

engineering and constructing a better tomorrow

April 5, 2007

Mr. Ron Purkey Tennessee Valley Authority 1101 Market Street, LP-2G Chattanooga, TN 37402

Subject:

Field Density Test Results and

Records of Site Visits

TVA Kingston Dredge Cell

Kingston, Tennessee

MACTEC Project 3043061047

Dear Mr. Purkey:

Attached are Field Density Test Results and Records of Site Visits on your project for the period ending March 23, 2007. We note units of time shown on invoices but not accounted for on a Record of Site Visit are units spent for meetings, administration, analyses, report preparation, telephone discussions, etc.

If you have any questions concerning the attached information, please contact us.

Sincerely,

MACTEC ENGINEERING AND CONSULTING, INC.

Jim Law NICET IV

Construction Services Supervisor

Carl D. Tockstein, P.E.

Chief Engineer – Tennessee Operations

JL/CDT:sac

Attachments

Cc:

Mr. Larry Harless

Tennessee Valley Authority

MACTEC Engineering and Consulting, Inc.

1725 Louisville Drive • Knoxville, TN 37921-5904 • Phone: 865,588.8544 • Fax: 865,588.8026

www.mactec.com

REPORT OF FIELD DENSITY TESTS

■MACTEC

1725 Louisville Drive Knoxville, TN 37921 Phone: (865) 588-8544 Report Date: 4/12/2007

CLIENT: TENNESSEE VALLEY AUTHORITY PROJECT: TVA Cumberland

Cumberland City, TN

JOB NO.: 3043061047

TEST DATE	TEST NUMBER	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	PROCTOR NUMBER	MAX DRY DENSITY (PCF)	OPTIMUM MOISTURE (%)	COMPACTION (%)	SPECIFIED COMPACTION (%)	TEST METHOD	ELEVATION OR DEPTH
03/20/2007	0001	16.2	98.7	2	101.8	15.3	97	95	3	1st lift
Location: Comments:	West side o	f ash pile - sil	o area							
03/20/2007	0002	17.3	99.1	2	101.8	15.3	97	95	. 3	1st lift
Location: Comments:	West side o	f ash pile - sil	o area							· .
03/20/2007	0003	16.5	101.6	2	101.8	15.3	100	95	3	1st lift
Location: Comments:	West side of	f ash pile - sil	o area							
03/20/2007	0004	15.3	102.3	2	101.8	15.3	100 +	95	3	1st lift
Location: Comments:		of ash pile - sil	lo area							
03/20/2007	0005	17.5	101.7	2	101.8	15.3	100	95	3	1st lift
Location: Comments:		of ash pile - si	lo area							
03/20/2007	0006	16.2	100.4	2	101.8	15.3	99	95	3	lst lift
Location: Comments		of ash pile - si	lo area							
03/20/2007	0007	17.1	102.8	2	101.8	15.3	100 +	95	3	1st lift
Location: Comments		of ash pile - si	lo area							
03/20/2007	0008	16.0	101.1	2	101.8	15.3	99	95	3	1st lift
Location: Comments		of ash pile - si	ilo area						· · · · · · · · · · · · · · · · · · ·	
03/20/2007	0009	15.0	100.7	2	101.8	15.3	99	95	3	1st lift
Location: Comments		of ash pile - s	ilo area						-	
03/20/2007	7 0010	16.2	103.6	2	101.8	15.3	100 +	95	. 3	1st
Location: Comments		of ash pile - s	ilo area	-						<u>.</u>

REMARKS

Performed in General Accordance With:

3 - ASTM D2922

<< Denotes Less Than Specified Compaction

DISTRIBUTION

Mr. Larry Harless, TENNESSEE VALLEY AUTHORITY (D1) Mr. Ron Purkey, TENNESSEE VALLEY AUTHORITY (D1)

RESPECTFULLY SUBMITTED:

Jim Law





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MACTEC REPORT OF ON-SITE FIELD DENSITY TESTING

lient:		T, V. 1						
roject: /		7,4,7	umbuelo	2.4.7 ions				Marchall, 2007
echnician:	-	J: n B:5	Lop	Employee N	o.: _	7J 5046	Job. No.:	3043061016 .01
1. As rea Macte	quested lec was pr	by Milde resent on the pr	Tread a	represent representation field density tes	nting _ ting ser	TVA vices. Results	s of the field density	a representative of tests are attached.
•								
		to remark! from	field	density tests wer at approximately	e perfo	rmed in be integrated for the lateral section in the lateral section is a section of the lateral section in the lateral section is a section in the lateral section in the lateral section is a section in the lateral section in the lateral section is a section in the lateral section in the lateral section is a section in the lateral section is a section in the lateral section in the lateral section is a section in the lateral section in the lateral section is a section in the lateral section in the lateral section in the lateral section is a section in the lateral section	et below percent of the	Field density maximum dry density as
to d	est resur letermine	ts ranged from ed by ASTM I	0 698/ <u>(155</u> 7)		porcon			
В. Б	Remarks:							
_								
c			fie	ld density tests we	ere per	formed in	tely	feet below
-	· -			abla for the coils i	n niace	Representati	ive samples of the i	ill material were obtained pletion of the Proctor test
3. After in th of th	r the area le vicinit le maxin	as of failing de ies of test num num dry densi	ensity were nbers ty as detern	. T	he rete:	st results range 557.	ed from, per	retests were performe recent to percer
4.	Mile			of	T	U, A	was not	ified of the test results of
	-70-0	<u> </u>	Tanan kacamatan dari					
Weather Conditio	ons:		Partly	Cloudy /	714			
No. FDT's Perfo			Passing Tests				Retests: 0	No. Hours Worked:
No. Hours O.T.			-	s: <u>486</u>	No.	Hours Standby:		No. Hours Travel:
(m)	Res	WQ.				Mike	Mulas	
		i Representati					Client Represe	
FDT res	ults are	subject to cha	inge after e	ngineering review	v. FD	results are n	ot indicative of soi	l bearing capacity.
			"TO BE	FILLED OUT B	y OFF	ICE PERSON	INEL"	
Service Code U	sed			`				
Units Charged								
Rates Charged								