPTH -
TRENCH DIMENSIONS -



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' ~~OF GEOTEXTILE~~ FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

A combination of 1st 18"

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1		Y Bigger Piece			
2	11.1/8.9		Y	Hook	
3	~~10.7 8.4~~				
4	10.1 8.1				
5					
6	18" deep		Y		
7	9.7/7.4				
8	9.7/7.4				
9					
10	9.1/6.6				
11	8.7 6.1				
12					
13					
14	8.1/5.7				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1' 8:10 2' 3' 8:22

* See key sheet.

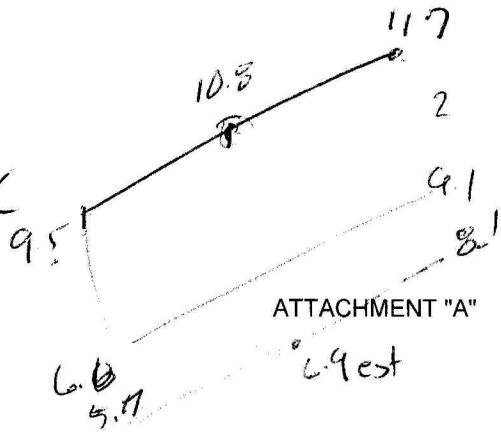
BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

9.5 - 5.7 = 3.8
11.7 - 8.1 = 3.6



Geophysics did not pick up the metal hook @least, it didn't indicate metal

ATTACHMENT "A"

19

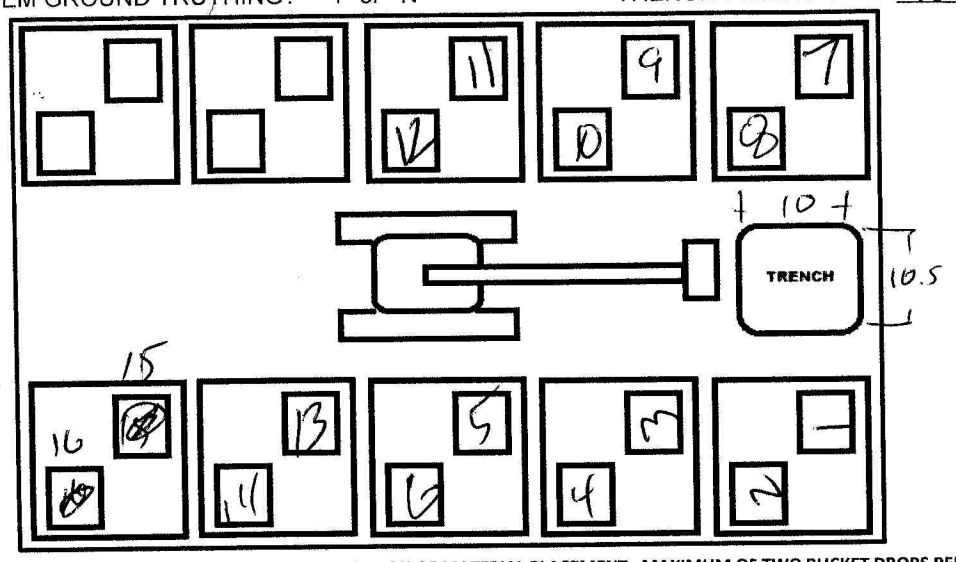
Conroy

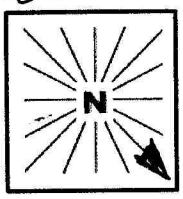
WBV 14C.2
TRENCHING FIELD LOG

N 500937.9
E 366159.7
6" RBend
3' Degrad
6" RBIV
↓ W.B.

CL STA - 136+07 (anomoly #24)
START TIME - 1545 4'-5' deep.
END TIME -
WEATHER -
DATE - 10/26/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.5
ORIGINAL GROUND ELEV - +5.8
TRENCH DEPTH - ~~10.5~~
TRENCH DIMENSIONS - 10.5x10'





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
3:45pm 1					
2					
3	12.5				
1' 4	12.5	Y small root			
5	12				
4:00pm 6	12				
7			Y		
8	11.5				
2 9	11				
10	11				
2.5 11	10.5				
12	10.5				
3 13	10				
14	10				
15	9.5				
4 16	9.5				
17	9.0	Flood Side only			
4:30 18	8.5	Flood Side only			
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

The levee degrade was ~~[illegible]~~ pretty clean.
No anomoly found

ATTACHMENT "A"

20

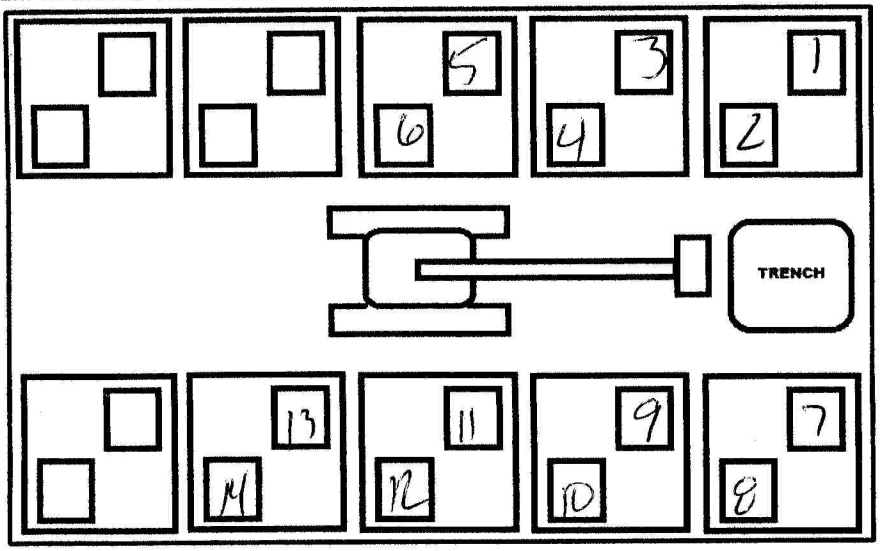
Conroy

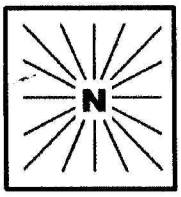
WBV 14C.2
TRENCHING FIELD LOG

To blue line
2.7' of fill
All row

CL STA - 141+46
START TIME - 0800
END TIME -
WEATHER -
DATE - 10/28/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 118
TOP OF TRENCH EL - 5.5
ORIGINAL GROUND ELEV - 2.8
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	5.0				
0.5	2	5.0				
	3	4.5				
1.0	4	4.5				
	5	4.0				
	6	4.0				
1.5	7	3.5				
	8	3.5				
2.0	9	3.0	Y small			
	10	3.0				
2.5	11	2.5	N	Y		
	12	2.5				Interface w/old. See cross sects
3.0	13	2.0				
3.5	14	2.0				
	15	1.5				
4.0	16	1.5				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

ATTACHMENT "A"

21

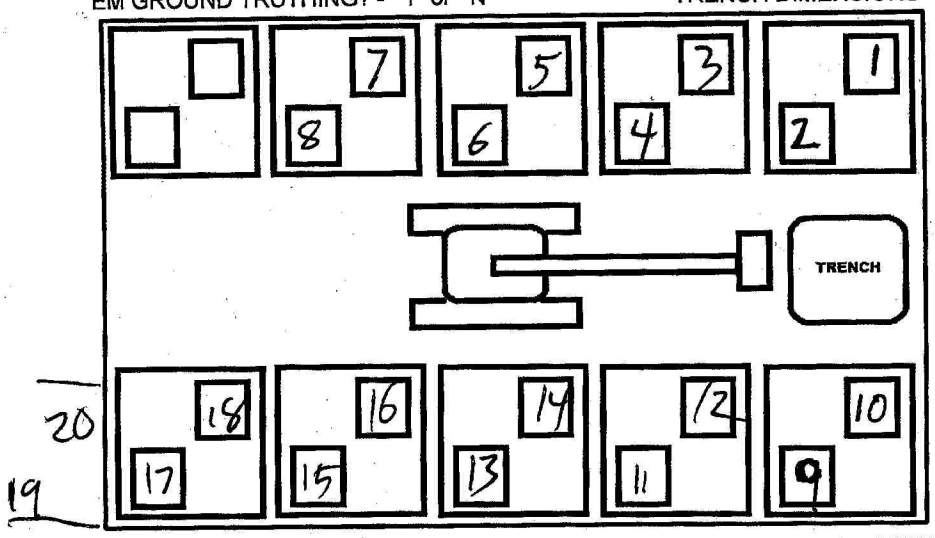
Arcement
N 500798.0
E3663398.0
154+50

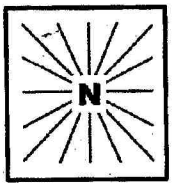
WBV 14C.2
TRENCHING FIELD LOG

12.9
11.6
10.5

CL STA - ~~[illegible]~~
START TIME - 1:45
END TIME -
WEATHER - Clear Sunny
DATE - 11-4-11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - DS - CL - FS
TRENCH OFFSET FROM CL - 12'
TOP OF TRENCH EL - 11.6
ORIGINAL GROUND ELEV - 5.1
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0-1	1					
	2					
	3	10.5.				
	4	10.5				
1-2	5	10.0		Y		
	6	10.0	Y	Y		
	7	9.5	Y			
	8	9.5	Y			
2-3	9	9.0	Y objects	Y		
	10	9.0				
	11	8.5				
	12	8.5		Y		
3-4	13	8.0	Y	Y		
	14	8.0	Y	Y		
	15	7.5	Y			
	16	7.5	Y	Y		
4-5	17	7.0	Y			
	18	7.0	Y			
	19	6.5	Y			
	20	6.5	Y			
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERNS Y or N
GOOD COMPACTION Y or N

NOTES:

2000 3' 1200
3000 2' 2800
2500 1' 1700
[illegible]

This is a copy of Brad Arcements trench log

ATTACHMENT "A"

22

Conroy

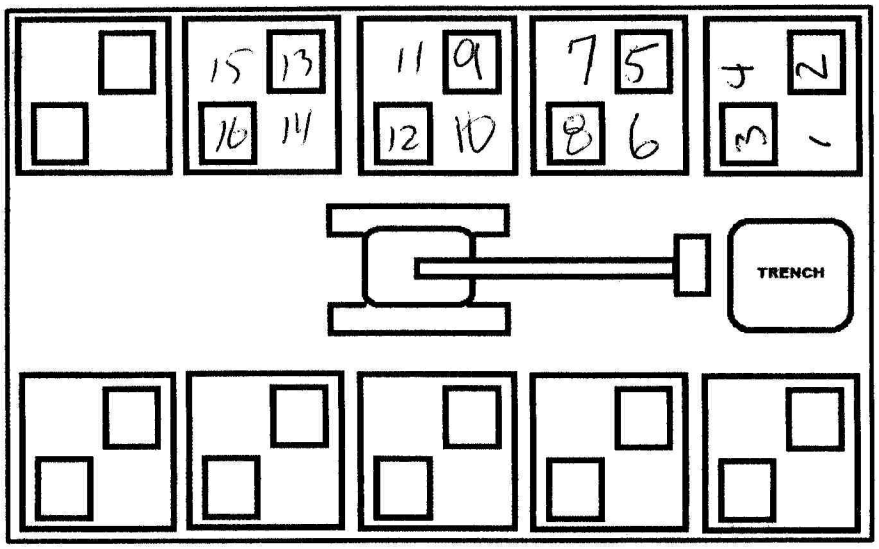
WBV 14C.2
TRENCHING FIELD LOG

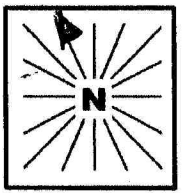
N 500757.1
E 3664196.3

½ WB
3' RB

CL STA - 162+50
START TIME - ≈ 1 pm 11/4/11
END TIME -
WEATHER -
DATE - 11/4/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.6
ORIGINAL GROUND ELEV - +5.6
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	1	13				
0.6	2	13		Y		WB
	3	12.5	Y small			
1.1	4	12.5	Y gouge	Y		
	5	12				RB
1.6	6	12		Y		
	7	11.5	Y small			
2.1	8	11.5				
	9	11				
2.5	10	11	Y gouge	Y		
	11	10.5	Y gouge	Y		
3.0	1219 12	10.5	Y	Y		
	13	10	Y large	Y		
3.5	14	10		Y small		
	15	9.5	Y	Y		
4.0	16	9.5		Y		
	17	9.0	Y	Y		
4.5	18	9.0				RB
	19	8.5				
5.	20	8				WB
	21					
	22					
	23					
	24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

N wall		S wall
2100	+36"	3000
1500	+24"	2700
1600	+12"	1100
2700	+3"	1200 +9.5

- Mr Brouillette questioned Will on use of pocket penetrometer
- Mr Merritt took a sketch of pocket pen but kept results to himself

ATTACHMENT "A"

23

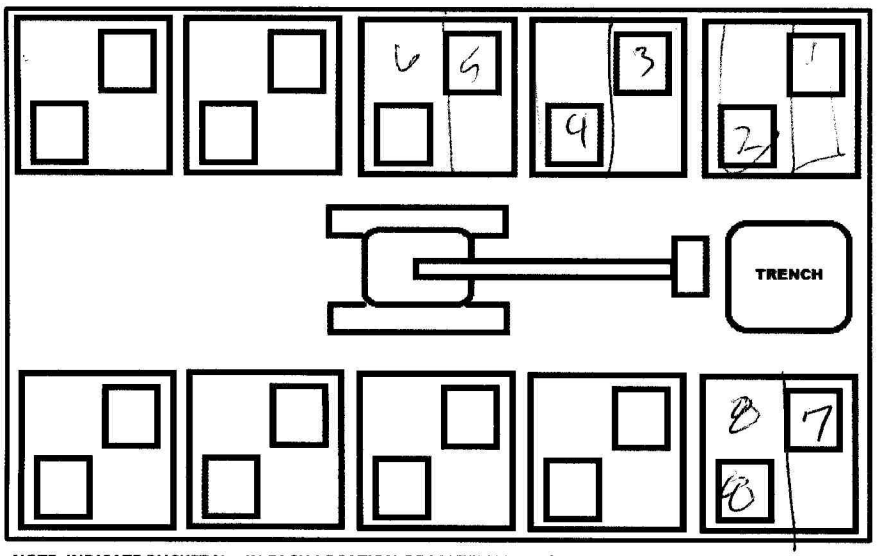
Conroy

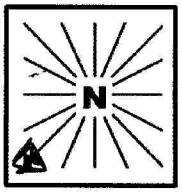
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 165+08
START TIME - 1:55 pm
END TIME -
WEATHER -
DATE - 10/26/08
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 45'
TOP OF TRENCH EL - 8.5
ORIGINAL GROUND ELEV - 12.1
TRENCH DEPTH -
TRENCH DIMENSIONS -

N 500771.4
E 3664456.5
cut to 6.5+
2' fill





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
155 1	9.4/7.3		N		
2	9.4/7.3		N		
3	8.9/6.9		Y		
4	8.9/6.9				
5		Y small			
6	8.4/6.2	Y ~~tongue~~			
7	/5.8	Y large			
8	7.9/5.8			Shells	
9				Y - concrete	
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1'
1.5'
2.0
17

* See key sheet.

Picking up shells

13.5

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

9.9 top cut
7.8 bottom cut

9.9

7.8

ATTACHMENT "A"

24

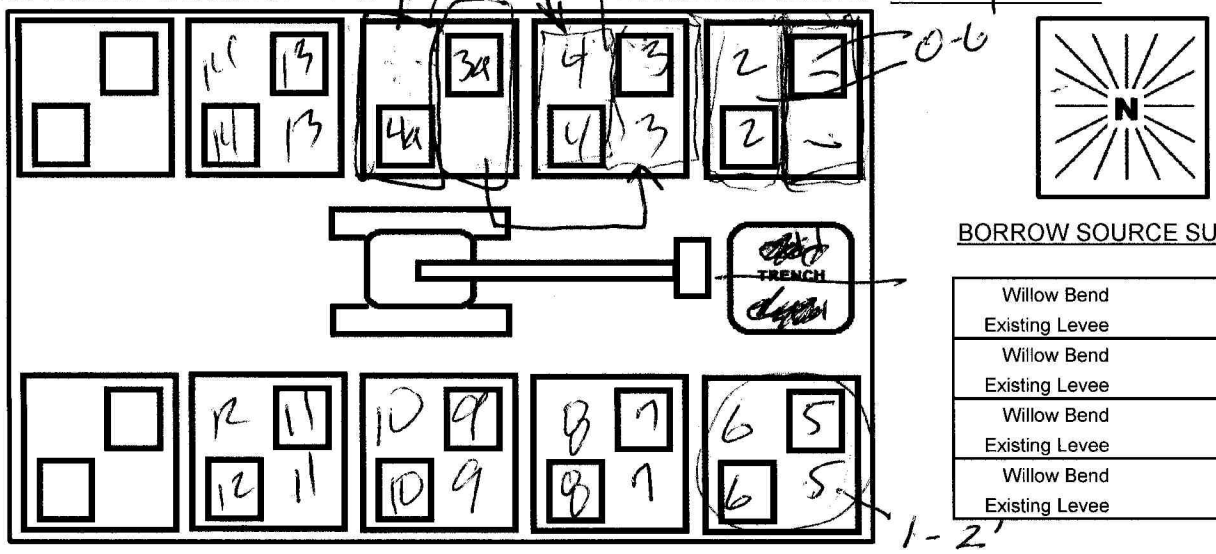
Conroy

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 166+90
START TIME - 1050
END TIME -
WEATHER -
DATE - 10/26/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - X
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 6.5
TRENCH DEPTH - 10.5 x 9
TRENCH DIMENSIONS -

N 500729.8
E 3664636.1



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

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TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1050 1					
2					
3					
1 4	12.5		Y		
11.10 5					
6	11.5				
2 7					
8	11.0				
9	10.5		Y		
3' 1140 10	10.5	Y	Y		10'3" x 6'
11	10				
12	10				
13	9.5				
4' 14	9.5				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

Glen will watch for objections to backfilling back.

6" W Bend
3.5 R 13
J W B

PP
@ Bottom 6" 1000
above 1 11,000
1.5 1,500
2.0 3,500

No anomalies found

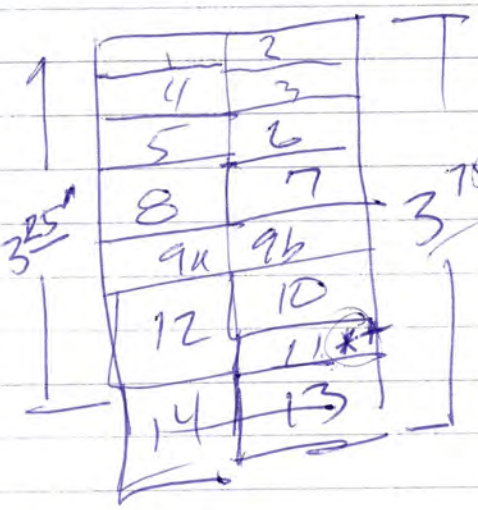
ATTACHMENT "A"

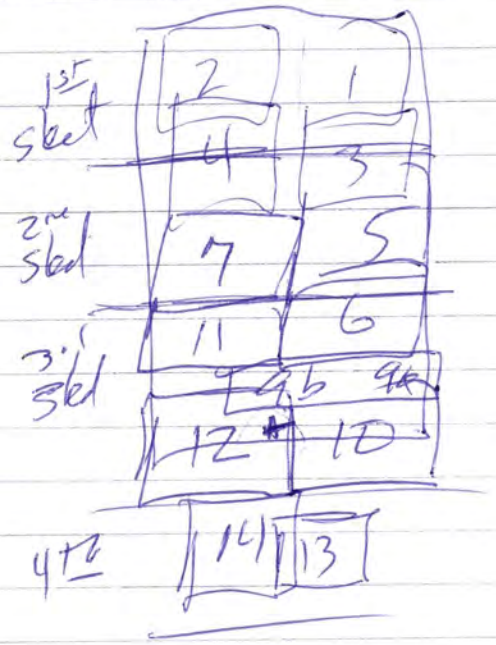
25

Times Pic On-Site Shot drop @ 11:30 Contr refuses to work w/the press here. Delayed

Tiger Team meeting @ 0800 Rm 105 Thursday 9/28/11. Finalize lab testing procedures.

1:00 pm
Start 170+00
& 3' deep
Top @ 135
orig "6"





Directed contractor to go an add'l 6" to expose the Hilton Bent

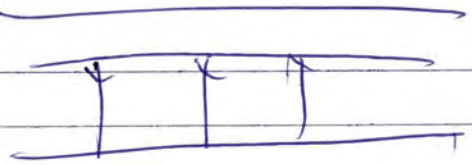
Picture @ 1:45 pm

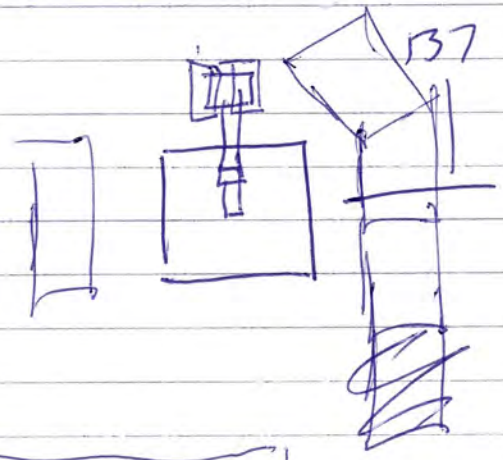
Tough, fat clay, stiff. ~~Almost~~ except Wood well encapsulate for the large piece.

Nothing to drought the performance

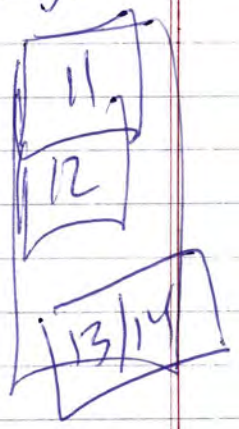
Last elev = +9.0 off prev train trend

Sta 170
137' 9/5 PB
GSE = +5.0
orig = 7.4
155 pm



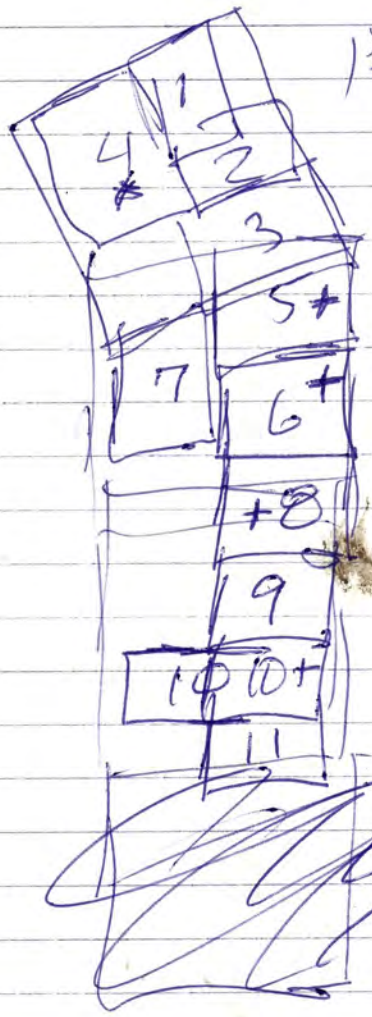


4th Sled



13;14 are clean up

1st Sled



2nd Sled

3rd Sled

4th

Conroy

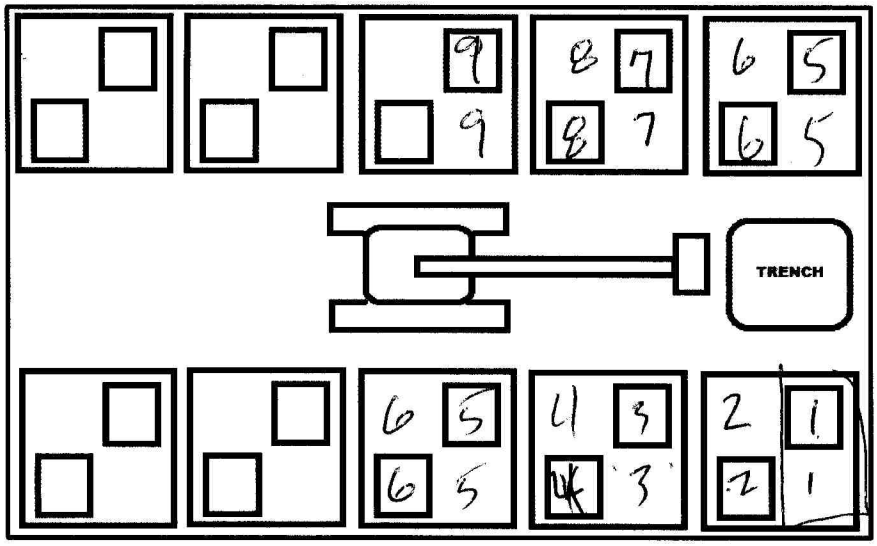
WBV 14C.2
TRENCHING FIELD LOG

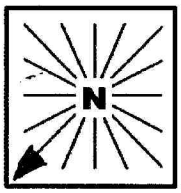
CL STA - 172+08
START TIME - 0900
END TIME -
WEATHER - Clear 70°
DATE - 10/26/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 55' PS
TOP OF TRENCH EL - 7.2
ORIGINAL GROUND ELEV - 9.0
TRENCH DEPTH - 10.5 x 10.5 x 10.5 x 10
TRENCH DIMENSIONS -

N 80748.26
E 3665156.77

Degraded old levee to 5.2 then added 2-feet of fill





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

weak box

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
0900 1	7.2	X	X		
2			I have made a mistake tracking these		
3					
4	6.2				
1.5 0915 5			Y		
2.0 6	5.0	Y small	Y		
7					
2.5 8	4.7	Y	Y		
9	4.	Y	Y	brick	
10					
11					
12					
13					nat'l
14		@ ele. 4, the in-situ is evident.			
15					
16					
17		Noticed something not			
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES: Finished @ 10:40

Will inspect for big pieces before chopping

The 1st buckets were very tough digging and operator went deeper. Fill very clean.. Objects found below content

ATTACHMENT "A"

26

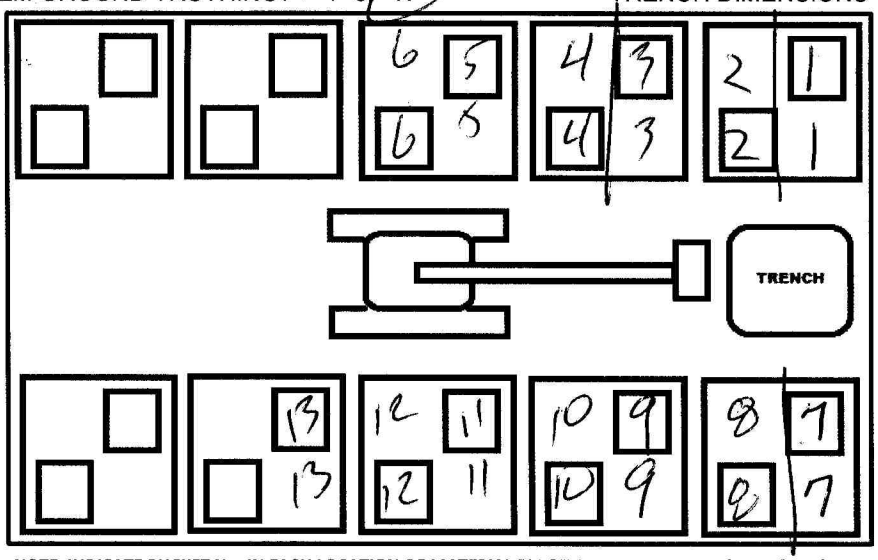
Conroy

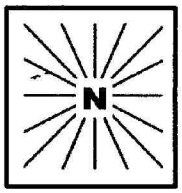
WBV 14C.2
TRENCHING FIELD LOG

1'WB
3RB

CL STA - 174+00
START TIME - 1455
END TIME -
WEATHER -
DATE - 10/25/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.6
ORIGINAL GROUND ELEV -
TRENCH DEPTH -
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1455 1	13.6	Small	Y		
2	13.0		Y		
3		Small	Y		
1.1 4	12.5	Small	Y	@ Gouged line	
1512 5				brick piece	
6			Y		
1521 7			Somewhat more friable/heavier		
8	11.1				
9		Y	Y	Piece wood @ 10.9	
2.5 3.0 1538 10	10.6	Y	Y	object hit @ 6	
11		Y			
12	10.1	Y	Y		
13	9.5	Y	Y	Getting into WB.	
1600 14	9.5	Y	Y		
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	Y or N

NOTES:

ATTACHMENT "A"

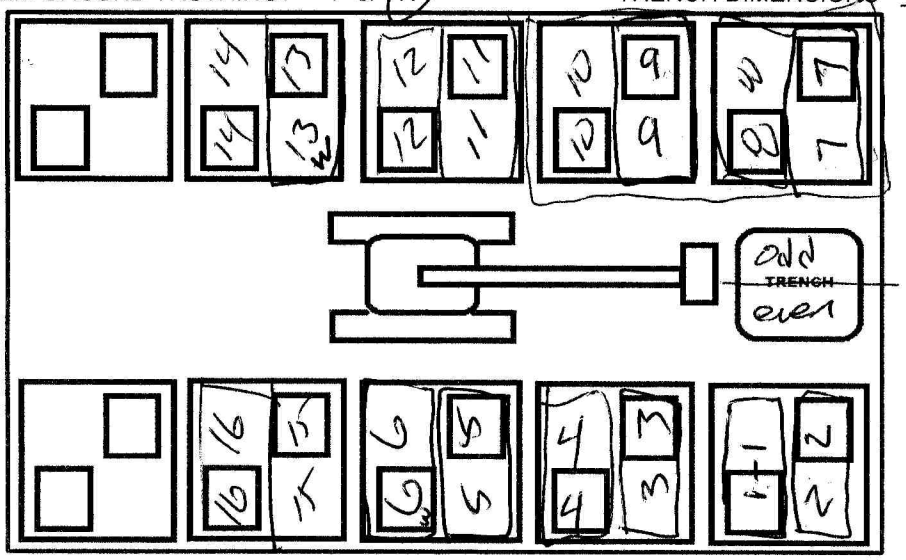
Conroy

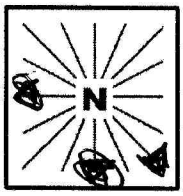
WBV 14C.2
TRENCHING FIELD LOG

N 500606.4
E 3665918.1 | @ center of trench

CL STA - 179+80
START TIME - 9:15
END TIME -
WEATHER - Clear 70°
DATE - 10/25/11
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - @ 179+80
TOP OF TRENCH EL - +13.6
ORIGINAL GROUND ELEV - @ 180+00 +6.2 @ ℄
TRENCH DEPTH - 4'
TRENCH DIMENSIONS - 10.5 x 11.5 x 4'





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

≈ 15'6"
6" to 48"
48" and below

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
	✓ 1					
6"	✓ 2			Y		
	✓ 3	12.4 @ center				
12"	4					
	5					
18	6		Y .7' x .3' x 2.8'	(?)		
	7	11.6 @ center				
24"	8			Y		
	9			Y but is it clay cracking? NO WOOD		
30	10			Y wood ~~[illegible]~~		
	11	10.5	Little	Y not as loud		
36	12			Y		
	10:05 13		Y	Y? Wood ~~[illegible]~~		
42	14		Y	Y		
	15		Y	Y		
48	10:20 16	9.5				
	17					
	18					
	19					
	20					
	21					
	22					
	23					
	24					

· lighter color mat'l appeared
· have gotten through the river birch

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

NOTES:

1' W.B
3' R.B

cuts 9 & 10 revealed darker mat'l in sidewall.

28 1/4" to 3/8" thumbnail pore tr every alone

ATTACHMENT "A"

Conroy

WBV 14C.2
TRENCHING FIELD LOG

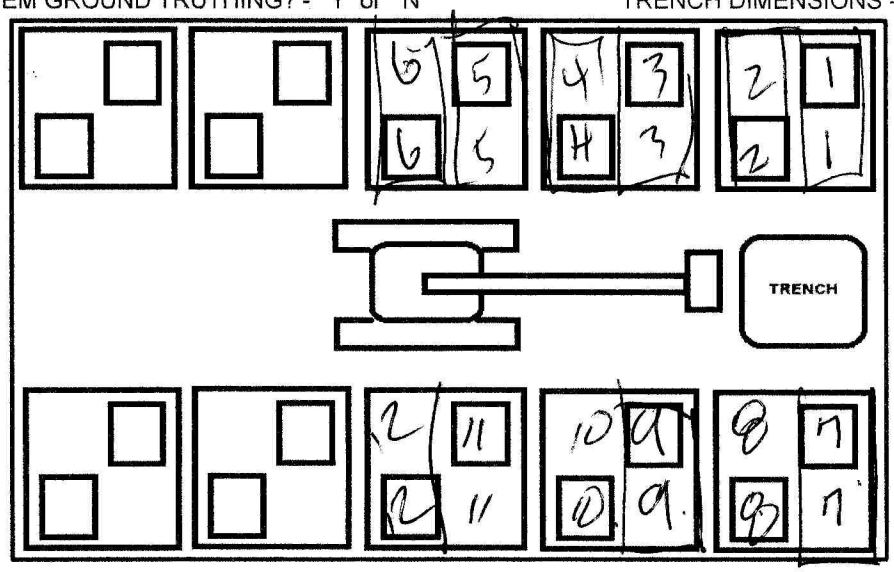
Anomaly #31

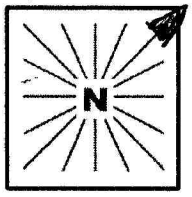
N 500782.3
E3665981.4

CL STA - 180+01
START TIME - 11:50
END TIME -
WEATHER - 70° Breeze
DATE - 10/25/11
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 187' PS
TOP OF TRENCH EL - +3.00
ORIGINAL GROUND ELEV - ≈ 0
TRENCH DEPTH - 4'
TRENCH DIMENSIONS - 10½ x 11

.2 - .1





BORROW SOURCE SUMMARY

TOP 6"

Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
Now 1					
2					
1208 3	2'	Y	Y		
1' 1210 4		Y	Y		
1214 5		Y	Y		
6	1.5				
1220 7		Y			
2' 8	1.0				
9		Y (small)	Y		
10		Y (small)	Y		
11		Y (small)	Y		
3' 1230 12	0		Y		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	Y or (N)

NOTES:

Finished picking: black tackle 1:30

29

ATTACHMENT "A"

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/3/2011

LOCATION Flood Side

STATION # 01+41

START TIME 5:05 PM

END TIME 6:05 PM

WEATHER

OFFSET FROM C/L 21'

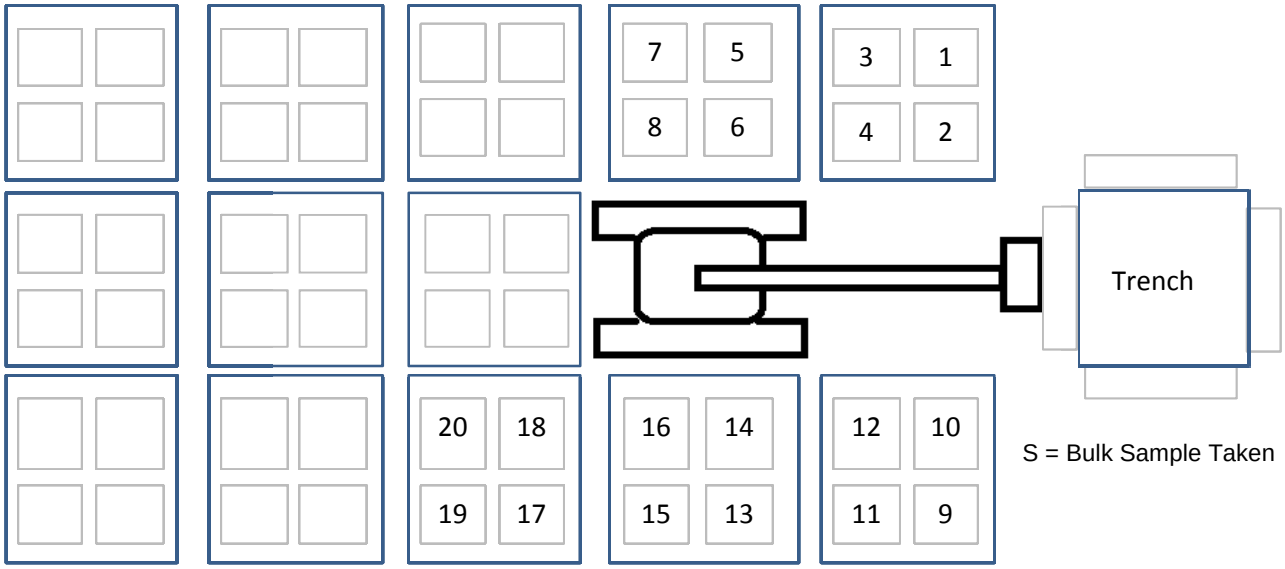
TOP ELEV +9.2'

ORIG GROUND ELEV +2.0

DEPTH 5'

N

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+8.7'	0-6"					lean or dry; gray-black
2	+8.7'	0-6"	y	y	OBJ	RB	metal pipe 2" x 28"
3	+8.1'	6-12"					slabby
4	+8.1'	6-12"		YY			big tear ups
5	+7.7	12-18"	YYYY	Y			2" X 6"
6	+7.7	12-18"		Y			
7	+7.1'	18-25"	Y	Y			
8	+7.1'	18-25"					
9	+6.7'	25-30"	YY				
10	+6.7'	25-30"	Y				roots
11	+6.2'	30-36"	y	Y			small wood clump (plate size) & 8" long piece
12	+6.2'	30-36"		Y			
13	+5.7'	36-42"	YY	YY	wood		in wall (near objectionable size wood 1"x10")
14	+5.7'	36-42"	Y	Y			
15	+5.2'	42-48"	Y				
16	+5.2'	42-48"	YY			RB	expecting color change (WB)
17	+4.7'	48-52"	Y				
18	+4.7'	48-52"		YY			
19	+4.2'	52-60"	Y			WB?	
20	+4.2'	52-60"	Y				

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/3/2011

LOCATION Protected side

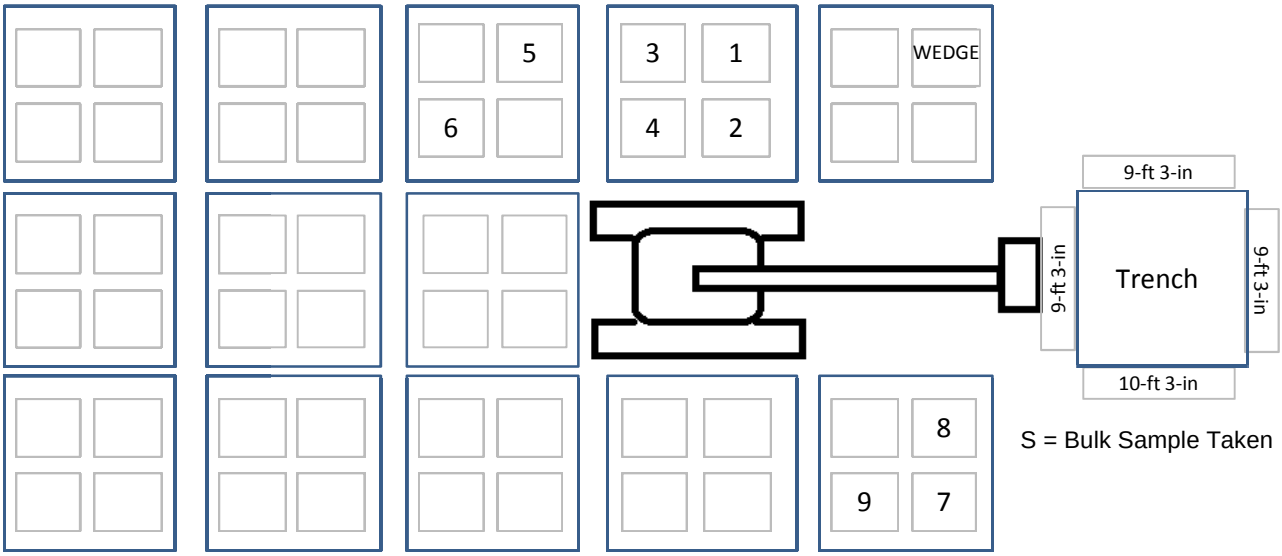
STATION # 04+42
START TIME 2:13 PM
END TIME
WEATHER

OFFSET FROM C/L 34'
TOP ELEV +6.1
ORIG GROUND ELEV 11.0
DEPTH 3'

N 507 107.38
E 365 4407.21

N

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+5.5'	wedge				LD	black-gray; moist (fat & slick)
2	+5.5'	wedge			OBJ		old settlement plate = geophysical anomaly
3W	+5.0'	0-6"	Y	Y			
4E	+5.0'	0-6"					cut section
5W	+4.5'	6-12"			near OBJ		abundant wood debris (some rotted) in situ
6E	+4.5'	6-12"	Y		broken glass		sand, broken glass
7	+3.7 - 3.5	12-24"			mass wood		settlement said "to be 2001"
8	+3.7 - 3.5	12-24"					
9	+3.0'	24-30"		Y			abundant shells
10	+3.0'	24-30"	YYYY		Y		rotting wood mass
11	+2.5	30-36"		Y	OBJ		
12	+2.5	30-36"					
13							

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR: Michael Merritt
DATE: 11/3/2011
LOCATION: Flood side

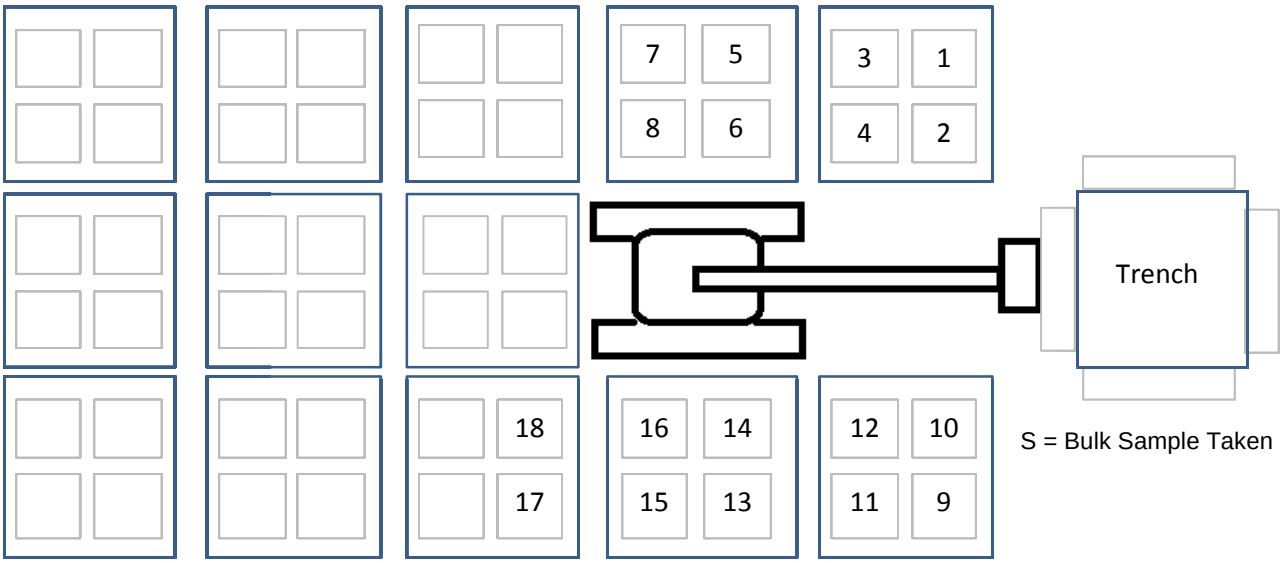
STATION #: 09+80
START TIME: 1:30 PM
END TIME:
WEATHER: windy & overcast

OFFSET FROM C/L: 49'
TOP ELEV: +6.0
ORIG GROUND ELEV: 2.0
DEPTH: 4.5'
DIMENSIONS:

N 506 921.9
E 365 4918.8

N

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+5.5'	0-6"					pullup damp
2	+5.5'	0-6"				RB	
3	+5.0'	6-12"	YG	YY			more moisture, slabby
4	+5.0'	6-12"	Y				
5	+4.5'	12-18"	Y	Y	OBJ		2" x 2" x 10"
6	+4.5'	12-18"					
7	+4.0'	18-24"	YYG	YYYY	OBJ		Jas photo, 1.25" X 2'
8	+4.0'	18-24"		Y			
9	+3.5'	24-30"	Y	YY		WB	leaner, color change to tan
10	+3.5'	24-30"	Y	Y	OBJ		large gravel; broken stake
11	+3.0'	30-36"	Y				2" x 4' wood, wetter clay
12	+3.0'	30-36"					slabby clay; light gray clay
13	+2.5'	36-42"					
14	+2.5'	36-42"	Y	YY			
15	+2.0'	42-48"					
16	+2.0'	42-48"					
17	+1.5'	48-54"				RB	very slick, gray, Lt. gray (original looks uncompact)
18	+1.5'	48-54"	Y		OBJ		clay popping noticeably

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR

DATE 11/3/2011

LOCATION Center Line

STATION # 21+95

START TIME 8:00 AM

END TIME

WEATHER

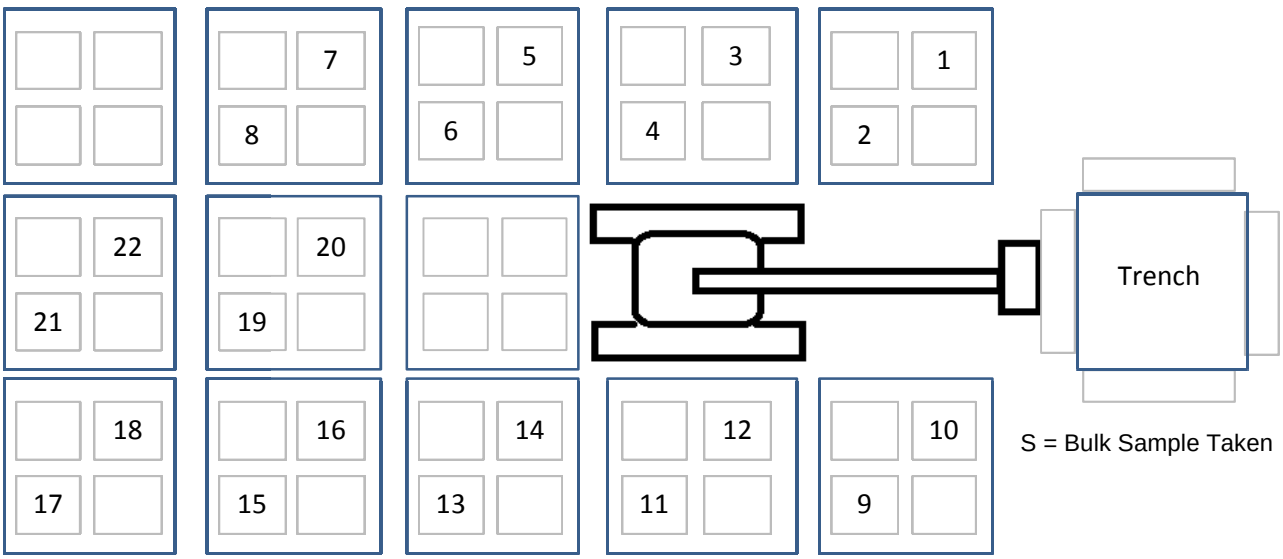
OFFSET FROM C/L none

TOP ELEV +13.5

ORIG GROUND ELEV +14.6

DEPTH 6'

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13.0'	0-6"					
2	+13.0'	0-6"					
3	+12.5'	6-12"		Y			
4	+12.5'	6-12"					
5	+12.0'	12-18"	Y	Y			
6	+12.0'	12-18"					
7	+11.5'	18-24"					
8	+11.5'	18-24"					
9	+11.0'	24-30"					
10	+11.0'	24-30"				WB end	
11	+10.5'	30-36"				Existing	
12	+10.5'	30-36"					
13	+10.0'	36-42"		Y			
14	+10.0'	36-42"					
15	+9.5'	42-48"					
16	+9.5'	42-48"					
17	+8.5'	48-60"					
18	+8.5'	48-60"					
19	+8.0'	60-66"					
20	+8.0'	60-66"				Existing	
21	+7.5'	66-72"	Y	Y		RB	
22	+7.5'	66-72"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/2/2011

LOCATION Flood Side

STATION # 27+46

START TIME 4:30 PM

END TIME fin. 5:00 PM

WEATHER sunny & breezy

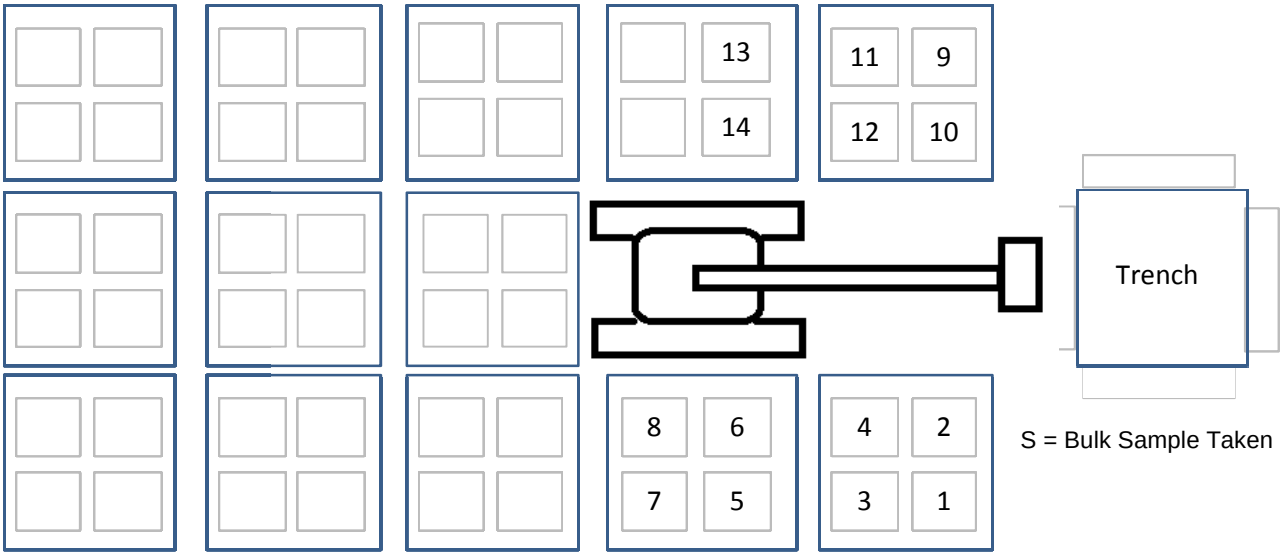
OFFSET FROM C/L 81'

TOP ELEV 14.8

ORIG GROUND ELEV 10.08

DEPTH 4'

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	◊	0-6"					◊ No GPS for surveyor
2		0-6"					
3		6-12"					odd # flood side of trench
4		6-12"					even # protected side of trench
5		12-18"					
6		12-18"					
7		18-24"					south side of trench = odd #'s
8		18-24"	GY	Y	OBJ		wet, stiff clay; dark gray, small wood pieces
9		24-30"					large piece of gravel, probably limestone
10		24-30"					
11		30-36"				RB	
12		30-36"					
13		36-48"	GYY				2" x 6" wood piece, noted in small wood pieces in wet, organic clay
14		36-48"	Y	Y			wet clay

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

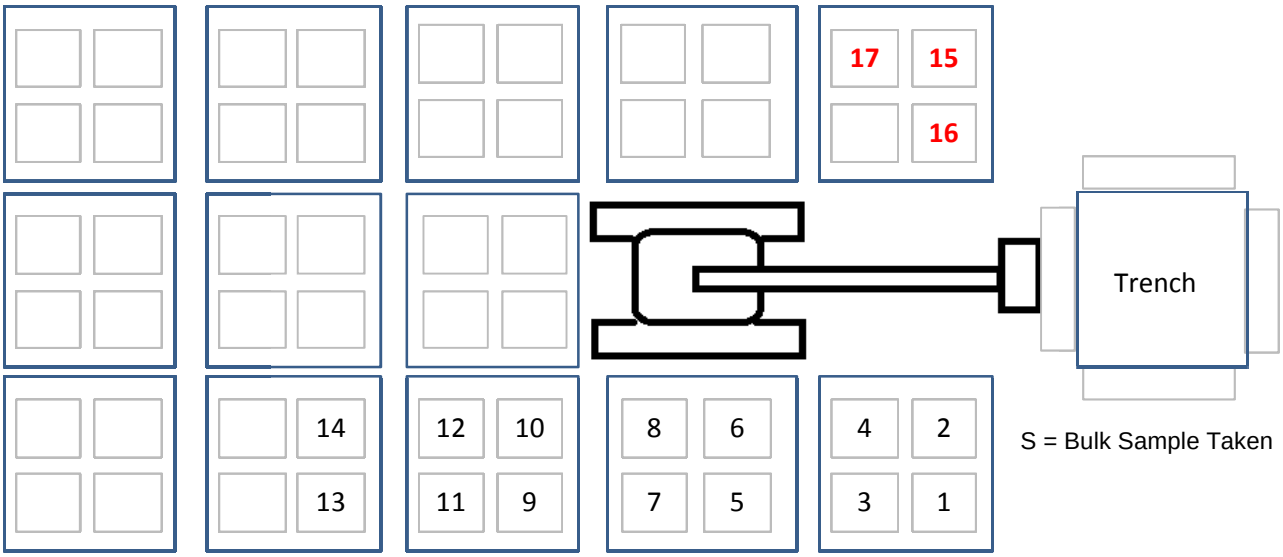
INSPECTOR: Michael Merritt
DATE: 11/2/2011
LOCATION: Flood Side

STATION #: 29+50
START TIME: 3:11PM
END TIME:
WEATHER:

OFFSET FROM C/L: 13'
TOP ELEV: +11.5 levee slope est
ORIG GROUND ELEV: +3.4
DEPTH: 5.5'

N 506579.27
E 3656859.43

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1		0-6"	Y		near OBJ		1" X 6"
2		0-6"		Y			wet clay below dry
3		6-12"	Y	Y		LD	
4		6-12"		Y	OBJ	LD	10" X 10" X 6" rock
5		12-18"	Y			LD	2" x 6" rock
6		12-18"				LD	
7		18-24"				LD	wet, dark gray-black clay
8		18-24"				LD	tearing up
9		24-30"	Y			LD	
10		24-30"			shell	LD	
11		30-36"	Y	YY		LD	not pullup (lean?)
12	+8.5	30-36"		YYY		LD	
13	+7.0	36-54"	Y	YY		RB	dark gray - black
14	+7.0	36-54"	Y			RB	2' x 10"
15	+6.5	54-60"	Y	YY	near OBJ	RB	samples destroyed
16	+6.5	54-60"	Y	YYY	OBJ	RB	samples destroyed
17	+6.0	60-66"	Y	YYYYY		RB	2 x 6 hidden; samples destroyed
18	+6.0	60-66"				RB	

TRENCH WALL OBSERVATIONS seepage:
sand stratas:
stability concerns:
good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/2/2011

LOCATION Flood Side

STATION # 32+29

START TIME 1:43 PM

END TIME

WEATHER sunny, clear & breezy

OFFSET FROM C/L 110'

TOP ELEV +4.2

ORIG GROUND ELEV +0.9

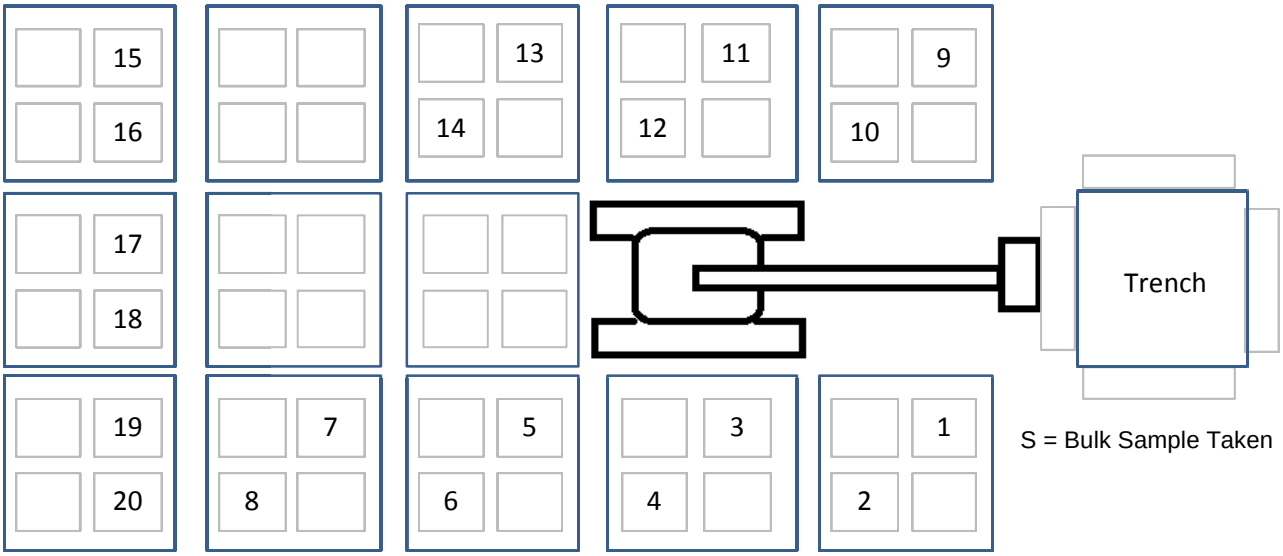
DEPTH 5'

N 506 429.82

E 365 7113.7

N

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+3.7	0-6"					
2	+3.7	0-6"	Y				brown and compacted
3	+3.2	6-12"	Y	YY			more moisture (slicker)
4	+3.2	6-12"	Y G	Y			gouge of objectionable diameter
5	+2.7	12-18"	YYY	Y			
6	+2.7	12-18"	Y	Y	near OBJ		left heel prints in soft clay floor
7	+2.2	18-24"	Y G	YY			1" x 6" wood piece
8	+2.2	18-24"		Y			
9	+1.7	24-30"	YY	Y	OBJ		gray and uncompacted
10	+1.7	24-30"	Y	YY			1" x 6" gray clay
11	+1.2	30-36"	Y	YY	OBJ		1.25" x 6" wood in gray clay
12	+1.2	30-36"	Y	Y	roots		
13		36-42"	Y	Y		fat clay	roots in floor; wet clay "pops"
14		36-42"					
15		42-48"					presumed natural material
16		42-48"	YYYY		OBJ		
17		48-54"		Y			hear gravel; found debris (terra cotta)
18		48-54"	YYYY		OBJ		log and black, organic material
19	-0.8	54-60"					
20	-0.8	54-60"			OBJ		metal lamp shade, bracket; wet clay

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/2/2011

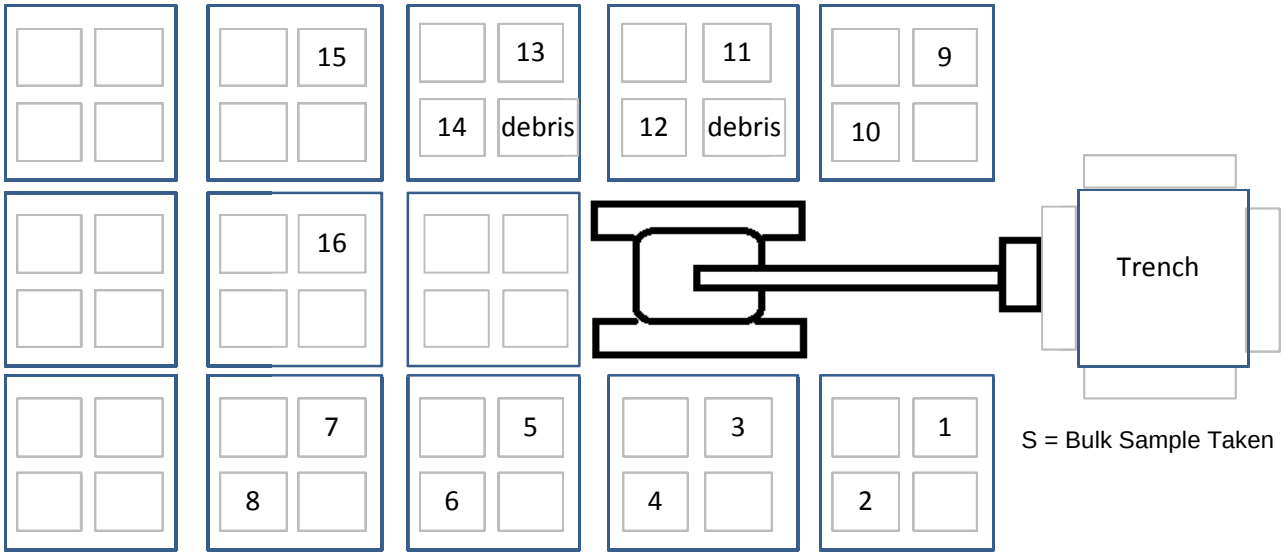
LOCATION Protected Side

N 506580.7
E 3657646.8

STATION # 37+29
START TIME 11:24 AM
END TIME 12:25 PM
WEATHER sunny & windy

OFFSET FROM C/L 139'
TOP ELEV +2.9
ORIG GROUND ELEV +0.4
DEPTH 4'

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1E	+2.4	0-6"				WB	slick, firm, gray clay
2W	+2.4	0-6"					
3E	+1.9	6-12"	Y				
4W	+1.9	6-12"		Y			
5E	+1.5	12-18"					
6W	+1.5	12-18"					
7E	+0.9	18-24"					
8W	+0.9	18-24"	Y	Y			
9E	+0.4	24-30"					wet, entire bucket fell as a slab
10W	+0.4	24-30"					
11E	-0.1	30-36"					debris field begins
12W	-0.1	30-36"					metal pipe, large concrete chunk
13E	-0.6	36-42"					angle iron, car tire
14W	-0.6	36-42"			Y		wood, concrete, rebar, wire, metal, rubber
15E	-1.1	42-48"			Y		shoe, chunks of concrete
16W	-1.1	42-48"			Y		14" tire

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/2/2011

LOCATION Flood Side

STATION # 39+90

START TIME 10:15 AM

END TIME

WEATHER 65° & sunny

OFFSET FROM C/L 120'

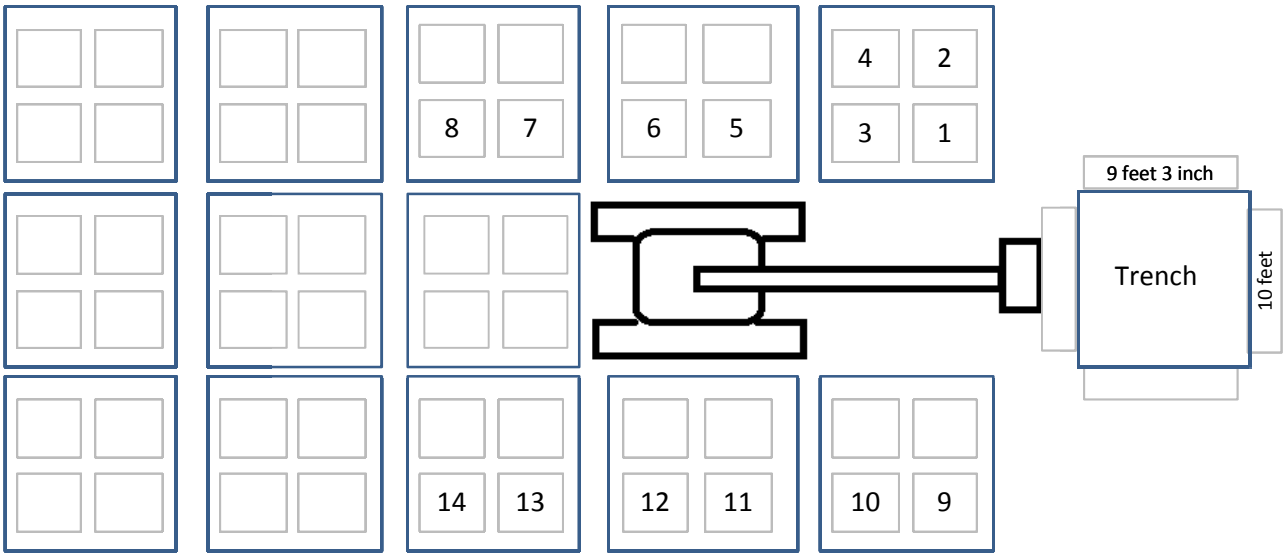
TOP ELEV 13.8

ORIG GROUND ELEV 10.4

DEPTH 3' - 5'

N

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+3.2'	0-6"					lt. gray, uncompacted clay
2	+3.2'	0-6"					
3	+2.8'	6-12"					
4	+2.8'	6-12"					
5	+2.8'	6-12"					
6	+2.3'	12-18"		Y			
7	+2.3'	12-18"		YY			clay popping noise not counted
8	+1.2'	18-30"					
9	+1.2'	18-30"					
10	+1.8'	24-30"					
11	+1.2'	30-36"					
12	+1.2'	30-36"					
13	+0.8'	36-42"					
14	+0.8'	36-42"					thumb to 1st joint (est. 500 lbs/sf)
15	+0.3	42-48"		Y			
16	+0.3	42-48"					
17	-0.8	48-54"					
18	-0.8	48-54"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/2/2011

LOCATION Flood Side

STATION # 40+51

START TIME 8:12 AM

END TIME

WEATHER

OFFSET FROM C/L 28'

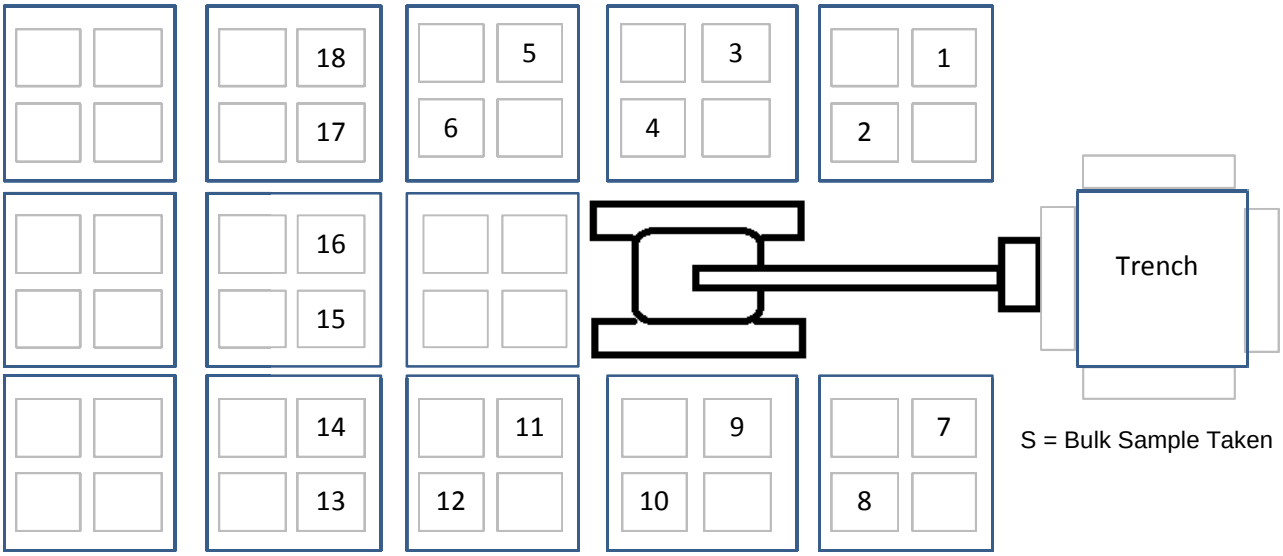
TOP ELEV +6.4'

ORIG GROUND ELEV

DEPTH 5'

DIMENSIONS

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+5.9	0-6"	G	YY	OBJ		clay is slick, fat & peels up
2	+5.9	0-6"	Y	YYY			
3	+5.4	6-12"	Y	YYY			
4	+5.4	6-12"		YY			
5	+4.9	12-18"	G	YY			
6	+4.9	12-18"	YYY	YYY		RB	1" diameter wood; clay fat, slick, slabby
7	+4.4	18-24"		YYY		existing	
8	+4.4	18-24"	Y	YY	OBJ		
9	+3.9	24-30"	Y	YYY	OBJ		clay 2-3' deep has iron stain
10	+3.9	24-30"	Y	YYY			
11	+3.4	30-36"	YYY	YYY			
12	+3.4	30-36"	Y	Y	OBJ		objectional diameter wood called "thin"
13	+2.7	36-44"		YY			
14	+2.7	36-44"					
15	+2.4	44-48"					tears up "rough" (like leaner clay)
16	+2.4	44-48"	YY	Y	OBJ		1" x 14"
17	+1.8	48-55"		YY			
18	+1.8	48-55"		YY			
19	+0.8	55-67"					
20	+0.8	55-67"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/27/2011

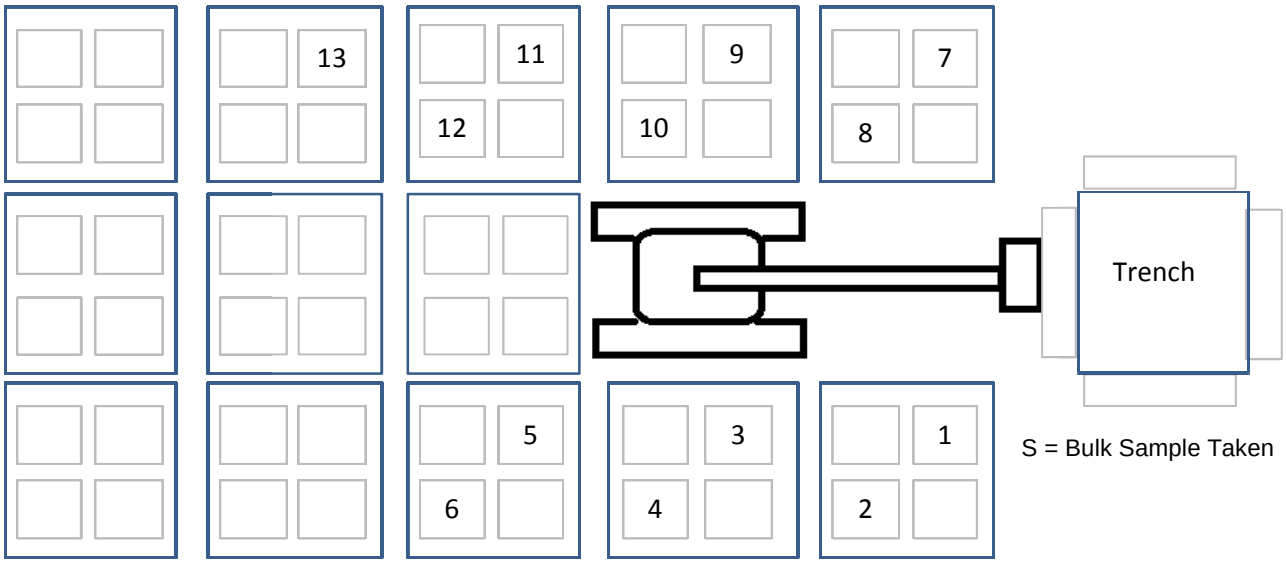
LOCATION Center Line

STATION # 66+88
START TIME 16:55
END TIME
WEATHER

OFFSET FROM C/L none
TOP ELEV +13.5'
ORIG GROUND ELEV +14.6'
DEPTH 3.5'

N 505 807.9
E 366 0414.5

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13'	0-6"					lean, dry clay
2	+13'	0-6"	Y				brown clay
3	+12.5	6-12"					fat, very dry clay
4	+12.5	6-12"					
5	+12.0'	12-18"		YY			light brown clay
6	+12.0'	12-18"	G	Y			
7	+11.5'	18-24"	Y	YY	OBJ	very dry	1/2" diameter wood, hard digging
8	+11.5'	18-24"					
9	+11.0'	24-30"					
10	+11.0'	24-30"					
11	+10.5'	30-36"	Y	Y			
12	+10.5'	30-36"		Y		RB	RB: slick, dark gray clay "CH"
13	est. +10'	36-44"		Y			
14							
15							
16							
17							
18							
19							
20							

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/27/2011

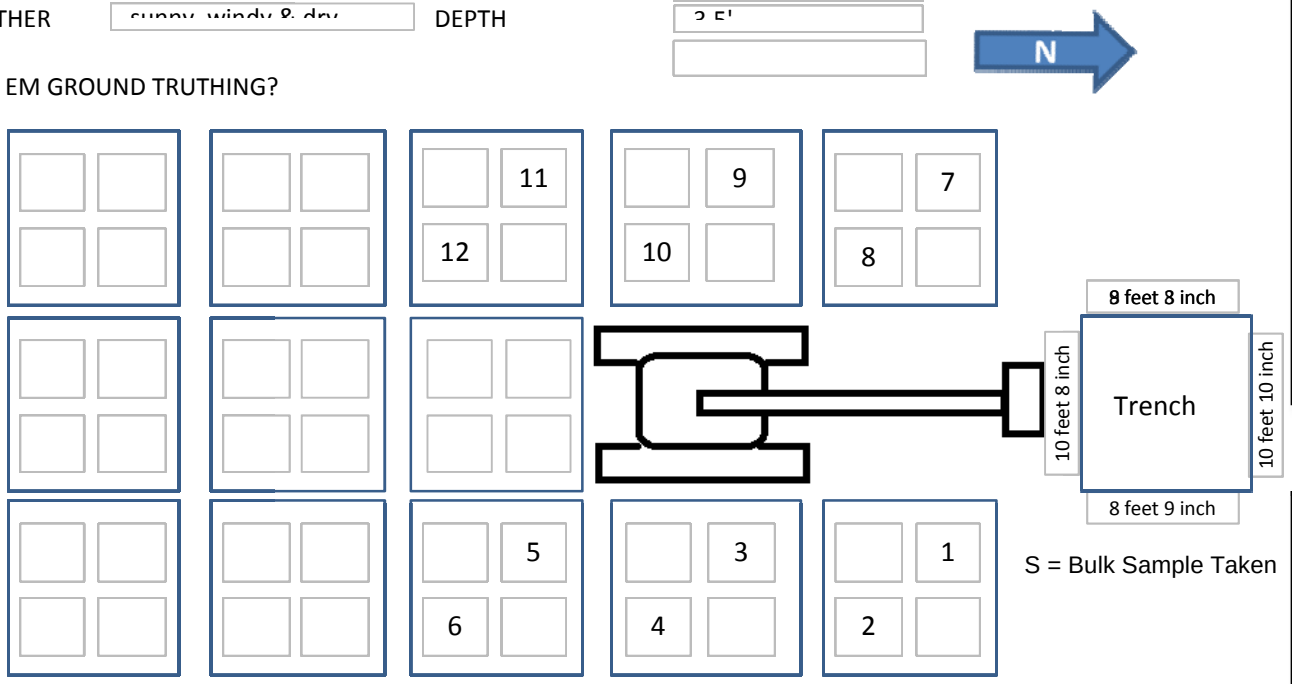
LOCATION Center Line

STATION # 70+00
START TIME 16:04
END TIME 16:45
WEATHER sunny, windy & dry

OFFSET FROM C/L none
TOP ELEV +13.5'
ORIG GROUND ELEV +5.0'
DEPTH 3.5'

N 505 653.7 - CHECK
E 366 0659.7

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+12.5'	0-12"					
2	+12.5'	0-12"					
3	+12.0'	12-18"					
4	+12.0'	12-18"					
5	+11.5'	18-24"					est. 1600 lbs/ft sq
6	+11.5	18-24"					
7	+11.0'	24-30"					
8	+11.0'	24-30"					
9	+10.5'	30-36"					
10	+10.5'	30-36"	YY	Y	Y		9" long 1 1/2" wood
11	+10.0'	36-42"					
12	+10.0'	36-42"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/27/2011

LOCATION Center Line

STATION # 97+00

START TIME 2:20 PM

END TIME

WEATHER sunny

OFFSET FROM C/L NONE

TOP ELEV +13.6'

ORIG GROUND ELEV +14.6'

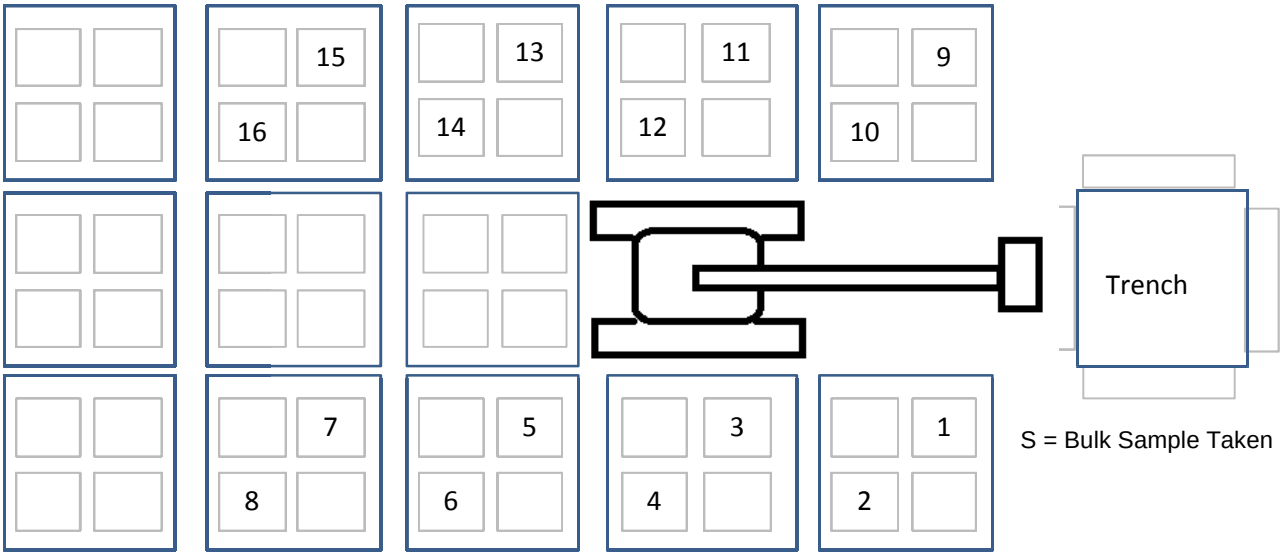
DEPTH 4'

N 503 056.18

E 365 9919.12

N

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13.1'	0-6"				RB	
2	+13.1'	0-6"					
3	+12.6'	6-12"	Y		OBJ		shells and slick clay
4	+12.6'	6-12"					
5	+12.1'	12-18"					
6	+12.1'	12-18"	Y	Y			
7	+11.5	18-24"	Y		YES		small dry wood; white "powder" on clay, brick and rock
8	+11.5	18-24"	Y			WB?	
9	+11.0	24-30"					
10	+11.0	24-30"					
11	+10.5	30-36"					
12	+10.5	30-36"	Y		stone	old levee	
13	+10.0'	36-44"					1/2 thumbnail in (est 1500 lbs/sf)
14	+10.0'	36-44"					lean, crumbly & light brown clay
15	+9.5'	44-48"					2" wide wood near obj size
16	+9.5'	44-48"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/27/2011

LOCATION Protected Side

STATION # 104+51

START TIME 1:30 PM

END TIME

WEATHER partly cloudy

OFFSET FROM C/L +149'

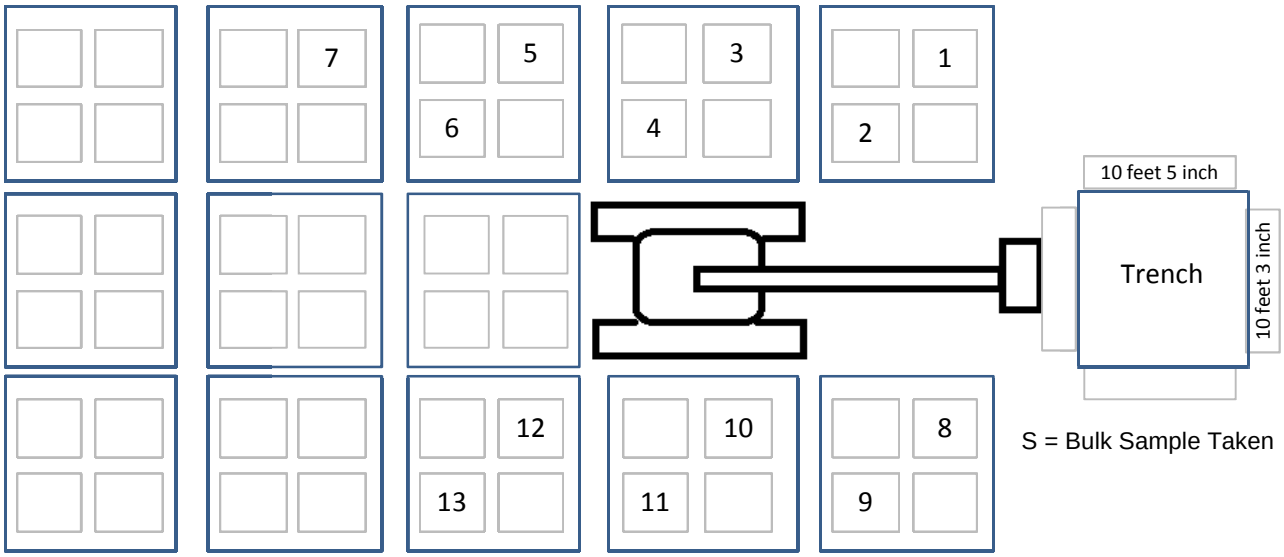
TOP ELEV +2.5'

ORIG GROUND ELEV 1.0

DEPTH 4'

N 502 293.62
E 365 9879.77

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+2.0'	0-6"					crumbly texture; dark brown clay
2	+2.0'	0-6"	YYY	Y			leaner than RB
3	+1.5'	6-12"					
4	+1.5'	6-12"					
5	+1.0'	12-18"	YY	Y			
6	+1.5'	12-18"		Y	metal		5" x 5" metal plate = geophysical anomaly
7	+1.0'	0-18"		Y			extend trench (0-18" sample)
8	+0.5'	18-24"				RB	darker clay
9	+0.5'	18-24"					
10	0 (SL)	24-30"	Y				
11	0 (SL)	24-30"	YY	YY	2 OBJs		
12	-0.5'	30-36"	Y		OBJ		
13	-0.5'	30-36"		YYY			
14	-1.5'	36-48"		YYYY			
15	-1.5'	36-48"	YYYYG	Y	OBJ		

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

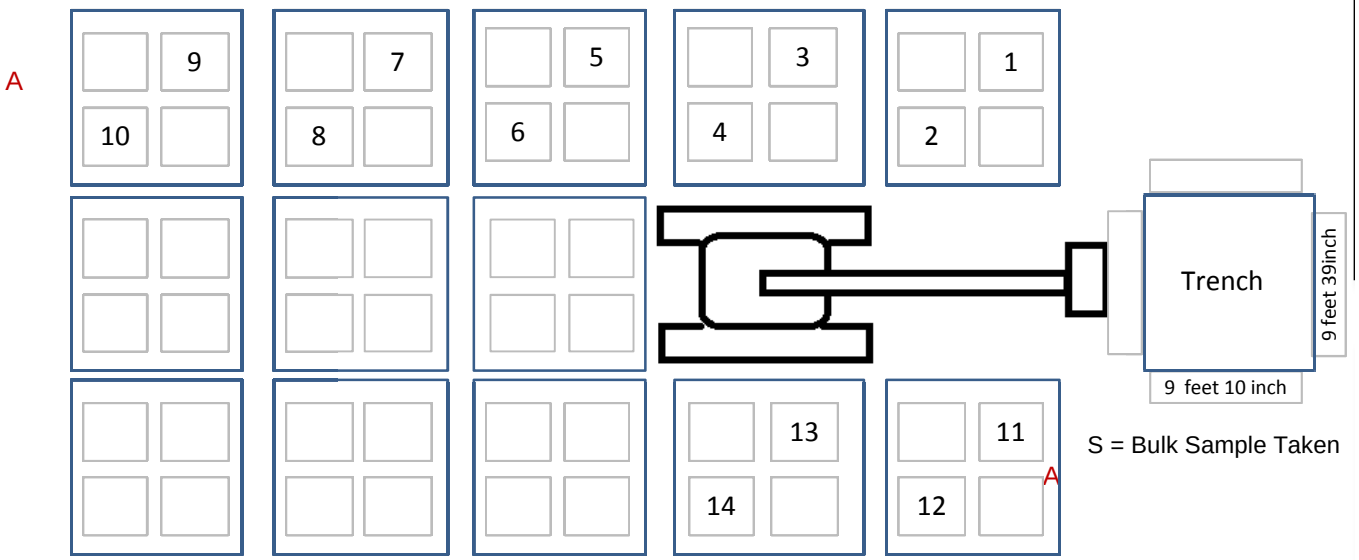
INSPECTOR Michael Merritt | DATE 10/27/2011 | LOCATION Protected Side

STATION # 108+18
START TIME 11:13 AM
END TIME 11:46 AM
WEATHER partly cloudy

OFFSET FROM C/L 60'
TOP ELEV 15.0'
ORIG GROUND ELEV 17.6'
DEPTH

N 501957.99
E 365 9705.98

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1W	+4.5'	0-6"	Y	Y	OBJ		light gray clay
2E	+4.5'	0-6"	G	Y	OBJ		in wall
3W	+4.0'	6-12"	Y	Y			**all elevations: *sic***
4	+4.0'	6-12"		YY			
5	+3.5'	12-18"					
6	+3.5'	12-18"		YY			clay change color: tan to lt brown & leaner
7	+2.75'	18-27"					fossil
8	+2.75'	18-27"					
9	+2.9'	27-31"					
10	+2.9'	27-31"		YY			
11	+2.4'	31-36"					
12	+2.4'	31-36"					
13	+2.0'	36-42"					
14	+2.0'	36-42"					
15	+1.5'	44-48"	Y	Y	OBJ		
16							ended by Pat & Jas before cut last 6"

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/4/2011

LOCATION Protected Side

STATION # 109+30

START TIME 9:27 AM

END TIME

WEATHER sunny, breezy & cool

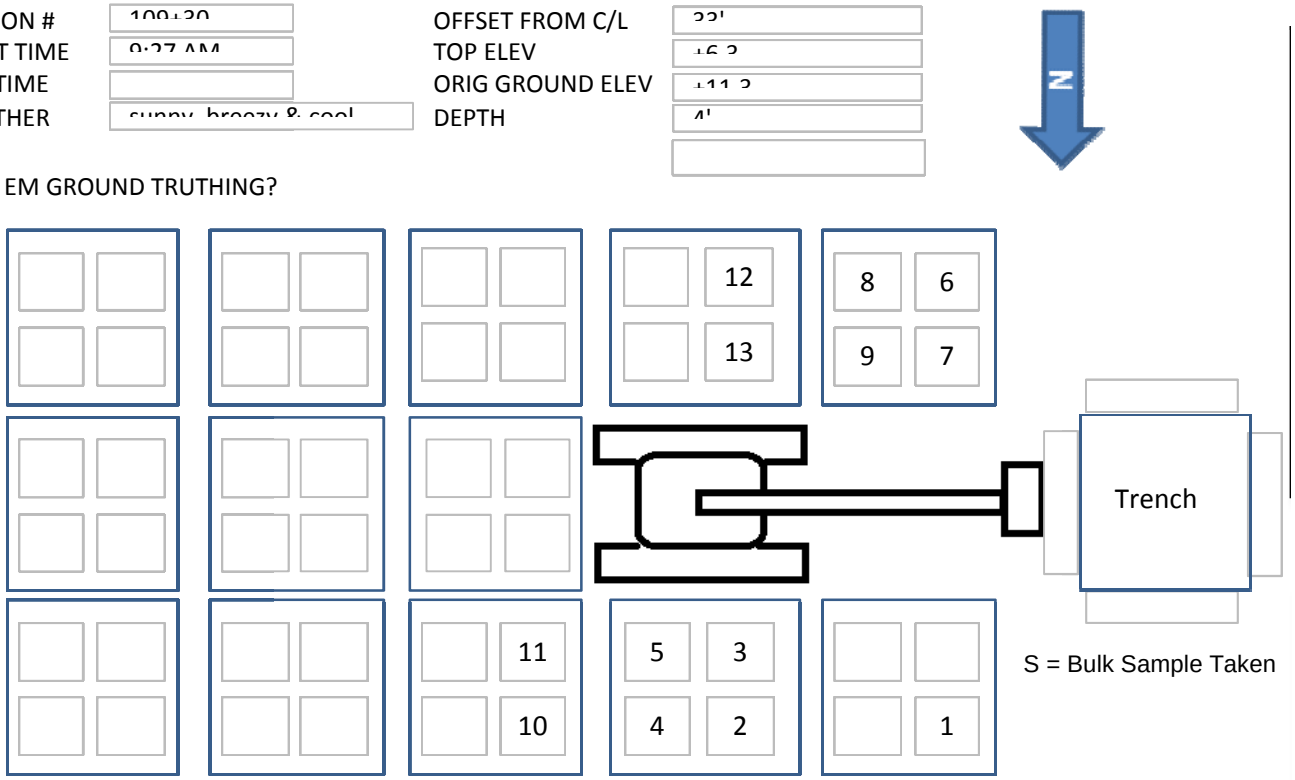
OFFSET FROM C/L 33'

TOP ELEV +6.3

ORIG GROUND ELEV +11.3

DEPTH 4'

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+6.3'	wedge	YYY	Y	wood		wood debris visible on surface
2N		0-6"					**elevations *sic***
3S		0-6"					
4N		6-12"					
5S		6-12"		Y	concrete		sounds like concrete
6N		12-18"					wood "sliced"
7S		12-18"			Y		debris (?) looks like concrete in soil
8N	+2.5'	18-24"					
9S	+2.5'	18-24"					
10N	+3.0'	24-30"					
11S	+3.0'	24-30"	Y		OBJ		roots - 2" x 2'
12N	+2.5'	30-36"	Y				2" X 8" wood & iron stain, tan clay
13S	+2.5'	30-36"					iron stain, tan clay

Terminated early - no consultation. Tiger Team NFS observation interference

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

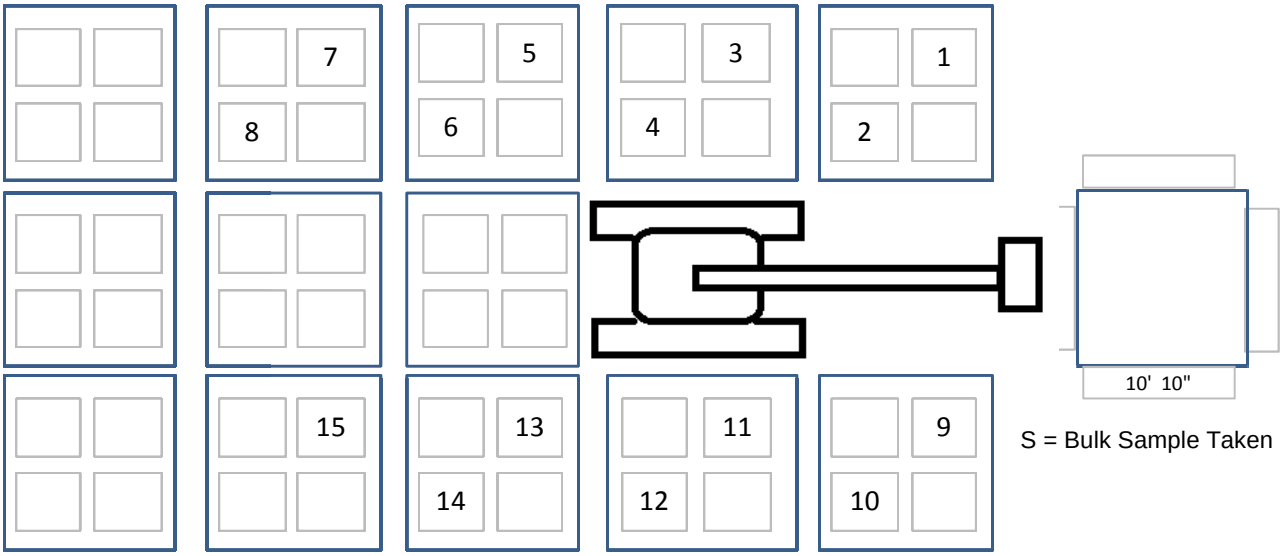
INSPECTOR: Michael Merritt
DATE: 10/27/2011
LOCATION: Protected Side

STATION #: 120+39
START TIME: 9:20 AM
END TIME:
WEATHER:

OFFSET FROM C/L: 63'
TOP ELEV: +6.5
ORIG GROUND ELEV: +9.6
DEPTH: 4'

N 501118.41
E 3660001.57

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1		0-6"	Y				
2		0-6"	Y	Y	OBJ		small wood
3		6-12"					
4		6-12"	YY	YY	Y		wood
5		12-18"	Y		OBJ		big log and more small wood
6		12-18"	Y	YY			
7		18-24"	YY		Y		brick
8		18-24"					
9		24-30"	Y		OBJ		wood of objectional size
10		24-30"		YY			
11	+3.5'	30-36"	YY		2 OBJ		2 pieces obj wood in <2 cubic yds material
12	+3.5'	30-36"					brick color
13	+3.0'	36-42"					
14	+3.0'	36-42"			cobble		dark gray LS cobble, FeO_2 stain
15		42-48"					
16		42-48"		YYYY		very soft clay	shells crunching; thumb all in (estimate 250 psf)

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/27/2011

LOCATION Protected Side slope

STATION # 121+46

START TIME 7:40 PM

END TIME

WEATHER sunny

OFFSET FROM C/L 15' (middle of trench)

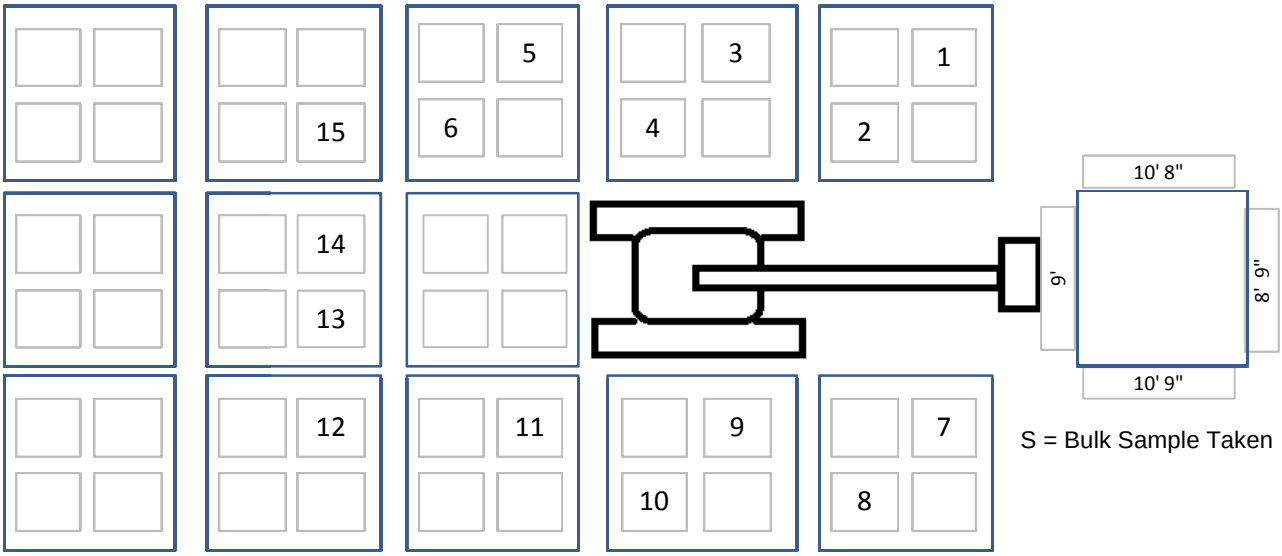
TOP ELEV +10.8 ft

ORIG GROUND ELEV +8 ft

DEPTH 4.5 ft, slanted pit floor

N

EM GROUND TRUTHING? NO



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+11.1-8.9	0-6"	Y	Y	OBJ	RB	1 wood piece obj size
2	+11.1-8.9	0-6"	Y	Y	metal		metal hook
3	+10.7-8.9	6-12"	N	N			
4	+10.7-8.9	6-12"	N	N			
5	+10.1-7.9	12-18"	N	N			
6	+10.1-7.9	12-18"	N	N	OBJ		
7		0-18"					mixture of 0-18"
8	+9.7-7.4	18-24"					muddy, sticky clay
9	+9.7-7.4	18-24"			OBJ	existing levee	firewood size
10	+9.1-6.6	24-30"					
11	+9.1-6.6	24-30"					
12		30-36"					
13		30-36"		Y			
14	+8.1-5.7	36-42"					
15	+8.1-5.7	36-42"	GY			WB	very soft clay, thumb all in (est. <600 psf)
16		36-42"	YY				

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/26/2011

LOCATION Center Line

STATION # 136+07

START TIME 3:45 PM

END TIME

WEATHER

OFFSET FROM C/L none

TOP ELEV +13.5

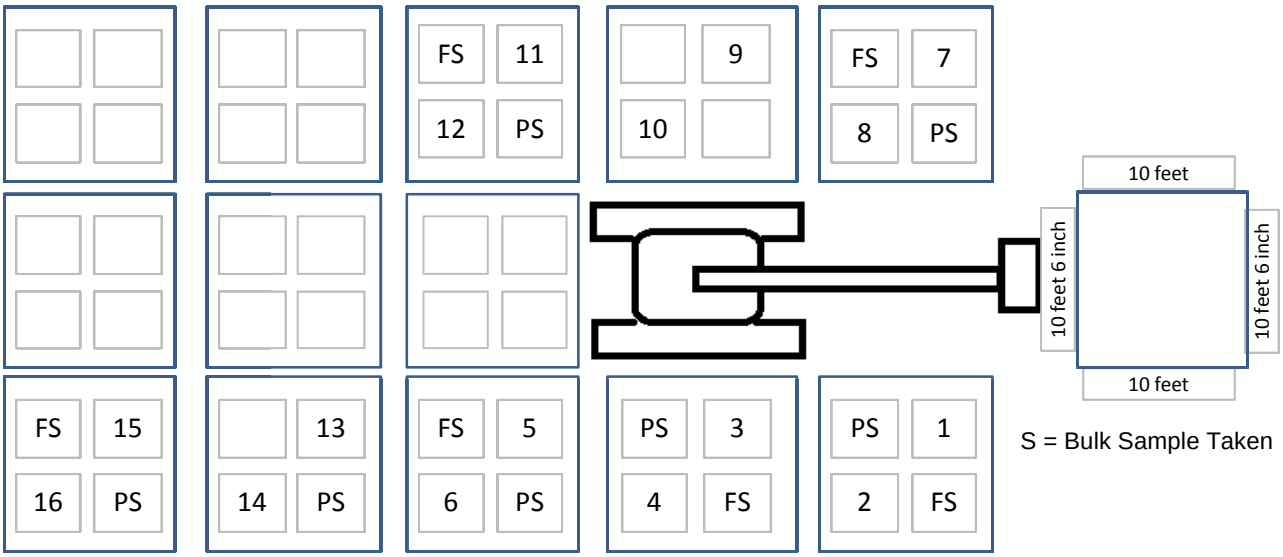
ORIG GROUND ELEV +5.8

DEPTH 4'

N

N 500937.9
E 366 1559.7

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13.5'	0-6"	Y		OBJ	RB	log 6" x 6" x 1 ft long and wood
2	+13.5'	0-6"			levee degrade		
3	+13.0'	6-12"					lean & silty clay
4	+13.0'	6-12"	Y	Y shell	wood		1" X 20" piece wood
5	+12.5'	12-18"					
6	+12.5'	12-18"	Y	Y		concrete	sharp hit; sounds like rock
7	+12.0'	18-24"				WB	gravel or shells
8	+12.0'	18-24"					shells
9	+11.5'	24-30"					
10	+11.5'	24-30"	Y	YY			slightly leaner clay
11	+11.0'	30-36"					
12	+11.0'	30-36"					
13	+10.5'	36-42"	Y	Y			others: looks like RB
14	+10.5'	36-42"					
15	+10.0'	42-48"	Y		wood		2" X 6" X 1.5'
16	+10.0'	42-48"					
17	+9.5'	48-54"					tearing like leaner clay (not silt)
18	+9.5'	48-54"					resistive anomaly not found

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/28/2011

LOCATION Protected Side

STATION # 141+46

START TIME 7:59 AM

END TIME 8:52 AM

WEATHER clear, sunny, rain coming

OFFSET FROM C/L 118

TOP ELEV 15.5

ORIG GROUND ELEV 12.8

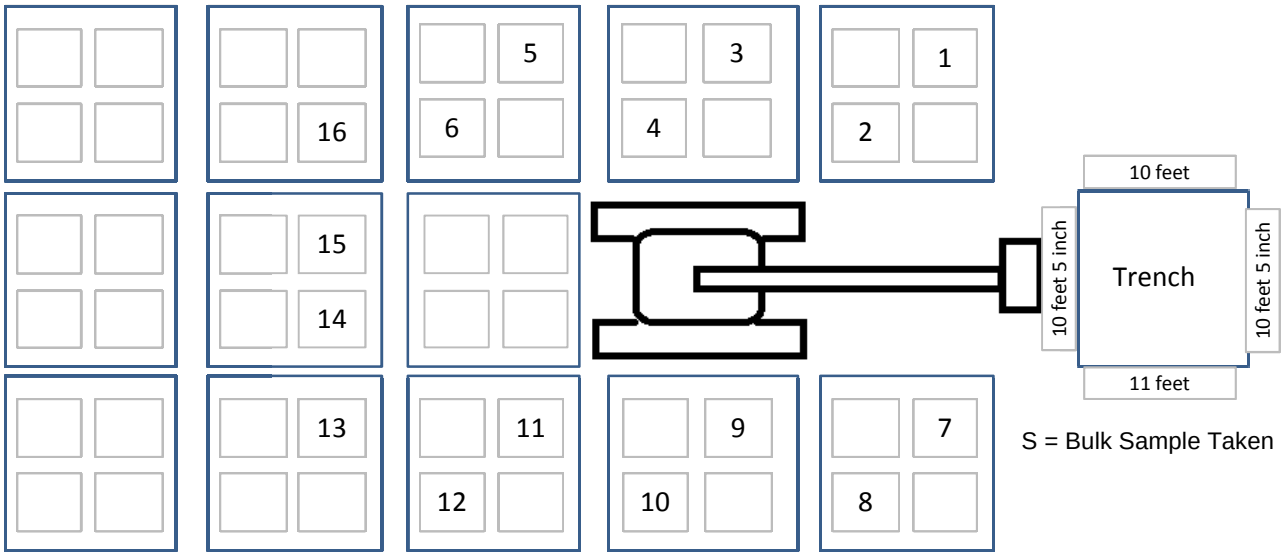
DEPTH

N 501016.0

E 3662107.02

N

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+5.0	0-6"		Y			curl ups
2	+5.0	0-6"					
3	+4.5	6-12"	Y	YY			small wood
4	+4.5	6-12"		Y			
5	+4.0	12-18"					
6	+4.0	12-18"					
7	+3.5	18-24"					crumbly, drier; very light brown clay
8	+3.5	18-24"					
9	+3.0	24-30"	YY	YY			start to see slicker clay
10	+3.0	24-30"		YY			very slick clay
11	+2.5	30-36"					
12	+2.5	30-36"	Y	YY			small wood pieces
13	+2.0	36-42"				levee fill	very slick clay - wavy surface
14	+2.0	36-42"				levee fill	very slick clay - wavy surface
15	+1.5	42-48"					very slick clay - wavy surface
16	+1.5	42-48"					very slick clay - wavy surface

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE Nov. 4, 2011

LOCATION Flood Side

STATION # 154+50

OFFSET FROM C/L +12.0'

START TIME

TOP ELEV

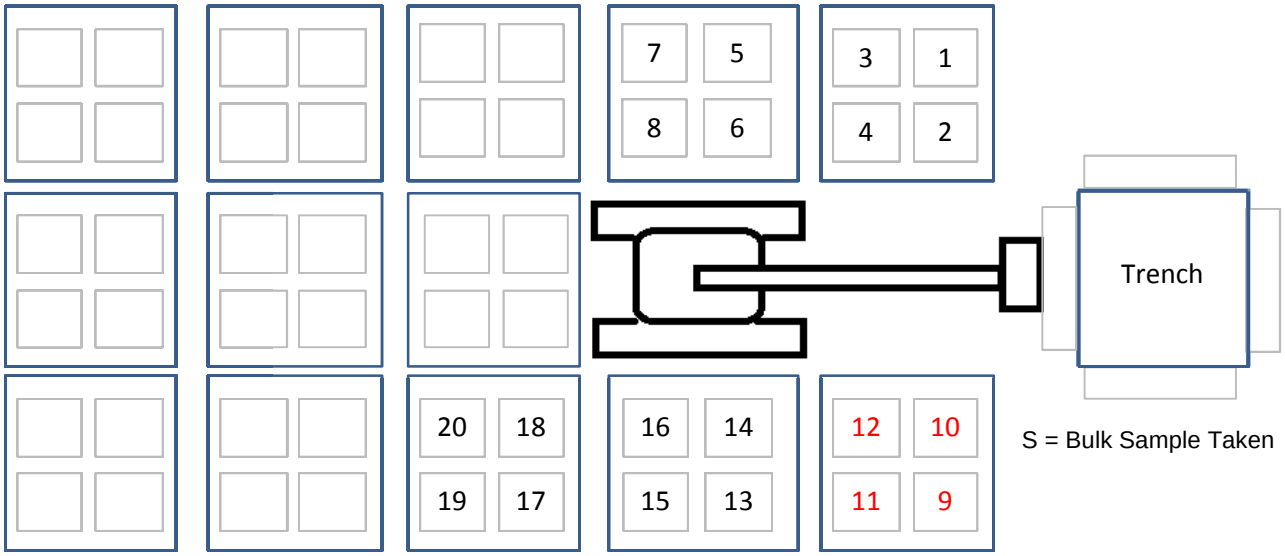
END TIME

ORIG GROUND ELEV

WEATHER

DEPTH

EM GROUND TRUTHING?



BUCKET	ELEVATION	EST. DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1		0-6"					access blocked, (incomplete) info per team
2		0-6"	Y				2.5" X 10" wood piece
3	+10.5	6-12"					**elevations *sic***
4	+10.5	6-12"					
5	+10.0	12-18"		Y			
6	+10.0	12-18"	Y	Y			
7	+9.5	18-24"	Y				
8	+9.5	18-24"	Y				
9	+9.0	24-30"	Y	Y	OBJ		samples destroyed
10	+9.0	24-30"	Y				2.5" X 10" wood - samples destroyed
11	+8.5	30-36"					samples destroyed
12	+8.5	30-36"	Y	Y			1" X 10" wood - samples destroyed
13	+8.0	36-42"	Y	Y			
14	+8.0	36-42"	Y	Y			
15	+7.5	42-48"	Y				
16	+7.5	42-48"	Y	Y			
17	+7.0	48-54"	Y				
18	+7.0	48-54"	Y				
19	+6.5	54-60"	Y				clay still wet
20	+6.5	54-60"	YYYY		wood		1/2" X 8", 1" X 4", 2" X 4" wood & large gravel

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 11/4/2011

LOCATION Center Line

STATION # 162+50

START TIME 11:56 AM

END TIME 12:55 PM

WEATHER sunny & breezy

OFFSET FROM C/L NONE

TOP ELEV +13.6

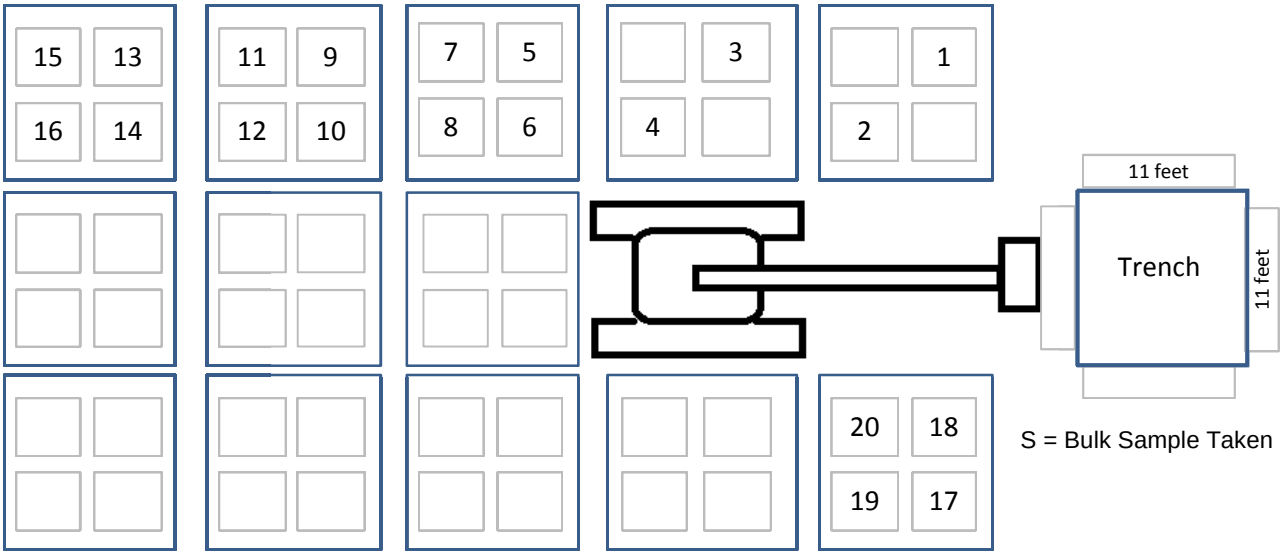
ORIG GROUND ELEV +5.6

DEPTH

N 500 757.6

E 366 4196.3

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13.0'	0-6"					
2	+13.0'	0-6"	Y Y				
3	+12.5'	6-12"	Y	Y			
4	+12.5'	6-12"	Y Y	Y	OBJ		> 1" and > 12" wood
5	+12.0'	12-18"					
6	+12.0'	12-18"	Y	Y			
7	+11.5'	18-24"	Y Y	Y	WD	lean/dry	< 2" X 8" wood; crumbly + light brown material; lean, or dry clay
8	+11.5'	18-24"					
9	+11.0'	24-30"		Y Y			
10	+11.0'	24-30"	G, Y		OBJ		2 1/2" x 8" wood piece; log in floor; plants
11	+10.5'	30-36"	Y Y G		OBJ		
12	+10.5'	30-36"	Y Y Y	Y		slick clay	also heard clay popping; dark gray clay
13	+10.5'	36-42"	Y Y Y Y		OBJ		also near obj size
14	+10.0'	36-42"	G Y Y	Y Y	OBJ		looking for WB below 3 feet; many sticks
15	+9.5'	42-48"	G Y Y Y	Y Y Y	OBJ		
16	+9.5'	42-48"		Y Y		RB	
17	+9.0'	48-54"	Y		OBJ		2 1/2" x 12" wood piece; dark gray clay
18	+8.5'	48-54"				RB	
19	+8.5'	54-60"	Y			WB	clay: color change to light gray clay
20	+8.5'	54-60"	G		WD		light gray clay
21	+8.1'	60- TD*	G	Y Y			
22	+8.1'	60- TD*	Y				1 "bite" for a piece of wood

*TD=Total Depth

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE Oct. 26, 2011

LOCATION Protected side

STATION # 165+09

START TIME 10:50 am

END TIME

WEATHER

OFFSET FROM C/L 10'

TOP ELEV +8.5'

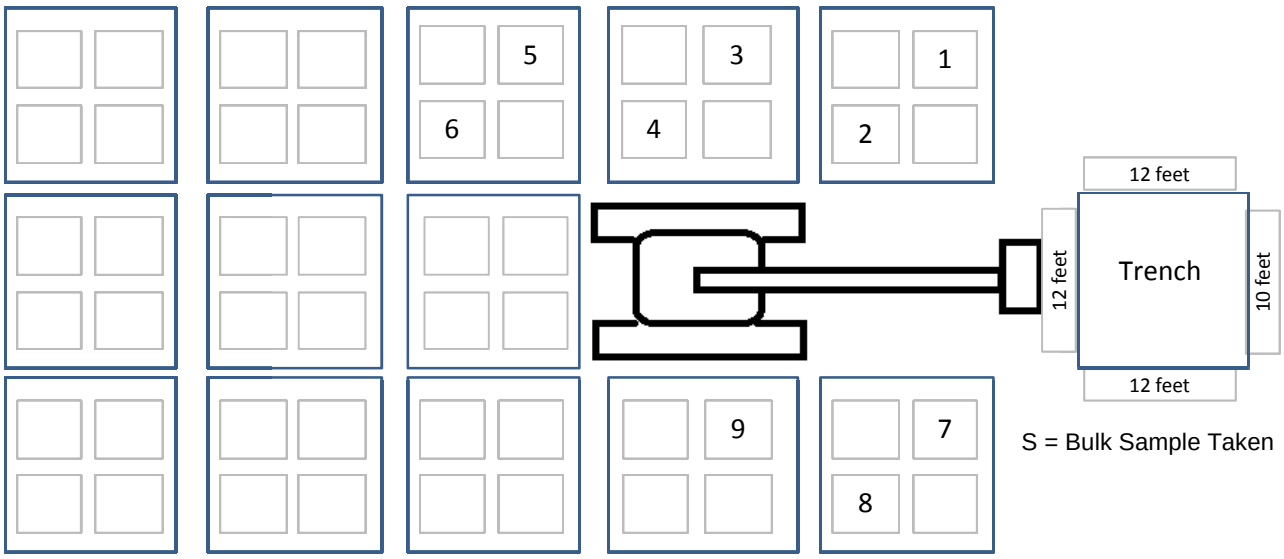
ORIG GROUND ELEV +12.1'

DEPTH

N 500771.4
E 3664456.5

N

EM GROUND TRUTHING?



S = Bulk Sample Taken

BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES: elevation(s) *sic*
1	+9.0'	0-6"					slanted trench floor
2	+9.0'	0-6"					(elev at middle)
3	+8.5'	6-12"	Y				
4	+8.5'	6-12"	YYY	YY			
5	+8.0'	12-18"	YGY	YY		silt	
6	+8.0'	12-18"	Y	YY	OBJ	fat clay	wood; drag bucket
7	+7.5'	18-24"		huge noise	y		heavy concrete
8	+7.5'	18-24"	YY	Y	wood	y	shells
9	+7.0'	24-30"		YY			heavy concrete, brick
10	+7.0'	24-30"					

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE

LOCATION Center line

STATION # 166+90

START TIME 10:50 AM

END TIME

WEATHER

OFFSET FROM C/L

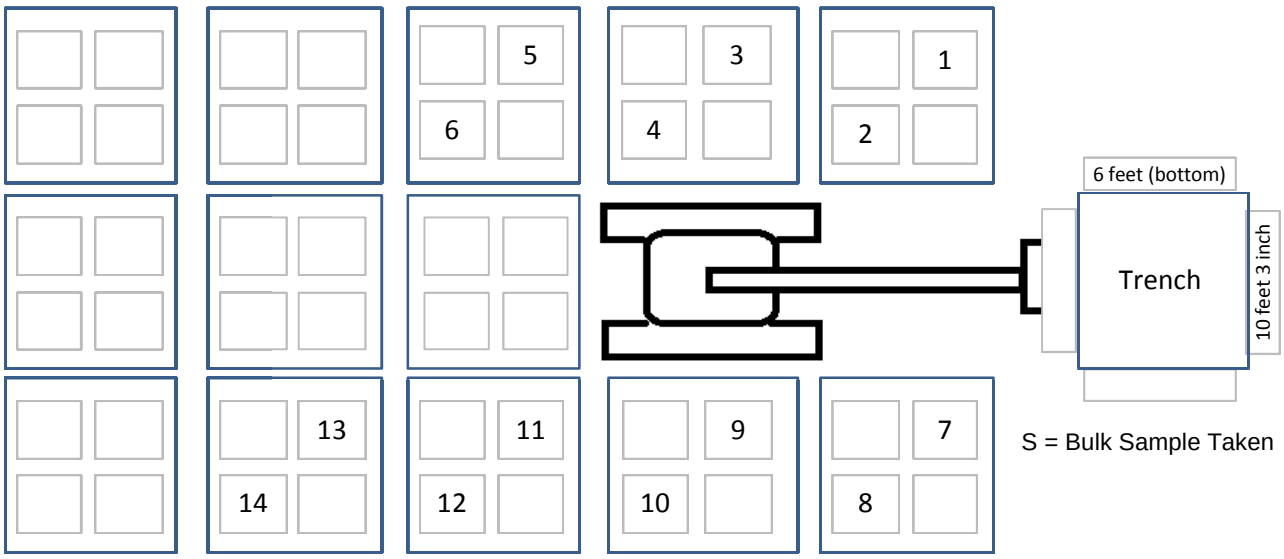
TOP ELEV +13.5

ORIG GROUND ELEV +6.5

DEPTH

N 500729.
E 3664636.

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+13.0'	0-6"					lt gray lean clay "CH"
2	+13.0'	0-6"		YYY			
3	+12.5'	6-12"	YYY	YY			
4	+12.5'	6-12"	Y	Y			drier clay - "silty" appearance
5	+12.5'	6-12"					cleared hole - did not dig deeper
6	+12.5'	6-12"					cleared hole - did not dig deeper
7	+11.5'	12-24"	YY				2 unsuitables
8	+11.5'	12-24"	Y				
9	+11.0'	24-30"	Y	Y			
10	+11.0'	24-30"	Y	Y			
11	+10.6'	30-39"	GY	Y			same as #9 bucket of other inspectors
12	+10.6'	30-39"	Y				color changes to tan, same as #10 bucket of other inspectors
13S	+9.5'	39-42"	YY	YYYYY			
14N	+9.5'	39-42"	GY	YYYY	OBJ		soft clay < 1000#/sf

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/26/2011

LOCATION Protected side

STATION # 172+08

START TIME

END TIME

WEATHER Sunny

OFFSET FROM C/L 55'

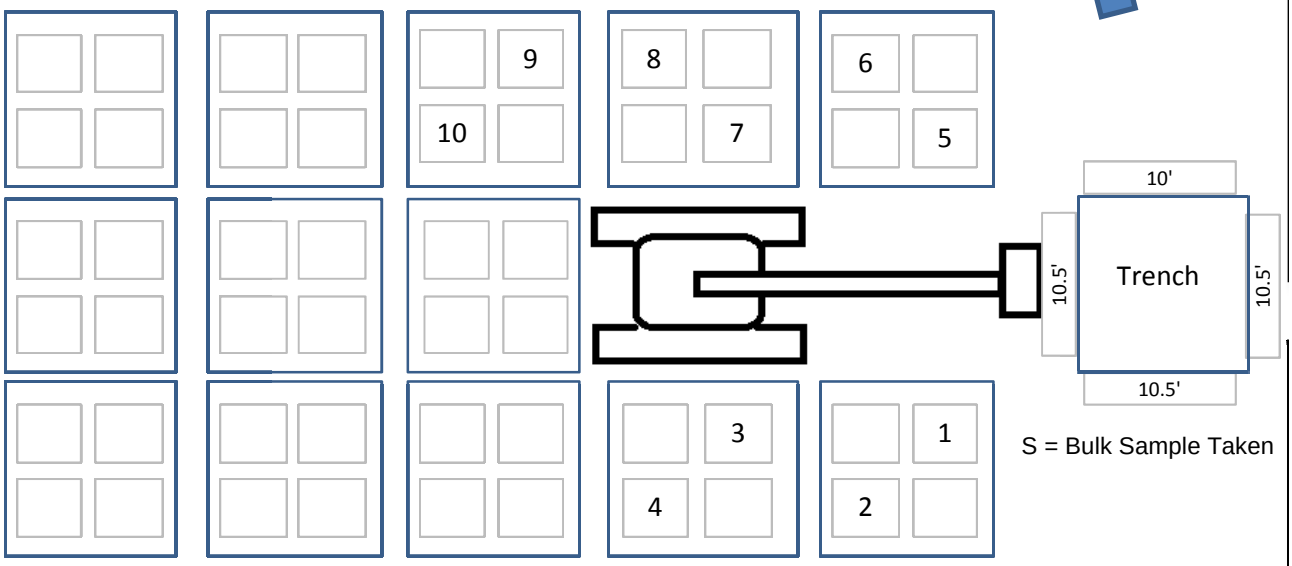
TOP ELEV +7.2'

ORIG GROUND ELEV +9.0 degrade 5.5'

DEPTH 2.5' to 5'

N 500748.26

E 3665156.77



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+6.7'	0-6" E		YY	Y	clay	
2	+6.7'	0-6" W					
3	+6.2'	6-12" E					
4	+6.2'	6-12" W					
5	+5.0'	12-18" E					elev (sic)
6	+5.0'	12-18" W		Y	Y	clay	brick in ground est 1800 psf = strength
7	+4.5'	12-18" E					
8	+4.5'	6 E	GGY			soft	
9	+4.0'	6 W	GYY	YYY			
10	+4.0'	6 E	G	YYYY	infer obj		brick exposed, soft clay <500#/sf
11	+4.0'	6			OBJ		metal shopping cart

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/25/2011

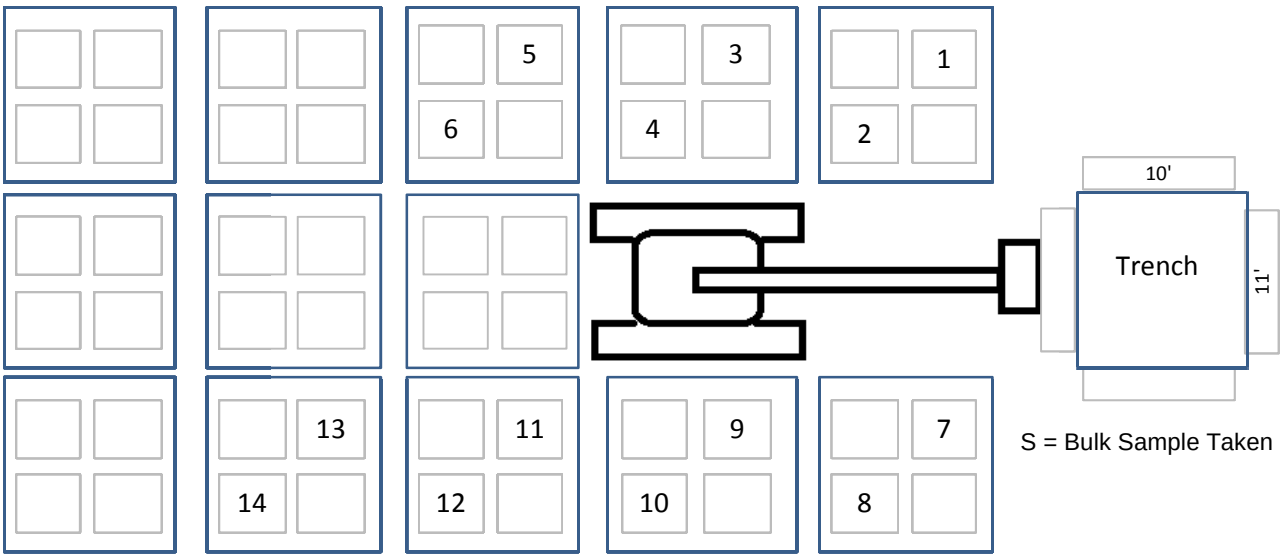
LOCATION Center line

STATION # 174
START TIME 2:55 PM
END TIME 4:15 PM
WEATHER

OFFSET FROM C/L
TOP ELEV +13.6'
ORIG GROUND ELEV +13.0'
DEPTH 46 inches

N 500681.9
E 3665344.4

EM GROUND TRUTHING? Yes



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES: elevations *sic*
1	+13.6'	0-6"				Willow Bend	odd #bucket is on N or PS
2	+13.6'	0-6"	Y				shiny metal; even #bucket is on S or FS
3	+13.0'	6-12"	YY	YYY			
4	+13.0'	6-12"	Y	YY	OBJ		OBJ inferred from gouge
5	+12.6'	12-18"	YYY	YYY		fat clay	brick, wood and gouge
6	+12.6'	12-18"	Y	Y		clay change	not cut smooth, (is silty or drier)
7	+12.0'	18-29"	YYY				
8	+12.0'	18-29"					calcium (white) in clay
9	+11.1'	29-35"	GG	YYYYYY	OBJ	CH	saw 2 gouges; wood log at elev +10.9'
10	+11.1'	29-35"	GYYY	YYYY	OBJ		light and dark clay, gouging
11	+10.6'	35-41"	YYY	YYYY			
12	+10.6'	35-41"	YY				estimated 600#/sf (soft clay)
13	+10.1'	41-46"	YY	YY			
14	+10.1'	41-46"	Y		cable		

mottled, fat, clay in bucket #9

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/25/2011

LOCATION Center Line

STATION # 179+80

START TIME 9:15 AM

END TIME 10:25 AM

WEATHER

OFFSET FROM C/L

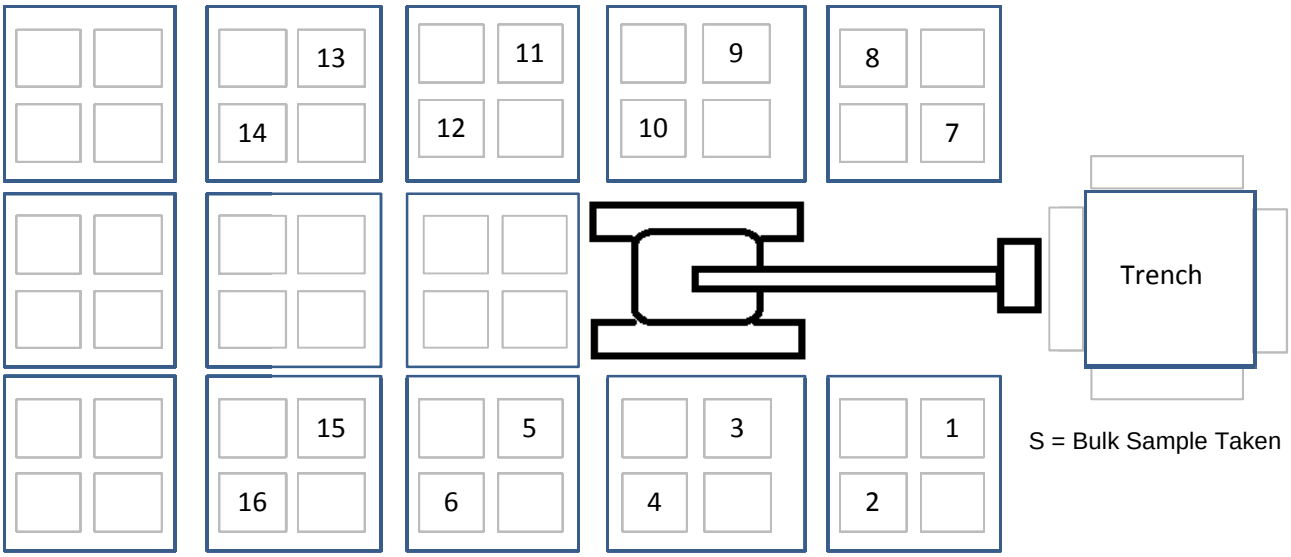
TOP ELEV +13.6'

ORIG GROUND ELEV

DEPTH

DIMENSIONS

EM GROUND TRUTHING?



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1		0-6"					odd #buckets are FS
2		0-6"				clay	dark gray; even #buckets are PS
3		6-12"					
4		6-12"	Y		Y	silt	
5		12-18"	Y		fabric		
6		12-18"	Y		OBJ		wood
7		18-24"					
8		18-24"					
9	+11.6'	24-30"	Y	YYY	Y		
10	+11.6'	24-30"		Y			change to darker color
11	+11.0'	30-36"	Y		stick		
12	+11.0'	30-36"		YYY		River Birch	(expected transition in clay)
13	+10.6'	36-42"	Y	YYY	stick		
14	+10.6'	36-42"	Y	YYY			
15		42-48"	Y	YYYY	OBJ		dark gray color with tan streaks
16		42-48"	YY	YY			
17							
18							clay forms ball
19							
20							NOTE: contractor told: "don't mix from side to side"

TRENCH WALL OBSERVATIONS seepage: stability concerns:

sand stratas: good compaction:

WBV-14c.2 TRENCHING
FIELD REPORT

INSPECTOR Michael Merritt

DATE 10/25/2011

LOCATION Protected Side

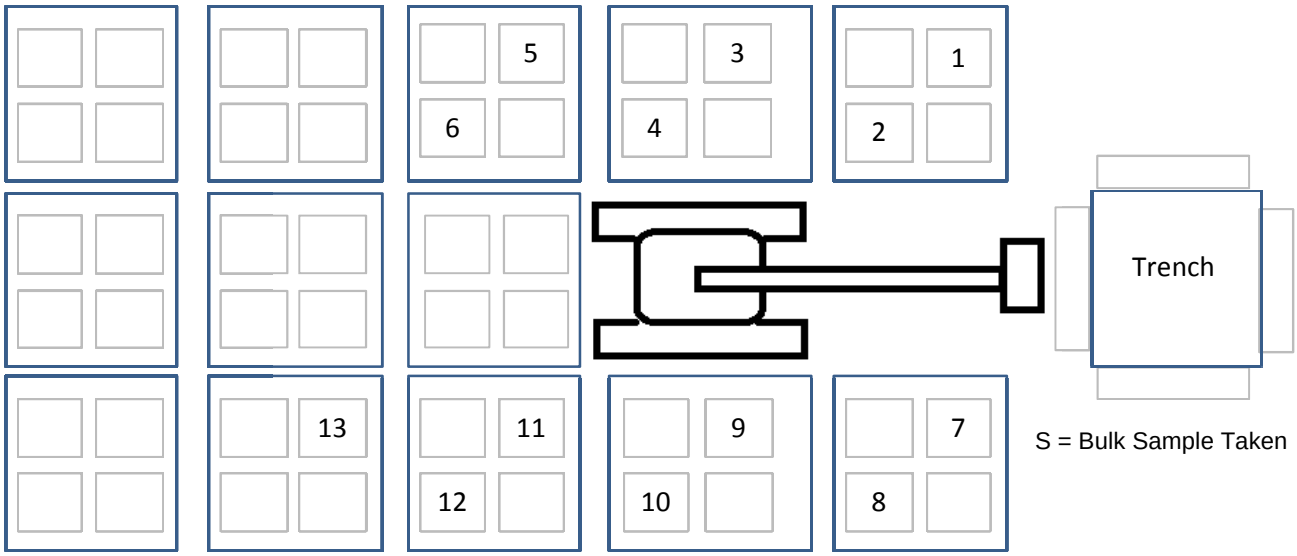
STATION # 180
START TIME 12:00 NOON
END TIME
WEATHER

OFFSET FROM C/L 187.5
TOP ELEV
ORIG GROUND ELEV 13.0'
DEPTH 3'
DIMENSIONS

N 295215.5
W 900706.1

N

EM GROUND TRUTHING? Y



BUCKET	ELEVATION	DEPTH	VISUAL	HEARD	DEBRIS	SOIL TYPE	NOTES:
1	+2.5'	0-6"				River Birch	odd #buckets on West side of trench
2	+2.5'	0-6"					even #buckets on East side of trench
3	+2.0'	6-12"					
4	+2.0'	6-12"	Y	Y	OBJ		
5	+1.5'	12-18"					
6	+1.5'	12-18"		YY			
7	+1.0'	18-24"	Y	YYYYY	Y		
8	+1.0'	18-24"		YY			survey trench
9	+0.5'	24-30"	Y	YYYY			
10	+0.5'	24-30"	Y	YYYY			
11	MSL	30-36"		YYYYY			stiff clay
12	MSL	30-36"	Y	YYYY	Y		wood on pit floor - end fill
13		36-42"		Y			see grass on old surface
14							end contractor fill, see abundant wood
15							pieces and hear shells crunching
16							
17							
18							ended dig prematurely, had expected 4.5'.
19							only found 3' noted color changes, light brown clay beneath trench
20							

TRENCH WALL OBSERVATIONS seepage: stability concerns:
sand stratas: good compaction:

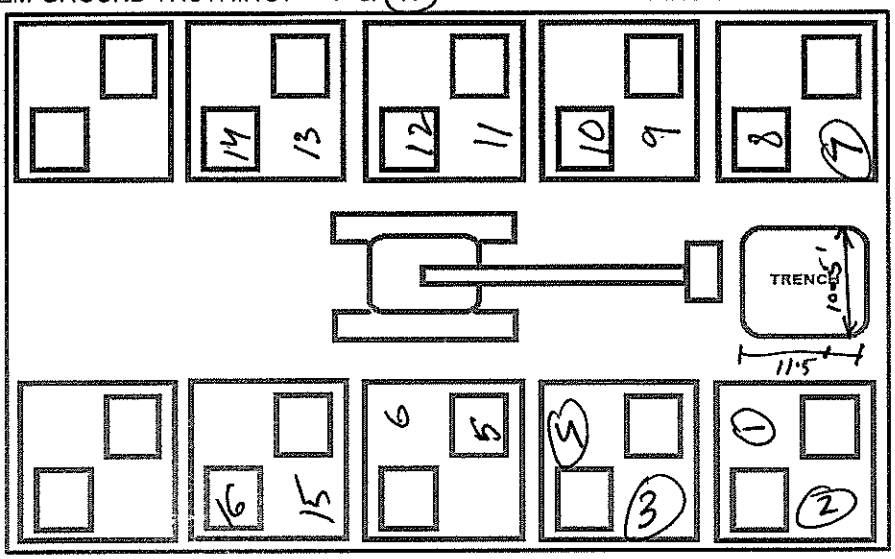
Point # 30
N 500606.4
E 3665918.1

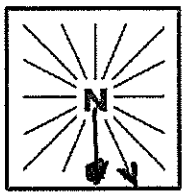
Trench # 1

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 179+80
START TIME - 9:15 am
END TIME - 11:40 am
WEATHER - 65°, Sunny
DATE - 10/25/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - —
TOP OF TRENCH EL - +13.6
ORIGINAL GROUND ELEV - +6.2
TRENCH DEPTH - 4 ft
TRENCH DIMENSIONS - 10.5 X 11.5





BORROW SOURCE SUMMARY

(Willow Bend)	River Birch	EL 13.6
Existing Levee	WBV 14B2	
Willow Bend	(River Birch)	EL 12.5
Existing Levee	WBV 14B2	9.5
(Willow Bend)	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0	N	N		
2	13.0	N	N		
3	12.54	N	N		
4	12.54	N	N		
5	11.9	N	N		
Unsuitable 6	11.9	Y	Y		
7	11.6	Y	N		
8	11.6	N	Y		
9	11.0	Y	Y		
10	10.0	N	Y		
11	10.5	N	Y		
12	10.5	Y	N		
13	10.0	Y	Y		
14	10.0	Y	Y		
15	9.5	Y (2 Big)	Y		
16	9.5	Y	Y		
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

CH Brown
Brown CH
Black Gray CH

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS - Y or (N)
SAND STRATAS - Y or (N)
STABILITY CONCERN - Y or (N)
GOOD COMPACTION - (Y) or N

NOTES:
(6) → 7'W x 3'T x 2.8' Unsuitable piece of wood
No signs of lamination.
No knots
Thumbnail test – hard
Glenn → no masses, big pieces may have been visible during compaction

Trench
10.5' x 11' 1 ft
11' x 11' 2 ft
11 x 11 3 ft

ATTACHMENT "A"

CONTAINER TRACKING SHEET

DEBRIS STORAGE CONTAINER:
L x B x H: 29X17X18 (30gal)
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☑ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES: Deeper Rivabirch

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H: 29X17X18 (30gal)
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☑ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES: Top 2 ft

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

DEBRIS STORAGE CONTAINER:
L x B x H:
Possession of:
Debris Level in a Container:
☐ FULL ☐ 1/2 ☐ 1/4 ☐ 3/4
Debris Size Picked:
☐ > 12" ☐ 3" to 6"
☐ 6" to 12" ☐ 0" to 3"

NOTES:

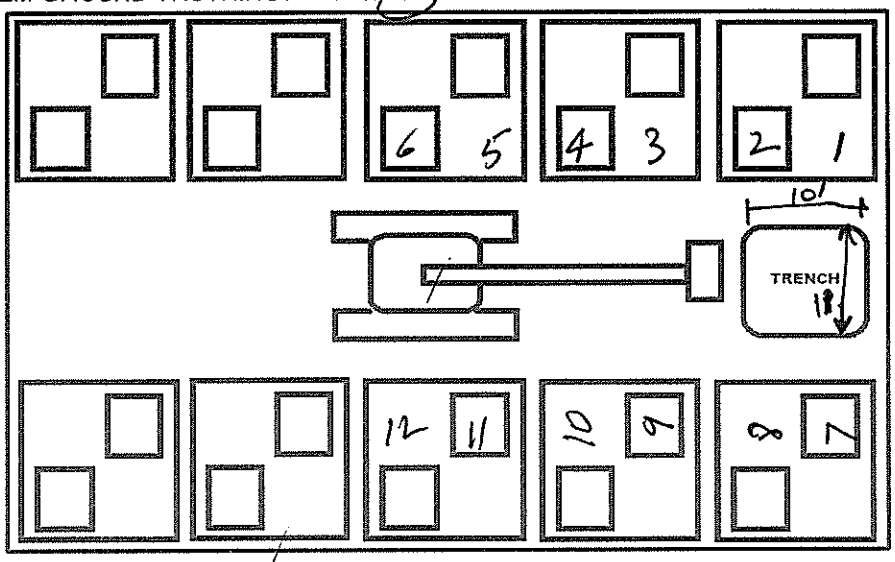
Point #31
N 500782.3261
E 3665981.4175

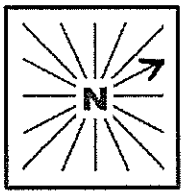
Trench #2

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 180+01
START TIME - 12:00pm
END TIME - 1:30pm
WEATHER - 75° Sunny
DATE - 10/25/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 187.0 ft
TOP OF TRENCH EL - 3.0 ft
ORIGINAL GROUND ELEV - 0 ft
TRENCH DEPTH - 4 ft
TRENCH DIMENSIONS - 10X11





BORROW SOURCE SUMMARY

~~Willow Bend~~	River Birch	EL 3.0
Existing Levee	~~WBV 14B2~~	
Willow Bend	~~River Birch~~	EL 2.8
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 0
~~Existing Levee~~	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	2.5	N	N		
2	2.5	N	N		
3	2.0	Y	Y		
4	2.0	Y	Y		
5	1.5	Y	Y		
6	1.5	N	N		
7	1.0	N	N		
8	1.0	Y	Y		
9	0.5	N	N		
10	0.5	Y	Y		
11	0	Y	N		
12	0	Y	N		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Objectionable piece

* See key sheet.

willowbend

6"

Brown to Gray Fat Clay

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N

NOTES:

1 objectionable @ 1.5'
2 ft x 5" x 5"

3 objectionable @ 3 - 3½
22" x 7" x 5"

1 objection @ 2½ to 3

Trench 1' deep 10' x 11'
deep trench 2' deep 10.5' x 11'

ATTACHMENT "A"

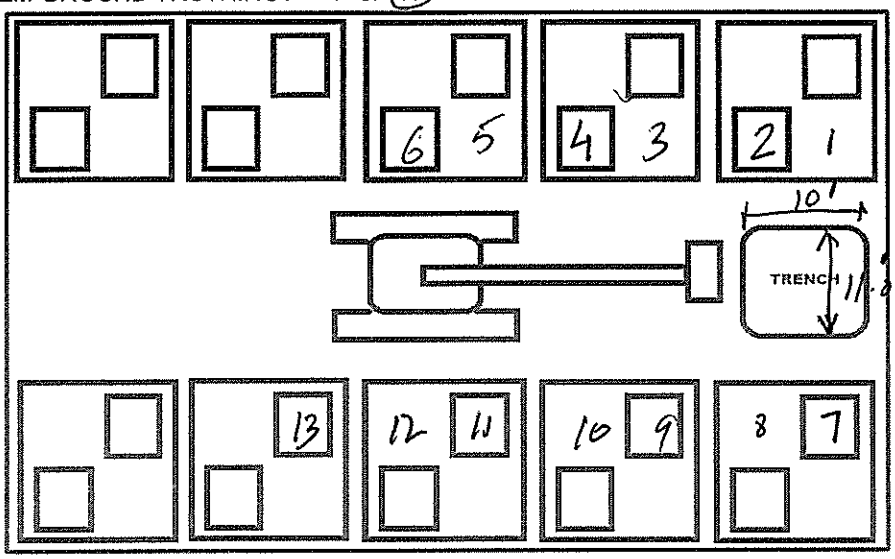
Point #29
N 500681.9
E 3665344.4

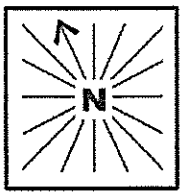
Trench #3

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 174+00
START TIME - 3:00 pm
END TIME - 5:00 pm
WEATHER - 70 F Sunny
DATE - 10/25/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - 0
TOP OF TRENCH EL - + 13.6
ORIGINAL GROUND ELEV - + 6.7
TRENCH DEPTH - 4 ft
TRENCH DIMENSIONS - 11'X10'





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	River Birch / WBV 14B2	(EL) 13.6
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 12.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0	N	N		
2	13.0	N	N		
3	12.5	N	N		
4	12.5	Y	Y		
5	12.0	Y	Y	Brick	
6	12.0	N	N		
7	11.8	N	N		
8	11.8	N	N		
9	10.6	Y	Y	1 objectionable	
10	10.6	Y	Y	2 objectionable	
11	10.1	Y	Y		
12	10.1	Y	Y		
13	9.5	N	N		
14	9.5				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

2200 psf
1300 psf
750 psf

CH
Fat CH Brown
CH Lean Brown
Gray Fat Clay CH
Brown CH Wetland

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:
3 objectionable pieces of wood found at the same elevation. Each piece violated 10% cubic yard spec. requirement.

1 objectionable 2-2½
2 objectionable 2.5-3.0
one 21"x4"x4"
2 objectionable 3.5-4.0
1 objectionable 1.0-1.5

Trench 1 ft deep. 11'x10'
11'x10'

ATTACHMENT "A"

Point # 28
N 500748.26
E 366156.77

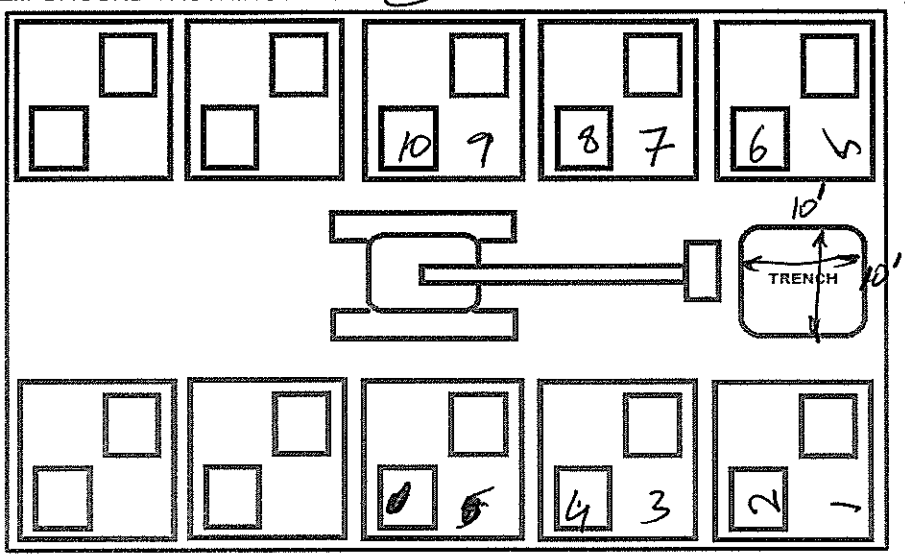
Trench # 4

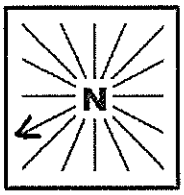
Anomoly

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 172+08
START TIME - 9:00am
END TIME - 10:30am
WEATHER - 64° Sunny
DATE - 10/26/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 55ft
TOP OF TRENCH EL - +7.2 Degraded 5.5' MOD
ORIGINAL GROUND ELEV - +9.0
TRENCH DEPTH - (2½' to 5') → 3.2'
TRENCH DIMENSIONS - 10x10





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL 7.2
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 5.5
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 5.0
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.7	N	N		
2	5.7	N	N		
3	6.2	N	N		
4		Y	Y		
5		Y	Y		
6	5.0	Y	Y		1600
7	4.5	N	N		1800
8	4.5	N	N		
9	4.0	Y	Y	Brick, Metal	500
10	4.0	Y	Y	Unsuitable Wood	
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 FT
1 FT

Brown Fat Clay
Gray Fat Clay

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)	
SAND STRATAS	Y or (N)	
STABILITY CONCERN	Y or (N)	
GOOD COMPACTION	(Y) or N	

NOTES:
2 unsuitable debris
19"x4"x4'
22"x4"x3"
@ 2' to 3'

2 to 3 unsuitable wood debris
2' to 3'

Old metal (shopping cart) from
2' to 3'

ATTACHMENT "A"

ID# 27
N 600729.0
E 3664636.1

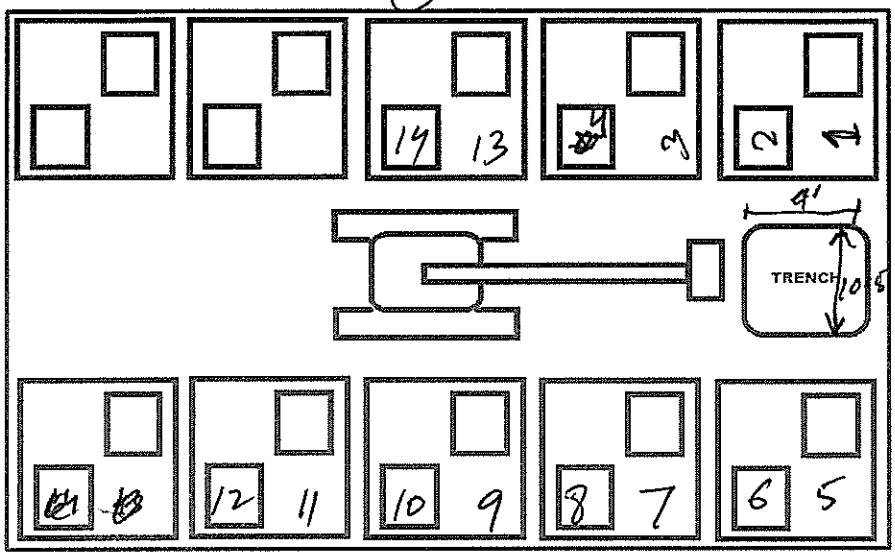
Trench #5

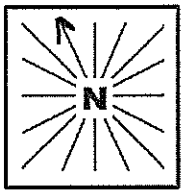
WBV 14C.2
TRENCHING FIELD LOG

Enomaly on trench edge

CL STA - 166+90
START TIME - 10:50 am
END TIME - 12:30 pm
WEATHER - 70° Sunny
DATE - 10/26/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - 160'
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 6.5
TRENCH DEPTH - 3½' to 5' → 4 ft
TRENCH DIMENSIONS - 10½ x 9'





BORROW SOURCE SUMMARY

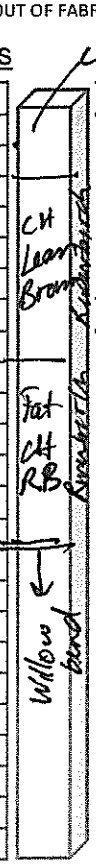
(Willow Bend)	River Birch	EL 13.5
Existing Levee	WBV 14B2	
Willow Bend	(River Birch)	EL 13.0
Existing Levee	WBV 14B2	
(Willow Bend)	River Birch	EL 9.5
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0	N	N		
2	13.0	N	N		
3	12.5	Y	N		
4	12.5	Y	N		
5	12.5	Y	2 Unsuitables @ 12.5		
6	12.5	N	N		
7	11.0	N	N		
8	11.0				
9	10.5	Y	Y		
10	10.5	N	N	3'x6'x10.3"	
11	10	N	N		
12	10	Y	N		
13	9.5				
14	9.5				
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 ft
1 ft
3500 PSF
1500 PSF 1 ft
1000 PSF
1000 PSF 1 ft



* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	(N)
SAND STRATAS	Y	or	(N)
STABILITY CONCERN	Y	or	(N)
GOOD COMPACTION	(Y)	or	N

NOTES:
2 unsuitables seen while trenching @ El 11.5

3 unsuitables @ from 3' to 4'

[19 x 3" x 3"
two 15" x 3" x 3"
Exceeds the 1 ft spec

Total 3 unsuitable from 1' to 2'

ATTACHMENT "A"

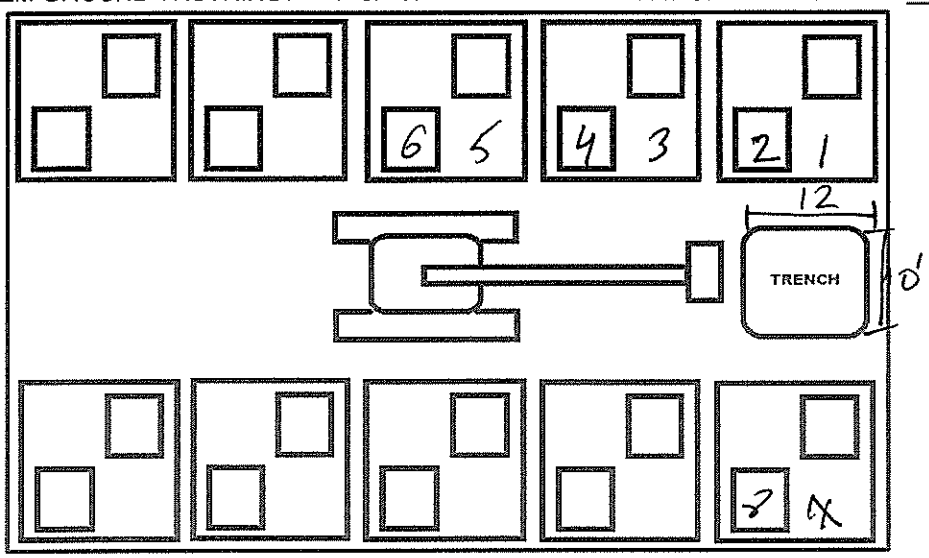
ID #26
Trench #6
N500771.41
E 3664456.57

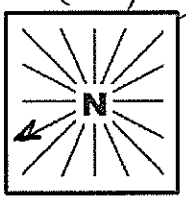
Anomaly
Trench #6

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 165+08
START TIME - ~~[illegible]~~ 2:00pm
END TIME - ~~[illegible]~~ 3:00pm
WEATHER - 70° Sunny
DATE - 10/26/2011
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 31ft
TOP OF TRENCH EL - 8.5'
ORIGINAL GROUND ELEV - 12' (Degraded to 6.5')
TRENCH DEPTH - (2½ to 5') - 3ft
TRENCH DIMENSIONS - 10x12' (slope)





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL 7.9
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 7.3
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 6.2
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	9.9 – 7.8	N	N		CH Brown
2	9.4 – 7.3	N	N		Willowbend
3	8.9 – 6.9	Y	N		Brown Grey Fat Clay
4	8.9 – 6.9	N	N		
5	8.4 – 6.2	One	Objectionable		
6	8.4 – 6.2				
7	7.9 – 5.8	Y	obj concrete @ el. 5.8		
8	7.9 – 5.8	N	one objectionable.		
9					
10					
11					
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

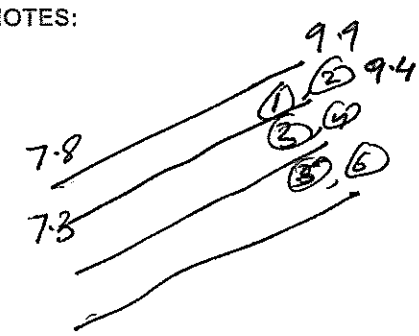
1ft
1600
1600

Willowbend
CH Brown
Existing

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or N
SAND STRATAS Y or N
STABILITY CONCERN Y or N
GOOD COMPACTION Y or N

NOTES:



* See key sheet.

1½ → one objectionable.

one objectionable ~~for~~ 1½ to 2' deep (29"x6"x4"), small piece of concrete

30"x26"x6" | 2 concrete slabs
28"x19"x6" | @ 2ft depth near the toe.

ATTACHMENT "A"

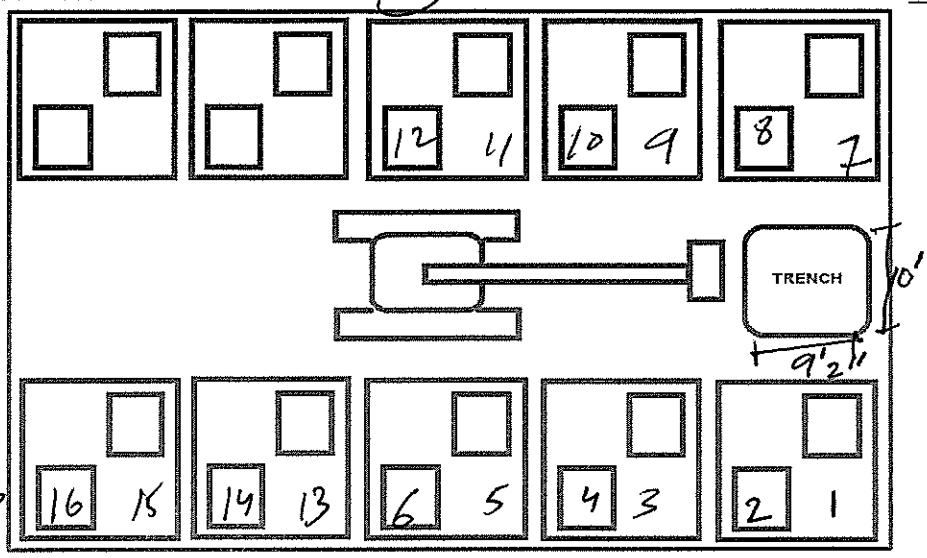
POINT ID # 24
N 500937.9
E 3661559.7

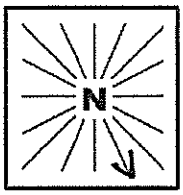
Anomaly
Trench # 7
~~WBV 14C.2~~

TRENCHING FIELD LOG

CL STA - 136+07
START TIME - 3:43 pm
END TIME - 5:10 pm
WEATHER - 75°, Sunny
DATE - 10/26/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) FS
TRENCH OFFSET FROM CL - –
TOP OF TRENCH EL - 13.5'
ORIGINAL GROUND ELEV - 5.8'
TRENCH DEPTH - (4-5')
TRENCH DIMENSIONS - 10x10'





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	(River Birch) / WBV 14B2	EL 13.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 13.0
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0	N	N		Riverbirch CH
2	13.0	N	N		CH brown
3	12.5	Y	N		
4	12.5	Y	N		Existing Levee Fill CH
5	12.0	N	N		
6	12.0	N	N		CH, leaner
7	11.5	N	N		Brown
8	11.5	N	N		Dryer
9	11.0	N	N		
10	11.0	N	N		
11	10.5	N	N		
12	10.5	N	N		
13	10	N	N		
14	10				
15	9.5				
16	9.5				
17	on River Silt				
18					
19					
20	9.0				
21	8.5				
22					
23					
24					

1 ft
1 ft
1 ft

Could not find the edge of fill without material

* See key sheet

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:

One unsuitable → 12"x6"x6" 0'to1'
small piece of concrete 1'to2'

ATTACHMENT "A"

Point ID #23
N 501062.4
E 3660104.28

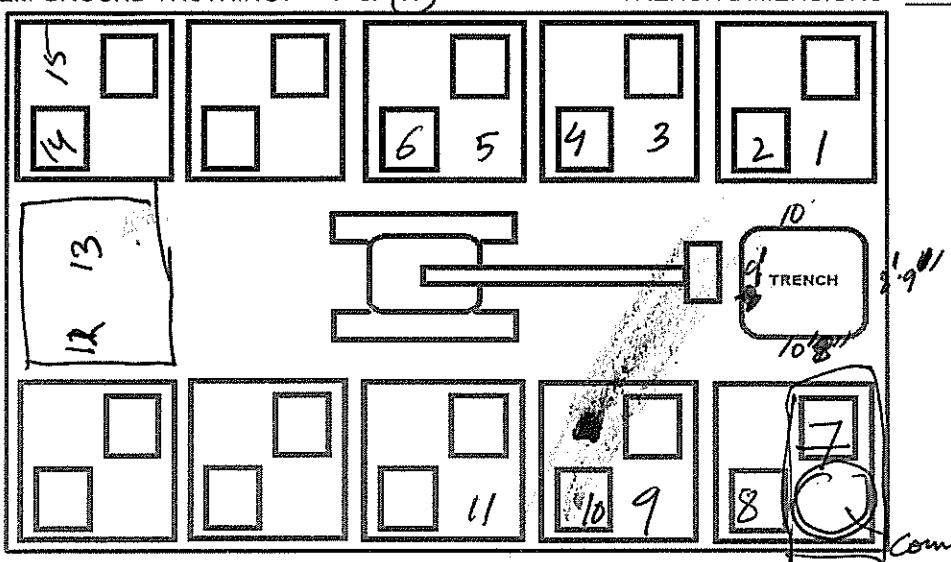
Trench #8

WBV 14C.2
TRENCHING FIELD LOG

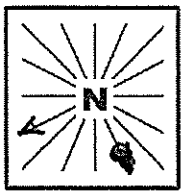
CL STA - 121+46
START TIME - 7:40 am
END TIME - 9:10 am
WEATHER - 61° Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - (CL) - FS
TRENCH OFFSET FROM CL - 15 ft
TOP OF TRENCH EL - 10.8'
ORIGINAL GROUND ELEV - 8.0
TRENCH DEPTH - (4.5 ft) 3.5'
TRENCH DIMENSIONS -

PS Slope



Combination of 1st 18" of trench



BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	11.1 – 8.9	Y	Y	1 Piece of objectionable	
2	11.1 – 8.9	Y	Y	1 Piece of metal hook	
3	10.7 – 8.4	N	N		
4	10.7 – 8.4	N	N		
5	10.1 – 7.9	N	N		
6	10.1 – 7.9	N	N		
7	MIXTURE OF 0 TO 18"				
8	9.7 – 7.3	N	N		
9	9.7 – 7.3	Y	N	1 Objectional Wood	
10	9.1 – 6.6	N	N		
11	9.1 – 6.6	N	N		
12	8.7 – 6.1	N	N		
13	8.7 – 6.1	N	N		
14	8.1 – 5.7	N	Y		
15	8.1 – 5.7	Y	N		
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 ft
1300
1 FT
1200
1 FT
800, 100
2100
1200
1250

Gray Black Clay Brown Rootbrench Rootbrench Rootbrench Rootbrench Brown Clay Brown Rootbrench

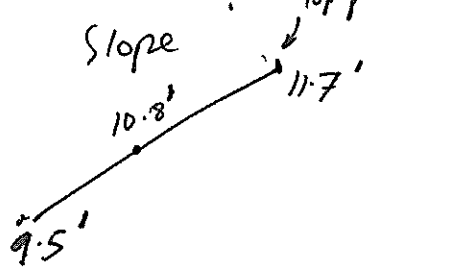
* See key sheet

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	(N)
SAND STRATAS	Y or	(N)
STABILITY CONCERN	Y or	(N)
GOOD COMPACTION	(Y) or	N

NOTES:



One objectionable @ 0'-1'
16"x3"x3
One metal hook 0'-1'
One 17"x3"x3" wood @ 2'-3'

~~One 14~~
One 14"x4"x3" wood @ 1'-2'

ATTACHMENT "A"

Point ID # 22
N 501118.41
E 3660001.57

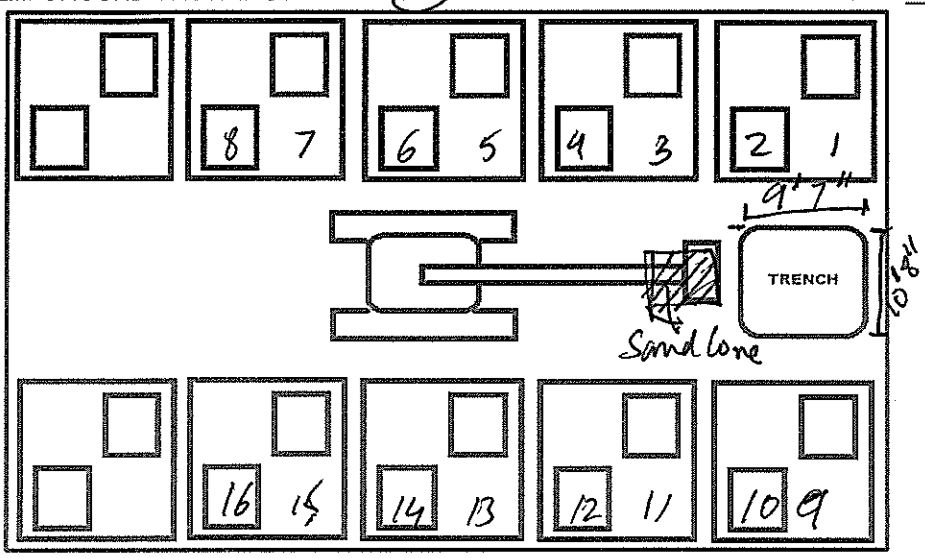
Trench 9

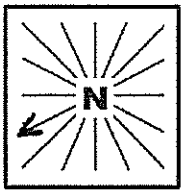
WBV 14C.2
TRENCHING FIELD LOG

Sand Cone Next to the trench 0.5 to 1.5 deep test

CL STA - 120+39
START TIME - 9:21am
END TIME - 10:40am
WEATHER - 65° Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 63'
TOP OF TRENCH EL - 6.5'
ORIGINAL GROUND ELEV - 9.6'
TRENCH DEPTH - (2.5 to 5') 4'
TRENCH DIMENSIONS - 9'7" X 10'8"





BORROW SOURCE SUMMARY

(Willow Bend)	River Birch	EL 6.5
Existing Levee	WBV 14B2	6.3
Willow Bend	River Birch	EL
(Existing Levee)	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	6.0	~~Y~~	~~Y~~		
2	6.0	Y	Y	Couple of big wood pieces at top 1FT	
3	5.5	Y	Y		
4	5.5	Y	Y		
5	5.0	~~N~~	~~N~~		
6	5.0	N	N		
7	4.5	Y	Y	Brick, wood	
8	4.5	N	N		
9	4.0	N	N		
10	4.0	N	N		
11	3.5	Y	Y	Big wood piece	
12	3.5				
13	3.0	Y	N	Acorn on the side wall	
14	3.0	Y	N		
15	2.5	SOFT CLAY AT BOTTOM			
16	2.5				
17					
18					
19					
20					
21					
22					
23					
24					

1FT 1100 psi
1FT 1500 psi
1000 PSI
800 PSI
280 PSI

Grant Cut Line Bottom
Grant Cut Line Top
Grant Cut Line Existing

some wet spots. will have to look at the borrow results for design strength.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or N - ?
GOOD COMPACTION (Y) or N

NOTES:
3'-4' 22"x2"x3", 20"x2"x2" (6")
3'-4' 17"x2"x2" (6")
2'-3' 20"x5"x2" (6")
22"x2"x5"
2'-3' 18"x3"x2" (6")

* See key sheet.

(6") 0'-1' 24"x6"x2", 12"x2"x2" (Two Uncut)
(6") 0'-1' 20"x3"x3", 18"x3"x2", 18"x3"x2", 12"x6"x2", 26"x3"x2"
(6") 1'-2' 15"x3"x2" | (6") 1'-2' Small piece of concrete

ATTACHMENT "A"

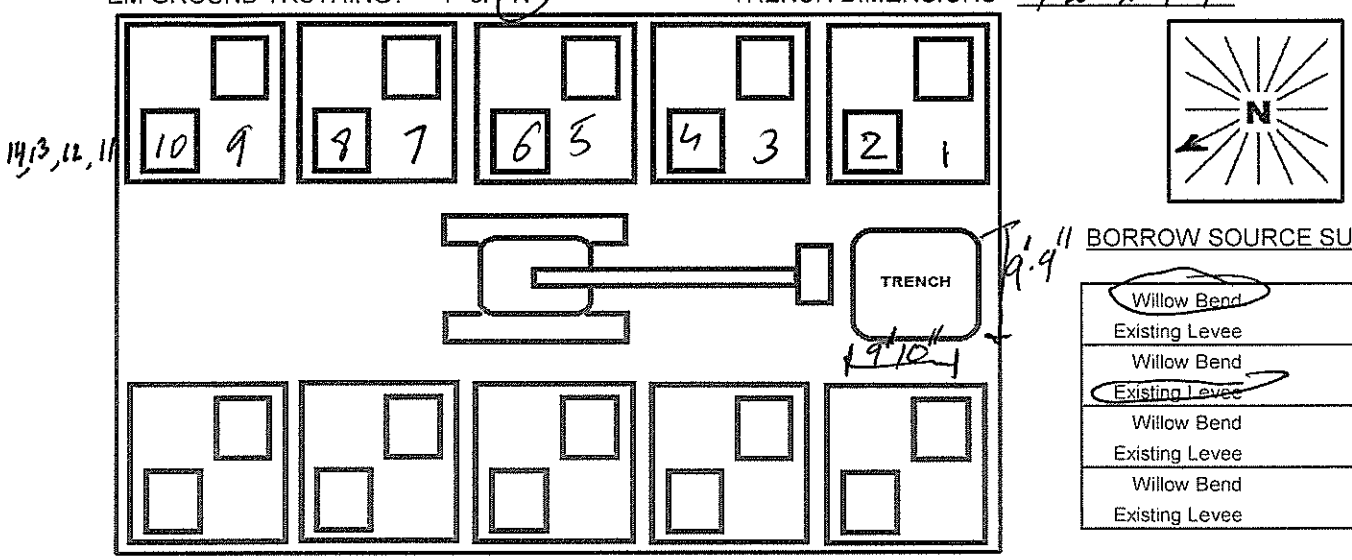
POINT # 20
N 501957.99
E 3659705.98

Trench 10

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 108+18
START TIME - 11:13am
END TIME - 12:10 pm
WEATHER - 68, Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) CL - FS
TRENCH OFFSET FROM CL - 60'
TOP OF TRENCH EL - 5.0'
ORIGINAL GROUND ELEV - 7.6
TRENCH DEPTH - (2.5'-5')
TRENCH DIMENSIONS - 9'10" X 9'9"



BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL 8.0
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 5.8'
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	4.5	Y	Y	3 objectionable wood	
2	4.5	Y	Y		
3	4.0	N	N		
4	4.0	Y	Y		
5	3.5	N	N		
6	3.5	N	N		
7	2.9	N	N		
8	2.7	N	N		
9	2.4	N	N		
10	2.4	N	N		
11	2.0	N	N		
12	2.0	N	N		
13	1.5	N	N		
14	1.5	N	N		
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1FT
1FT
1300 psi
1FT
250 psi 1000 psi
1000 psi 160 psi

Good Fabrication Stitch
Broken Stitch Existing

* See key sheet.

0'-1'
18"x7"x4"
14"x3"x2"
18"x4"x3"
16"x4"x3"
21"x4"x3"

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:

ATTACHMENT "A"

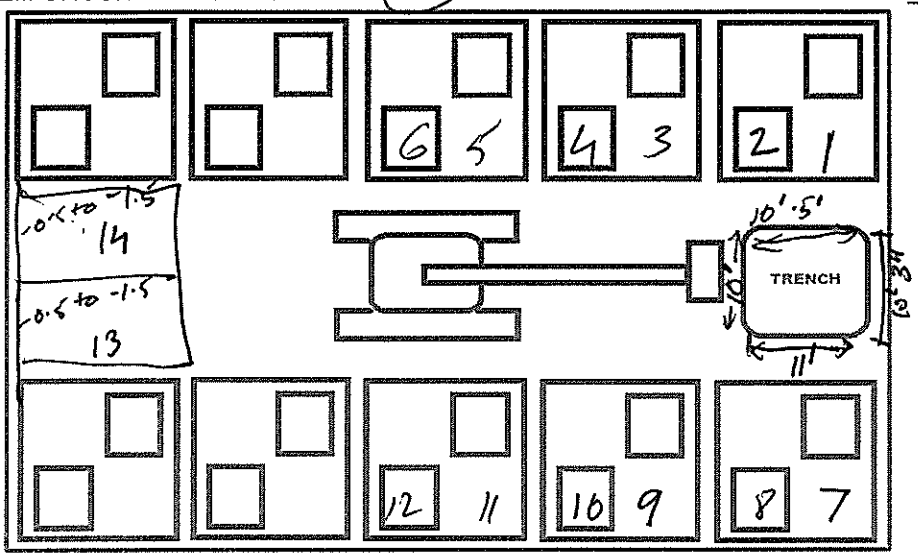
Point ID# 19
N 502293.62
E 3659879.77

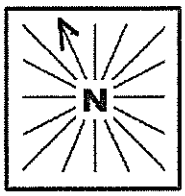
Trench 11

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 104+51
START TIME - 1:30 pm
END TIME - 2:25 pm
WEATHER - 79° Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 149'
TOP OF TRENCH EL - 2.5
ORIGINAL GROUND ELEV - -1.0
TRENCH DEPTH - 4 ft
TRENCH DIMENSIONS - _____





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL 2.5
(Existing Levee)	WBV 14B2	1.0
Willow Bend	(River Birch)	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL -1.5
(Existing Levee)	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	2.0	N	N		
2	2.0	n	n	Metal Piece	
3	1.5	n	n		
4	1.5	n	n	4500 psf	
5	1.0	n	n		
6	1.0	n	n		
7	0.5	n	n		
8	0.5	n	n	2500 psf	
9	0	Y	Y		
10	0	Y	Y		
11	-0.5	Y	Y		
12	-0.5	Y	Y	1200 psf	
13	-1.5	N	N		
14	-1.5	N	N		
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 FT
2000 psf
1 FT
750 psf
1 FT
1400 psf
1 FT
800 psf

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES: 0'-1' 1 Metal Strip 4"x3"
2'-3' 15"x4"x2"
14"x5"x2"
15"x5"x3"
12"x3"x3"
3'-4' 13"x4"x2½"

* See key sheet.

ATTACHMENT "A"

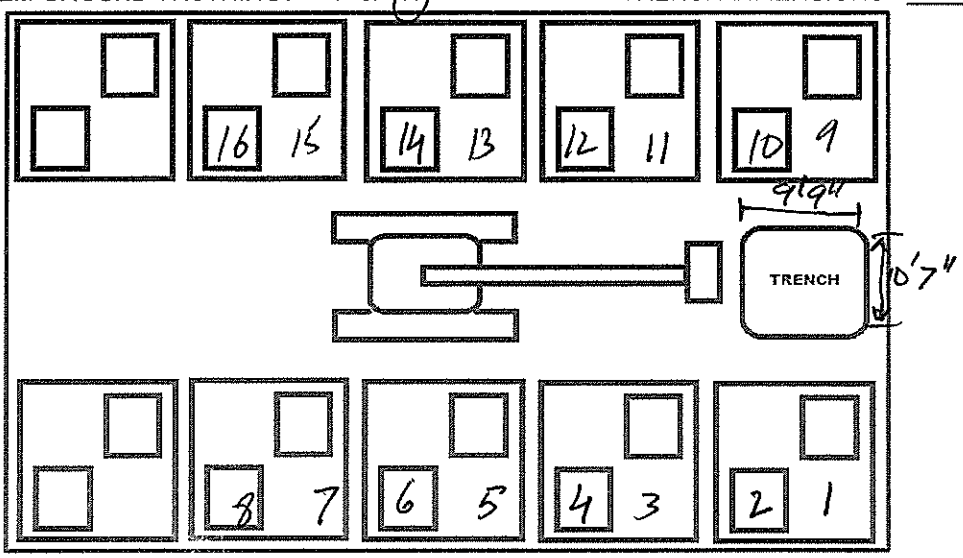
Point ID # 10
N 503056.18
E 3659919.12

Trench 12

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 97+10
START TIME - 2:35 pm
END TIME - 3:30 pm
WEATHER - 72° Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - —
TOP OF TRENCH EL - 13.5'
ORIGINAL GROUND ELEV - 4.6'
TRENCH DEPTH - (4-5) 4 ft
TRENCH DIMENSIONS - 9'9" X 10'7"



BORROW SOURCE SUMMARY

Willow Bend	(River Birch)	EL 13.6'
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 12.0'
(Existing Levee)	WBV 14B2	
Willow Bend	(River Birch)	EL 10.5
Existing Levee	WBV 14B2	
(Willow Bend)	River Birch	EL 9.5'
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

Very stiff dry clay

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.1	N	N		
2	13.1	N	N		
3	12.5	Y	N		
4	12.5	N	N		
5	12.0	N	N	1 unsuitable	
6	12.0	N	N		
7	11.5	Y	N	Brush, small wood	
8	11.5	N	N		
9	11.0	Y	Y	1 Unsuitable	
10	11.0	N	N		
11	10.5	N	N		
12	10.5	N	N		
13	10.0	Y	N		
14	10.0	N	N		
15	9.5	Y	N		
16	9.5				
17					
18					
19					
20					
21					
22					
23					
24					

1FT
1FT
1FT
1FT
1600psf

Brown Lean to Fat Clay
Brown Lean Clay
Existing Levee CH
River Birch CH
Willow Bend Brown CH Fat

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
4

White dry Stuff

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
LAYED STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N

NOTES: Blue coloration shows up on EM. (Maybe cause the material has low moisture content)

0'-1' 14" x 4½" x 2½"
1'-2' 18" x 7" x 4"
2'-3' 12" x 5½" x 3"
13" x 3" x 3"
3'-4.5" 13" x 2½" x 3
13" x 2" x 2"

ATTACHMENT "A"

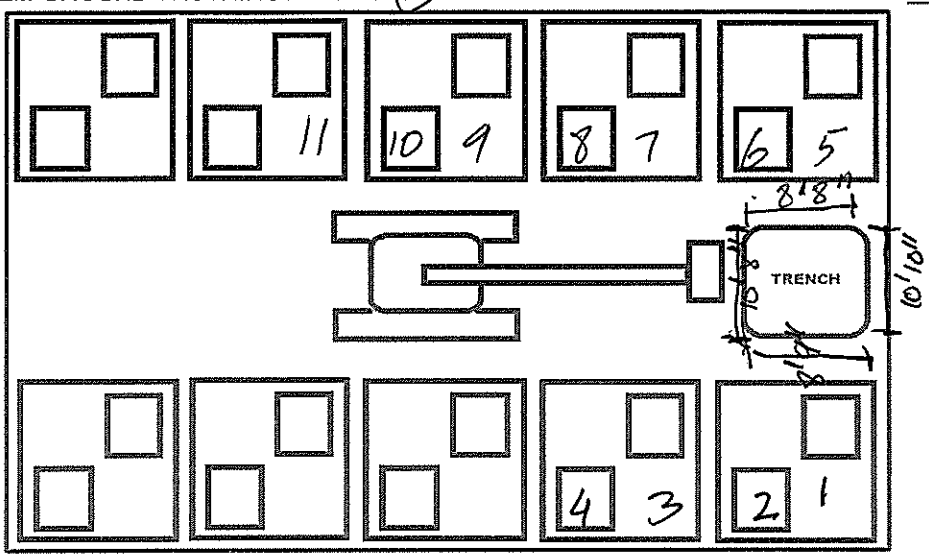
Point ID # 16
N 505653.3
E 3660659.7

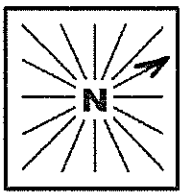
Trench 13

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 70+00
START TIME - 4:04 pm
END TIME -
WEATHER - 72° Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - —
TOP OF TRENCH EL - 13.5'
ORIGINAL GROUND ELEV - 3.0'
TRENCH DEPTH - 3½'
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 13.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 12.0
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	12.85	N	N		Lean clay
2	12.85	N	N		
3	12.0	N	N		
4	12.0	N	N		
5	11.5	N	N		White stuff
6	11.5	N	N		Dry
7	11.0	N	N		Lean clay
8	11.0	N	N		
9	10.5	N	N		
10	10.5	N	N		
11	10.0	N	N		
12	10.0	N	N		
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1FT
1FT
2500psi
1 FT
Max 5000psi

Lean Clay
Brown
Crumbly
Dry
Existing Levee Cut Trench

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N

NOTES:
2'-3' 14"x4"x2"
3'-3.5' One small piece of concrete

ATTACHMENT "A"

Point ID # 15
N 505807.9
E 3660414.5

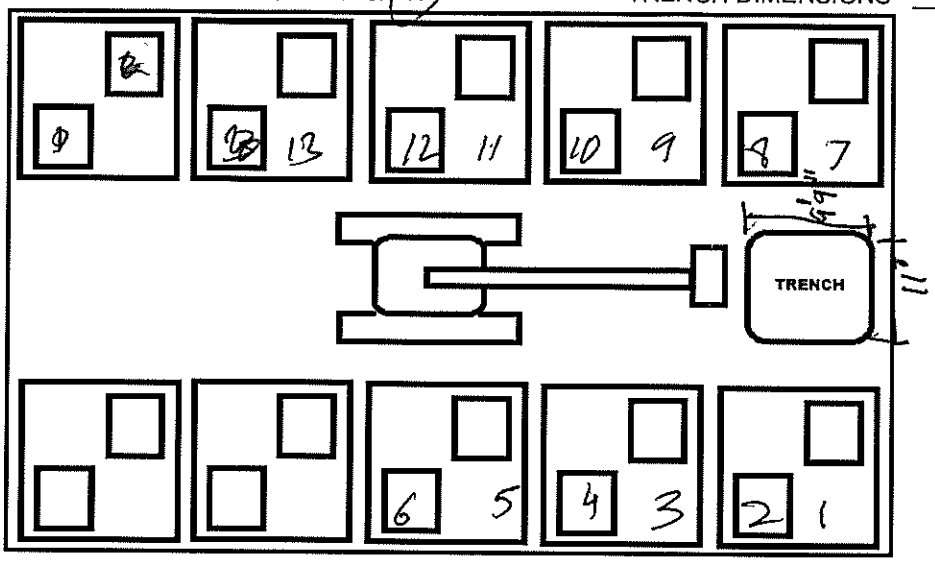
Anomaly

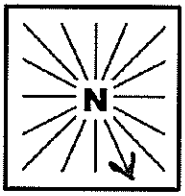
Trench #14

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 66+88
START TIME - 4:55 pm
END TIME - 5:20 pm
WEATHER - 15, Sunny
DATE - 10/27/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL - —
TOP OF TRENCH EL - 13.5
ORIGINAL GROUND ELEV - 4.6
TRENCH DEPTH - 3'
TRENCH DIMENSIONS - 9'9" X 11'





BORROW SOURCE SUMMARY

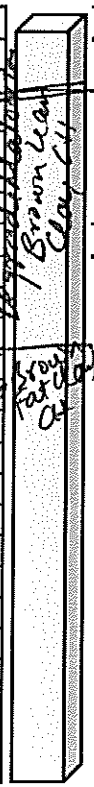
Willow Bend	(River Birch)	EL 13.5
Existing Levee	WBV 14B2	13.0
Willow Bend	River Birch	EL
(Existing Levee)	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13	N	N		
2	13	N	N		
3	12.5	N	N	Brown loam clay OL	
4	12.5	N	N		
5	12	N	N		
6	12	N	N		
7	11.5	N	N		
8	11.5	N	N		
9	11.0	N	N		
10	11.0	N	N		
11	10.5	N	N		
12	10.5	N	N	Degrade Material	
13	10	N	N		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 FT
1 FT
2000 #
1 FT
2700 #
5000 #



BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	(N)
SAND STRATAS	Y or	(N)
STABILITY CONCERN	Y or	(N)
GOOD COMPACTION	(Y) or	N

NOTES: 0'-1' → small metal piece

* See key sheet.

ATTACHMENT "A"

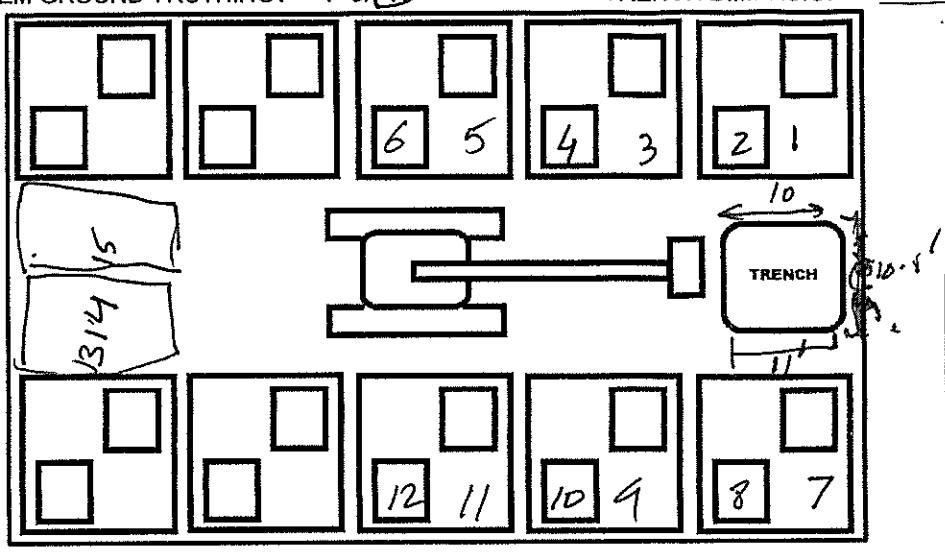
Point #25
N 501016.0
E 3662107.0

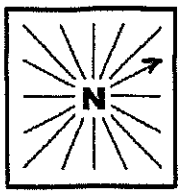
Trench 15

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 141+46
START TIME - 8:00 am
END TIME - 9:00 am
WEATHER - 62° Cloudy
DATE - 10/28/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 118'
TOP OF TRENCH EL - 5.5'
ORIGINAL GROUND ELEV - 2.8'
TRENCH DEPTH - (2½' - 5') 4'
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 5.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 2.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5	N	N		
2	5	N	N		
3	4.5	N	N		
4	4.5	N	N		
5	4.0	N	N		
6	4.0	N	N	1500 psf	
7	3.5	"	"		
8	3.5	"	"		
9	3.0	"	"		
10	3.0	"	"		
11	2.5	N	N	3200 psf	
12	2.5	N	N		
13	2.0				
14	2.0				
15	1.5			1550 psf	
16	1.5				
17					
18					
19					
20					
21					
22					
23					
24					

1 FT 250 psf; 1 FT; 1 FT 3600 psf; 1 FT 1200 psf

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:
- Minimum debris
- Cleaner Brown Rivanbirch material.
- The geophysical anomaly might be associated with an error during compilation

ATTACHMENT "A"

Point ID # 11
N 506342.3
E 3657934.4

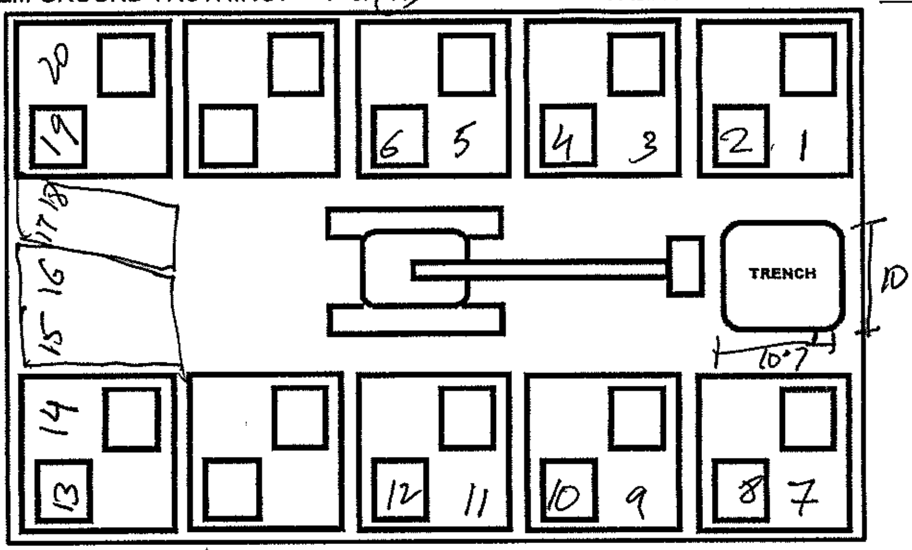
Trench # 16

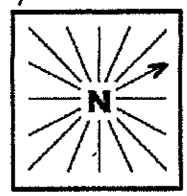
WBV 14C.2
TRENCHING FIELD LOG

Sand Cone next to the hole, 1' to 2" ?

CL STA - 40+51
START TIME - 8:15am
END TIME - ~~6:00am~~ 9:54am
WEATHER - 60° Sunny
DATE - 10/2/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS)
TRENCH OFFSET FROM CL - 38'
TOP OF TRENCH EL - 6.4'
ORIGINAL GROUND ELEV - 2.0'
TRENCH DEPTH - (5 ft) 5' 10"
TRENCH DIMENSIONS - 10' x 10.7'





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	(River Birch) / WBV 14B2	EL 6.4
Willow Bend / Existing Levee	River Birch / (WBV 14B2)	EL 4.9
Willow Bend / Existing Levee	(River Birch) / WBV 14B2	EL 2.9
(Willow Bend) / Existing Levee	River Birch / WBV 14B2	EL 1.4

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.9	Y	N	Unsuitable wood	
2	5.9	N	N		
3	5.4	Y	Y		
4	5.4	Y	Y		
5	4.9	N	N		
6	4.9	N	N		
7	4.4	N	Y		
8	4.4	N	N		
9	3.9	N	N		
10	3.9	N	N		
11	3.4	Y	Y		
12	3.4	N	N		
13	2.7	N	Y		
14	2.7	N	N		
15	2.4	N	Y		
16	2.4	Y	Y		
17	1.9	N	N		
18	1.9	N	N		
19	1.8	N	N		
20	1.8	N	N		
21					
22					
23					
24					

Margin notes: 1000psf 1 FT; 1000 psf; 2500psf 1 FT; 2000psf 1 FT; 1 FT 500psf; 300psf 1 1/2

Soil column notes: Gray Fat Clay CH (River Birch); Brown Gray Fat Clay (CH) (WBV 14B2); Brown Gray Fat Clay (CH) (River Birch); Brown Fat Clay CH (Willow Bend)

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N

NOTES: 0'-1' 23" x 7" x 5"
16" x 4" x 2"
13" x 3" x 4"
2'-3' 16" x 5" x 2"

ATTACHMENT "A"

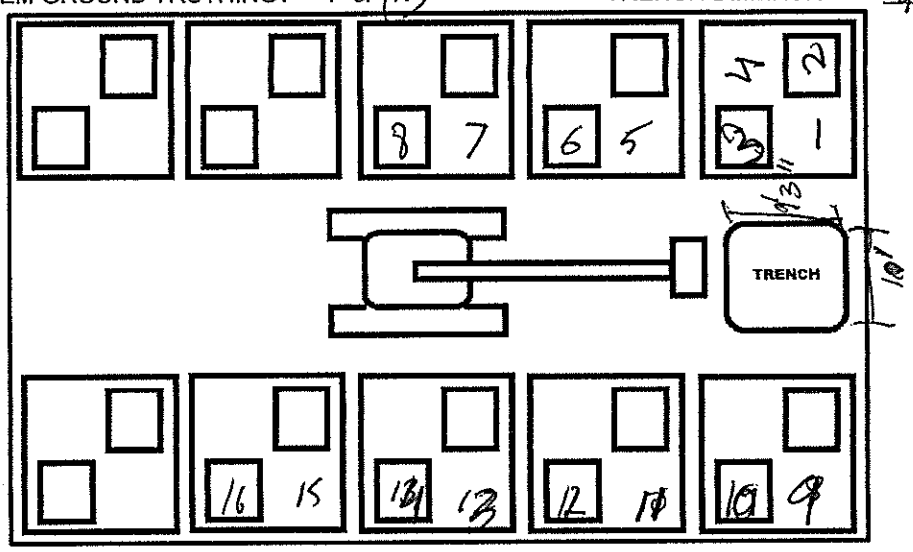
N 506273.14
E 3657859.28

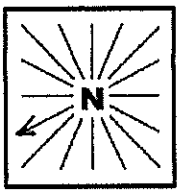
Trench # 17

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 39+90
START TIME - 10:15
END TIME - 11:20 am
WEATHER - 65° Sunny
DATE - 11/2/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS)
TRENCH OFFSET FROM CL - 120'
TOP OF TRENCH EL - 3.8'
ORIGINAL GROUND ELEV - 0.4
TRENCH DEPTH - (3'-5') 4ft
TRENCH DIMENSIONS - 9'3" x 10'





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	(River Birch) / WBV 14B2	EL 3.8
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL -0.2
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	3.2	N	N		
2	3.2	N	N		
3	2.8	N	N		
4	2.8	N	N		
5 6	2.8	Cleaning the pit			
7	2.3	N	N		
8	2.3	N	N		
9	1.8	N	N		
10	1.8	N	N		
11	1.2	N	N		
12	1.2	N	N		
13	0.8	N	N		
14	0.7	N	N		
15	0.3	N	N		
16	0.3	N	N		
17	-0.3	N	N		
18	-0.2	N	N		
19					
20					
21					
22					
23					
24					

500 psf

Very dark uncompacted fat CLAY CH

Gray uncompacted fat CLAY CH

Gray CH (Rumbaugh)

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	Y or N — uncompacted clay fill

NOTES:
All uncompacted, fat Gray CLAY (CH) from River Birch
500psf strength all around
Very clean clay fill.

* See key sheet.

ATTACHMENT "A"

Point 30 #1
N 506580.65
E 3657646.77

Trench #18

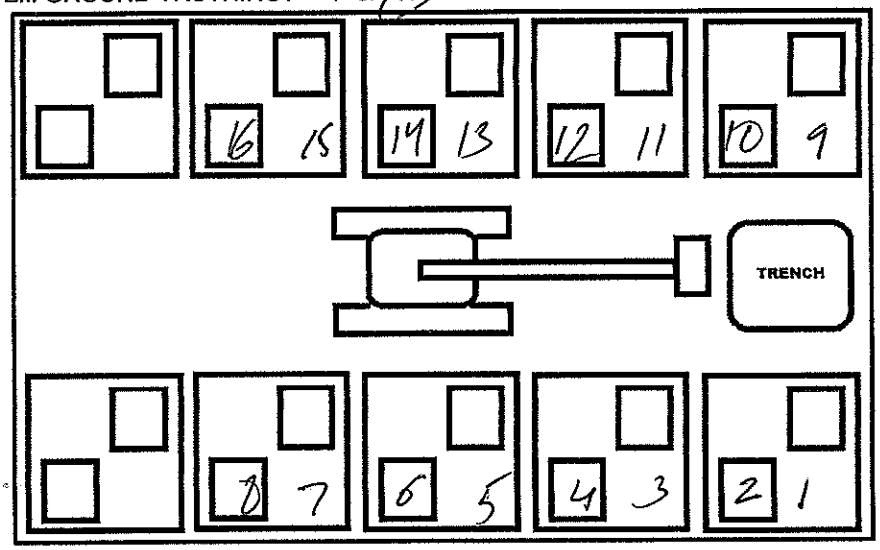
Metal Anomaly?

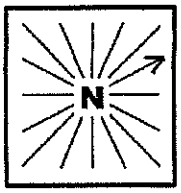
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 37+23
START TIME - 11:37am
END TIME -
WEATHER - 65° Sunny
DATE - 11/2/2011
EM GROUND TRUTHING? - Y or N

TRENCH LOCATION - PS - CL - FS
TRENCH OFFSET FROM CL - 139'
TOP OF TRENCH EL - 2.9 ft
ORIGINAL GROUND ELEV - 0.4 ft
TRENCH DEPTH - (3-5 ft)
TRENCH DIMENSIONS -

2 ft WB
2 ft RB
1½ ft WB





BORROW SOURCE SUMMARY

Willow Bend	River Birch	EL 2.9
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 0.4 debris field
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	2.9	N	N		
2	2.9	N	N	Fat Brown Clay (CH) Willow Bend	CH
3	1.9	N	N		
4	1.9	N	N		
5	1.9	N	N		
6	1.9	N	N		
7	0.9	N	N		
8	0.9	N	N		
9	0.9	N	N		
10	0.9	Y	Y	Concrete	
11	-0.1	Y	Y	Concrete, Tire	
12	-0.1			Metal, Angle Iron	
13	-0.6	Y	Y	" "	Tin, Shoes
14	-0.6	Y	Y	"	in water puddle
15	-1.0				
16	-1.0				
17					
18					
19					
20					
21					
22					
23					
24					

LIFT
LIFT
LIFT
LIFT

clean

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y	or	N
SAND STRATAS	Y	or	N
STABILITY CONCERN	Y	or	N
GOOD COMPACTION	Y	or	N

only on placed fill

NOTES: Concrete, metal, Tires, Hammer, Glass, Net, metal wheels, Hub caps, Gas tanks, Metal strips

1'-2' → 12" x 3" x 3" Wood

* See key sheet.

~~It decided to discuss how to approach the debris field~~

* Fill placed on existing ground without grubbing. Concrete encountered on Earth ground surface

☆ Detailed inspection on willowbend area not performed as the material looked very clean. Minimal debris found in willowbend.

ATTACHMENT "A"

N 506429.82
E 3657113.73

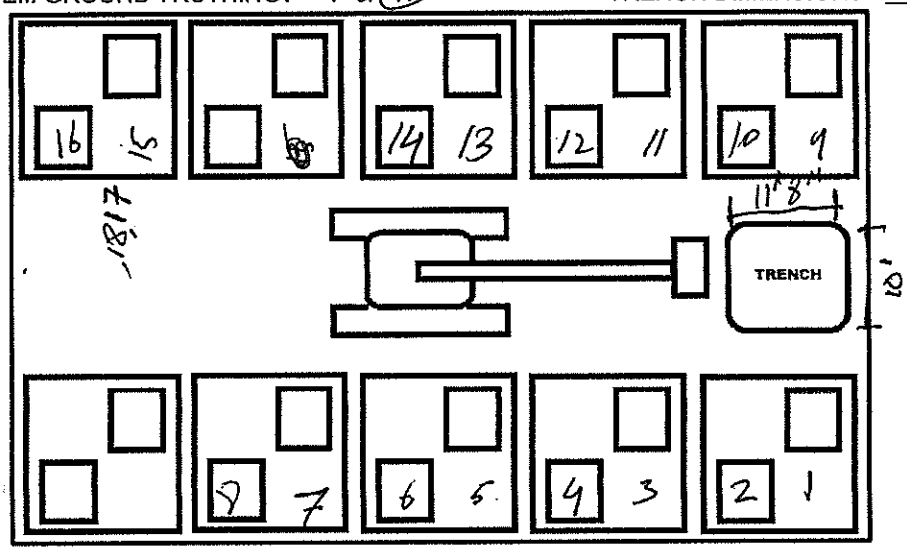
Trench #19 Anomaly

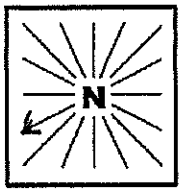
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 32+29
START TIME - 1:50 pm
END TIME - 3:00 pm
WEATHER - 68° Sunny
DATE - 11/2/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS)
TRENCH OFFSET FROM CL - 110'
TOP OF TRENCH EL - 4.2'
ORIGINAL GROUND ELEV - 0.9'
TRENCH DEPTH - (4 to 5 ft)
TRENCH DIMENSIONS -

2' RB
1½ 14B.2
Existing





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend ~~Existing Levee~~ Brown	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	3.7	N	N		Fat
2	3.7	N	N	Brown	Clay (CH)
3	3.2	N	N	Clay	
4	3.2	~~N~~ Y	~~N~~ Y	River birch	
5	2.7	~~N~~ Y	Y	Rubber	
6	2.7	N	Y	Strip	
7	2.2	Y	Y		
8	2.2	Y	Y		
9	1.7	Y	Y		
10	1.7	Y	Y		
11	1.2	Y	Y		
12	1.2	~~N~~ Y	~~N~~ Y		
13	0.7	Y	Y		
14	0.7			Original	
15	0.2			ground	
16	0.2				
17	-0.3	Trash Debris water		El. 0.7	
18	-0.3			Wood & roots	
19	-0.8	Wooden post → 5' long exposed			
20	-0.8				
21					
22					
23					
24					

1 FT, 1 FT, 1 FT, 1 FT

Fat Clay (CH) Brown Clay (CH) River Birch Rubber Strip

Uncompacted Fat Clay (CH) River Birch

Original Ground

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or N
SAND STRATAS	Y or N
STABILITY CONCERN	Y or N
GOOD COMPACTION	(Y) or N

on north fill

NOTES:
Wood & roots @ original ground El. 0.7
Brick, Concrete below root mass, Shoe soles, metal sheets,
2½' 19"x3"x3" wood
~~1½' 2" wood stake~~

Groundwater seepage ~~into~~ at the bottom of the pit
Wood debris, concrete, brick, terracotta tiles, gravel
Debris field starts @ 0.2 ft.

ATTACHMENT "A"

Point 1011.7
N 506579.27
E 3656859.43

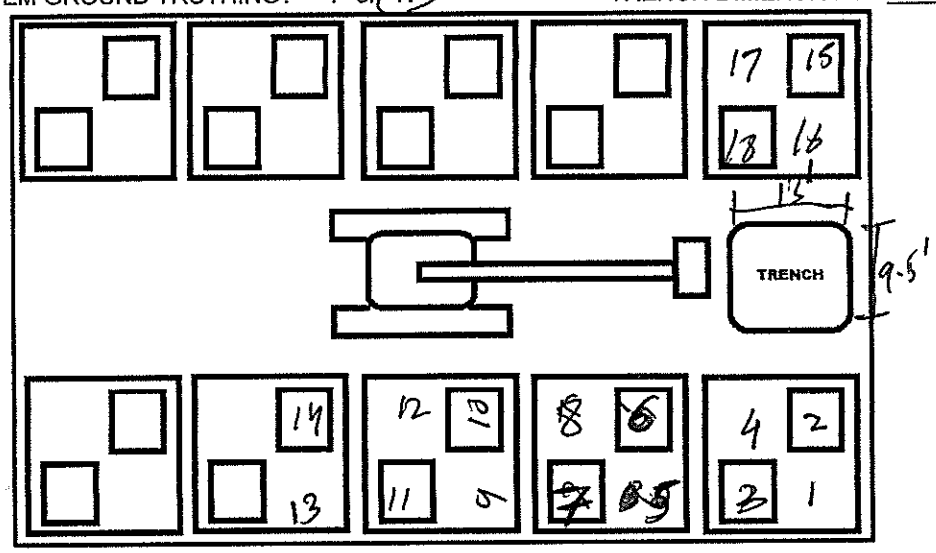
Trench #20

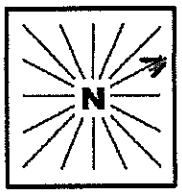
WBV 14C.2
TRENCHING FIELD LOG

CL STA - 29+50
START TIME - 3:18 pm
END TIME -
WEATHER - 72° Sunny
DATE - 11/2/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS) Slope
TRENCH OFFSET FROM CL - 13
TOP OF TRENCH EL - 13.5 @ CL (1.5 @ anomoly)
ORIGINAL GROUND ELEV - 3.4 ft
TRENCH DEPTH - (5-6 ft) 4 ft
TRENCH DIMENSIONS -

2 WB
1½ LD
RB





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	6"	N	N		
2	6"	N	N		
3	1'	N	N		
4	1'	Y	Y	Concrete	
5	1.5'	Y	Y	Small piece of concrete	
6	1.5'	Y	Y	"	"
7	2.0'	N	N		
8	2.0'	N	N		
9	2.5'	N	N		
10	2.5'	N	N		
11	3.0	N	N		
12	3.0	N	N		
13	3.5'	Y	N	Small piece of wood	
14	3.5	N	N		
15	4.5	N	N		
16	4.5	N	N		
17	5.0	Y	N		
18	5.0	Y	N		
19					
20					
21					
22					
23					
24					

1800 psf
1800 psf
1300 psf
1600 psf
2600 psf
3700 psf
1300 psf
2500 psf
1100 psf
2100 psf

WB
Fat Clay CH
Fat Clay CH
River Birch

* See key sheet.

BULK SAMPLES TAKEN:
1 Fat Clay CH
2
3
4

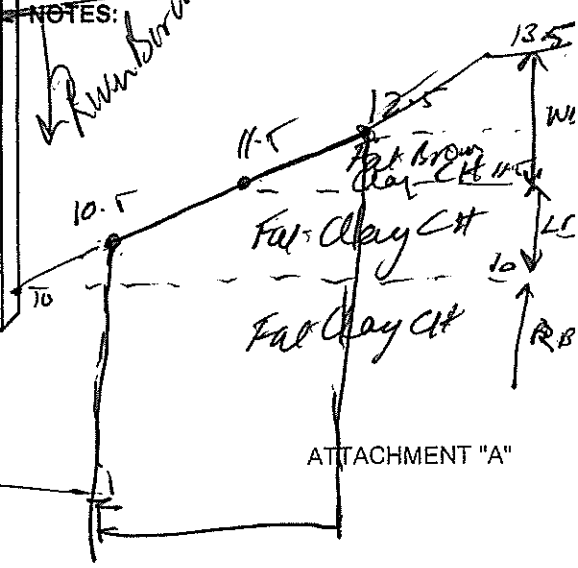
TRENCHWALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:

All material encountered was stiff to very stiff.

0-1' 12"x10"x5" concrete piece
1'-2' 2 small pieces of concrete



ATTACHMENT "A"

point [illegible]
N 506555.45
E 3656628.31 approx.

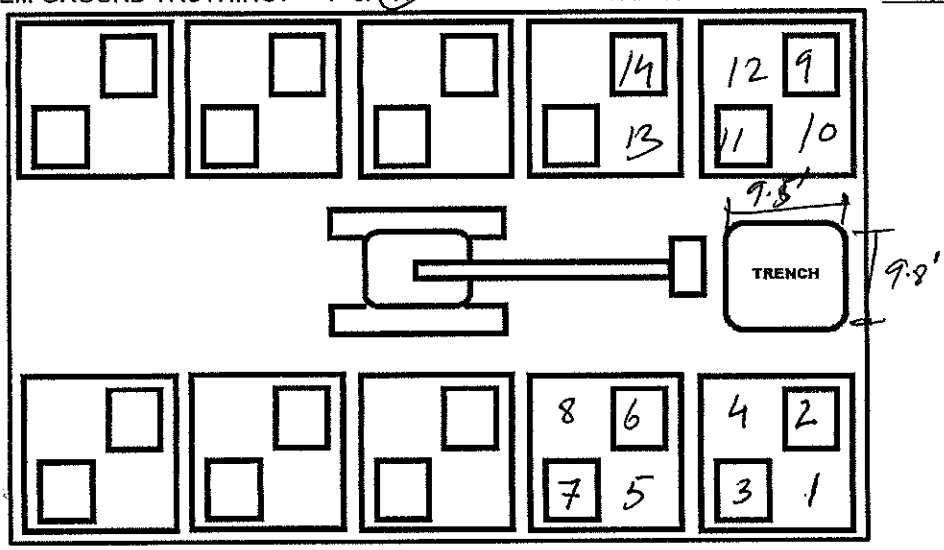
Trench 21

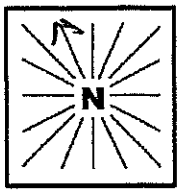
WBV 14C.2
TRENCHING FIELD LOG

1½ RB
1½ 14b.2
RB

CL STA - 27+25
START TIME - 4:30 pm
END TIME - 5:15 pm
WEATHER - 70°, Sunny
DATE - 10/2/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (ES)
TRENCH OFFSET FROM CL - 80'
TOP OF TRENCH EL - 4.8 Estimated
ORIGINAL GROUND ELEV - 0.8
TRENCH DEPTH - (4 ft)
TRENCH DIMENSIONS - 9.5' x 9.8'





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	(River Birch) WBV 14B2	EL
Willow Bend Existing Levee	(River Birch) WBV 14B2	EL
Willow Bend Existing Levee	(River Birch) WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15' X 15' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	6"	N	N		
2	6"	N	N		
3	1.0'	N	N		
4	1.0'	N	N		
5	1.5'	N	N		
6	1.5'	N	N		
7	2.0'	N	N		
8	2.0'	Y	Y	18"x2"x2" wood	
9	2.5'	N	N		
10	2.5'	N	N		
11	3.0'	N	N		
12	3.0'	N	N		
13	~~3.0~~ 4.0	Y	Y		
14	~~3.5~~ 4.0	Y	Y		
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

1 FT
1 FT
1 FT
1 FT

Grid layout for Wet Cell Inversions

* See key sheet.

3' 700, 1200 psf
2' 1250, 750 psf
1' 2300, 1000 psf
6" 1700 psf
3" 600, 1000 psf

3.5' 1000 psf

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:

2'-3' 12"x3"x2" wood
1'-2' 18"x2"x2" wood

ATTACHMENT "A"

IU #:
N 506736.9
E 3656120.5

Trench #22

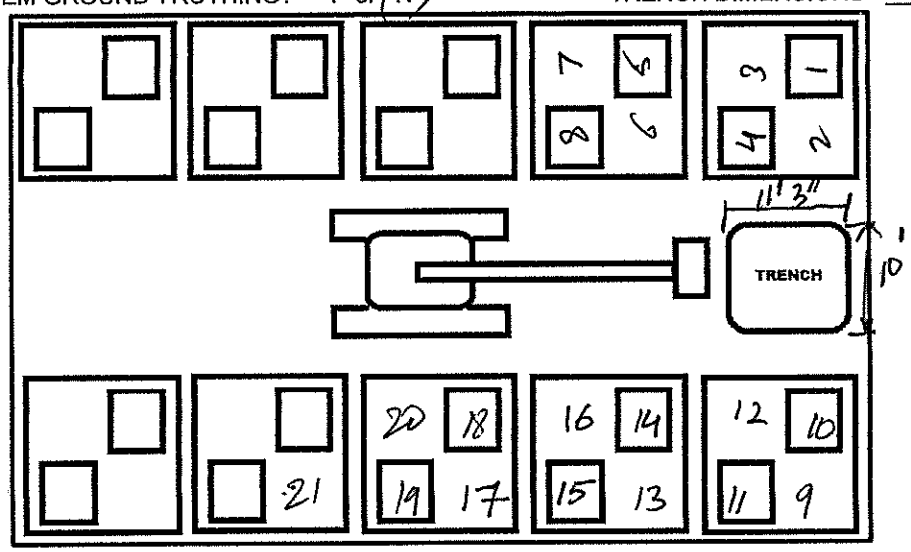
WBV 14C.2
TRENCHING FIELD LOG

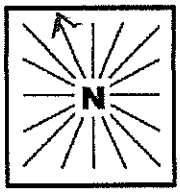
Sand Gone Next to Trench #21
Trench #20

2' WB
1½ LB
5' RB
1½ WB

CL STA - 21+95
START TIME - 8:00 am
END TIME -
WEATHER - 65° Sunny
DATE - 11-3-2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - +13.5
ORIGINAL GROUND ELEV - +4.6
TRENCH DEPTH - (4-6+) 6+
TRENCH DIMENSIONS - 10' X 11' 3"





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL 13.5
Willow Bend Existing Levee	River Birch WBV 14B2	EL 11.5
Willow Bend Existing Levee	River Birch WBV 14B2	EL 9.5
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0				
2	13.0				
3	12.5				
4	12.5				
5	12.0	Y	Y		
6	12.0				
7	11.5				
8	11.5				
9	11.0		~~Concrete Piece~~		
10	11.0				
11	10.5				
12	10.5				
13	10.0				
14	10.0				
15	9.5				
16	9.5				
17	8.5				
18	9.5				
19	8.0				
20	7.0				
21	7.5	Y	Y		
22	7.6	Y	Y		
23					
24					

1FT
1FT
1FT
1FT
1FT
1FT

Dark Brown Loam Clay
Brown Silty Clay
Fat Clay w/ Black Brown Fat Clay (Willow Bend)
Brown Silty Clay

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:

2'-3' 19"x4"x3" wood
12"x5"x7" concrete

3-4 14" x 2½" x 2" wood
small piece of concrete

5'-6' 19"x3"x3" wood
small piece of stone

ATTACHMENT "A"

Original Point #4
N 506921.9
E 3654918.8

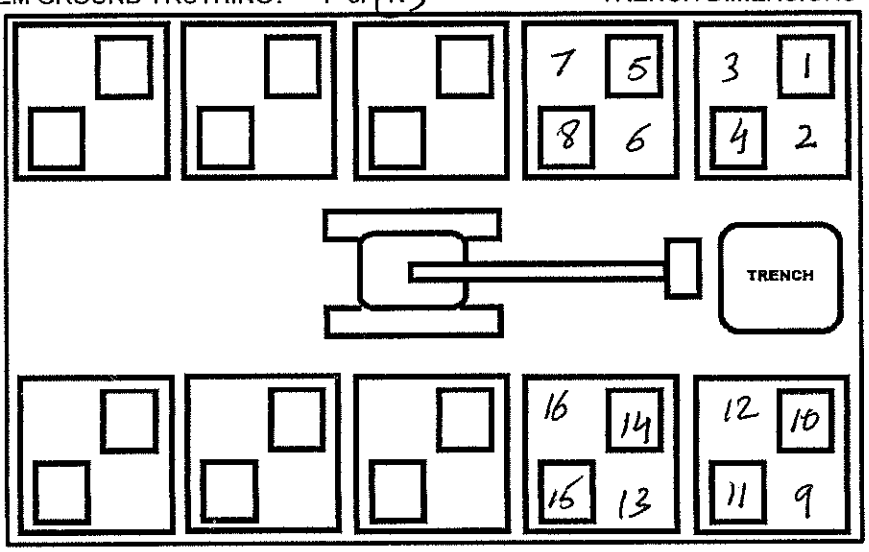
now moved closer to the levee FS Toe

Trench #23

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 9+80
START TIME - 1:30pm
END TIME -
WEATHER - @58° Cloudy
DATE - 11/3/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS)
TRENCH OFFSET FROM CL - 49'
TOP OF TRENCH EL - 6.0'
ORIGINAL GROUND ELEV - 2.0'
TRENCH DEPTH - (5ft)
TRENCH DIMENSIONS -



BORROW SOURCE SUMMARY

(Willow Bend)	River Birch	EL 6.0
Existing Levee	WBV 14B2	
Willow Bend	(River Birch)	EL 5.5
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL 4.0
Existing Levee	(WBV 14B2)	2.0
Willow Bend	River Birch	EL
(Existing Levee)	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15' X 15' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*	
1	5.5	N	N	Lean Brown		WB
2	5.5	N	N	Clay (CL)		
3	5.0	N	N	Gray Brown		RB
4	5.0	N	N	Fat Clay (CH)		
5	4.5	N	N			
6	4.5	Y	Y			
7	4.0					
8	4.0					
9	3.5			Black Gray Brown		
10	3.5	Y	Y	Lean to Fat		
11	3.0	Y	Y	Clay	CH	
12	3.0	N	N			14B.2
13	2.5	N	N			
14	2.5	Y	Y			
15	2.0	N	N			
16	2.0	N	N			
17	1.5	N	N			
18	1.5	N	N	Gray Fat		Existing Levee
19				Clay CH		
20						
21		medium stiff		@0.5'		
22				rock		
23						
24						

1ft 3700psf
1ft 2000psf
1ft 1700psf
1ft 1760psf

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:
1'-2' Small piece of brick
2'-3' 12"x2"x2" wood

ATTACHMENT "A"

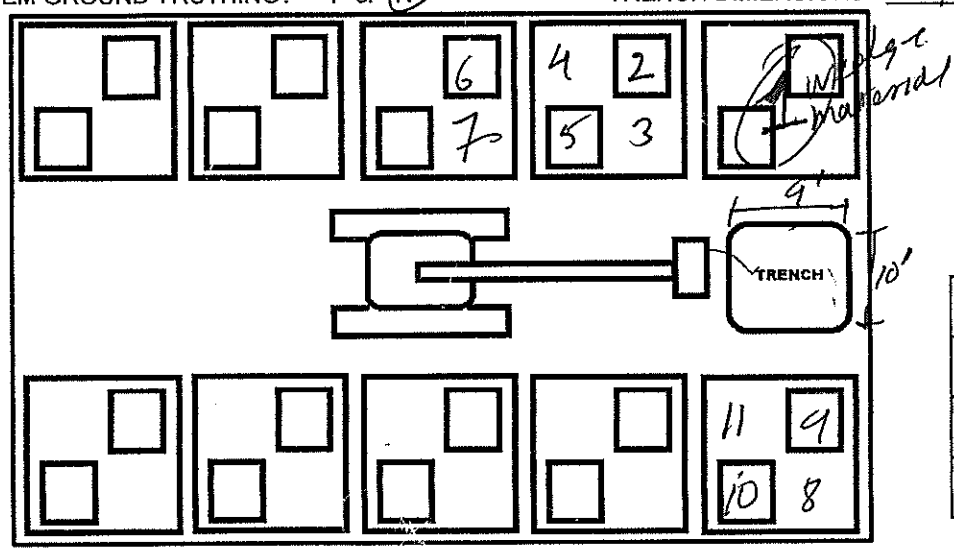
ID #5
N 507107.38
E 3654407.21

Trench #24

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 4+42
START TIME - 3:13 pm
END TIME - 4:45 pm
WEATHER - 65° Sunny
DATE - 11/3/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 34' (Toe)
TOP OF TRENCH EL - 6.1'
ORIGINAL GROUND ELEV - 11.0'
TRENCH DEPTH - (3.4') 3.4'
TRENCH DIMENSIONS - 10x9



BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

Wedge 1500psf

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	5.5	Wedge	Exposed settlement plate & wood		
2	5.0	N	N		
3	3.0	N	N	Dark Gray Black Clay w/shells (CH)	
4	4.5				
5	4.5				
6	3.5	Y	Y		
7	3.5				
8	3.0	N	N		
9	3.0	N	N		
10	2.5	N	N		
11	2.5	Y	Y	wood	
12					
13					
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

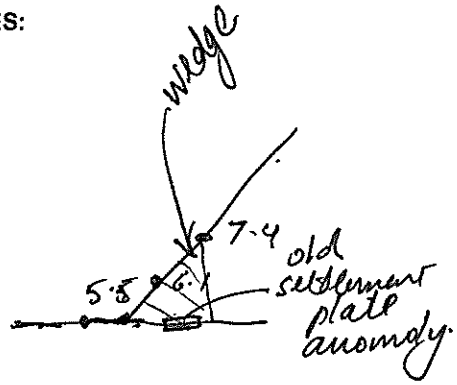
750psf Wedge
800 HF
1500psf
HF
1500psf
HF
750psf
1600psf
Existing Levee material
700psf

* See key sheet

BULK SAMPLES TAKEN:
1
2 2000psf
3
3
4 1600psf

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N — old fill

NOTES:



Decomposed large pieces of wood @ El. 3.7

Wedge 18"x3"x3", 17"x4"x2" settlement plate, wood stakes

El. 5.5-4.5 Small piece of brick

El. 4.5-3.5 15"x3"x4" wood, small piece of stone

3.5-2.5 (14"x3½"x2", 13"x3½"x4", 13"x3½"x4 wood)

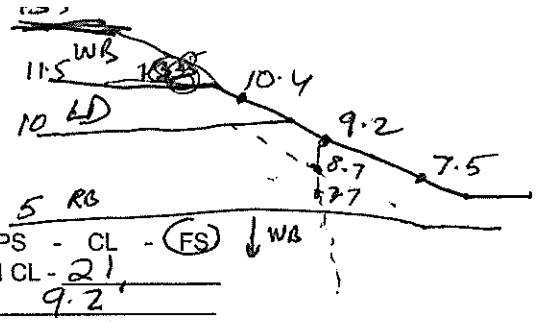
(12"x4"x9", 7"x4"x7", 8"x4"x5"

ATTACHMENT "A"

IV # 1
N 507109.3
E 3654100.2

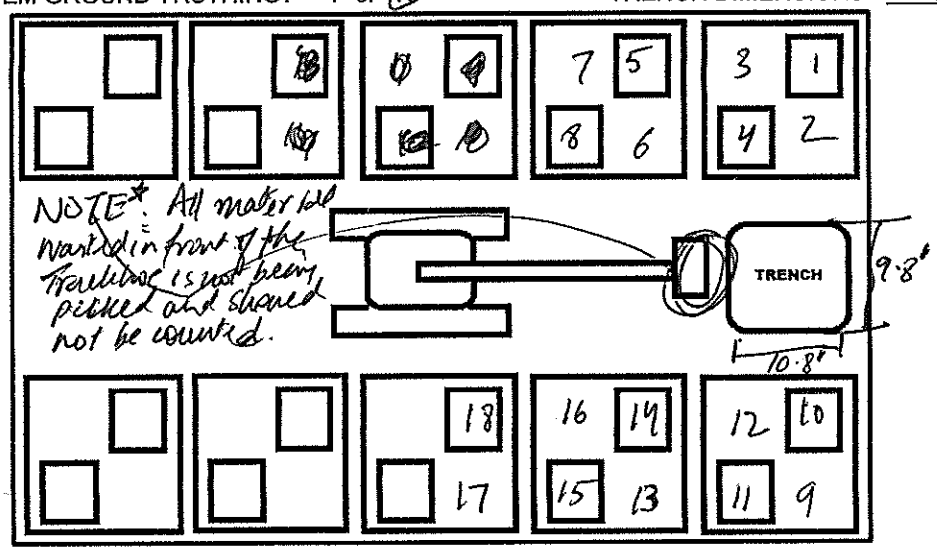
Trench #25

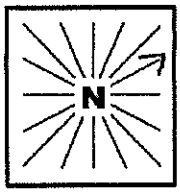
WBV 14C.2
TRENCHING FIELD LOG



CL STA - 1+41
START TIME - 5:05 pm
END TIME - 6:15 PM
WEATHER - 60° Sunny
DATE - 11/3/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS) ↓WB
TRENCH OFFSET FROM CL - 21'
TOP OF TRENCH EL - 9.2'
ORIGINAL GROUND ELEV - 2.0
TRENCH DEPTH - 5 ft
TRENCH DIMENSIONS - 9.8' X 10.8'





BORROW SOURCE SUMMARY

Willow Bend	(River Birch)	EL 10.4
Existing Levee	WBV 14B2	
(Willow Bend)	River Birch	EL 4.2
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	
Willow Bend	River Birch	EL
Existing Levee	WBV 14B2	

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

	BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1300psf	1	8.7	Y	Y	Old metal hollow pipe (3" dia 28" length)	500psf
1FT	2	8.7	N	N		
	3	8.1	N	N		
	4	8.7	N	N		1500psf
1600psf	5	7.7	N	N		
1FT	6	7.7	Y	Y		
	7	7.1	Y	N		
	8	7.1	N	N		1600psf
1600psf	9	6.7	Y	N		
1FT	10	6.7	N	N		
	11	6.2	Y	N		
1400psf	12	6.2	N	N		1400psf
	13	5.7	N	N		
1FT	14	5.7	N	N		
	15	5.2	N	N		
2100psf	16	5.2	Y	N		2100psf
	17	4.7	Y	Y		
	18	4.7				
	19	4.2				
	20	4.2				
	21					
	22					
	23					
	24					

Riverbirch, Black Brown Fat Clay CH

↓WB Brown Fat Clay CH

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or	(N)
SAND STRATAS	Y or	(N)
STABILITY CONCERN	Y or	(N)
GOOD COMPACTION	(Y) or	N

NOTES: 0-1.1 28" x 3" steel hollow pipe
16"x3"x3" wood

* See key sheet.

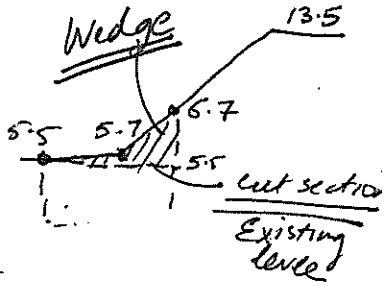
ATTACHMENT "A"

Point #1 (Wedge) Trench moved arrowwoby. Trench moved near PS Levee Toe

Trench #26

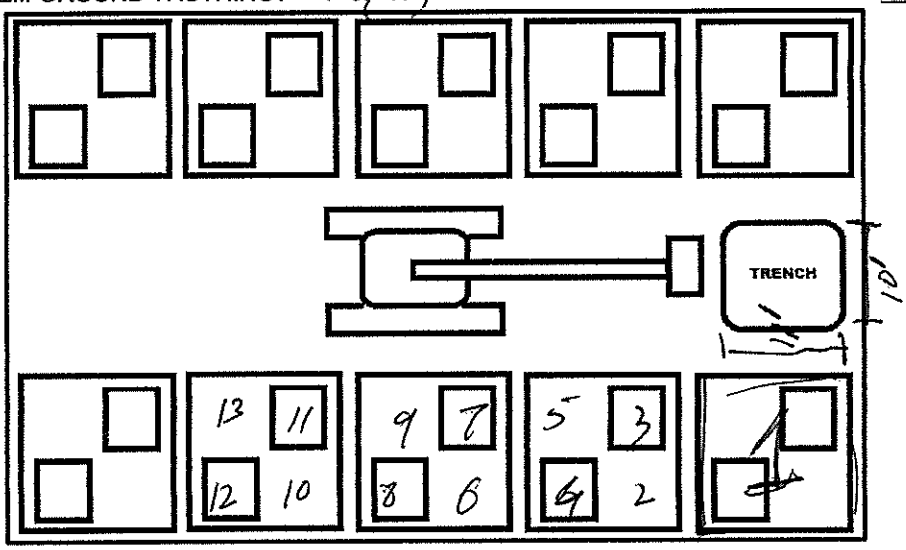
N 5055088
E 3660659.2

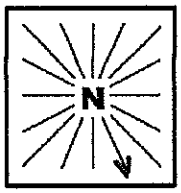
WBV 14C.2
TRENCHING FIELD LOG



CL STA - 71+39
START TIME - 8:15am
END TIME - 9:14am
WEATHER - 50 Sunny
DATE - 11/4/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) - CL - FS
TRENCH OFFSET FROM CL - 36'
TOP OF TRENCH EL - 5.7
ORIGINAL GROUND ELEV - 11.3
TRENCH DEPTH - (3ft) 3.7
TRENCH DIMENSIONS - 11'X10'





BORROW SOURCE SUMMARY

Willow Bend / Existing Levee	River Birch / WBV 14B2	EL 5.5
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL
Willow Bend / Existing Levee	River Birch / WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15' X 15' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
Wedge 1	5.5	Y	Y	Piece of Concrete	
2	6.0	N	N		
3	5.0	Y	Y	Big piece of wood	
1ft 4	4.5	N	N		
5	4.5	N	N		
6	4.0	Y	Y	Concrete piece	
1ft 7	4.0	N	N		
8	3.5	N	N		
9	3.5	Y	Y	~~[illegible]~~	
10	3.0	Y	Y	Small pieces of concrete	
11	3.0	Y	Y	Big piece of concrete	
1ft 12	3.5	Y	Y	Small piece of wood	
13	3.5	N	N		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

Dark brown Loam & Fat Clay w/Gravel (CH)

22"x15"x6"

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:
Wedge: 2 small pieces of concrete
0'-1' – 22"x8"x4" dry piece of wood (falling apart) small piece of wire, and small tile
1'-2' 9"x5", 8"x8" (pieces of concrete)
2'-3 15"x9"x3½", 22"x15"x6" 4 small pieces of conc., glass bottle

2 ft 2300 psf 2600 psf
1 ft 1800 psf 1700 psf
3" 1900 psf 1600 psf

Comments by Pat: Mentioned he is seeing more concrete here than any other trench and wants to confirm with COE engineering division of conservative estimates were made for structure in consideration of the concrete debris

ATTACHMENT "A"

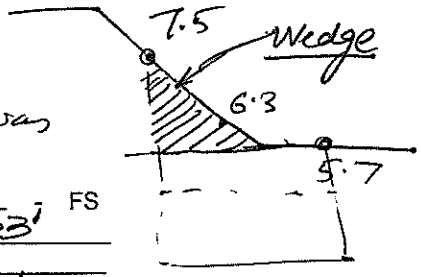
Point ID #21 (aka Wr cause)

N 501855.8
E 3659653.7

Trench #d 7

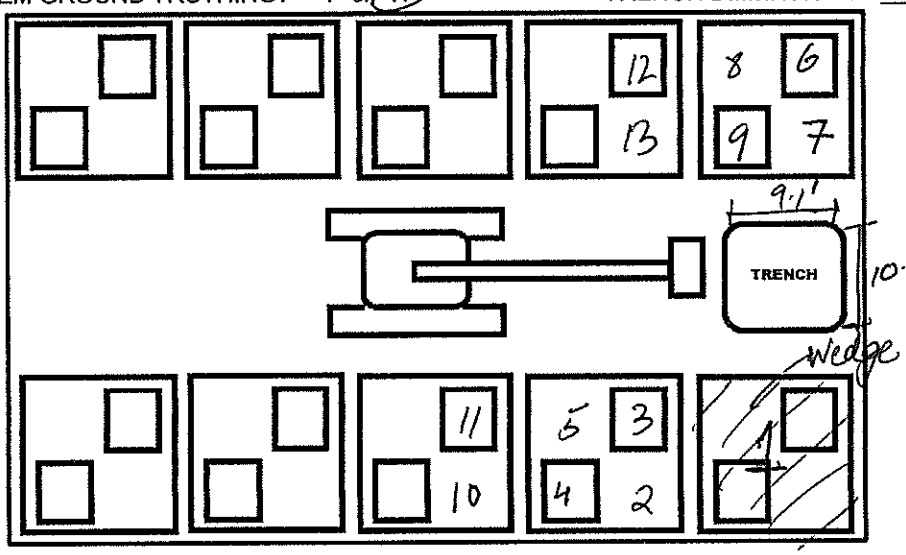
WBV 14C.2
TRENCHING FIELD LOG

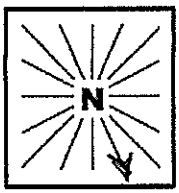
Glenn: Old levee material in this area was discarded



CL STA - 109+30
START TIME - 9:27am
END TIME - 10:30 am
WEATHER - 50° Sunny
DATE - 11/4/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - (PS) CL FS
TRENCH OFFSET FROM CL - 33'
TOP OF TRENCH EL - 6.3'
ORIGINAL GROUND ELEV - 11.3'
TRENCH DEPTH - 3'
TRENCH DIMENSIONS - 9.1' X 10.7'





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
Wedge 1	5.7	Y	Y	Wood	
2	5.0	N	N		
1ft 3	5.0	Y	N	Gray Fat Clay	
4	4.5	N	N	(CH)	
5	4.5	N	N	Existing Levee	
6	4.0	N	N	Material	
1ft 7	4.0	N	N		
8	3.5	N	N	Borrow	
9	3.5	N	N	Gray Lean	
10	3.0	N	N	Clay (CH)	
1ft 11	3.0	N	N		
12	2.5	N	N		
13	2.5	N	N		
14					
15					
16					
17					
18					
19					
20					
21					
22					
23					
24					

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS
SEEPAGE CONCERNS Y or (N)
SAND STRATAS Y or (N)
STABILITY CONCERN Y or (N)
GOOD COMPACTION (Y) or N

NOTES: Glenn mentioned that the existing levee material was discarded in this area.

Wedge: 12"x4"x3", geogrid
@ 5.7'-4.5' 17"x4"x2", 13"x4"x2" wood

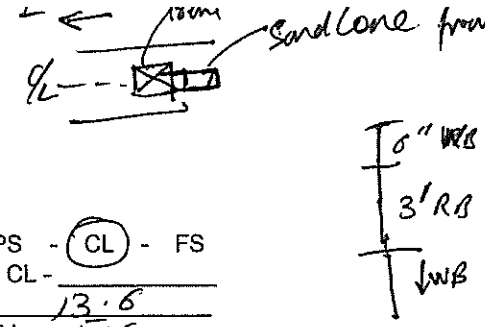
3' 800, 1200 pf
2', 800, 1500 pf
1' 2900, 2100 pf
3" 2000, 1600 pf

ATTACHMENT "A"

N 500757.1
E 3664156.3

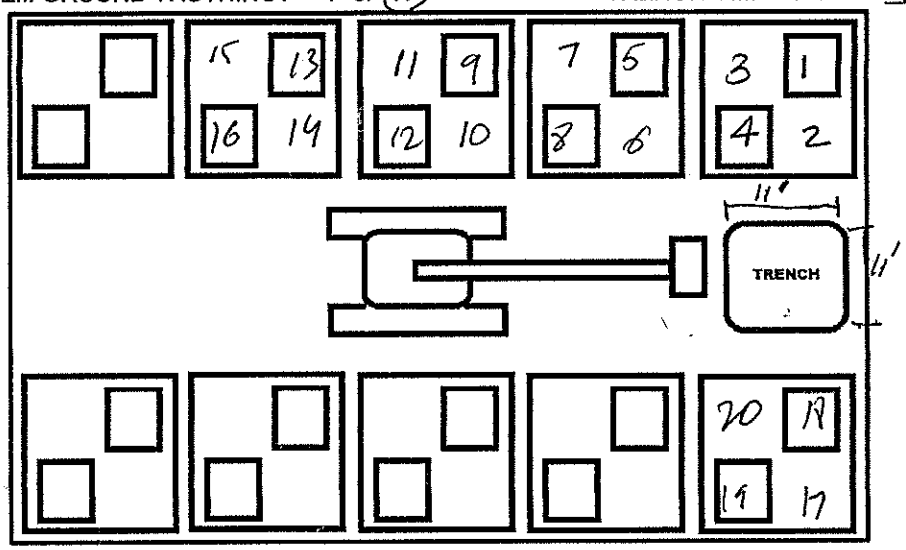
Trench #28

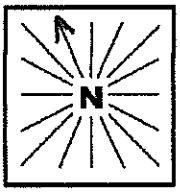
WBV 14C.2
TRENCHING FIELD LOG



CL STA - 162+50
START TIME - 12:00 pm
END TIME - 1:30 pm
WEATHER - 60° Sunny
DATE - 11/4/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - (CL) - FS
TRENCH OFFSET FROM CL -
TOP OF TRENCH EL - 13.6
ORIGINAL GROUND ELEV - 5.6
TRENCH DEPTH - (3.5ft) 5'
TRENCH DIMENSIONS - 11' X 11'





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL 13.6
Willow Bend Existing Levee	River Birch WBV 14B2	EL 13.0
Willow Bend Existing Levee	River Birch WBV 14B2	EL 8.5
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15' X 15' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	13.0	N	N		Lean Clay CH Brown
2	13.0	Y	N		
3	12.5	~~Y~~ N	Y		~~Brown Lean to~~
4	12.5	N	N		Fat Clay CH
5	12.0	N	N		
6	12.0	Y	N		
7	11.5	Y	N		
8	11.5	N	N		
9	11.0	N	N		
10	11.0	Y	Y		
11	10.5	Y	Y		Fat Grey Clay
12	10.5	Y	Y		(CH)
13	10	Y	Y		
14	10	Y	Y		Small debris
15	9.5	Y	Y		
16	9.5	N	N		
17	9.0	N	N		
18	9.0	Y	Y		
19	8.5	Y	Y		
20	8.5	Y	Y		
21					Brown
22					Fat Clay
23					
24					

3000psf
2700psf
1100psf
1200psf
WB
2100 RB
1500psf
RB 1500 psf
2700psf
WB

* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)	
SAND STRATAS	Y or (N)	
STABILITY CONCERN	Y or (N)	
GOOD COMPACTION	(Y) or N	

NOTES:
3'-4' → 15"x4"x4" wood
4-5' → 14"x2"x2"

ATTACHMENT "A"

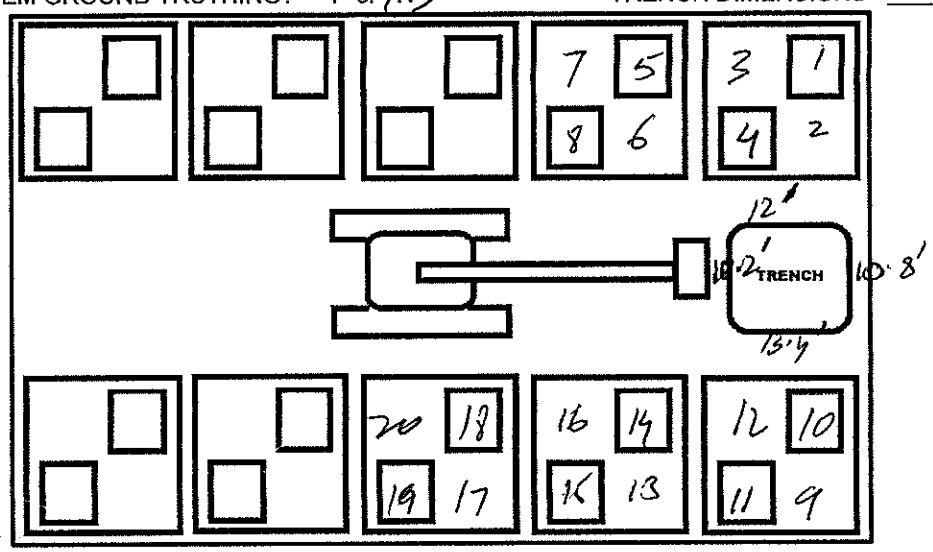
N 500 798.0
E 366 3398.0

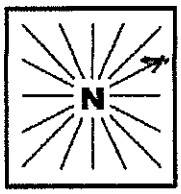
Trench 29

WBV 14C.2
TRENCHING FIELD LOG

CL STA - 154+50
START TIME - 1:45 pm
END TIME - 2:20 pm
WEATHER - 60° Sunny
DATE - 11/4/2011
EM GROUND TRUTHING? - Y or (N)

TRENCH LOCATION - PS - CL - (FS)
TRENCH OFFSET FROM CL - 12'
TOP OF TRENCH EL - 11.6
ORIGINAL GROUND ELEV - 5.1
TRENCH DEPTH - (5 ft)
TRENCH DIMENSIONS -





BORROW SOURCE SUMMARY

Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL
Willow Bend Existing Levee	River Birch WBV 14B2	EL

NOTE: INDICATE BUCKET No. IN EACH LOCATION OF MATERIAL PLACEMENT. MAXIMUM OF TWO BUCKET DROPS PER 15 ' X 15 ' OF GEOTEXTILE FABRIC. OPERATOR TO DISTRIBUTE MATERIAL EVENLY TO ALLOW FOR FULL INSPECTION. ABOVE LAYOUT OF FABRIC REPRESENTS 6-INCH EXCAVATION CUTTINGS PLACEMENT.

TRENCHING OBSERVATIONS

BUCKET #	ELEVATION	VISUAL (Y/N)*	HEARD (Y/N)*	DEBRIS Y/N	Soil Type*
1	11.0	N	N		
2	11.0	N	N		
3	10.5	N	N		
4	10.5	N	N		
5	10.0	N	N		
6	10.0	N	N		
7	9.5	N	N		
8	9.5	~~N~~ Y	N	Objectionable	
9	9.0	Y	Y	Objectionable wood	
10	9.0	N	N		
11	8.5	N	N		
12	8.5	N	Y		
13	8.0	Y	Y	Objectionable	
14	8.0	Y	N		
15	7.5	N	N		
16	7.5	N	N		
17	7.0	~~N~~ Y	Y	Objectionable (2)	
18	7.0	Y	Y		
19	6.5				
20	6.5				
21					
22					
23					
24					

1200 ppm
2800 ppm
1700 ppm
1900 ppm
2000
300 ppm
2500 ppm
500, 600 ppm

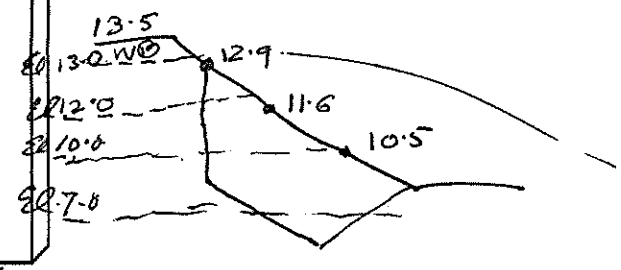
* See key sheet.

BULK SAMPLES TAKEN:
1
2
3
3
4

TRENCH WALL OBSERVATIONS

SEEPAGE CONCERNS	Y or (N)
SAND STRATAS	Y or (N)
STABILITY CONCERN	Y or (N)
GOOD COMPACTION	(Y) or N

NOTES:



2-3 27"x6"x4", 12½"x4"x3½" (wood)
3-4' 13"x4"x2½" (wood)

Brad: said more objectionable than other trenches

ATTACHMENT "A"