

L E t tr g m g' t m 16 m 28 n / g L t C m m E t t t t
E t tr g g m 4.3 m g / g t 23 m g / g t - t t g' t m t
g' t .

a

A E t g t FL A II EL 1D DAINAGE: g' t - t - E v t

| N t L t t t t k g)
| N t g t t t k g)
| N t v t t t k g)
| N t E v t t k g)
| N t (t t t t k g)
| N t E f m A H t t t
| N t m C A it 22 t
| N t t t t 65
| N t t t t 22 A
| N t t t t t t t t m t
| N t t t t t t t t m t
| N t t t t t t t t m t
| N t t t t t t t t m t
| N t t t t t t t t m t
| N t t t t t t t t m t
| N t t t t t t t t m t

-1 R N G N N-Z R .

N R R R N(R)- 00

-1 (R N G) z R R N R
z B NG N B R R

	Na	00	00 0	00 1	00 2	00 3	00 4	00	00
C m	N m :	I C0069 001	I C0070 001	I C0071 001	I C0072 001	I C0073 001	I C0074 001	I C0075 001	I C0076 001
m	E D t :	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009
m	D t (t):	1.1 - 1.6	0.0 - 0.5	0.2 - 0.7	0.3 - 0.8	0.0 - 0.4	1.0 - 1.5	1.5 - 2.0	0.0 - 0.2
a a	a a								

a

A tim-	500	150	--	<10	<10	<10	<10	<10	<10
A -	500	50	100	20	4.2 J	3.9	4 B	4	3.8 B
B r' m	10,000	1,000	2,000	57	52	69	84	76	72
B r' m	75	7.5	--	0.44 J	0.55	0.48 J	0.49 J	0.48 J	0.47 J
C mi' m	100	10	20	<0.5	<0.5	0.33 J	<0.5	0.29 J	<0.5
C mi' m	500	50	100	16	26	23	21	21	18
C t	8,000	800	--	4.1	7.7	5	5.1	5.3	4.8
C t	2,500	250	--	7.3	21	11	8.1	10	5.4
L	1,000	50	100	19	4.3	5.5	6.6	15	10
M E	20	2	4	<0.033	0.0073 J	0.019 J	<0.033	0.015 J	0.012 J
M -' m	3,500	3,500	--	<2	0.46 J	<2	<2	0.32 J	0.2 J
N K	2,000	200	--	10	17	14	15	14	12
N K	100	10	20	<2	<2	1.6 J	<2	<2	<2
N K	500	50	100	<1	<1	<1	<1	<1	<1
N K	700	70	--	<10	<10	<10	<10	<10	<10
N K	2,400	240	--	25	35	33	33	32	28
N K	5,000	2,500	--	53	40	63	46	82	44

1,2,4-E-
-E-

g / g -- -' m

3,500	3,500	--																										
-0.12 0 10	0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	
0 1.0 0 -0.12 0	1.00 0 000320	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0	1.0	0 -0.12 0			

300 --

N R R R
 (R)-00
 -1 (RNG) Z R R NR
 Z B NG N
 N N B R R

			Na	00	00 0	00 1	00 2	00 3	00 4	00	00
m	N	m	: I	C0069 001	I C0070 001	I C0071 001	I C0072 001	I C0073 001	I C0074 001	I C0075 001	I C0076 001
C	E	D	: 7/28/2009								
m	D	t	(t): 1.1 - 1.6		0.0 - 0.5	0.2 - 0.7	0.3 - 0.8	0.0 - 0.4	1.0 - 1.5	1.5 - 2.0	0.0 - 0.2
N	N		a a	a a							
			a								
2-N			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
2-N			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
3,3'-D			--	--	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
3-N			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
4,6-D		-2-	--	--	<0.84	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
4-B			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
4-C		-3-	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
4-C			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
4-M			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
4-N			--	--	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
4-N			--	--	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
A			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
A			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
A			--	--	<0.84	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
A			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B			--	--	<1.3	<0.66	<0.66	<0.66 M2	<0.66	<0.66	<0.66
B			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		()	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		()	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		()	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(, ,)	--	--	<0.66	<0.33	<0.33	0.21 J	<0.33	<0.33	<0.33
B		(, ,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(, ,)	--	--	<1.7	<0.83	<0.83	<0.83	<0.83	<0.83	<0.83
B		(, ,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(2-)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(2-)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(2-)	--	--	<0.34	<0.17	<0.17	<0.17	<0.17	<0.17	<0.17
B		(2-)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
B		(2-)	--	--	0.21 J	<0.33	0.19 J	<0.33	0.23 J	<0.33	0.22 J
B		(2-)	--	--	<0.66	<0.33	<0.33	<0.33 M1	<0.33	<0.33	<0.33
C			--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
D		(,)	--	--	<0.84	<0.42	<0.42	<0.42	<0.42	<0.42	<0.42
D		(,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
D		(,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
D		(,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
D		(,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33
D		(,)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33	<0.33

N R R R
 N(R) - 00
 -1 (R N G) Z R R NR
 Z B NG N
 N N B R R

Na		00	00 0	00 1	00 2	00 3	00 4	00	00		
m	N m :	I C0069 001	I C0070 001	I C0071 001	I C0072 001	I C0073 001	I C0074 001	I C0075 001	I C0076 001		
C	E D t :	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009	7/28/2009		
m	D t (t):	1.1 - 1.6	0.0 - 0.5	0.2 - 0.7	0.3 - 0.8	0.0 - 0.4	1.0 - 1.5	1.5 - 2.0	0.0 - 0.2		
N	N	a a a	a	R	R	R	R	R	R		
D	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
F	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
F	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
H	E	--	2,600	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
H	E	--	10,000	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
H	E	--	--	<1.7	<0.83 C-2	<0.83	<0.83	<0.83 C-2	<0.83 C-2		
H	E	--	60,000	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
I	(1,2,3-E)	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
I	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
N	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
N	E	--	40,000	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
N-N	E im t mr	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
N-N	E - - mr	--	--	<0.5	<0.25	<0.25	<0.25	<0.25	<0.25		
N-N	E - - mr	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
E	E	17,000	17,000	2,000,000	<1.7	<0.83	<0.83	<0.83	<0.83		
E	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
E	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
E	E	--	--	<0.66	<0.33	<0.33	<0.33	<0.33	<0.33		
1,1,1,2-E	E	--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025 I	<0.0024	<0.0021	<0.0036
1,1,1-E	E	--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018
1,1,2,2-E	E	--	--	<0.002 I	<0.0025 I	<0.0022 I	<0.0023	<0.0025 I	<0.0024	<0.0021 I	<0.0036 I
1,1,2-E	E	--	--	<0.001	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018
1,1-D E	E	--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018
1,1-D E	E	--	14,000	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024	<0.0021	<0.0036
1,1-D E	E	--	--	<0.001	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018
1,2,3-E	E	--	--	<0.002 I	<0.0025 I	<0.0022 I	<0.0023	<0.0025 I	<0.0024	<0.0021 I	<0.0036 I
1,2,3-E	E	--	--	<0.002 I	<0.0025 I	<0.0022 I	<0.0023	<0.0025 I	<0.0024	<0.0021 I	<0.0036 I
1,2,4-E	E	--	--	<0.002 I	<0.0025 I	<0.0022 I	<0.0023	<0.0025 I	<0.0024	<0.0021 I	<0.0036 I
1,2,4-E im t	E	--	--	<0.001 I	<0.0013 I	<0.0011 I	<0.0012	<0.0013 I	<0.0012	<0.0011 I	<0.0018 I
1,2-D E -3-E	E	--	--	<0.01 I	<0.013 I	<0.011 I	<0.012	<0.013 I	<0.012	<0.011 I	<0.018 I
1,2-D E (EDB)	E	--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013 I	<0.0012	<0.0011	<0.0018
1,2-D E	E	--	--	<0.001 I	<0.0013 I	<0.0011 I	<0.0012	<0.0013 I	<0.0012	<0.0011 I	<0.0018 I
1,2-D E	E	--	10,000	<0.001	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018
1,2-D E	E	--	--	<0.001	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012	<0.0011	<0.0018

N R R R N(R)- 00

-1 (R N G) Z R R N R
Z B NG N B R R

Na 00 00 0 00 1 00 2 00 3 00 4 00 00
C m E N m : I C0069 001 | C0070 001 | C0071 001 | C0072 001 | C0073 001 | C0074 001 | C0075 001 | C0076 001
C m E t D t : 7/2835.72 -0.24 31 H9868 ANA FIELD LAB A

N R R R
 (R)- 00
 -1 (R NG) Z R NR
 Z B NG N
 N N B R R

			Na	00	00 0	00 1	00 2	00 3	00 4	00	00
m	N	m	: I	C0069 001	I C0070 001	I C0071 001	I C0072 001	I C0073 001	I C0074 001	I C0075 001	I C0076 001
C	E	D	: 7/28/2009								
m	D	t	(t): 1.1 - 1.6		0.0 - 0.5	0.2 - 0.7	0.3 - 0.8	0.0 - 0.4	1.0 - 1.5	1.5 - 2.0	0.0 - 0.2
M				a a	a a						
N				a							
-B											
-I											
-F-B											
-A	M	E	(AME)								
-B	(BA)										
-1,2-D											
-1,3-D											
R	N										
M	E	(BE)		--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
N	E	(BE)		--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
-B	E	(BE)		--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
-I	E	(BE)		--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012
-F-B	E	(BE)		--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012
-A	M	E	(AME)	--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
-B	(BA)			--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012
-1,2-D	E	(BE)		--	--	<0.051	<0.063	<0.054	<0.058	<0.063	<0.06
-1,3-D	E	(BE)		--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
R	N			--	--	14,000	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013
M	E	(BE)		--	--	0.003	0.011	<0.0011	0.0006 J	<0.0013	<0.0012
-1,2-D	E	(BE)		--	--	<0.001 I	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012
-1,3-D	E	(BE)		--	--	<0.001	<0.0013	<0.0011	<0.0012	<0.0013	<0.0012
R	N			--	--	2,040,000	2,040,000	10,000	<0.001	<0.0013	<0.0011
M	E	(BE)		--	--	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025	<0.0024
-1,2-D	E	(BE)		--	--	<0.0051 I	<0.0063	<0.0054	<0.0058	<0.0063	<0.006
-1,3-D	E	(BE)		--	--	4,000	<0.002 I	<0.0025	<0.0022	<0.0023	<0.0025
R	N			--	--	<0.0041 I	<0.0051	<0.0043	<0.0046	<0.0051 I	<0.0048
M	E	(BE)		--	--						

N R R N(R)- 00

N R R R N(R)- 00

Z R R N R N
Z B NG B N R R

M2 - M / M D - . E t - E mit ' t m m t
r t - E . B - k k (LC).
g / g - m g m - k g m
n / g - m g m - k g m
n / L - m g m - k t
C - g E - E g mm E E (N -22, K-40, M -54, C -60,
C -134, C -137, E -152, E -154, -228, -232, -235, -238 A_m -241),
t - t' m -90, - t' m B - g - - - E m - t t Ag t 17,
2009 t t - v t - r g - - t - t t t t t t t t t
008 t E - E t - t m . B - t t t t t t t t t
E t
t - r g E - E t - t m - t t C 1,2, 1/2 3 m t E t t t