FINAL DATA REPORT Rev. 2 GEOTECHNICAL EXPLORATION AND TESTING

TURKEY POINT COL PROJECT FLORIDA CITY, FLORIDA

October 6, 2008

VOLUME 4

Prepared By:

MACTEC Engineering and Consulting, Inc. Raleigh, North Carolina

MACTEC Project No. 6468-07-1950

Prepared For:

Bechtel Power Corporation Subcontract No. 25409-102-HC4-CY00-00001

<u>Contents</u>
Appendix F – RCTS Data Reports
Appendix G – Groundwater

FINAL DATA REPORT Rev. 2 GEOTECHNICAL EXPLORATION AND TESTING

TURKEY POINT COL PROJECT FLORIDA CITY, FLORIDA

October 6, 2008

VOLUME 4 Appendix G – Groundwater Data

Prepared By:

MACTEC Engineering and Consulting, Inc. Raleigh, North Carolina

MACTEC Project No. 6468-07-1950

Prepared For:

Bechtel Power Corporation Subcontract No. 25409-102-HC4-CY00-00001

Contents

Well Construction Permits
Observation Well Records
Well Development Records
Well Sampling Records
Laboratory Test Reports
Slug Test Data Forms

Well Construction Permits

To: Tom Mc-DANIEL

Folio #: 30-7034000-0010

Security rest Security res				STATE OF FLYRIDA P REPAIR, MODIFY, OR		N TO CONSTRUCT	4.	19169126:	*	
Be. Left her Bright Provided Service William Provided Service William Provided Service William Control of Management Service William Control of Ma		-		☐ Southwest	•	ED OUT COMPLETELY.	1		tteched)	
Control Court Co		-		🗓 St. Johns Filver	The water well contractor is	responsible for completing t	ihtr	<u> </u>		
Social Service Light Long The Service			A STATE OF	Suwannee River	county where applicable.	••	OCTOR NO	•		•
Contract	ļ			CHRIX BOX FOR AFFR DPRATE DIST	IRICT. ADDRESS ON BACK OF PER		e. Z	१५६ वहालुक्ता वस्तु व्यक्ता वस्तु हो।	ipa Anay	
2 MACTE Storms Read Plants or Nations, City 2 Wild Carling Commercial 2 Wild Carling Commercial 3 MACTES Storms Read Plants or Nations, City 4 MACTES Storms Read Plants or Nations, City 5 Mactes Read Plants Read Plants or Nations, City 5 Mactes Read Plants Read Pl		1.	Florida Pou	ver + Light Los	9700 SW 344			33034 30	52466407	
MACHEC Land Accord (Cardo Hins Tax - Hills) Pits 7 4 1035 Well string Company September 1 2 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5					Address	S CII כוני אין איני אין אין אין אין אין אין אין אין אין אי	v. d Flee I		.,	
A Course No. 1. Services No. 1. Servic								City Ph	, ,	
A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A SLAN 16 of MAN 16 of Section 34 A Supplication for the Section 34 A Supplication for the Section 34 A Application for the Section 3	dores.	a. /	MACTEC Fool Well Dritting Controctor	necount + Cansultin	5 Inc - Philip Pit	5 FL# 11035	5 4	64 873 476) NE	
And the control of th	KOD K	:		tera Ave		4. SW 1/4 01				
2. Number of proposed wells	1		Attoress Atlanta	CA			(Indiest	e Well on Charl) 🗶		
7. Number of proposed walks Chrisch the use of walks (per base a period or adding a nation	attso.	٠ ﴿	City	Strute	Zip	- 6. Township 🚅	Range	40 1		
7. Number of proposed wells	RATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COL	٤.	Miami Onde	N/A		N/A N/	A N/I	4	SE	
Clear Book Indignation (types) Public Walar Buophy (types) Clear Section Clear Secti					· · · · · · · · · · · · · · · · · · ·	1.01 .010			die lafali	•
Ches seed) Distance from septic system A. Description of facility 8. Application for: New Construction Repain/Modify Abertionment Casing Indiante: Bis Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Indiante: Bis Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Casing Desmeter Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of the Steel / Call (PIV) Distance from page of t		7.				,	Domestic Monti	or (Upo) Linsenv		
8. Application for: New Construction: Reput/Modify 9. Estimated: Well Depth 126 11 Seat Material 120 Screen Name of Pascontrated 10. If applicable: Proposed From 120 to 121 Seat Material 16120 Since Sand 11. Telephone Cealing Material 16120 Since Sand 12. Seat Material 16120 Since Sand 13. Telephone Cealing to 120 to 120 Seat Material 16120 Since Sand 14. Telephone Cealing to 120 South Material 16120 Since Sand 15. Telephone Cealing to 120 South Material 16120 Since Sand 16. Telephone Cealing to 120 South Material 16120 Since Sand 17. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 18. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 List mamber of usuased wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand 19. Indicate rotal No. of wells on site 20 Since Sand		•	(SAL Bech)	4-	(Ene Buct)			- F /2 10	HE D	NENT
10. If applicable: Proposed From 1.0 to 1.1 Seel Material 8.1.0 Since Seel Material 1.1.1 Since a map of real localization finances well as since at 1.1.1 Seel Material 1.1 Seel Material 1.1 Seel Material 1.1.1 Seel Material 1					•		PINT OF COURTING		112	`
10. If applicable: Proposed From 1.0 to 1.1 Seel Material 8.1.0 Since Seel Material 1.1.1 Since a map of real localization finances well as since at 1.1.1 Seel Material 1.1 Seel Material 1.1 Seel Material 1.1.1 Seel Material 1			•	4		(Fle		11	DE COX	
Crouning interval From	-	8.		Harrel: Blk-Shel/Cal(PVC)	Casing Depth 120 Casing Diameter 27	Seal M	interval from Lac- aterial Se Research	ame consu. Co	1 8 H	
Crowding Interval Prom 1		10.	if applicable: Propose	el 5mm 19:0 to 121	· · · · · · · · · · · · · · · · · · ·	Silica Sand	" Land	M.DAU M	المتناثية	
This accope Casing of Cher (Check Che) Disurreter 2 Disc Steel / Generalized (FVC) Other / specify: To Method of Construction: X Fortally Cable Tool Combination August Office (specify: Yes, complete with on after 20. List number of seques well on all 2 18. Indicate total No. of wells on after 20. List number of seques well on all 2 19. Indicate well or any other well or water withdrawal on the owner's configuous proparty covered under a Consumptive Winter use Permit (CUP/NUP) or CUP/NUP Application? X No Yes (if yes, complete the following) CUP/NUP No. N.A. Latinuse WA Longitude A			Grouting interve	of From 1/2 to 12	Seel Material Rent	on to	man as well banklears	State of the state of	2° Marilly from	
Bits Stael / Gelwantzed (PVC) Other (specify: 12. Method of Construction:		11.	Telascope Casing	nr Uner X (check one)	Diameter 2" Stu			ristanops junkeen was and OP North	igratmarka.	•
August Other (specific) 18. Indicate total No. of wells on site 10. List number of issueed wells on site 11. List number of issueed wells on the issue of the i						- Con	1606 17	*		
18. Indicate total No. of walls on after 20. List pumber of usuased wells on alta 20. 14. Is this wall or any other well or water withdrawal on the owner's configuous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? No. Yea. (if yes, complete the following: CUPAVUP No. NA. A. Letinuce 10. No. 11. A. Letinuce 10. Longitude 10. Letinuce 10. Longitude 10. Letinuce 10. No. 11. A. Letinuce 10. Longitude 10. Letinuce 10.		12.	Method of Construction			nbination ·		×		
14. Is this wall or any other well or water withdrawal on the owner's configuous property covered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? X No Yea (If yes, complete the following) CUP/WUP No. N/A Letinuse									1	
Under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? No		١.		•••		1,32			East	
(if yes, complete the following) CUPAVUP No.		 								
Latinude			(If yes, complete the fol	VOWINGS CUPAVUP No						•
Date contained from QP9 or map or survey (map deturn NAD 27 NAD 83) 15. I hereby partly dust i we explicate nuis of 189 40, Fords Administrative Colds. I see that we was use search or action recture pours. It needed has been or will be octaved provided by the provided pr			District well I.D. No	Locatinde A	r/A					
Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Becapt No. 1080 S 2008 Chack No.: Enter numerical month, day and full, four-digit year. THIS PERMIT NOT VALID UNTIL PROFERLY SIGNED BY AN AUTHORIZED OFFICER OF REPRESENTATIVE OF THE WIND. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL ORILLING OFFRATIONS. This permit is valid for 80 days from date of issue. Form 0123 Rev. 4/95				9 or map or survey	(mep detum NAD 27,	_ NAD 82)	· · · · · · · · · · · · · · · · · · ·	South		
Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Approved Granted By: DELTAND DO NOT WRITE DELOW THIS LINE—FOR OFFICIAL USE ONLY Becapt No. 1080 S 2008 Chack No.: Enter numerical month, day and full, four-digit year. THIS PERMIT NOT VALID UNTIL PROFERLY SIGNED BY AN AUTHORIZED OFFICER OF REPRESENTATIVE OF THE WIND. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL ORILLING OFFRATIONS. This permit is valid for 80 days from date of issue. Form 0123 Rev. 4/95		15.	ned alut a main nea beinig bi I penapa beinga mat i mg chilb	dy with the applicable make of 19th 40, For artificial recharge points. If needed, has b	ide Admisistrative Coda, 1/ bern of elli be obtained 1	with the land to the color of the propositions and the color Chapter 173, P	openy, met the information fonds distribut, to mainlei	provided to accurate, share of an or properly address the west	is to several to stay oc. Econoly Municipal	
DO NOT WESTE DELOW THIS LINE FOR OFFICIAL USE ONLY Approved Granted By: LINE DO NOT WESTE DELOW THIS LINE FOR OFFICIAL USE ONLY Approved Granted By: LINE DO NOT WESTE DELOW THIS LINE FOR OFFICIAL USE ONLY Approved Granted By: LINE DO NOT WESTE DELOW THIS LINE FOR Receipt No. 10 SD S 2004 Chack No.: Enter numerical month, day and full, four-digit year. This PERMIT NOT VALID UNTIL PROFIERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL ORILLING OFFRATIONS. This permit is valid for 80 days from date of issue. Form 0123 Rev. 4/95			Total to book and the second of the second o	Seen to broken a way continuous tabou to III way obsite wecessian introductivati con April Ingelect: I intalia grash and see see	nemin provide or mile de legeral, slass, or local si tha District within 30 clays	or a backen as a taked a booth Contra	A Note of the Control of			
Approval Granted By:				1100	11035	IN.	11112	2 7/0	100	
Approve Granted By:			SUPERIOR CONTROL	DO NOT V	Come No. VENTE DELOW THIS LIN	E — POR OFFICIAL L		proces	Ditte	
Owner Number: Fee Received: \$ \(\frac{1}{2} \) Receipt No. \(\frac{1}{2} \) OSD \$ 2008 Chack No.: \(\frac{1}{2} \) Enter numerical month, day and full, four-digit year. This PERMIT NOT VALID UNTIL PROFERLY SIGNED BY AN AUTHORIZED OFFICER OF REPRESENTATIVE OF THE WIND. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL ORILLING OFERATIONS. This permit is valid for 80 days from date of issue. Form 0123 Rev. 4/95			Approval Granted By:		vapos	150		Hydrologist Approvi	RI	
THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OF REPRESENTATIVE OF THE WMD. IT SHALL BE AVAILABLE AT THE WELL SITE DURING ALL CRILLING OF ERATIONS. This permit is valid for 80 days from date of issue. Form 0123 Rev. 4/95			Owner Number:		Fes Received: 3	Pecalpt No.				•
Form 0123 Rev. 4/95		•			ed by a n authorized of	ficer of Representa	TIVE OF THE WILL	I. IT SHALL BE AVAILA	BLEATTHE	
					· · · · · · · · · · · · · · · · · · ·					
13-WD-34019 IO80520430				•	•	_	-	more and the	X .	,
			13-WD	-34019	I	080520	1430			

			STATE OF FLO	RIDA PERMIT APPLIC	ATION TO CO	ONSTRUCT,	Parmit No. 13-159	7743
				Y, OR ABANDON A W		•	Florida Lintque I.D.	
	<i>'</i> 1		☐ Southwest	Taum Mrof Birt		MARI ATTENDED	Parmit Stiputations Requi	
			Northwest				Laurin Britania Hedri	(00 (000 emperion)
	•	C. C. T.	St. Johns Riv	form and forwarding	the permit to the ap	propriete delegaled	62-524 well	· · · · · · · · · · · · · · · · · · ·
		V. San	Suwanner) R		±ble.		Application No.	
			CHECK BOX FOR APIROP	RIATE DISTRICT, ADDRESS ON BACK	OF PERMIT FORM		Approx (BSSE) if a p	
		Florida Power or	ed Light Compa	ny, Attn: Mr. Ed Paul	9700 550/3	44 Street Floris	da Cito 33034	305-246-6407
	1.							
		Owner, Legal Name of E			Address	City .	Zip	Telephone Number
	2.	Turkey Point Nu	clear Generaling	g Station - coordinates	ot proposed	Wells attached		
,		Well Location - Address		oer, thy sulting, Inc. – Phillip K	Dista ET #:	11025	494-873-47	61
at this line in order that soldress like through etheliope mender	- N-	Well Drilling Contractor			se No.	1,1,440	Telephone No.	
10		. 396 Plasters Ave				STOV NYOV		
30		Address	Moc	•	·	(Diggest)	1/4 cl Section 34	·
100		Atlanta	Georgia	30324	,		(indicate Well on Cha	nj X
ine in		Cilv	State	7)n	5.	Township 57S	Range 40E	
4 4					N/A	N/A	NJ/A	
E S		Miami-Dade	IV/A	to di della salama		Block	N/A	5w SE
		County	9	ubdivision Name	Lot	HIOCK	Unit	
	7.	Number of proposed s	wella 1. Chick	ting use of well: (See back of perm	nit for modificant choices) Donnes	ric Monitor (type) Ob:	servation well
		-				•	22.	
		1844 Back)	type) Public (Val	ter Supply (type)(Bea.5	Sacili	List Other		
i		Distance from septio	nyatem N/A It.	Description of facility had w	anewater (lisebbrig): sens	Estimated start of	f construction state $\frac{2/1}{2}$	9/08
	۰	Annihustian tou X	New Construction	Repel/Modify	Abandonmer	*	. Г	Che Starra
						(Pléason (çi	Abendonment)	12 W 2
	8.	Estimated: Well Depti	, 101* ft	Casing Depth 90 1	ft	9creen Interva	i from 90 to 100	Way of Child
				PVC rvcCseing Diameter 2'		9eal Material	see below	100. 1 2 de 1009
	••	Manuflushia Basasara	88·	to 100 Beal Material 10	n/20 silica sand	"Well will be las	AATTed with a one-foot metal	PROPERTY OF COURSE
	17r	Groutting principal in	Me Prom 170	to 85 See Material Bu	ntenite	<u> </u>		Middle
		mi destri A trime a	From 0	to 83 Seal Material Pr	rtiano/bentonite si	urry DREW & map of w	eli localion and Indicate well s arka; provide distances betwe	
		Talanaana Canlan		ack one) Diameter 2"		roads and lander	arka: provide distances betwe North	go yygif ang ikngynana.
	'' [.]	Bik-Steel / Galvanized				OW-60	_	
						UW-01	OOT Z	
	12.	Method of Construction	on: X Rotery	Cable Tool	Combination ·	•		
	1	X Auger	Other (speci	(ty:))	ı			
	12	Indicate total No. of w	estle on alte 0	List number of unused wel	lis on site 0		•	_
						see at	tached drawings for pro	oposed well locations
	14,			irawal on the owner's contig				
	ļ			UP/WUP) or CUP/WUP AppR	ORGON? A_NO _	Yes		
		(If yes, complete the fo		No. N/A		-		
		District well I.D. No. No.	I/A.	37/4		į į		
	1	Latitude N/A	Longliv	N/A		ĺ	B-M	
	•	Data obtained from GP	PS or map o	or survey (map datum NA	ID 27 NAD 63	<u>. </u>	a culti	
	15	. I hereby curtify that I will some	of with the applicable rules of	Title 40, Floride Administrative COSA.	Fortify that an	the officer of the property, the	of the information provided is accur	ede, and that I am aware of thy
		buck to solutions against of me	ertificiel recharge permit, if the Econolisistico, i funtion certifi	Title 40. Floride Administrative Code, seeded, has been or will be obtained and a lattermation provided on the main transitive making, with, or local sign traport to the District within 30 days.	the agent for the	Owned Cast the Hart Indice of	nt the holomasion provided is socur hynes, to resistain or properly shar royded in solvings, and that I have a to passonnia in the Whito or a rej	informed the owner of bis 19-
	1	COMMERCIAL PROPERTY.	gree toprovide a wee complic	tion report to the Dietrick within 30 days	thorners of at			110/21
	1		1111	1/125		111111		B119108
	1	Bigg of Contractor		License No.	·	Dwn	er's or Agent's Alignature	Dates
			. 00	HO I WOLL HELOW TOR	IS LINE FOR	OFFICIAL USE O	NIY	
		Approval Granted By:	AGTELD	POW APRI		e Date: 2-1	9-08 Hydrolog	lat Approval
					60	-T. 6	30215 Gos Check No	524534
		Owner Number:		Fee Received	Soter nume	deal month, day and	full, four-cligit vear.	·
		THIS PERMIT NOT V	ALID UNTIL PROPER	_Y SIGNED BY AN AUTHORIZ ATIONS. Title permit is v	ED OFFICER OR	HEPRESENTATIVE	of the WMD. (T SHALL)	BE AVAILABLE AT THE
		METT SHE BANING	ALL DUILLING OFFIC	чи⊍но. ти х рагии 18 У	BUT 101 \$7 053	a num vete vi (A	, , , , , , , , , , , , , , , , , , ,	
		Form 0123 Re	. 4/95					deces .

02/20/2008 08:58

FAX #: 919-831-8136

THE	
1	
1	- S.

	•	-1-	•						
				- '					
ሚ ኘለተር	- ^	E CI		DEDMIT	IGGA "	ICATION.	TYS (Constru	
CIWIE		1. Lr	CUINA	LECTION!	MPFL	TAMITOR	10,	COMO LUO	v
	_								

Florida Power and Light Company, Attn: Mr. Ed Paula 9700 SW 344 Street Florida City 33034 305-246-6407	. (REPAIR, MODIFY, C Southwest Northwest St. Johns River South Florida Suwannite River	A PERMIT APPLICATION A WELL THIS FORM MARKET BE F The water well contracts form and forwarding the caunty where applicable DISTRICT, ADDRESS CHEACK OF F	L. FILLED OUT CO Fire responsible permit to the A	OMPLETELY. For completing this	Florida Unique Permii Stipula 62-524 well GUP Applicat	tions Required	1 Y V V V V V V V V V V V V V V V V V V
2. Thricky Point Nuclear Generating Station - coordinates of proposed wells attached \$760 \$74.0 \$40.0 \$75.0 \$74.0 \$10.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$1.0 \$	1.						la City	33034	305-246-6407
7. Number of proposed wells 1 Chack the use of well: (see seck of permit to additional trackers) Domestic Monitor (type) Observation will reached track the use of well: (see seck) Distance from septic system M/A R. Description of facility intervener stackers use Raplication for: X New Conservation Repair/Modity Anandomment Repair/Modity	3.	Turkey Point Nu Well Location — Address MACTEC Engin Well Drilling Contractor 396 Plasters Ave Address Atlanta City	clear Generating Str s, Hoad Name or Number, G ceering and Consultin nuc Georgia	ation - coordinates of thy ng, Inc Phillip K. Pi License N 30324	proposed tts FL#:	Wells attached 1.1035 SW 1/4 of NW (199044) Township 578	404 Telep 1/4 of Section (Indicate W	23 + 1	77035 NW NE
7. Minisher of proposed wells 1 Chack the use of well; (see back at permit to acclosed chackes) Domestic Monitor (type) Observation will public Water Supply (type) (see Back) Distance from septic systems N/A ft. Description of facility (see Back) Distance from septic systems N/A ft. Description of facility (see Back) Ballmated start of construction date 2/19/08 8. Application for: X New Construction 6. Estimated: Well Depth 26 ft Capity Depth 15 ft Casing Material Bir-Siteel / Self / PVC rec Casing Districtor 2'' 10. If applicable: Proposed From 13 to 25 Seal Material Bir-siteel 10/20 still a sand Grouting Interval From 10 to 13 Seal Material Bir-siteel Annualization Grouting Interval From 0 to 10 Seal Material Bir-siteel Annualization The season of Abandonment (check one) District Seal / Gabranized / PVCFVC Other (specify: 13. Indicate total No. of wells on alls 0 Liar number of number of number of number of number of season one and involvant and involvant one and involvant	8.	Miami-Nage	N/A. Subrike	Izina Name	l ot	Block	LIVA.		SW SE
14. In this well or any other well or water withdrawal on the cymer's configuous property govered under a Consumptive/Water Use Permit (CUP/WUP) or CUP/WUP Application? X No Yes (if yes, complete the following) CUP/WIP No. N/A District well 1.D. No. N/A Longitude N/A Longitude N/A Longitude N/A Data obtained from GPS or map or survey (map datam NAD 27 NAD 88) 15. I hereby gently that it will comply with the applicable rules of 1705 40. Foodes Administrative Code, and six a water also permit or attalled rotting permit. I weekled has been or rel to actually a permit and accurate and permit or attalled rotting permit. I weekled has been or rel to actually a permit or attalled rotting permit. I weekled has been or rel to actually a permit or attalled rotting permit and accurate and permit or attalled rotting permit. I weekled has been or rel to accurate any permit or attalled rotting permit a relative permit. I weekled has been or rel to accurate any permit and accurate any permit any	8. 9. 10),	Distance from septic Application for: X Estimated: Well Depticating Melication for Casing Melication for Casing Melication for Casing Melication for Casing Interval Casing Elik-Steel / Galvanized Method of Construction Auger	New Construction 26 k ft terial: Bik-Steel / Gal / PVC of From 13 to 25 From 0 to 15 or Liner x (check of PVC PVC Other (specify:) Other (specify:)	Gripfilon of facility Ind., wasters Repair/Modity Casing Depth 15 fit rec Casing Depth 2'' Seal Material 10/20 Seal Material Benoming Diameter 2'' Cable Tool 0	Abundanmen silica sand te dibentmitte pla combination	Heatmated start of the control of th	Abandonment) If from 15 to see below to see below miled with a see for self-see for self-see distribution and marks; provide distribution and see for self-see distribution and see for self-see for se	25 POTENTIAL OF A STATE OF A STAT	Date Barto
Approval Granted By: AGTELD LOW APOS I save Date: 1 0 0 0 Hydrologiei Approval Owner Number: Fee Faceward: \$ 50 Receipt No. 10 8 0 2 14 5 3 4	14.	ie this well or any oth under a Consumptive (if yes, complete the for District well 1.D. No. 1 Lethtude N/A Data obtained from Gi	we well or water withdrawa Whater Use Permit (CUP/W Wowing) CUP/WIP No. I/A Longlade N S or map or sur	I on the owner's contiguous IUP) or CUP/WUP Applicatio IV/A IV/A Vey (mep datum NAD 27	property co			South	
Callet Annual An		Approval Granted By:		LORD No. WRITE HITOWING L		OFFICIAL USE O	TO B	Hydrologiet	19 0% Dete
THIS PERMIT NOT VALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF THE WIND. IT SHALL BE AVAILABLE AT THE		·	· · · · · · · · · · · · · · · · · · ·		Enter name	ricel month day and	full, four-digit	vear.	

13-WD-33815

Ī	(REPAIR, MODIS Southwest Northwest St. Johns Riv South Fixeds Suwannie Riv	er The water we form and form	A WELL I contractor is re- acting the permit applicable.	OUT COMP ponsible for to the appro	LETELY. completing this	Permit No. 13/50 Florida Unique I.D. Permit Stipulationa Required 62-524 well Guid Application No.	first (See situched)
		Florida Power at	ıd Light Compa	ny, Attn: Mr. Ed P	aula 9700	SW 344	Street Florid	la City 33034	305-246-6407
- 1		Owner, Legal Name of E		****	Address		City	Zip	Telephone Number
ı	2.	Turkey Point Nu	clear Generating	g Station - coordin	ates of proj	osed we	ils attached	,	
		Well Location — Address	s, Fload Name or Numi	per, City					
2 A	3.	MACTEC Eugin	eering and Cons	ulting, Inc Phill	p K. Pitts	PJ#110	135	404-873-47	
that address per mendom		AAN CARING COLUMNIC	•		NON BELIED.			инерполо мо.	NE NE
割		396 Plasters Ave. Address	дие			AL (BITIS	1/4 of Hologest	1/4 of Section 34	- ^
25		Atlanta		30324			. , ,	(Indicate Well on Cha	ot)
a Promote	i	City	State	Z)0		S. Tou	menin 57S	Range 40E	
컕		Miami-Dade	DI/A		N/A		•		
2.5	v.	County	117/24	ubdivision Name		Lot	N/A. Block	Unit	8W 5E
-									Torus d'annual
١								le Monitor (type) Ob	
		Infgation (type) Public Wat	er Supply (type)		Lie	nt Oiher		
ŀ		(See Back)	N/A	Description of facility	(8 00 Back) Jan, wantewater diec	AFRE SEE	Patimeted start of	construction data 2/1	9/08
- {		Antenion tiniii mahor i	Amerik	DESCRIPTION OF MEMORY			· ·	_	
- {	B,	Application for:	_ New Construction	Repair/Modify	Aban	donment_	(Reason for	Abandonmenti)	DE CONTRACTOR
	۹.	Fatimated - Walt Denti	101* ft	' Casido Denih	90 ft		Screen interval	FOR 50 to 100	13/07g
٠,	٠.	Çasing Ma	terial: Bik-Steel / Gai /	PVC zvc Casing Diamen	r 2"		Seal Material	ee below	or no. A garage county
	48	lianullushia. Surpris	88·	in 100 Cant Maderi	., 10/20 silic	a sand	"Tyell will be incl	Abardormenti) lirom 90 to 100 3 ea below alled with a one-feet runing: 15	the wind on W. Issuers known
- 1	ıv.	If applicable: Propose Grouting Intern	i From 63	io 100 Seel Materi to 85 Seel Materi	Bentanita				
			From 0	5 83 Seal Mater	a Portland/ban	tonite durry	Diant a map of vit	ell location and indicate well to when emission distances betwe	ette with en "X", identify known een well and landmarke.
	11.	Telescope Cusing	or Uner X{ch	eck one) Diameler 2"				North	
		Bits-Steel / Galvarized	PYCPYC Other (up	ocity:			- OW-62	al 🚓	i
	470	-		Cable Tool				N	1
	16.		,	ty:)	•	NG LL VIII	1		1
			•			O	.	-	
				List number of unuse			E see att	sched drawings for pr	oposed well locations
	14.			rawal on the owner's co			4		· .
	1			UP/WUP) or CUP/WUP !	uppilcation? 🚣	_NoY	98		
		(II yes, complete the fo	ROWING) CUP/WIJE 1/a	No. N/A			1		1
		District well I.D. No.	172	. N/A					
	1	Latitude N/A		de N/A		NAD 83	. 1	South	
	l	Date obtained from GF			m NAD 27		, /		
	15	. I hereby cartify that I will community that a water use partit or provide community to water and the second seco	de mitte applicable ruise (! 'arisicie recharge permit, il vi arisicie recharge permit, il vi arisicie recharge permit de la constanta de l	Tide 40, Footide Administrative Co seded, has been or will be obtain that all information provided on its will hour other leaders, asses, or is lon report to the District within 30	de, (cedi gi respo e tie m	ly that I am the nashitides under you i for the own thillies, as state	owner of the fropolity, the Chapter 373 Floride Sta. et, that the Inguistican pr of above, Owder occasion	t the information, provided is accur tutes, so insintalin by property state outdedts accurate, and that I have I to palacrital of the WALD or a re-	race, and first I are aware of my richt this west or, I carefy that I em a interned the sweet of life re- presentative except to the well also.
		persimilarda, il septendidad i a attar drilling applie perfolijarp	come to provide a well complete	for export to the Dienict within 95	Chys		ווראו		alulau
		Land A	ZA LA	1035	·				11100
	L	Street of Contractor	ا شکاری است	Lipenes No.				is ortogics Signality	(, YB@4)
			LEGULO B	MOT WHILE BILLOY	THE CHIE		THEIAL USE O	- ^ 40	lat Approval
		Approvat Granted By:	KSIM F	DW AHAS		ipsue D		(1)QIMO	Tugish:
		Owner Number:		Fee Rec		·	1000-L-110-C-1-1-1	D2 LCLIZS Check N. full, four-digit year.	0.: 52-4534
		THIS PERMIT NOT V	ALID UNTIL PROPER	Y SIGNED BY AN AUTH	ORIZED OFFIC	ER OR RE	PRESENTATIVE O	FTHE WMD. IT SHALL	BE AVAILABLE AT THE
	:	WELL SITE DURING	all drilling oper	STIONS. This permit	is valid for	90 deyt f	rom date of les	rue.	
		Form 0123 Re	rv. 4/95	•				EMP	

3055133472

	(REPAIR, MCDIFY, Southwest Northwest St. Johns River South Florida Suwannee Rive	Some and tonwarding	ELL METERS OUT of the second	COMPLETELY.	Permit No. 19 6 9 Florida Unique ID. Permit Stipulations Requi	ired (See attached)
		Florida Power ar	nd Light Company,	Attn: Mr. Ed Paula	9700 SW	344 Street Flori	da City 33034	305-246-6407
	1.	Owner, Legal Name of E	Intity it Corporation	A	düress	City .	Zþ	Telephone Number
				tation - coordinates	of proposed	wells attached		
		Well Location — Address	s, Road Name or Number,	City	Pakert - Trace II	11005	404.080.48	64
Ě	3.	Well Drilling Contractor	ecting and Consul	ting, Inc Phillip K.		1,1035	404-873-47 Telephone No.	
뛼		396 Plasters Ave		Licens		NW NW		X NE
		Address	1144.		· 4.	NW (HTRABOR) 1/4 of NW (Diggest)		· ┝┈╌┼╌╌├ ┄╌├╶ ┤
TUCH BY		Atlanta	Georgia	30324	•	E#6	(Indicate Well on Cha	n)
	i	City	State	Zip	5.	Township 57S	Hange 40E	
		Miami-Dade	, N/A		N/A	, N/A.	, N/A	
Œ.	ъ.	County	Subr	livision Name	Lot	Block	Unit	SW SE
	7	Number of proposed a	wells 1 Chuck the	t triad of Wall: (See back of permi	tor soldtional chains	n Domes	tic Monitor (type) Ob	servation well
]	•				im Bride della essenza	List Other		
	•	40 as Buch	(type) Public Maler	M	old)		5/3	0,00
		Distance from septic :	eyatum <u>PV/A</u> ft. D	secription of facility Ind. was	terrater discharge an	Estimated start o	f construction data 4/1	9/08
	8.	Application for: X	New Construction	Repair/Modify	Арапбалте	ont	· · ·	De San Live
			26* ft	15.6	.	(Assan la	(Abandonineni)	operator sall
	9.	Estimated: Well Depti Casing Me	n Iterial: Elk-Steel/Gel/FV	Casing Depth 15 for myc Casing Diameter 2"		Screen Intervi	see below	out no
	10.	if applicable: Propose Grouting Intervi	From 13 to From 6 to	25 Seal Material 10 13 Seal Material Em 10 Seal Material Por	/20 silien san valte Hand/hentantie s	d *Well will be ins	salled with a one-feet sumb-	nit no. 17 Jade Course of Milamir Dade Course of Milamir Dade Course of Milamir Dade Course of Milamir Milamir Milamir Milamir Well and Islamir Milamir Mi
	11.	Telescope Casing	or Liner _X(check	one) Diameter 2"			North	
				<u>y:</u>		OW-6	21U 📆	
	12.	Maliant of Continueti	ion: X. Bolon	Cable Tool	Combination		N	
					_]		
		Indicate total No. of w	refls on sits 0 .	ist number of unused well	on ette 0			
	14.	in this wall or any oth	or wall or water withdraw	val on the owner's contigu	ous property c	gwered 🗚 sec at	tinched drawings for pr	aposed well locations 🖔
		under a Consumptive	Mater Une Permit (CUP)	(WLIP) or CUPAVUP Applic	ation? X_No	Yea		·
		(If yes, complete the to		a. <u>N/A</u>		_ [
		District wall I.D. No. 1	I/A			•		
	ì	Latitude N/A	Longitude	N/A				
		Data obtained from GI	P\$ or map or a	ruivey (map datum NAI	27 NAD 6	g) L	South	
	15	I heraby carrily that I will com and that it willer the parmit of prior to compressionants of the application of managing and the opportunities, a principalities, it prior to ling your planning applications of the Bigmillum of Contractor	ply with the applicable ruses of Title of artificial recturge permit. If heards are translation from each of the artificial ruse are good over the provider a well output from o installing and course from installing artificial course from and the provider as well output from or	40. Platfie Administrative Code, cd. has been or will be obtained as incorrection provided on this month other leading, state, or local aport to the District within 30 days Uppage No.	Footily that I responsible the agent for a sponsibilities in the s		ag the information provided is accurate an accurate an accurate to accurate an accurate to accurate a consistent of a provided in province in a provided in province and accurate and accurate and accurate an acc	who, and the all and everte of thy offer this well, or, i conflict the lam professor to some of the new practical and processor to the vertical and practical and practical and the practical an
			i ba b	OT WRITE BELOW TH	STINE -FO	R OFFICIAL USE C	DHEY	
		Approval Granted By:	ASTELD EX	1ARDS	186	ue Dale: 2-19-	+ Hydrolog	lat Approval
		Owner Number;		Fee Received;		Receipt No. Lo &	0215426 Check N	F 4 3 4 F 7 11
		THIS PERMIT NOT	MALID UNTIL PROPERLY	SIGNED BY AN AUTHORIZE	Enter num DOFFICER O	erical month, day and	OF THE WMD, IT SHALL!	BE AVAILABLE AT THE
		Form 0123 Re						d.gov

3055133472

	(STATE OF FLORIDA REPAIR, MODIFY, (Southwest: Southwest: St. Johns Fliver South Florida Suwanness River CHICK ECK FOR APIROPRIATE	STRUCT, ETELY. completing this chare delegated	Permit No			
	1,		nd Light Company,			Street Florid	a City 33034	305-246-6407
-		Owner, Legal Name of I	•		Address	City	Zip	Telephone Number
			iclear Generating St is, Road Name or Number, C		or brobosed me	us attached		
	a.	MACTEC Engir	eering and Consulti		Pitts FL#110	35	404-873-47	51
o visitie facuati envelope mindon		Well Drilling Contractor		Licens			Telephone No.	MA NE
		396 Plasters Ave	nue		4. SE	1/4 of SE	1/4 of Section 34	
		Address Átlants	Georgia		·		(Indicate Well on Char	ŋ
	į	City	Skie	ZID	5. Tow	nship <u>578</u>	Range 40E	
ş	_	Miami-Dade	. N/A		. N/A	. N/A	. N/A	x
6.2	6.	County		Islan Name	Lol	Block	Unit	SW SE
Ì	7.	Number of proposed	wells 1 Chack the u		ts for additional cholona)	Domest	ic Monitor (type) Ohe	ervation well
}		Intation /	type) Public Water Su	mpky (type)	lie	1 Other		
		(See Rect) Distance from septic	(type) Public Water Susystam N/A (t. Dec	Estimated start of	construction data 2/19	9/08		
ļ			New Construction		Date Starret			
	9.	Estimated: Well Dace	h 101* ft Herial: Bik-Steel/Gis//PVC	Casing Depth 90 f	t	(Resson for Screen Interval	Abandomment)	PRONTON
		Casing Ma	keriai: Bik-Steel/Gil/PVC	rvcCasing Diameter 2"		Seal Material 3	se holow	DO MAN COME
	10,	If applicable; Propose Grouting Interv	From 88 to 16 From 93 to 8 From 0 to 8	Seal Material 10 Seal Material Ber Seal Material For	tomite	*Well will be least Draw a map of the roads and landma	iled with a one-took suggest of the control of the	Date Same To A 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2
į	11.		or Liner _X(check o				North	
		Bik-Steel / Galvanized	/PVC.PVC Other (specify:			OW-63	66L 📆	
	12.	Mathod of Constructi	on: X Rotary Other (specify:)					
	72.		velis on site 0				•	_
			ter well or water withdraws			a sec att	ached drawings for pro	posed well locations
	'""		ior wai or water waters. Nater Use Permit (f:UP/W					• .
		(If yes, complete the fo	•			ļ.		
	1	District well I.D. No. 1	√A_				•	
		Ladrude N/A	Longitude N				بستانية	
	1	Data obtained from Gi		vey (mep datum NA)) L	South	
	15.	I hereby certify that I will come and that a water use perrit or prior to commonment of will application. It applications and governments. It applications are governments. It applications after drilling or loss partially	ply with the applicable name of Title 40 c artifolds (strange permit, if in sector, if construction, if software permit, if in sector, if construction, if software permit that all act to the permit in the construction appear to industry and in provide a pelf control for reparation, points and course first.	Picride Administratives Code, the been or will be obtained and consider provided on their mother beginns acres, or local out to the District which 20 days	E certify that I am the o responsibilities under the agent for the own appreciated say as states	where of the procesty, the Chapter \$79, Floring States, et all the interpelation of a shore. Owner passes to	the information provided is excust state, to maintain or properly-glows vided is about ast, and then I fave to parameters of the VITAP or a repr	de, and third I am aware of my for this work or, I confly that I am alternated the overtor of har I assembly access to the well alte.
		Bignates of Contractor	gara-	License No.	· 	Olm	re or Agenta Bigranum	Date
				i wight below the	S LIME 1 OR OF	TICHAL USE OF	Ω	
		Approval Granted By:	ASTED EDVA	PRS	Insue Da	rte:	Hydrologii	st Approval
		Owner Number;		Fee Received:	\$ 66 R	ecelpt No.: D&	02 Check No full, foundight year.	<u>: 52 4534</u>
		THIS PERMIT NOT V	VALID UNTIL PROPERLY SI VALL DRILLING OPERATION	GNED BY AN AUTHORIZ NB. <i>This permit is v</i> i	ed officer or her	Presentative of	FTHE WMD. IT SHALL B	E AVAILABLE AT THE
		Form 0123 Re	ev. 4/95			٠	JE STORE	LEUE

			STATE OF FLORIDA P REPAIR, MODIFY, OR	STRUCT,	Permit No. 3/50 Florida Unique I.D.	•		
•			☐ Southwest	TRUS FORM MUST BE	Internation of the complete of	FIRTY.	Permit Stipulations Requi	
			☐ Northwest	The water wall contract			Lesum Orlhandrous Darket	.कर <i>विक</i> व्यक्तितकर्
			ET South Florida	form and forwarding th	e pennit to the approp		62-524 well	
		PER VETER	☐ Sawswuee Hi∧et	county where applicab			GUP Application No	
ī			CHECK BOX FOR APPRIOPRIATE DIST	RICT. ADDRESS ON BACK OF	PERMIT FORM.	Ni	or defined sweety	emilian od oma
	1.		nd Light Company, Att					
- [Owner, Legal Name of E		Ad		City .	Zip	Telephane Number
ł	2.		iclear Generating Static is, Road Name or Number, City	on - coordinates o	i proposeu we	iis attacked	· · · · · · · · · · · · · · · · · · ·	
-		NA COLEC Exercis	s, Hose Name of Nimber, City reering and Consulting,	Ton . Dhillin K 1	Pi#6 RT.# 110	35	404-873-47	61 .
ğ	3.	Well Drilling Contractor	tering and Consorting,	License	No.	~~~	Telephone No.	NW NE
Ž,		396 Plasters Ave	mma.			tion SE		
퇿	•	Address	, , , , , , , , , , , , , , , , , , , ,		(ATTRA)	(beggest)	1/4 of Section 34	
å		Atlanta	Georgia	30324 Zip	•	290	(Indicate Well on Char	1)
퇽		City	Stars	<i>Z</i> ip	E. Tow	mahip 3/8	Range 40E	
ᆌ	_	Miami-Dade	N/A		N/A	N/A	. N/A	X
ž	•	COUNTY	N/A Subdivision	n Name	N/A Lot	Blook	Unit	SW SE
1	~-				,,,,,,,,,			
İ	7.	Number of proposed to	wells 1 Check the use (Of WALL: (Sime backs of permit f	(Beción) lancifiba x	Domest	ic Monitor (type) Obs	servation well
1		infigation (type) Public Water Supply	(type)	LLE	t Other		
ĺ	•	(See Bact)	hype) Public Water Supply Bystem N/A P. Descrip	(Sec Raci	Attac disclasses area	Total bad adam	2/1	9/08
Ì		nietatice trom sebilo	system Avenue	alian of facility		FINITE STATE OF	countrificitott ossa	
	8.	Application for X	_ New Construction	Abendonment)	Date of the County of the West and I send the			
-	9,	Estimated: Well Dept	26* ft	Cesing Depth 15 ft		Screen Interval	i trom 13 to 25	1000
1		Casing Ma	terial: Bik-Steel/Gal/PVC evo	:Cesing Diameter 2"		_ Seal Material _	ter nellow	DO. LIVE COM
I	10.	If applicable: Propose	ed From 13' to 25	Saal Material 10/2	0 silica sand	"(Vell will be instr	died with a one-foot supper	The Day Day
١		Grouting interv	od From 13 to 25	Seal Material Bento	nlte		Opp	C Miller HOLL
			From 0 to 10	See Material Port	md/bontonite siurry	Draw a map of we reads and landma	et (coation and briligate wait s vike: provide clatances betwe	ite within XT, Identify known on well and landmarks.
	11.	Telescope Casing	or Liner (check one)	Diameter 2"			North	
		Bik-Steel / Galventzed	/ PVCPVC Other (specify;			OW-63	6U 🚓	•
ĺ	19	Mathed of Construct	on: X Rotary	Cohin Thol	Combination :	Ì	₽	
	اهما	X Auger	Officer (specify:)		CONTENTION		•	
					A	.1		
į			relia on eito $rac{0}{}$. List nu			the second	ached deswings for no	posed well locations
	14.	is this well or any oth	or well ar water with inweal on	the dwner's configura	re biobeth coneie	rg ≥ scram	arnet manuals to be	Janes New Yorkstone 10
		under a Consumptive	•Water Use Parmit ⟨ÇUP/WUP⟩		icn? <u>X</u> NoY	e }		•
		(If yes, complete the lo		<u> </u>		1		
		District well I.D. No. 1	V/A			}		
		Latitude N/A	Longitude N/A			1		
	ı	Data obtained from GF	3 or map :× survay	(map datom NAD 2	7 NAD 83	,	South	
	15	. I bendy partify that I will som	oly with the equilentia rules of 1164 40. Flor	ida Administrativo Code.) certily that I am the o	what of the property that	line information provided is accur	ale, and that Fam aware of My
		and that a west use pennil of	ply with the applicable rules of 1044-40, Fibr addition mothers permit. If resided, hes is the applicable in the property of the all infor- ers will occur in accessary approved from one green to provide a well completion report to water, which pass occurs from	peen or will be obtained subject provided on this	the agen) for the own	Chapter 873, Floring Star In that the Information po	I the information provided is accurate, to make the property state of property state of the first interest of the state of	oct the west or, I certify what i am informed the outer of his re-
		caretiments, it applicable to	Forest to published may complet ou tabout to	the District within 30 days	BÉXMETERS ES TOTAL	S BOOMS. CHICKEN CONTROL		5210-01
	-	1777	A The	11039		147		40KILK
	Ì	Signature of Contractor		License No.		Out	19 or Agheria Signature	Dela
				MIL BELOW THIS	LINE FOR O	FICUAL USE OF	4EV	
		Approval Granted By:	ARTEND BIDWA	Rios	Insue Da	no: 2-19-	- ある Hydrolog	et Approval
		Owner Number:	·	Fee Received: \$	бo .	lecelot No. 108	021546 Check No	
		·	## (alt) servery mm and m the cold decree to		Fotor numerical	month, day and	full, four-dict year.	
		HIS PERMIT NOT V WELL SITE DURING	ALID UNTIL PROPERLY SIGNE ALL DRILLING OPERATIONS.	D BY AN AUTHORIZED This permit is vali) Officer or field of for fill days f	rnesentative of rom data of las	ine. Liuzamin ii suviti	DE VAUIT VOITS AT LUC
					۳	•		
		Form 0123 Re	3V. 4/95	•			_FEW MAN	T-SERVE
			•					

FAX: 305-876-1799

TO: TOM MU DANIEL
FOLIO#: 30-7034-004-0010

			STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT,	Permit No. 191941147
			[] On (Photom)	Fiorida Unique I.D.
	, I		Morthwest: This furth must be filled out completely.	Peimii Stipulations Required (Set attached)
	1	CHEST SEE	St. Johns River The water well continuous to responsible for completing this form and forwarding the permit to the appropriate delegated	
			Children and share anotherin	52-524 well SAP/ Application No.
		Series Series	CHECK BOX FOR APPROPRIATE DISTRICT, ADDRESS ON BACK OF PERMIT FORM.	AND STORY OF A COLD TO THE DESCRIPTION OF STREET
		w -1 -3	Attu Ed. Paula	
	1.	Florida Pau	ucr+Light Co. 9700 SW344 St Florida City 3	3034 305 246 6407
		Owner, Legal Name of I	Entity & Corporation Address City	Zip Telephone Number
	2.	Jurkey/ oint	Nuclear Generality Station 9760 SW 3414, Street F	lerida City FL 33035
			is, Road Name or Humbar, City	- 11-11 6-3 11751
, 55 s	3.	Well Drilling Contractor	expecting a Consulting Inc-Philip Pitts FL# 11030	
2 E	•		'A	
25		396 Plast	CF AVE 4, NE 14 of SE 1	
200		Atlanta	GA 30324 6. Township 57.5	(Indicate Well on Chart)
25.5		City	Sizia Zip E. Township 57 S	Range 40 E
125	_	Ni- Och	N/A silala	N/4
¥.5	₽.	County	Subdivision Name Lat Block	Unii Sw SE
	-			1 (11/11)
	7.	Number of proposed	Wells Chack the use of Well: (See bash of permit for additional cholose) Domestic	Manker (type) Observation WEII
	,	(Bee Bast)	(type) Public Water Supply (type) List Other	TWO TANKS
			system VIA to Deportption of facility Retirected start of a	construction data
		·		Day 6 4 4
	ļ.		New Construction Repair/Modify Abandonment [Research for Al	
	9.	Estimated: Well Dept	n 130' + 1' Sump Casing Depth 120' Screen Interval	180
			etarial; Bik-Steel / Gal / PVC Casing Diameter 2 Seel Material 3	
	45	if applicable: Proposi	and From 120 to 131 Sees Material 10/20 S. lica Sand	William I am I
	147	Grouting Interv		E RIMIT
		• • • • • • • • • • • • • • • • • • •	From 0 to 117 Seel Material Portand Benton to Drawe map of well	location and jedicals well site with an "X", Identity known
	11.	Telescope Caajob		
		Bilt-Steel / Galvenized	11. AL-1/17.AL	<i>b</i>) 🐟
	4.	BRANCAS AS CO. mahr. and	ion: X Robiny Cable Tool Combination	
	12			
	١	Auger	Other (upacity:)	•
	18.	indicate idial No. of w	relia on alta <u>20</u> . List number of unused wells on site	g .
	14.	-	ier well or water inithdrawal on the owner's contiguous property covered	, <u>P</u>
	1	under a Consumptive	Miniter Use Permit (CUPMUP) or CUPMUP Application? XNoYes	
	ŀ	(If yes, complete the fo	- 1-y	
		District well I.D. No.	# /A	
	ł	Latitude//	Longhude NA	
		Data obtained from GF		Saun
	15.	. I hereby carrily than I wincom	by with the explosible to use of Tile 4th, Frontis Administrates Code. I cently that I am the opened of the property, that the	क रिकारक्षिका हरकर्गकेर्य के क्यांग्यक, बार्व में बंग प्रमाणकर विशाप
	1	buot so equippe to substitute of any	t distant sportupe permit. It persons that over of retire community is a community sport of the sport for the community of th	e bolomeadon provided la scourant, and shell a milevine of my se, 10 marchen or processy schooloon Data well on 1 mod the stall is a digital scorregion, and that (I have bolomed these when of the re- pendignal) of the Whill or a representative access to the west at a.
	1	ADVENTION LIGHT LANGE AND	curricults accurage permit. Il nonciati that been of will be challed in the challed in the second of	
	1	JAK L	1/035	0/20/08
		Elegrature of Conventor		briggers Signature Days
			DO NOT WENT, HILLOW THIS LINE — FOR DEFICIAL USE ONE	nQ
		Approval Granted By:	Bane Ulini: 17 7	LikelonoStat Wobsokies
		Owner Number:		26438 Check No.:
		THIS PERMIT NOT V	Enter numerical month, day and fu ALID UNTIL PROPERLY SIGNED BY AN AUTHORIZED OFFICER OR REPRESENTATIVE OF	HI, 19UI-1991 YOUR. THE WMD. IT SHALL BE AVAILABLEAT THE
			ALL DRILLING OPERATIONS. This permit is valid for 90 days from date of Issu	
		Form 0123 Rs	ny. 4/95	
				The state of the s
•		13-410	-34019 -101520430	•

			,									
				LORIDA PERMIT		N TO C	ONSTR	ruct,	Permit No.	14,59	- 7	248
	,			DIFY, OR ABANI	OON A WELL					ue 1.D.		
			Southwea		orm Nuste e fill		CMPLETE	LY.		lettors Require		ined)
			☐ Northwea	Bluer Them	Her well contractor la	responsib	to for comp	lating this			1	· ·
			South Fig	레이스 네이트	to localisting the part				62-524 well			
		TO THE TEN	☐ Suwanne	a River	where applicable.				SUP Applic	alton No		
1			CHECK BOX FOR AF	PROPRIATE DISTRICT. ADDR	ESS ON BACK OF PERA	AIT FORM,			4000	Charles D. Con-	oranga asa	3J.15
		Florida Power at	nd Light Com	pany, Attn: Mr.	Ed Paula 970	00 SW	344 Str	ect Florid	a City	33034	305-246	6-6407
	1.	Owner, Legal Name of E		<u> </u>	Address							
						-	. مالمیج ا	City .		Ζlp	respiror	ne Number
- 1	2.	Turkey Point Nu Well Location Address	Brad Manua	Ling Distibil - COD	votnures of br	vhosec	· MACIFA	rracusă	····			····
2_		MACTEC Engio	e, noab Neme or o	nunus, ogy Innsulting. Toc 1	Phillip K Ditts	a TIT.#	11035		dn	4-873-476	,	j
į	3.	Well Drilling Contractor		iniouxumg, mc ,	License No.		11000	·		ephone No.		· '
		396 Plasters Ave		•		_	NE .	STP			NY.	NE.
3		Address	uut		····	_ · 4.	(smailest)	(Diggest)	1/4 of Section	M 33	h	·
		Atlanta		30324	r.			·	(Indicate	Well on Chart)		
		Chy	Georgia State	Zip		– 5 .	Townshi	57S	Hange	40E		X
		•		—r		<u>. </u>		· ———	374		}	
3	.6.	Miami-Dade	N/A			<u> </u>	N	/A. Block	N/A			لللل
-45		County		Subdivision Name		Lot		Block	U	nlt	8W	SE
Í	7.	Number of proposed t			se back of memis in artis					r (type) Obse	rvation w	rell_
	•									· (*17**)		
١		(Bee Back)	type) Public	Nater Supply (type)	(See Beal)		List Of)er				
Į		(344 Back) Distance from septic a	N/A	ft. Description of fa	relitive Ind. waterwater to	lecharge an	Eatin	naturi alart of	constructio	n date 2/19	/08	
								,				Q.
Ì	4.	Application for: X	_ New Construction	x:Repair/Mo	odifyAb	andonne	int	(Resear for)	hendonmani	 -	Date E	
-	_	- English and Canality of the Con-	. 101* ft	A. at =	90 ft			1 (1000:000) 17 (100:000) 1	9û	n 100	ORL	16/20
	9.	Estimated: Well Depti Cosino Ma	Redal Riv Charl	Gal / PVC zvc Casing D	demates of		{	iciben interval Lesi Metarici si	nom	~~~ ~~	* m/	2703
ŀ											140. 1.	W. Coul
1	10.	if applicable: Propose Grouting Intervi	d From 88	to 100 Seal	Material 10/20 stl	ica san	<u>d</u> '	(Reason for A formen Interval leal Makertei	uma Will A Gae	- 120 A LEADER 1001-	المسرة	Demograph
		Grouting Intervi	i From 83	to 85 Sea!	Material Bentonite		_			Distr.	Maria	WALLEY TO THE PARTY OF THE PART
		,		to <u>83</u> Seat		catonite a	iurry D	raw e man el we rada and landma	u vocazov) eurot Nas; provides di	maicele Wei elle Princes Delweri	wat and he	isomny knawn idmailis.
- 1	11,	Telescope Casing	ar Liner	(check one) Diamete	72"		Γ			North		
		Bik-Steel / Galvantzed					}	OW-70	6L	★		
į	4.	Method of Constructi	X _				- 1			N		
	17.	~-				MUNICIPAL IN						
		X Allger		pricity:)		n						
	18.	Indicate total No. of w	mila on elte 🖰 📉	. List number of 0	inu sed walls on al	te <u>.() </u>	.],	3				
	14	. Is this well or any oth	er well or water w	digitarial on the own	et, e Couganoite av	operty co	ewered	e see aft	ached draw	ings for prop	osed well	IDENTIONS S
		under a Consumptive										
		(If yes, complete the fo		WIP No. N/A	A TO PERSONAL PROPERTY IN	··· ·	—·**					
	1	District well i.D. No.		MAINE HARM TO THE TANK			-					
							1					
	1	Letitude N/A		ngitude N/A						South		
	1	Data obtained from GF			op datum NAD 27	NAD 8		····				
	15	. I hersby curtily that I will some	by with the applicable to	ee (176a 40, Florida Administr	ative Code, [c	orthy that I a	m the owner	of the property, that	the information s	rovidesi is acceptate		SWEETS OF TRY
		hersby certify that I will both and first in water use beans to prior to continuous section of we applicable in accounts section of the government, light-readily in all and printing setting parties parties and light-readily in the	arrectes recharge pentil Bookseverion, l'iustiles o	i, w. reserve, russ Deen or Will be entill thus all information provide	nd on Ario the	PURE PURE PAR	in charles, the	of the property, that or 373, Florice, State the kindowskies pro m. Owner consists	Acted in social systems	ATTO STAN I HARVE BY	s new work, vi, i drifted the oper sentations correct	DET OF THE 18-
	1	goromment Marchicalde 1	Cree to provide a well of	man oraș num uniar mortă, au rapkilon (400), lo gu Distort a free	thin 30 days	Aud May have g	- ALEXAU #20V	TŸT	יין זרמן		. 1	- ()
	1	1.11111	HI	1/12	2			- [11] [//// IL s		2119	5/08
	1	Styridene of Contracto		- Joanes h				- (\dom	O ASSES		- 1 Da	
				DO MOT WRITE BI		I D	ROTFIC	IAI USE OF				
		Approval Granted By:	AGIELD	EDWARDS			ue Date:		0-8	Hydrologist	Approvel	
					,				0100		• •	534
		Owner Number:		Fe	3 I 100014887 A	20	Racel	pt No.:		Check No.:	264	754
		THIS PERMIT NOT V	ALID UNTIL PROF	PERLY SIGNED BY AN	AUTHORIZED OFF	TCER Of	REPRES	SENTATIVE OF	THE WMD.	T SHALL BE	AVAILABL	EATTHE
		WELL SITE DURING	ALL DRILLING OF	PERATIONS. This pe	rmis is valid to	r 90 d#	ys from	date of las	U.			
		Form 0123 Re	v. 4/95						_	السريد والمراجع والأراق		•
		I CHILLIAND THE	11. TOWW							CHARLES		٠.

	(STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REPAIR, MCIDIFY, OR ABANDON A WELL SOLITION OF THE SOLITION OF ABANDON A WELL SOLITION OF THE SOLITION OF					Permit No. 19/59/2747 Florida Unique I.D. Permit Stipulations Required (See attached) 82-524 well Gury Application No. According (1984 Colored on the OCA)		
		Florida Power as	id Light Company,	Attn: Mr. Ed Paul	n 9700 SY	V 344 Stre	eet Floric	la City	33034	305-246-6407
	1.	Owner, Legal Name of 8	- "		Address		City ,		Zio	felephone Number
		. *	clear Generating St			ed wells a			_	And Property of the Party of th
١	-	Well Location - Address	s, Road Name or Humber,	City				····		
23	3.	MACTEC Engin	eering and Consult			# 11035		4(4-873-476	i1
햜		Well Drilling Contractor		Licer	188 No.	D ! #1			ephone No.	- HW - ME
첉		396 Plasters Avo	nue	·····		a. NE 1/	A of SE	1/4 of Section	on <u>33</u>	
		Atlanta	Georgia	30324		,	•	(indicate	Well on Chart)
뚩힐	i	Cily	Qtyle	710		6. Township	, <u>57S</u>	_ Aange	40E	X
8 S		Miomi-Dado	NI/A	—.p	, N/A	N/	'A	N/A		
	6.	County	N/A Subdi	helelon Namo	I est	1.7	A. Block	1 (1/2)	init	SW SE
ı	7.	Number of proposed t	wells Check the	use of well: (See back of per	mit for additional ch	okce4)	Domesi	ic Monito	r (type) Obs	ervation well
ı		imgetion (type) Public Mater 8	lupply (type)	-,	List Othe	6r			
- {		(Sun Back) Distance from eartic :	type) Public Water 8 system N/A R. De	iβit) Filmi willing All nathana	Back) Anternier disekarp	ARA Batim	ated start of	Constructio	o data 2/19	/08
	_	Y				_		******		Close Change of T
	5,	Application for	New Construction	RepairModity	ADENGO	ment	(Fleason lor	Abendonment	,	
i	8,	Estimated: Well Dept	26* ft	Caskin Depth 15	ft	8	creen interve	from 15	to 25	TI CON
		Casing Ma	tenal: Blk-Steel/Gul/PVC	C rvc Casing Diameter 2	 	60	eai Materiai 🛓	ec below	- Tour	20. 17 000
	10.	if applicable: Propose	d From 13 to 2	Seal Material 1	0/20 silfen s	ond **	Pell will be inst	elled with a not	-fout mitting	no. May 2 6-6 Miami-Dade Count
		Grouting Interv	ni From 10 to 1	13 Sout Material Di	atoulte					Mistalli Departe
į				CO Seal Malerial P	ortiand/beatour	a Alurry Dr	BY a map of YA NGS BIOG RENOTH	ill Rosetton and Uka: provide d	iodicale well sil stances between	e walf in "X". Ideathy known n well and landmurks.
	11.	Talascope Casing	or Liner_X(check)	one) Diameter 2"					North	
		Bik-Sleel / Galvanized	PVC:PVC Other (apacity)	· ·		[1	OW-70	16U	7	
	12.	Method of Constructi	on: X Rotary	Cable Tool	Combinatio	an ·			M	
		X Auger	Other (specify:))	ŀ				
	13.	indicate total No. of w	relis on site 0	at mimber of unused we	lls on site ()				-	
	٠.		er well or water with draw],86	see at	ached draw	ings for pro	posed well locations
	[~]		er wan ar waar wich daw Water Use Permit (CUPA							•
		(If yes, complete the fo			REGRISS TO 164	,, 180				
		District well t.D. No.		·				•		
		Latitude N/A	Longitude I	N/A						
		Data obtained from GF			10 27 NA	ــا رــــــــــــــــــــــــــــــــــ			South	<u> </u>
	15	. I harning results that I will a see	,	•) I am the owner m	f the property. Itse	. The leformation :	provided is accord	e, and that I am every of my
		mod that is worker use permit of we prior to posymenosment of we	by with the applicable nates of This 4 entities rechange powelf, it is added it construction, I further versity that all ent Withoute necessary apported by great to provide a well obtained from the readon, substate of content first,	their been or will be obtained il information provided on the	ine agent	Men under Chapter or the civitar, Shall	r 373, Florida 80. Par international	prese, lo muintain syldani is pycorad	or properly aband and stock have b	e, and that I am everts of my on this well or, I certify that I am nformed the owner of life ha- sected type access to the Well alle.
		 approximate accurate and in openiments, it applicables? 	IFF Will etwilo necessary appoints for re- igned to provide a seel completion re-	om other ledelal, scale, or local sport to the District within 50 days	appreasure.	in as estima house	- CVIII CONTRACT	Y 7 7 7	THE STATE OF ILL INCOME.	- Indaci
	١,		11.11	11025			- 1 (1	III (¢		2115108
	L	Spanis of Convector		License No.	·		- Dime	rs of Agent's Sig	netriti	Dais
			0C M	H MELL BITOM H	HS 11ME I	IN 140 AC		-		
		Approval Granted By:	ASTRO LOV	NATIO		lasue Date: _		208	_ , ,	t Approval
		Owner Number:		Fee Received		Recelp		021500		3234534
		THIS PERMIT NOT V	ALID UNTIL PROPERLYS	IGNED BY AN AUTHORI	ZED OFFICER	merical mon OR REPRES	ENTATIVE O	F THE WMD.	ncyear. . IT SHALL BI	E AVAILABLE AT THE
		WELL SITE DURING	ALL DRILLING OPERATIO	NS. This permit is a	elid for 90	daya Irom	date of inc	ue.		

_DEMPHS_GCH

Form 0123 Rev. 4/95

3055133472 02/20/2008 08:58

			STATE OF FLOR REPAIR, MODIF Southwest Northwest St. Johns Rivies Suwannie Ri CHECK SOX FORA PROPE	Permit No. 0/59/77950 Fiorida Unique I.D. Permit Stipulations Required (Set attached) 82-524 well 8777 Application No.				
	1	Florida Power at	nd Light Compan	ıy, Atm: Mr. Ed Paul	2 9700 SW	344 Street Flori	ida City 33034	305-246-6407
ĺ		Owner, Legal Name of I			Address	City .	Zip	Telephone Number
				Station - coordinates	of propose	d wells attached		
_			ss, Fload Name or Numb			2 4 4 10 7 10	404 050 40	,
ŠŠ	3 . ,	MACTEC Engir	teering and Cons	ulting, Inc Phillip K	. Pitts FL #	11035	404-873-47	
# S		Well Driffing Contractor 396 Plasters Ave			No.	SE 40 - NE	Telephone No.	NF.
M Rin line in order Put address Die Though ervelope werdow	-	Address Ave	:Make			(bipgest		orb
5		Atlanta	Georgia	30324 Zip	•		(frefeate Well on Che	(n)
문 문	Ī	City	Slate	Zip	5.	. Township	Range 40E	
副	2	Miami-Dade	, N/A.		, N/A	N/A	N/A	
2,	25.	County	St	ibdivision Name	Lot	Block	Unit	SW SE
Ì	7	Number of summand		the use of well: (See back of peri		Dome	atto Monttor (trop) Ob	servation well
- 1								
		ista Back)	(type) Public Well	er Supply (type)(See E	lectó	List Other		0.00
- 1		Distance from septic	eyetem N/A fl	er Supply (type) (See E	utewater discharge a	Estimated start o	of construction data $\frac{2/1}{2}$	9/08
	8.	Application for: X	New Construction	Repair/Modify	Abandonn	ent		Daip Solety
	9.	Estimated: Well Dept Casing Mi	in <u>101* ft</u> elemai: Bik-Steet/Gui/	Casing Depth 90 1 PVC rvc Casing Diameter 2'	ît	Sorean Interv	rai from 90 to 100 see below	Pro Marcount
	10.	Happilosble: Proposi Growing Interv	ed From 88 in 18 i	100 Seal Material 10 10 Seal Material 10 10 83 Seal Material Pr	V20 silica sa ntonho riland/bentunlic	slurry Draw a map of crues and breet	ar Abandonment) rai from 90 to 100 nee below untilled with a one-font sumply well ideation and bridgate well marks: provide distances below	not no. In the Department of the Missouries Department of the Missouries Department of the Missouries
	11.	Telescope Casing Bik-Steel / Galvanized	or Liner (the L/ PVC PVC Other (tipe	eck one) Diameter 2" odfy:		ì	Mount	
	12.	Method of Construct		Cable Tool				
	12			List number of unused wa	_			· _
	ł					50 See 9	ittached drawings for p	oposed well locations
	114			inwai on the owner's config UP/WUP) or CUP/WUP Appli			•	· .
	1	•		No. N/A	CHRONIL THO			
	Į	(If yes, complete the fi District well I.D. No. 1		· 14U			•	
	1	Latitude N/A	Longitu	de N/A		1		
	1			A survey (map deturn N	D 27 NAD	83)	South	
						are the corner of the troppets.	inar the Information provided in nom	Altho, and that I be swelch of my
	"	suice programment of the beauty of an suice programment of the beauty of I thereof called arm I shill boar	apay were wat appayement temes to by settificial appayement poemik, it is not construction, it betsher pressly t	Title 40, Florida Administrative Code, seded, her been or will be obtained into all thick and in the median provided on site wall from other tederal, same, or local ton reports to the Detact within 50 days	hecomepile the application	en Lociet Chapter 373, Florida S the gwner, that the intermedion	Statutes, to makinalin proporty and property and property and that I have been also that	nine, and that I am awark of my ndon this walk or, is carrily that I am I women the owner of his re- presentative access to the wall stop.
	1	speciation Energy and a	ners we objet momenty expris	wal from other tederal, state, or local ton report to the Derpict within 50 days	aponilbilisa	SE STATE BOOVE, LINKS COME	71 777 77 77 77	1. 60
	1		A KITT	1/1/20		1		1 9415100 1
		Explorate of Contractor	2 M	Licerasi No.			Her's or Agent's Gignstein	Den
			De	MOT WINTE DELOW, TH	IS LINE F	DR OFFIGIAL USE	UHI Y	<u></u> <u></u>
		Approval Granted By	LASTRID E	duards	16	ISUe Date:	Hydrolo	glat Approval
		Owner Number:		Fee Received	: 60		20915026 Check N	
		THIS PERMIT NOT	VALID UNTIL PROPERI	LY SIGNED BY AN AUTHORI HITIONS. This permit is a	Enter nur ED OFFICER (merical month, day an OR REPRESENTATIVE lays from date of i	OF THE WMD. IT SHALL	BE AVAILABLE AT THE
		Form 0123 R				•		d gov
			٠.					

į	(STATE OF FLORIDA PERMIT APPLICATION TO CONSTRUCT, REIPAIR, MODIFY, OR ABANDON A WELL Southwest Northwest St. Johns River South Florida Suwannes River CHEX SOX FOR APPLOPRIATE DISTRICT. ACCRESS ON BACK OF PERMIT PORM. STATE OF FLORIDA PERMIT PORM MUST BE FILLED OUT COMPLETELY. The water wait contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable. Florida Power and Light Company, Attn: Mr. Ed Paula 9700 SW 344 Street Florida						on No	i (See attached)
	1	Florida Power at	nd Light Compa	ny, Attn: Mr. Ed Pa	ula 9700 SV	7 344 Street Flori	da City	33034	305-246-6407
		Owner, Legal Name of I			Address	City		Ζlp	Telephone Number
- }				g Station - coordinat	es of propose	ed wells attached			
_		Well Location — Address	s, Road Name of Num	ber, City					
85	3.	MACTEC Engit	teering and Con	sulting, Inc Phillip		# 11035		873-4761	
7		Well Drilling Contractor 396 Plasters Ave		. Lic	ense No.	SE NE	•	hone No.	NE NE
劉		Address	вие		· · ·	SE 1/4 of NE	_1/4 of Section :	33	
5 5		Atlanta	Georgia	30324		•	(Indicata We	all on Chart)	X
	i	City	State	ZID		Township 575	Renge <u>40</u>	<u>)E</u>	
45		•	, N/A		. N/A	. N/A	N/A		
是認	٥.	Miami-Dade County		Bubdivision Name	Lot	Block	Linit	<u></u>	SW SE
	_								
	7.	Number of proposed	wells Checi	(the use of well: (844 backet)	cho landifica sol time	ow)Donne	stic Monitor (t	ype) Onser	vation well
- 1		(See Back)	(type) Public Wr	ter Supply (type)		Liet Other			
	•	(See Back)	N/A	tier Supply (type) (8 Description of facility (8)	en Back) , waterster Akalman	its the final and a series	of construction o	_{tela} 2/19/	08
1						ESHINING SELL	th Collect Report 6		
	B,	Application for: X	_ New Construction	Repair/Modify	Abandonr	nent	y Anandonmenti)	 ∤ .	
	۵	Matimatuska thinii finant	, 26* ft	Casing Depth 1	5 ft	. Screen Inten	al from 15 to	25	100 CO
٠	¥.	Casino Ma	redat: Bik-Steel / Gal	/PVC rvcCasing Diameter	2"	Seal Maledal	see below		tuo.
		•				mer! *Well was be in	talica with a one-foc	of sump Land	Carol Decaro
	10.	If applicable: Propose Growling Interv	rd From 13.	to 25 Seal Material to 13 Seal Material	Brotonine	nu		Par	Middle Constitution of the
. !		កាស់ការបិ មានគេ	From 9	to 10 Seal Material	Portland/bentonic	sturry Draw a map of	well lacation and ind	House Ivel! site	with an "X". Identify known
į	**	Telegoppe Orel		mck one) Diameter 2"	•	roads and lands	narka; provide dista	North	well and fandmarks.
	11.	Bik-Steel / Galvanized				ow-7	71TI	A	
						1	210		ļ
	12.			Cable Tool		n·	•	7 \	
	ļ	X Augus	Other (spec	olfys)	_) `	l			_
	12.	indicate total No. of w	estis on site 0	List number of unused t	vells on site 0	- 125		_	
	74,	is this well or my ell-	or well or water with	drawal on the owner's con	dations property	covered Sec a	itached drawing	to toub	osed well locations
		•		SJP/WUP) or CUP/WUP Ap		l l			· · ·
		(If yes, complete the fo		F No. N/A					1
	1	District well I.D. No.							1
	1	Latitude N/A	Longit	wite N/A		ł			İ
		Data obtained from Gi			NAD 27 NAD	82		South	
	15		•		i cartily that	Lam the owner of the property. S	hat the Information SPOY	ided is accurate.	and that I AM arrant of my
	"	and the a water use permit of we	r estitional recovering permit. If a	I Tide 40, Florida Administrative Code, no idea, has been or will be obtained; if as all invented on provided on the must from other federal, state, or loca- rice report to the Dienici within 30 de-	responsibility the spent Ro	he under Chapter 373, Floride S the certer, Shiri the knowledge	tatutes, to maintain or to provided is accurate, ar	roperty abandon tel stant i harre for	, and think I fifth events of my sittle wells, or, I certify that I am ormed the owner of his re- concilius access to the well, site.
	}	Committee of the contract of t	at I will obtake pademany activ acrae in provide a wall compl	that from other tederal, state, or local rich report to the District within 50 day	ra. Pa	E STEER LOOK OWNERSONS	N a //	NAME OF TAXABLE	1.5/5/
	1	1777	KTIK!	11620	_	1 ()	(U	2415108
		Bigmettre of Contractor	- Comment	License No.			mer's or agents Stores.		Date
			D:	WOLLE BLISW TUE	пиз она 🧸 г				
		Approval Granted By	ASTELD !	EDUMERS		1800 Date: 2-19-	-08	Hydrologist	Approval
		Owner Number:	_	Fee Receiv	ed: 5 50_	Receipt No.:	30215406	Check No.:	524534
	•	THIS PERMIT NOT	/ALID UNTIL PROPER	PLY SIGNED BY AN AUTHO PATIONS. This permit is	Enter nu	nerical month, day an OR REPRESENTATIVE	d full, four-digit : OF THE WMD. I	Veatr.	
					.				
		Form 0123 Re	. 4/₽¢ .v.	•			اقب		STORY.

Form 0123 Rev. 4/95

3055133472

-	1		☐ Southwest ☐ Northwest ☐ St. Johns AN ☑ South Florids ☐ Suwannes A	IONN Bird forward	ble for completing this a appropriate delegated	Permit Stipulations F	equired (See attached)	
		Florida Power an	d Light Compa	ny, Attn: Mr. Ed Pac	ıla 9700 SW	344 Street Flor	ida City 330	34 305-246-6407
('' ĉ	Dwner, Legal Name of E	ntley it Corporation		Address	City .	7	to Telephone Number
- 1	2	Turkey Point Nu	clear Generatio	g Station - coordinate	es of propose	d wells attached		, , , , , , , , , , , , , , , , , , , ,
	- Ţ	Well Location - Address	s, Road Name or Num	ber, City				
g e	3.	MACTEC Engin	eering and Cons	ulting, Inc Phillip	K, Pitts FL#	¥ 11035	404-873	-4761 ·
휇	- ī	Well Drilling Contractor		Lice	ense No.		Telephone	NO. NO. NE
EB		396 Plasters Ave	nue		4.	SW 1/4 of SE	$_{\rm 1/4}$ of Section 33	
	7	Address	·			(amailant) (bigge	iti (Indicate Well on	Cham
55		Atlanta	Georgia	30324		Township 57S	1	~~~
3	Č	lity	State	Zip	 6.	. Journarib	Hange 400	
		Miami-Dade	, IN/A		N/A	N/A.	, N/A	X
	٦. (Mismi-Dade County		ubdivision Name	Lot	N/A.	Unit	SW SE
-								Observator mali
	7.			the use of well: (See backerp	emsh for additional choic	na)Dom	estic Monitor (type)	Observation well
1		(See Back)	ype) Public Wa	er Supply (type)		List Other		
- [(See Back)	N/A	(Se	e Back)	El Calinadad com	at assumption the s	2/19/08
						· ·		
- 1	A. ,	Application for: X	New Construction	Repair/Modify	Abandonm	ent	for Abandonment)	Data Samo
- 1			26* ft	14	: ^	(Herrico)	or Adendoranemy	Darie Sverro Darie Sverro Darie Sverro Darie Sverro Darie Court Mar. Sverro Darie Sverro Dari
	9.	Estimated: Well Depti	20 10	Casing Depth 15	7 IL	Screen Inter	val from 15 to 25 see below	JOPK GAY
- 1		•		PVC rvcCasing Diameter			300 DCO11	Francisco Vinaros
1	O.	if applicable: Propose	d From 13.	to 25 Seal Material	10/20 silica 821	n (l "West will be b	mun 1047-2000 A tiliar belintan P	West site with an article and in comments and the comment with the comments and the comments are comments and the comments and the comments and the comments ar
		Grouting intervi	i From 10	to <u>13</u> Şeel Meterfal]	Benjanite			Marie Departur
		,	From <u>0</u>	to 10 Seal Material	Portland/bontonite	<u>alurry</u> Draw a maip of 1086s and land	i well location and indicate s imarks; provide distances b	HON SING WILLIAMS VICTORISMY KNOWN
];	11.	Telescope Cusing	or Liner X(ch	ack one) Diameter 2"	•		North	
l		8fk-Steel / Galvanized /	PYCPVC Other (ap	acity;		OW-7	735U 🔝	,
- 1	•^	64.Mart -4 -5	X n	Cable Tool	Ossahination	1	N	
	14,					'		
- 1		X Auger		tfy:)		.	-	
- 1	13.	indicate total No. of w	elic on site	List number of unused w	relis on site <u>''</u>	~ ' ¥		Therefore
1	14.	is this wall or any oth	er wall or water with:	irawal on the owner's cont	guous property (covered Scc	attached drawings to	r proposed well locations
ł				UP/WUP) or CUP/MUP App				• •
- }		(If yes, complete the fo	-	No. N/A				
1		District well I.D. No. 1				_	•	•
ı		Latitude N/A		N/A		Ì		
- }		Data obtained from GF			 Vad 27 Nad :		Sout	h
1				, .	•			
	15.	i hereby certify that I will come and that a water tibe permit or prior to commonment of we application in applicant and fit permitted in applicant.	by with the applicable rules of artificial momente partitle. If a construction, I before certify if fivill obtain receivable application provided a well accepted with a minimum operation.	Title 40, Florida Administrative Code, sected, fines bean or will be obtained filed all intermetion provided on this year from other tederal, state, or local don report to the District within 30 days	i omily that i responsibilitie the separation sponsibilities t	are the corner of the process, as under Chapter 373, Forlice the power, that the information as extend above, Owner order	that the information provided to Sugaries, to maintain or properly a planticed is accurate, and that out to personnel of the YMID of	ACCUPATE, and that I are aware of my sharpen the well, or lower First I am hove, increment the owner of the in-r a shorpen culture accepts to the well after.
		1 SILV	VI HO	1/635		1	(1///) [[] _	מטרון ע
	L	Eignesi's of Contractor		Lioened No.		f	mare or Aparta Signature	566
			n in	NOT WRITE BULOW (HIS LINE FO	OR OFFICIAL USI.		
		Approval Granted By:	ASTENDE	anaros	ls	eve Date:	7-08 Hydr	ologist Approval
		Owner Number:		Fee Receive	50	Receipt No.: In	POSISTICE Chec	*No: 524534
		WINDLING !		• OO (10\-01Y)	Enter nun			

DCN# TUR060

Form 0128 Rev. 4/95

•			REPAIR, MODIFY, OR ABANDON A WELL Southwest Northwest St. Johns Rilver South Florids. This Form Must be relied out completing this form and forwarding the permit to the appropriate delegated			Permit No. 9/50 Florida Usique I.D. Permit Supulations Requis 62-524 well G	red (Sea Albached)	
	1	Florida Power at	id Light Compan	y, Attn: Mr. Ed Pau	ila 9700 SW 3	44 Street Florid	ia City 33034	305-246-6407
	3	Owner, Legal Name of E Turkey Point Nu		Station - coordinate	Address es of proposed	City . wells attached	Zip	Telephone Number
¥.		MACTEC Engin	eering and Consu	ulting, Inc Phillip	K. Pitts FL#1	11035	404-873-470	51
5.5	۵	Well Orlling Contractor		Lice	nse No.		Telephone No.	NOV NE
룓칥		396 Plasters Ave	nue	•	. 4.	NE 1/4 of NE	1/4 of Section 34	\mathbf{x}
55		Address				(aum)(end) (piblient)	(Indicate Well on Char	
25	_	Atlanta	Georgia	30324	· ·	57S	Range 40E	'
25	. (City	State	Zip	5 ,			
20		Miami-Dade	, 'N/A.		, N/A	N/A.	, N/A	
孟	4 ,	County	Sur	bdivision Name	Lot	Block	Unit	SW SE
	7.		volla ¹ Cherik ti	ne use of wall: (9 back of pa			tic Monitor (type) Obs	servation well
	8. 8. 10. 11.	Application for: X Estimated: Well Depti Casing Ma If applicable: Propose Grouting Intervi Telescope Casing Bik-Size) / Galvanized Method of Constructi X Auger Indicate total No. of W	New Construction 101 * ft terial: Bik-Steel / Gai / Fix d From 88 to From 93 to From 0 to or liter x (close OF VC PVC Other (special) Cities (special) The construction of the const	Repair/Modify Casing Depth Casing Depth Casing Depth Casing Diameter Casing Depth Cas	Abandonmen Abandonmen Abandonmen (0/20 stiles sand bestentts Perdand/bestentte six Combination) site on site 0 guous property co	Relimeted start of Present for Sorgen Interval Seal Material Sea	Abandonnenti if from 96 to 100 ace below inited with a one-foot shall be a sh	Dam Samo PR Wising 199 Wisi
		(Il yes, complete the for District well I.D. No. P. Letitude N/A	dowing) CUP/WUI			-		
	ŀ	Data obtained from GF			AD 27 NAD 83	,	Bouth	
	15.	I hereby berilly that I will come and that a water use parell of prior to commerce ment of we apply that is appropriate and appropriate and appropriate appropriate appropriate appropriate and appropriate approp	J. Harry	tie 40. Picytick Administrative Code, their been or will be obtained at all information provided on the all into other tedents, state, or local in report to the Detrict man of Chys. License Mo.	·	- J Ginn	al the information provided is accura- tional, to maintain or properly about the provided is accurate, and tree have a to performing by the WMO or is rep of the performing by the WMO or is rep and the performing by the performance of the performing by the performance of the perf	the, and shall have several of they son this well, or, logarily first I am informed the gener of the he- meentaries access to the well are, 15/6% Desi
			4	NOT WRITE BELOW!		OFFICIAL USE O	~.0	
		Approval Granted By:	ASTED 12	WARDS	iesu	e Date:	Hydrologi	st Approval
		Owner Number:		Fee Receive			0917406 Check No	52 4534
		THIS PERMIT NOT V	ALLO UNTIL PROPERLY ALL DRILLING OPERA	'SIGNED BY AN AUTHOR	IZED OFFICER OF	rical month, day and REPRESENTATIVE C Is from date of lan) FTHE WMD, IT SHALLE	BE AVAILABLE AT THE

- Stylend-gov.

Form 0123 Rev. 4/95

			REPAIR, MOI Southwest Northwest St. Johns Fort South Flort Suwannee	This The	NOON A WE S FORM MURY BE I water wall contract In land forwarding the Inty where applicable	LL. I PILLED OUT O HOT IS reaponable by parmit to the a le.	·.	Permit No	lised (See attached)
	1.	Florida Power at	nd Light Com	oany, Attn: M	r. Ed Paula	9700 SW	344 Street Flori	da City 33034	305-246-6407
		Owner, Legal Name of I				dress	City .	Zlp	Telephone Number
	2.	Turkey Point Nu	iclear Generat	ing Station - c	oordinates o	f proposed	wells attached		
,		Well Location — Address			Distillia IV	Dista ET #	11025	404-873-47	161
	3.	MACTEC Engin	teeling and Co	risutidig, the	Licanse	No.	1100	Telephone No.	
Ž		396 Plasters Ave					NE 1/4 of NE	1/4 of Section 34	
ğ ğ		Address					(ampliant) (Dipper	(indicate Well on Cha	·
		Atlanta		303	24	·	Township 57S		***
		City	State	Zip	•				-
	Ŋ.	Miami-Dade	N/A			N/A	N/A. Block	N/A	
		County		Subdivision Nam	ė	Lot	Block	Unit	SW SE
Ì	7.	Number of proposed v	wells 1 Chr	kik the use of well	: (Say back of permit)	tor addiffernal choice.)Dome	atic Monitor (type) Ob	servation well
1						•	•		
- [•	(Gee Back)	N/A	(and makes () for	(See Bar	ti	Liet Other	of construction date 2/1	9/08
1		Distance from septic	System:	ti. Description o	Tagilky	Will delian by and	- Estamenda erent :	- semblidelion ness	
	ģ.	Application for: X	_ New Construction	Repair	Modify	Abandonme	ntReeton k	r Abendonment)	Date Stamp
		Estimated: Well Dept	. 26* ft	Casle	Dent 15 ft		Seesan Inter-	el teum 15 to 25	Date Stample D
•	7.	Casing Ma	sterial Bik-Steel / G	a:/PVC rvcCasin	g Diameter 2"		Seal Material	see below	VI 700
	10.	if applicable: Propose Grouting Interv	al From 10	_ to <u>13</u> 50	al Material Bonn	erite	*Wen will be in	stelled with a one-foot sump	mil Control
- [10 <u>10</u> 8			CONCE BITC DESCRIPTION	Maria, biorne marinese south	site with the Residence of the second
	11,	Telescope Casing					i	North	
		Bik-Steel / Galvanized					OW-8	02U T	1
	12.	Mathod of Constructi	ion: X Roter	yCabié	Tool	Combination		A	
Ì		X Auger	Other (sp	oecity:))	•	1		_ (
	13.	. (ndicate total No. of v	velis on site 🖰	. List number	of unused wells	on site 0			m
	14.	. In this wall or any oth	ier well ist weter w	ith inawat on the o	aner's contigue	us property co	versed 💆 sec a	ttached drawings for pe	oposed well incations
		unders Consumplive	Water iJee Permii	(CUP/WWP) or CL	PAVUP Applicat	dan7 X_No	Yes		·
		(If yes, complete the to		VUP No. N/A			_		
		District well I.D. No. 1	√/A				Ī		. [
		Latituda N/A		gitude N/A				South	
		Date obtained from Gr	36 or map	_ ()r survey	(map datum NAD 2		,		
	15	i. I hannoy certify that I will com- and that a water use permit of price to common among an application is most and the commission, it applicable I/o after drawing or any permit and	pir with the applicable naise i artificial recinarga partisi, all occannocisist. I system de mi Laidi obtain necessisty a appea superviste at well con iradon, ghichagap occans i	e of "Rie Ab, Floride Admit it needed, hide been one stily that all information pr appoint from other federa posts in report to the Dist test.	inletzelve Code, 69 be positived 19 de positive 19 dese, or local 10 within 30 days	i dentity that I a responsibilities the agent for the epock billion, a	is the owner of the property, it under Chapter 373, Florida 5 is peries, that the intropactos is stated above. Center oppo-	het the information provided is accu- taistims, to maintain or property about provided is accurate, and itself hav- ing to personnel of the WARD or a re-	rate, and that I am ewste of my noon the west or, I corsty that I am a shormed the ewster of his re- presentative access to the woll sho.
	11	in the	Jan 199		<u> </u>			111111111111111111111111111111111111111	40100
		Significant of Contractor	تناواني ومناان		MANA THIS	OD E	R OFFICIAL USE	ner's de Aquint's Signature	Outs
		Annesis Constant	A Country on	EDWARD		1.00	ue Date: 2-1-5		Het Approval
		Approval Granted By:	: ATV 1 FOUR	10 - V 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1 1-1		6.	T		Co., C 2712
		Owner Number:			Fee Received: \$	Enter num	Receipt No.: 1 O.	ROZIS46 Check N d full, four-digit year.	
		THIS PERMIT NOT \ WELL SITE DURING	/ALID UNTIL PROP LALL DRILLING OP	erly signed by Erations. <i>This</i>	AN AUTHORIZEI Parmit is vai	OFFICER OF	REPRESENTATIVE ys from date of li	of the wmo. It shall	BE AVAIL ABLE AT THE
		Form 0123 Re	av. 4/95					TE WAY	d.ous

STATE	OF FLORID	A PERMIT	APPLICATION	TO CONSTRUCT
REPAIR	R. MODIFY.	OR ABANI	OON A WELL	,

☐ #Jouthwest Northwest
St. Johns Fiver South Florida
Suwannee River

This form must be filled out completely.

The water well contractor is responsible for completing this form and forwarding the permit to the appropriate delegated county where applicable.

CHECK SOX FOR APPA DPRIATE DISTRICT.	AND BOOKS AND BUSINESS OF REPORTED FOR
CHECK FOR FOR SERVICE DISTRICT.	AND DEED WILDOWS OF PERMIT AND

Permit No. 13/50 Florida Unique I.D. Permit Stipulations Required (Ses attached) 62-524 Well 🔲 CUP Application No.

_						كالمسالية ومساواته
1.	Florida Power and Light Comp	any, Atin: Mr. Ed Paula 9	700 SW 344 S	Street Florida City	33034	305-246-6407
'•	Owner, Legal Name of Entity it Corporation	Addre	88	City	Zh	Telephone Number
,	Turkey Point Nuclear Generati	ng Station - coordinates of r	proposed well	s attached	•	
-	Well Location - Address, Road Name or Nu					
,	MACTEC Engineering and Cor		ts FL#1103	15	404-873-476	51
1 "	Well Drilling Contractor	. License No			Talaphone No.	NW NE
1	396 Plasters Avenue		4 NE	1/4 of <u>SE</u> 1/4 of Se	ection 34	
1	Asdress		(pmaile		ate Well on Char	
ł	Atlanta Georgia	30324	•	1		"ll
	City State	Ζίρ	5, Town	ship 575 Ran	ge 40E	X
١.	Miami-Dade , N/A	. N	ī/Α . ,	N/A N/A		
0.	County	Subdivision Name		Block	Unit	8W SE
7.	Number of proposed wells 1 Cher	of the use of well: (See back of permit for a	dditional choloss)	Domestic Me	onitor (type) Obs	cryation well
	Impation (type) Public Y	Ster Supply (type)	List	Other		
	(See Brok) Distance from septia system N/A	/Rax Sacht	er ellerhannen auss.		2/19	2/08
				MINISTER REPORT OF CONTROL	ceon dette	
8.	Application for $\frac{\mathbf{X}}{}$ New Construction	Repair/Modify	Abandonment			page and N
	101* f t	80 R		(Reason for Abandon		of Can
B .	Estimated: Well Depth 101* ft	Casing Depth 30 12		Screen interval from 90		AN DOCUMENT
l	Caseing Material: Bik-Steet / Ge	I / PVC evcCasing Diameter 2"		Seal Material see below	- h	Proprietable Continue
10.	If applicable: Proposed From 88	to 100 Seat Material 10/20 :	silica sand	*Well will be installed with	n one-Foot regree (Co	White Depart
	Grouting Interval From 83	to 85 Seal Material Bentonite	3		. Opp	10000
	From <u>A</u>	, to <u>83 Seal Malerial Pertland</u>	/bontonite sluzzy	Draw a map of well togation roads and landmarks; provi	encindicate wall st	a with "X". Identity known
31.	Telescope Ceston or Liner X	theck one) Diameter 217		TORGE STREET, STOPP	North	
1	Blk-Steel / Galvanized / PVC/PVC Other (a			OW-805L	*	
	* · · · · · · · · · · · · · · · ·			011-0050		
12	Method of Construction: X Rotary		mobination .		, ,	
1		refly:))	_ *			
13.	Indicate total No. of walls on site 0	List number of unused wells on	alte $\underline{0}$.	 		m
14.	is this well or any other well or water with	drawal on the owner's continuous	property covered	sec attached d	rawings for pro	posed well locations 🙎
	under a Consumptive/Water Use Permit (•
	(If yes, complete the following) CUP/WI					
	District well I.D. No. N/A					
	Latitude N/A Long	N/A				
1	Oata obtained from GPS or map		HIATS OD 1		South	
15	it hereby certify that I will comply with the applicable rules and that it waste use point or artificial recharge permit, it prior to commencement of wast construction. I lumber own	(IThis 40, Florida Administrative Code,	l certify that I am the own Necontabilities which C?	ner of the property, that the Informative plants, to make the Information provided in so	from provided is ecutable position of property aband	e, and that I am sware of my on this well; or, I pertiy that I am
	prior to commencement of well positive so. I further over application is accurate and Brill Figts obtain necessary app	h that all information provided on the stress from other tederal, state, or local	the agent for the chiller, sponsibilities as stated a	met the information provided is so bove. Owner conjunting operacy	arete, and thei shipre is a pithic WWD of a lapti	sionned the owner of his his meanism modern to the well pile.
	application is accurate and Still Tyle crosh necessary and convertifiants. If application is accurate and convertifiants of application is accurate and convertifiant or and partial application, whichever constants from	ETRON REPORT TO THE DICYCH MEDIN 30 CHANS		171711	/() (\	alicias
1	Coll Skill	11035		1 11 //4 /		8417100
	Spenishe of Contractor	License No.		Displetel bi volum	Signature	Date
	A 1	PHOT WHILE BLOW THE LI	AF -1 DE OFF	ICIAL USE OUTY		
	Approval Gramed By: ASTRID E	durrics.	Issue Date	2-19-08	Hydrologis	Approval
	Owner Number:	Fee Received; \$			106 Check No.	
		E	nter numerical ri	nonth, day and full, four	digit year.	
	THIS PERMIT NOT VALID UNTIL PROPE WELL SITE DURING ALL DRILLING OPE				MU. II OMALL BI	EWANICHOTOWN 1120

Form 0123 Rev. 4/95

_BENDON

3055133472

	. (STATE OF ILORIDA REPAIR, MIDDIFY, O Southwest I Northwest I St. Johns River E South Fichida Suwannes River CHECK SOX ROBAPPROPRIATE	NSTRUCT, PLETELY. In completing the oppleted delegated	Permit No. 10 / 16 9 Florida Unique LD. Permit Stipulations Require 62-524 weil 52-524 weil 52	ad (944 etiteched)		
	1.	Florida Power an	nd Light Company, A	ttn: Mr. Ed Paula 9	700 SW 34	4 Street Florida	a City 33034	305-246-6407
		Owner, Legal Name of E		Addr		City	Zip	Relaphone Number
- 1	2,	Turkey Point Nu	e, Road Name or Humber, Cl	tion - coordinates of	proposed w	ells attached	····	
8				y 1g, Inc Phillip K. Pr	tts FL#11	035	404-873-476	a l
900	3.	Well Orilling Contractor	,	License No			Telephone No.	NW NE
age of		396 Plasters Ave	nue		4. N	E 1/4 of SE 1	1/4 of Section 34	
400	· ·	Address			(817	maint (pidden)	(Indicate Well on Chert	
200		Atlenta	Georgia	30324		Waship 57S		
まま まま	<u> </u>	City	Shite					
300	6.	Miami-Dade	N/A	t e	V/A.	N/A.	N/A	NW SE
		County		sion Name	LOL		Link	
	7.	Number of proposed v	vells 1 Check the us	DE Of WAII: (Sae beck of poemit for a	ddirlomai cholesa)	Domesti	c Monitor (type) Ohsi	ervation well
	8. 9, 10.	intigation (construction of the thick sheet of the construction of	New Construction New Construction 26 ft Iterial: Bik-Steel / Gai / PVC od From 13 to 23 From 9 to 10 or Liner X (check on / PVC PVC Other (specify:) on: X Rotary Other (specify:) walls on site 0 List ar wall or water with Irawal with Irawal of the Form (CUP/William) CUP/Will P No.	poly (type) (See Each) Aription of facility Task wastered Repair/Modily Casing Depth 15 ft FUE Casing Diameter 2" Seal Material 3 entonte Seal Material 3 entonte Seal Material 3 entonte Seal Material 3 entonte Cable Tool Cable Tool Cuthber of unused wells on the owner's contiguous UP) or CUP/WUP Application N/A	criticisment Abandonment silics sand c combination alte property cove	Estimated start of a (Reason for) Soraen interval Seal Malerial S "Well will be losted Draw a map of we need and landing	construction data 2/19 construction data 2/19 construction data 2/19 from 15 to 25 construction are sold for the sold	No. 20 County In A County In No. 12 Coun
	ļ	Data obtained from GF	28 OF MAP IX SURV	rey (map distum NAD 27_	NAD 83	_/	South	
	75	The state of	by with the applicable roise of 100 40, refulcial revisions parell. Emission, a construct so. I further owifly that all all justification becomes patient all from agree to populate a well completion repo- sories, which we spood a first.	Fioritin Administrative Dods, ma peer or will be obtained alumnation provided on this colors where it is also or local or to the Dodsit within 30 days	i certify that I am the teacomethiness und the agent for the cy- sponsibilities as sta	e owner of the property, that er Chapter, 975, Floride Stati mer, that the tracmetion are read above. Owner portlands	the Information provided is access use, to resistant or properly share veiled is accessed as access to personnel of shareful or a repr to repend of shareful or a repr to repend of shareful or a repr	in, and that I did greate of my on bits water, or, partiry that I are stormed the over of his re- secretarity access to the re- partir access to the re- Date
		Eigneture of Contractor	TOM OU	WHILE BELOW HIS E	INE FOR C	DEFICIAL USE OF		
		Approval Granted By:	AGTERN FAWA	POS .	188UO)	Date: 4/19-7	Hydrologia	Approved
		Owner Number:	-,	Fee Received: \$	50	Receipt No.: 10%	215406 Check No	たん いくりい
		THIS PERMIT NOT V	/ALID UNTIL PROPERLY SIG ALL DRILLING OPERATION	NED BY AN AUTHORIZED (officer or h	el month, day and	fthe wmd. It shall b	E AVAILABLE AT THE
		Form 0123 Re	av. 4/95 .			•	** Francisc	E . No. of the last

			•					
		ATEL BY	STATE OF FLOR	IDA PERMIT APPLI	CATION TO	CONSTRUCT.	Deck Land	9-2258
				, OR ABANDON A		,,,	1	
	٠.		☐ Southwest	, as very (2014 V			Florida Unique (.D	
			☐ Northwest	THE FORM MALE	the filled ou	T COMPLETELY.	Permit Stiputations Re	equired (See Attached)
	1		13. Johns Flive			sible for completing this		
			2 South Florida	igata and looward		te appropriate delegated	82-524 well	
		A STATE OF	☐ Suwannee Riv		X/CBDIO.		SUP Application No.	
			CHECK BOX FOR APPIXOPRI	LATE DISTRICT. ADDRESS ON BA	CK OF PEAMIT FOR	M.		ECOTOTO PODA, OTA
			~ ~~~	· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·		· · · · · · · · · · · · · · · · · · ·
		Florida Power an	id Light Company	y, Attn: Mr. Ed Pui	ıla 9700 SY	V 344 Street Florid	da City 3303	4 305-246-6407
	1.	Owner, Legal Name of E	fillty it Composition		Address	City .	Zi	radimuM enoriqueT
			clear Generating		b implicato transa			
	2.							
			s, Rond Name or Numbe					
Ę	3.	MACTEC Engin	eering and Consu	404-873-	4763			
18		Well Orlling Contractor			inse No.		Telephone N	O. NY NE
8		. 396 Pinsters Ave	nue			NW MAN SE	1/4 of Section 33	
5 2		Address			·	(biggast))	
28		Atlanta	Georgia	30324		•	(Indicate Well on (Chart)
		No. of the last of	State	2in		5. Township 57S	Agents 40E	_ X
2 G		City				• •		
1		Miami-Dade	ı N/A		. , N/A	, N/A	, N/A	
Ž,	*	County	N/A Su	hdivision Name		N/A Block	Linit	- SW SE
	-							
	7.	Number of proposed	velle .L. Check ti	na cina of will i: (See back of p	writt for additional ch	okes) Dornes	etic Monitor (type)	bservation well
		Irrigation (type) Public Vilate	r Supply (type)(Se Description of facility Ind		List Other		
		(See Beck)	N/A	(\$4	e Back)			/19/08
		number trom sebric	TL TL	Description of facility	The second secon	FRIMMING WITH C	r Domaniciscu gam 🗀	· 1
	A.	Application for X	New Construction	Repair/Modify	Abendon	mont		Cutt walnut of 4
		• •	_			(Flasson fo	r Abendonment)	0.7
	۵	Estimulade Midl Canti	, 101* ft	Casing Depth 90) ft	Corpor Intere	100 to 100	P. B. Co. O. Como
٠	•	Cosino Ma	indol: Blk.Steel / Oct / C	VC eveCasing Diameter	911	Seal Material	ace below	N A WILLIAM
	ŀ	•				Sout Marana	see below	mit no Contractions
	10.	If applicable: Propose	d From 88. to	100 Seal Material	10/20 silica 3:	and Wellwill be in:	grape toth-see atter beliefe	And Wir Dan Barre
		Genetian Interes	i From 83 to	85 Seel Motorial	Reatonite		,	AND MICHAEL WITH
		ALABOTE B. D. MIL X.	From B to	92 San Majada	Pariland/heatani			
	•	•				roads and lands	serira; provide dialances be	og skip will ben "X", identify known tween web and landmarks.
	11,			ck one) Diameter 2"			North	
		Bik-Sloef / Galvanized	PVCPVC Other (a) Nec	lfy:		OW-8	not. 🚓	
						- / - /-	N	
	12.	Method of Constructi		Cable Tool		ימי ו	,	
		X Auger	Other (specify	7	.)	}	•	
		fadincia and M		List number of unused w		.]		11
	10.	HINDROSE NOTE INC. OF W	WHEN CITY STAND	FIRE UTWIDEL OF BUILDING A	ells on alce	₁₈		
	14.	is this well or any oth	er well or water with dra	wat on the owner's cont	ouous property	covered Sec 81	Hached Grawings for	proposed well locations
						I		
	1			P/WUP) or CUP/WUP App	MCKNOW	· — · • • •	•	
	1	(if yes, complete the fo		No. INTAL				
	١	District well I.D. No.	/A				•	
		Latitude N/A	Longitude	N/A				
	١				 !40.87 \$!A!	340	South	
	1	Data obtained from GP		, <u> </u>		· · · · · · · · · · · · · · · · · · ·	**************************************	
	15	I hereby partily that I will come	ily with the applicable roise of Th	ie 40, Flexida Arimhistrative Code, ded, has been or will be obtained it all information provided on the information provided on the information indexal, steps, or focal report to the District within 30 days	I certify that	I am the corner of the property, the	at the information phovided is a	curate, and that I am aware of my bandon this wait or, lowelly that I am see intormed the owner of his re- representative access to the walk ello.
	1	eric fluit a witter use parmit of prior to commencement of well	atificial monalina perma, if rees	ded, has been or will be obtained in	responsibili the apont fi	Mes under Chapter \$70. Florida 80 or the owner, that the Ricombine o	zolog, bijominimo er progety e Povidedie bijilimo, mad jok i i	INFO DAY WHILL BY DAYS OF THE TH-
	1	APERCATION OCCUPIES AND PO	i withouth necessary approve	I from other lederal, state, or focal	#20childists	es are statud above. Owner objects	e a belcours of the Machae	representative access to the wall site.
	1	MAY GRANG PHILE PRINCIPLE	ration. This staying scours from	(Toportal an Dallace manual account	•	1/1/.	$H \setminus A \setminus A \setminus A$	abolat
		Sent Sunt	164	1//35		11///	11 1	9-117100
	1	8 pt Stre of Contractor		Ucense No.	<u> </u>	Ų Omn	eta or Roenta Signature	Des
			fac e	OF WELL BLOW !	HIS LINE P	OH OFFICIAL USE O	III Y	
		Approval Granted By:		DWARPS		88Ue Date: 2-19.	• 0	oglet Approval
		- Abiose distinct ch:	7 17 19 10		''	<u>ـــا ب</u> بيمېرم		INTER-
		Owner Number:		Fae Receive	d: \$ 50	Hecelot No: LOX	021640 Check	No: 524534
					Enter nu	merical month, day and	full, four-eight year.	1 00 MAR 501 F 1771 F
		THIS PERMIT NOT V	ALL COLLEGE COPERLY	SIGNED BY AN AUTHOR	ized officer	OR REPRESENTATIVE C	OF THE WIND, II SHAL	T DE VANTARES I LAF
		AAETT SILLE DOHING	ソファ りょうしょう しょうしょう	IONS. This permit is	vella for 90 (1275 110N1 43H 01 #	RUT,	

Form 0123 Rev. 4/95

- FEWARD AND E

			RIEPAIR, MCIDIFY, Southwest Northwest St. Johns River South Floride Suwanner River	The water well conform and forwarding	FELL. THE FILLED OUT CONTINUES IN THE PROPERTY OF THE PROPERTY	APLETELY.	Permit No. 1976 C Florida Unique I.D. Permit Stipulations Requ 62-524 well SUP Application No.	ired (See nitached)			
	1.	Florida Power and Light Company, Attn: Mr. Ed Paula 9700 SW 344 Street Florida City 33034 305-246-6407									
	i		Entity if Corporation		Address	City .	Zip	Telephone Number			
			iclear Generating S		s of proposed v	vells attached	•	•			
		Well Location - Address	s, Road Name of Humber,	City ·							
2 1	3.	MACTEC Engir	reering and Consult	ing, Inc Phillip F	C. Pitts FL#1	1035	404-873-47	/61			
**************************************		Weil Drilling Contractor	4	Licen	88 No.		Telephone No.	MAY NE			
8		396 Plasters Ave	nue		. 4. <u>I</u>	TW 1/6 of SE	1/4 of Section 33				
3 8	-	Address				marreed (pi@gast)	(Indicate Well on Che	(hr			
ă		Atlanta	Georgia	30324	· ·	ownship 578		- X			
		City	Slate	Zip		• *					
	₿,	Miami-Dade	N/A		, N/A	N/A. Block	N/A				
		County	Subd	Malon Name	Lot	Block	Unit	SW SE			
	7	Mumber of systematic	wells 1 Chickthe	HER OF WELL BY	mis dan seletikan di akabamat	Domes	tic Manitor (type) Oh	servation well			
	8. 9. 10. 11. 12.	Distance from septio Application for: X Estimated: Well Dept Casing Mr If applicable: Frances Grouting Interv Telescope Casing Brk-Steel / Galvanized Method of Construction X Auger Indicate total No. of v Is this well or any off ander a Consumptive	From 9 to or Liner x /check / PVG PVC Other (specify) Ion: X Floter / Other (specify:) wells on site 0 . Liner well or water withdraw a Water Use Permit (CUP/Ottowing) CUP/NUP No N/A . Longitude	Appain/Modify Casing Depth 15 C rec Casing Diameter 2 Seal Material 13 Seal Material B One) Diameter 2" Cable Tool at number of unused we rel on the owner's contig WUP) or GUP/WUP Appli	Abandonment (1) (1) (2) stites saud monits saud monits multant/pentonits street saud monits (1) (3) (4) (5) (6) (7) (8) (8) (9) (9) (9) (9) (9) (9	(Reason for Screen Intervel Seat Material - Well will be instituted and length of West Seat Material - West will be instituted and length of West Seat Material - West Seat Material - West Seat Material	Abandomment) If from 25 to 25 age below halled with a ene-fact samp of location and indicate well arias; provides distances below North	Day Table 10 County incomes and landmarks.			
	15.	I hereby certify the 13 mile come and that is writer use parmit of the 15 mile is writer use parmit in application to accommencement of the application to accommend and the operation of the parmit stop o	ply with the applicable rules of Title / e artifact, inchings premit, il oseder il construction. I further only if that is all will, continued a further artifacts in all continued a further interest in figure betyroods a further in the inflict, chickens, occups for i.	to, Florida Administrative Code. 1. has been or will be obtained in bromation or will be obtained in bromation or will be obtained on other federal, state, or local port to the District within 30 days.	f carbly Pass I am d responsibilities an the agen) for the c sponsibilities as at	the commet of the property, the der Chapter 87g, Fichicle Sta womer, Blat Res Information pl plated above. Owener connects	If the Information provided is easily in the Information provided in account or properly accomplished a section countries, and that I have taken provided on the Wife Dury a re-	and, and that I am amount of my office of the second of th			
		Right of Contacts	D. P.	License No.		Own		Date			
				or weith the low th	-		<u> </u>				
		Approval Granted By:	AGTUD EDU	Mac	I BBUG		11,010101	fot Approval			
		Owner Number:	·	Fee Received		TO COURT IN THE PARTY OF	0215406 Check N	0.52 4534			
		WELL SITE DURING	/ALID UNTIL PROPERTY S ALL DHILLING OPERATION		ZED OFFICER OR F	REPRESENTATIVE O		BE AVAILABLE AT THE			
		Earm 0123 134	our ASSIS								

FAX #: 919-831-8106



STATE	OF FLORIDA	PERMIT	APPLICATION	TO CONSTRUCT
REPAIR	R. MODIFY, O	RABANE	OON A WELL	,

☐ Southwest
☐ Northwest
☐ Sit. Johns River
⑤ Stouth Florits
☐ Stuwannee River

THIS FORM MUST BE PILLED OUT COMPLETELY.

The water wall contractor is responsible for completing this term and forwarding the permit to the appropriate delagated county where applicable,

HECK BOX FOR APPRIJPRIATE DISTRICT.	ACORESS ON BACK OF PERMIT FORD

Permii No. 13-59-7	160
Florida Unique I.D.	
Permit Stipulations Required (See	attachedi
· Antithe a sharement confidence (Seb.	
, ,	
62-524 well CVIV Application No.	

4.	Florida Power and Light Co	ompany, Attn: Mr. Ed Paul	n 9700 SW 344 S	Street Florida City	33034	305-246-6407
-	Owner, Legal Name of Entity if Corpore	ation	Address	City	2lp	Telephone Number
2.	Turkey Point Nuclear Gene	erating Station - coordinates	of proposed well	is attached		
Well Location — Address, Road Name or Number, City MACTEC Engineering and Consulting, Inc Phillip K. Pitts FL # 11035 404-873-4761						·
						1
٠,	Well Drilling Contractor	. Licen	se No.		Telephone No.	NW NE
	396 Plasters Avenue	•	NW	HAM NE HERE	Alson 33	X
	Addiess		(British	1/4 of NE 1/4 of Sec	.0011	
	Atlanta Georgia	30324		,	ale Well on Chart	<u> </u>
	City State	Zip	5. Town	nahip 57S Reng	40E	
	Billiam: Dada Bill		. N/A	N/A N/A		}
В.	Mlami-Dade N/A					W DE
	County	Subdivision Name	Lol	Black	Unit	017 JL
7.	Number of proposed wells 1	Check the use of well: (See buck of port	nit for modificral choicea)	Domestic Mor	Altor (type) Obse	rvation well
			` .			
	(See Book) Highways (Syps)	ubic Water Supply (type) (See 8	lació	Officer	A /4 0	
	Distance from septic system N/A	tt. Description of facility Toli. 70	member grepunke unen	stimated start of construc	tion date <u>2/19</u>	/08
	Application for: X New Constru			•		
		·		(Research for Absorbionm)	ent)	~O~~
S.	Estimated: Well Depth 101* ft	Casing Depin 90 f	ît ,	Screen Interval from 90	_ to 100 0	V VA
	Casing Material: Bik-Ster	el / Gel / PVC rvc Casing Diameter 2"	,	Seal Material sec below		20. /N. CO.
	-			*Well will be installed with a	mercos suma dif	Toda so
10,	If applicable: Proposed From 85	to 100 Seal Meterial 11	1/20 silica sand	THE WILL DE BINGBOOK WILLIAM	Carr.	A Brown Deposit
		to 85 Seal Material Be	ntonite	Draw a map of well location :		2300
	From U_	to 83 Seal Material Po	rition d/hentonite Muzicy	LITERY & MAP OF WAS ROCKTION S CORSE AND INVONSTRIES; DITIVID	ia c <u>erenciae poutob</u> Pagraciae poutob	g with pur "X", looning liek n word land tandenaties.
11,	Telescope Casing or Liner X	(check one) Diameter 2"			North	
	Bik-Steel / Galyanized / PVCPVC Of	ther (specify:		OW-812L	*	
				V V	N	
12.	Method of Construction:	· · · · · · · · · · · · · · · · · · ·			• •	
	AugerOthe	er (epectiy:))				
13	Indicate total No. of wells on site $\frac{0}{2}$	List number of unused wel	ls on alte 0	· [
44	is this well or any other well or water	or with farmed on the grounds continu	our poporty server	, 🎍 see attached dr	awings for prop	posed well locations
170						
		PINNE (CUP/WUP) or CUP/WUP Applic	Matton? A No 196	' [
	(If yes, complete the following) CI	UPANUS No. LYA				
	Diatrict well I.D. No. N/A					
	Latitude N/A	Longitude N/A				
	Data obtained from GPS or man	I BUIVEY	D 27 NAD 89)	l,	South	
٠.					المستحدية المستحد	
10	. I hereby certify that I will comply with this egisteds and that is water use permit or willfulst represent a	to fulse of This 40, Florids Administrative Code, sernit, if it is add, has been or will be obtained.	responsibilities under Cl	war of the property, that the informati happer 373, Plotton (Palures, to main	tein or properly stance	THE HELL OF LOSTEY STATE
ŀ	Application is accurate and their Will block in neces	day sopre val from other address, acres, or local	apone DRIGAS as stated (above. Owner consume to begroups	of site A 46 or a laste	SENTENCE PROPERTY TO THE WIRE
	Application is accurate and their Milliotic in recom- confidence, if applicable, i dones to envide a we after definition of ecosymy postation, which year po-	AN CONTENSION REPORT TO THE CARTISC WITHOUT OUT ONLY IN		\(\) \\	$I \cap I \cap I \cap I$	nor Ind
	Charles Mary	1/D3S.	•		Mild	8º1514
	Signature of Consessor	Licerae fig.		Owner's & Agents	Signature	Dan
		DO HOLWELL BLLOW THE	S UNE - FOR OU	IGINT DEF ONTA		
	Approval Granted By: ASTELD	DW ARRS	lesue Date	19-19-04	Priydrologiei	Approved
				T. 0-01:0	406 Check No.:	52126 XL
	Owner Number:	Fee Received:	* WT	0801 No -1-080 15	Uar remains the c	34 Lb 49 3Lb

Form 0123 Rev. 4/95

_SEWENDERCOY

	(RIPAIR, MODIFY, Southwest Northwest St. Johns River South Florida Suwannee River	form and forwarding in	FILLED OUT Co for is responsible to permit to the co is.	OMPLETELY. S for completing this	Permit No	ired (See altached)
١	•	Florida Power at	nd Light Company,	Attn: Mr. Ed Paula	9700 SW	344 Street Flori		
	3.	Owner, Legal Name of E	Entity if Corporation	Ad	iress	City	Złp	
	2.			tation - coordinates o	f proposed	wells attached		
			s, Road Name or Number.		11 TO THE	11026	40 4 002 40	124
Ę	3.	Well Drilling Contractor	teering and Consult	ting, Inc Phillip K. I	ins fl#	11035	404-873-47 Telephone No.	
2		396 Plasters Ave		LICENSE		NW NE	•	NW NE
codie through anycopo		Address			4.	NW 1/4 of NE (trapper)	114 Of Section ***	-
Š		Atlonta	Georgia	30324	•	E76	(Indicate Well on Cha	
Š		City	State	Zìp	5 .	Township 375	Range 40E	· []
ş	R	Minmi-Dade	N/A	,	N/A	N/A. Block	, N/A	
و		County	N/A Subd	Ivision Name	Lat	Block	Unit	\$W \$E
	7.	Number of proposed t		USB Of WOTE (See back of permit is	w additional choice) Domes	itio Monitor (type) Ob	servation well
					•			
	•	(844 Brok) Distrace from saptic	eystem N/A tt. D	Supply (type) (See Beding Data weeks) Pater discharge are	Estimated start o	f construction date 2/1	9/08
	8.	Application for: X	New Construction	Repair/Modify	_ Abandonma	- nt		Osje Storio
	9.	Estimated: Well Depti	26* ft	Casking Deptit 15 ft C rvcCasing Diameter 2" Seal Material 10/2 Seal Material Bento Seal Material Forth		(Resect to Screen Intervi	al from 15 to 25	66 By Way
	ŧn.	Casing Ma If applicable: Propose	ntental: Blk-Steet/Gat/PV	C rycCasing Diameter 2" 10/2	O silica san	Soul Material "Well will be for	see below	ni do
		Grouting Intervi	at From 10 to	13 Seal Material Bento	nite mul/bentonite si	usry Diama deo of s	Total formation and tooksala well a	the method of the territory browns and and landmarks.
	11	Talagana Castus	or Liner_X(check	one) Ciamates 217		roads and lender	arios: prináde distances betwe	ers well and landmarks.
1	71,	reservohe centrick —	— ea miller —— (creck	Cone) Diameter 2		ow-8	240)117	·
							120	
	12.			Cabie Tool	Combination :		73	
	19.			et number of unused welle (on elte <u>O</u>		-	
	14.	Is this well or any oth	er walf or water withdraw	al on the owner's contiguou	s property co	wamad ≸ sec ni	tached drawings for pro	opeard well locations
		under a Consumptive	Water Use Permit (CUP/	WUP) or CUP/WUP Applicati	on? X No	_Yes		•
		(If yes, complete the fo						
		District well I.D. No. N					•	
		Latitude N/A	Longitude	N/A				
		Data obtained from GF	or wab ot ar	uvey (map detum NAD 2	7 NAD 85	,	8outh	
	15.	I heraby certify that I will come	oly with the applicable rules of This A millions recharge perfoli, it readed construction, it further delify than a	10, Flidde Admigle retire Code,	I confly that I am	i the peneral the property, pu	it the information provided is social	ne, and mail on more of my
	١.	prior to operation or many of well	increasing parties, a respect loopelise on I further delify this e djulk octain necessay express it	i, nest been or my co-occament il information provided on this om other tedenti, atter, or local	The agent for the approximation of	s demar, that the information of stated above. Owner consign	It the information provided is social buties, to maintain or properly aban regided in sociality, and their Univer- personated of the WAID of a hep	Informed the better of his se- reception accept to the well also.
	1	South and the southern states of the section section.	ti juli obtain necessary symposis in Oraș in provide a veil con pieton ca rabin, veijan pur occurs ii st.	port to the Dietrick within 50 days	.,			Alklad
	\	Yell	1610	1/035			MIX	410101
		Digitature of Contractor		License No. Of WRITE BELLOW THIS			ića os Agelića Šīģisistura	Die
	-	Approval Granted By:	AUTEUR ED	ND-EOS		e Date: 2-19-		et Approvet
					<i>5</i> 5	: - [and the same	4711221
		Owner Number:		Fee Received: \$ _	Enter nume	Receipt No.: <u>LDY</u> rical month, day and	full, four-digit year.	<u> </u>
				igned by an authorized Ms. <i>This permit is valid</i>	OFFICER OR	REPRESENTATIVE C	f the wind, it shall b	E AVAILABLE AT THE
		Form 0123 Re	v. 4/95	•		•	JEMOS	Lasy.

Observation Well Records

Prepared by: CBS Date: 7-10-08

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'

Static water measurement collected 6/4/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

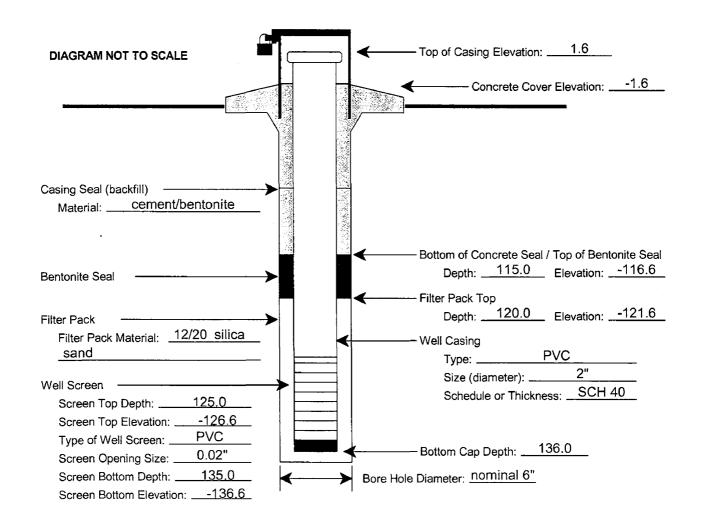
Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu

Static Water Level Elevation (with respect to NAVD88) after Well Development: 1.3

Name of Geologic Formation(s) in which Well is completed: See boring log B-606

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel



NOTES:

Two, stainless-steel centralizers installed at approximately 47 ft. and 96 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/18/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Drill bit lost in hole at 110.0 ft. Bentonite seal installed from 109.0-110.0', with approval of Bechtel.

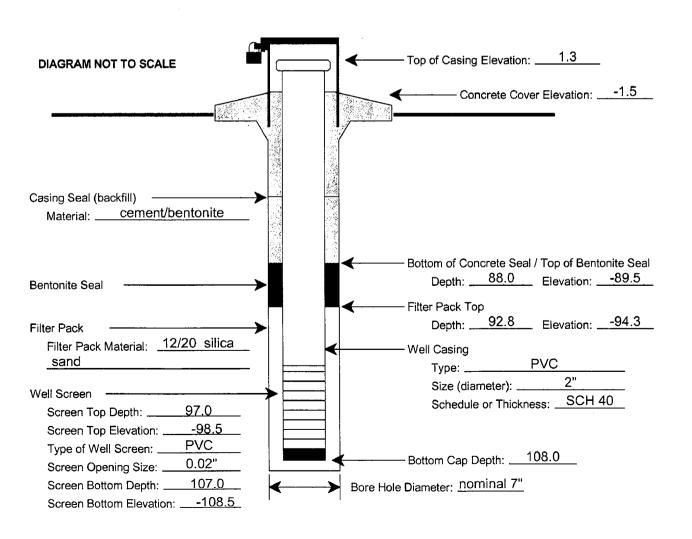
Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith

Static Water Level Elevation (with respect to NAVD88) after Well Development: __-1.9

Name of Geologic Formation(s) in which Well is completed: __See boring log B-606

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950	Observation Well Permit No.: 13-59-2241
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-606U</u>
Date of Observation Well installation: 4/22/08	Date of Well Development: 5/1/08
Observation Well Northing: 396938.0 US ft Easting: 876734.8	<u>US ft</u>
Observation Well Location:Main Island	Observation Well Driller
	Name:Miller Drilling/MACTEC
	License No.:11035

NOTES:

One stainless-steel centralizer installed at approximately 11.5 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

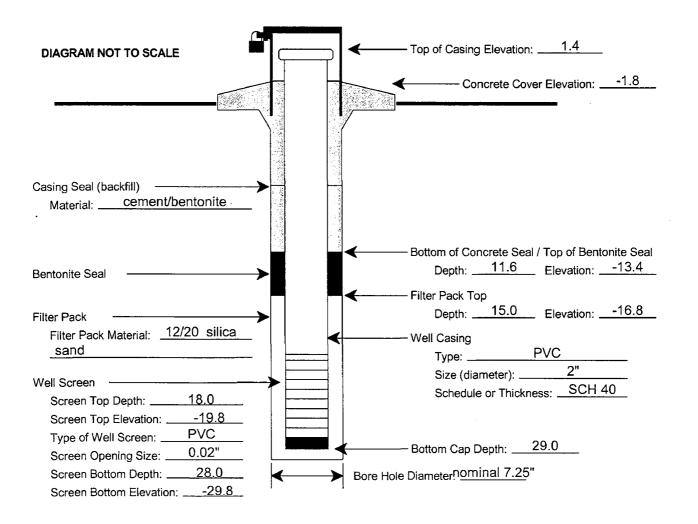
Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith

Static Water Level Elevation (with respect to NAVD88) after Well Development: -2.1

Name of Geologic Formation(s) in which Well is completed: See boring log B-606

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: ____2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2242
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-621L</u>
Date of Observation Well Installation: 4/18/08	Date of Well Development: 5/3/08
Observation Well Northing: 397364.5 US ft Easting: 876970.0	US ft_
Observation Well Location:Main Island	Observation Well Driller
	Name: <u>Miller Drilling/MACTEC</u>
	License No.:11035_

NOTES:

Two, stainless-steel centralizers installed at approximately 48 ft. and 98 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/17/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

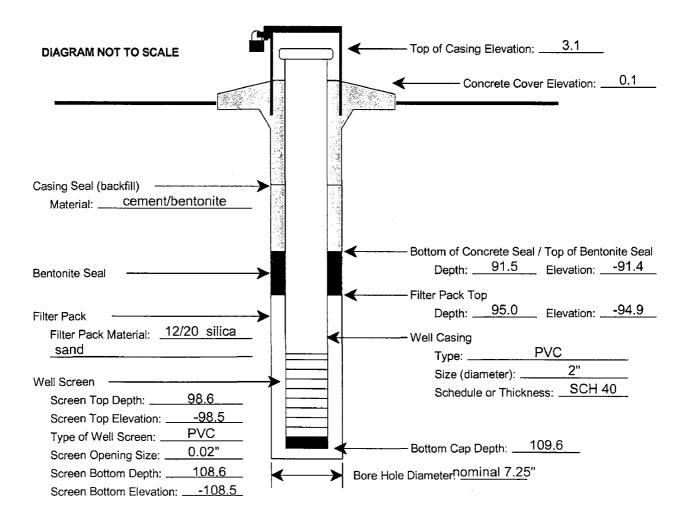
Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.0

Name of Geologic Formation(s) in which Well is completed: See boring log B-621

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2244
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-621U</u>
Date of Observation Well Installation: 4/19/08	Date of Well Development: 5/3/08
Observation Well Northing: 397375.8 US ft Easting: 876930.0	US ft
Observation Well Location:Main Island	Observation Well Driller
	Name:Miller Drilling/MACTEC
	License No. 11035

NOTES:

One stainless-steel centralizer installed at approximately 11 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

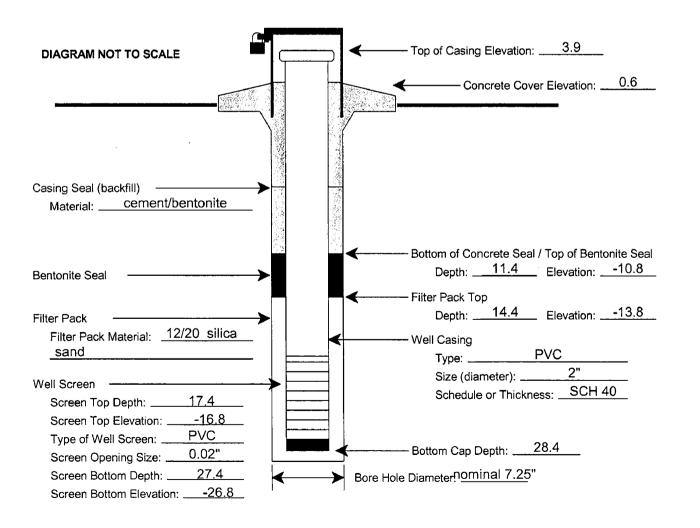
Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.8

Name of Geologic Formation(s) in which Well is completed: See boring log B-621

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: ____2'x2'x0.5'



Observation Well Northing: 395290.8 US ft Easting: 877257.2 US ft

Observation Well Location: ____South Island ____ Observation Well Driller

Name: MACTEC
License No.: 11035

NOTES:

Two, stainless-steel centralizers installed at approximately 49.5 ft. and 96.6 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/21/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Encountered an apparent obstruction at 69.3 ft.

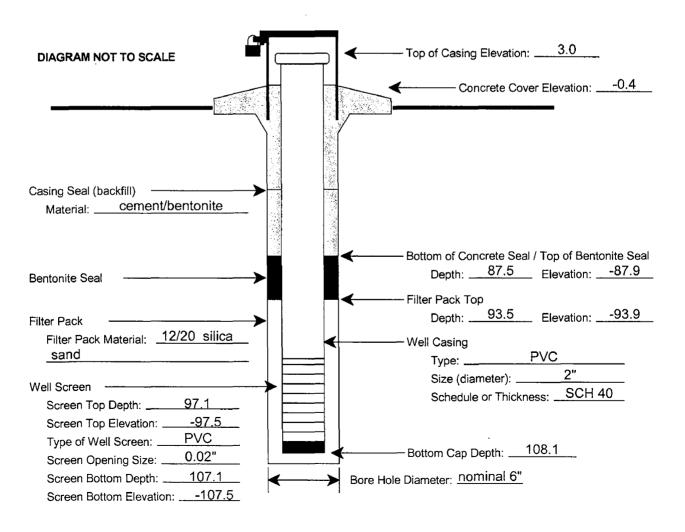
Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

Static Water Level Elevation (with respect to NAVD88) after Well Development: 0.3

Name of Geologic Formation(s) in which Well is completed: See boring log B-806

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.:13-59-2245
County:Miami-Dade County, Florida	Observation Well I.D.: <u>OW-636U</u>
Date of Observation Well Installation: 4/3/08	Date of Well Development: 5/5/08
Observation Well Northing:395285.8 US ft _ Easting:877215.7	US ft_
Observation Well Location:South Island	Observation Well Driller
	Name: <u>MACTEC</u>
	License No.:11035_

NOTES:

One stainless-steel centralizer installed at approximately 16.5 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/21/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

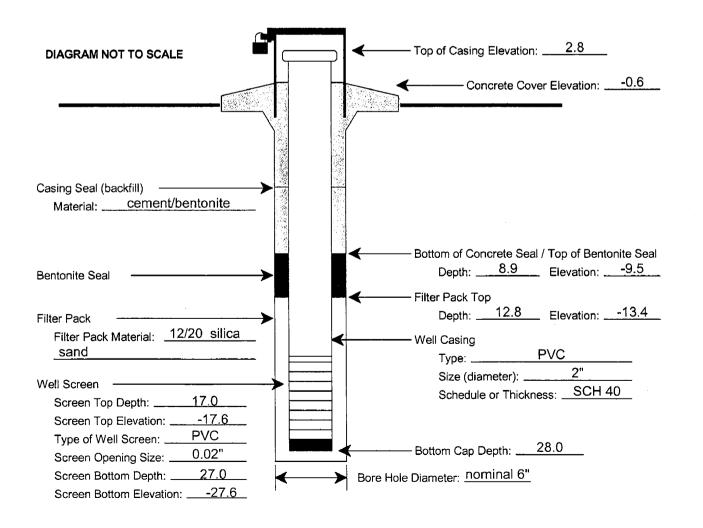
Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.6

Name of Geologic Formation(s) in which Well is completed: See boring log B-806

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: Date: 7-70-08

Checked by: CBS

County: __Miami-Dade County, Florida Observation Well I.D.: __OW-706D_

Date of Observation Well Installation: 5/29/08 Date of Well Development: 6/4/08

Observation Well Northing: 396960.1 US ft Easting: 875864.4 US ft

Observation Well Location: Main Island Observation Well Driller

Name: MACTEC

License No.: ____11035

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 6/4/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

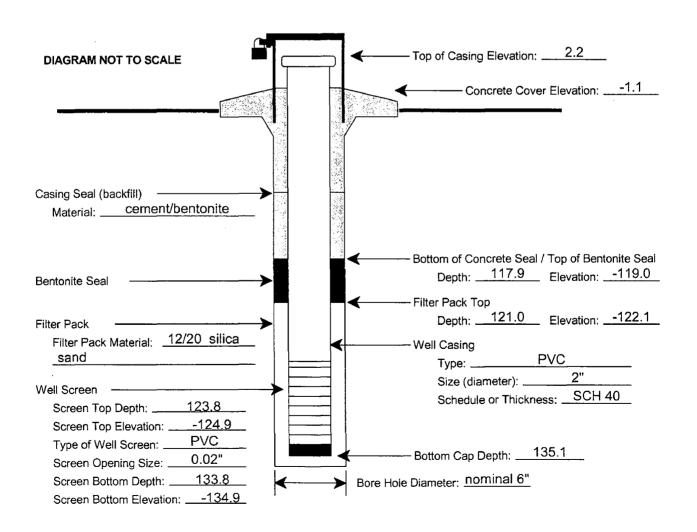
Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

Static Water Level Elevation (with respect to NAVD88) after Well Development: 1.4

Name of Geologic Formation(s) in which Well is completed: See boring log B-706

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: USF Date: 7-10-08

Checked by: ____CB5

County: __Miami-Dade County, Florida Observation Well I.D.: __OW-706L

Date of Observation Well Installation: 3/25/08 Date of Well Development: 4/30/08

Observation Well Northing: 396978.2 US ft Easting: 875904.6 US ft

Observation Well Location: ____Main_Island___ Observation Well Driller

Name: MACTEC

License No.: ____11035_

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/16/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

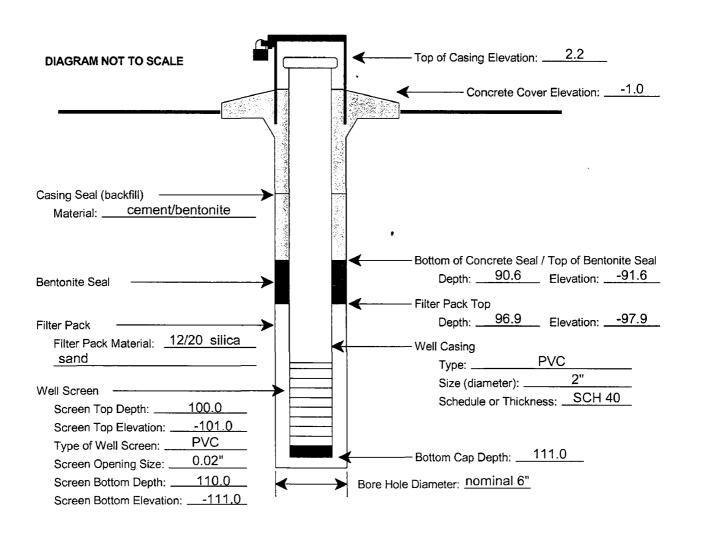
Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

Static Water Level Elevation (with respect to NAVD88) after Well Development: 0.7

Name of Geologic Formation(s) in which Well is completed: See boring log B-706

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: USL- Date: 7-0-28

Checked by: CBS Date: 7/10/03

Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2247
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-706U</u>
Date of Observation Well Installation: 3/27/08	Date of Well Development: 4/30/08
Observation Well Northing: 396940.1 US ft Easting: 875895.7 I	US.ft_
Observation Well Location: Main Island	Observation Well Driller
	Name: MACTEC
	License No.:11035_

NOTES:

One stainless-steel centralizer installed at approximately 16.28 ft.

PVC well screen machine-slotted by the manufacturer.

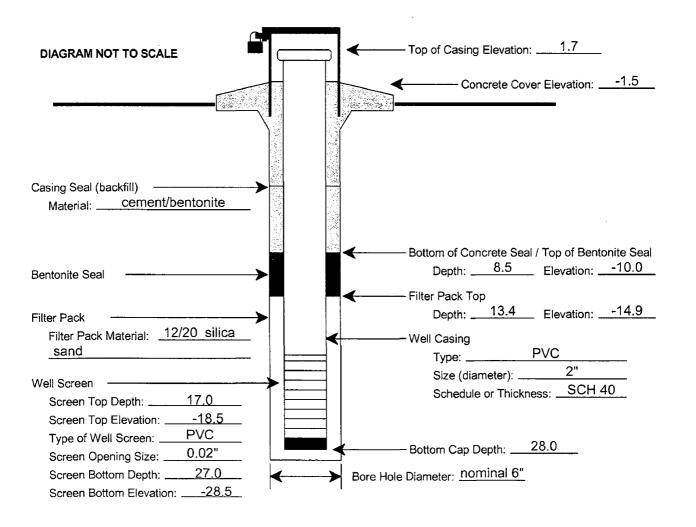
Observation well developed using a submersible pump.

Static water measurement collected 5/16/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs
Static Water Level Elevation (with respect to NAVD88) after Well Development: -2.0
Name of Geologic Formation(s) in which Well is completed: See boring log B-706

Type of Locking Device: Masterlock - 0536
Type of Casing Protection: Steel
Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950	Observation Well Permit No.: 13-59-2250				
County: Miami-Dade County, Florida	Observation Well I.D.: OW-7211				
Date of Observation Well Installation: 5/3/08	Date of Well Development: 5/4/08				
Observation Well Northing: 397321.5 US ft Easting: 876120.3	US ft_				
Observation Well Location:Main Island	Observation Well Driller				
	Name: <u>MACTEC</u>				
	License No.:11035_				

NOTES:

Two, stainless-steel centralizers installed at approximately 45 ft. and 95 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

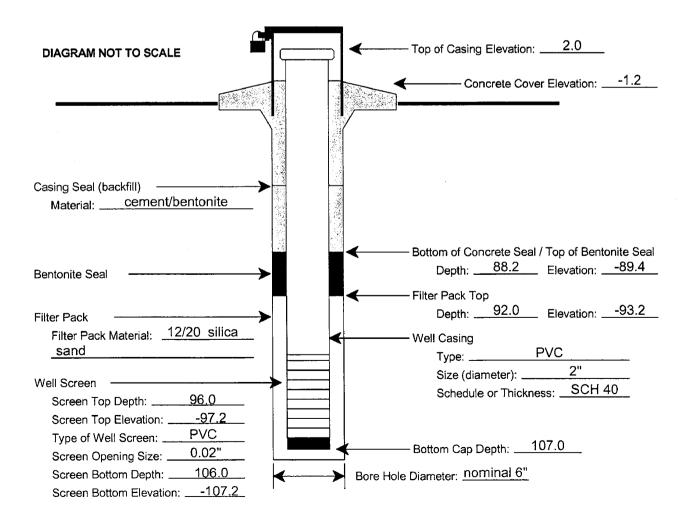
Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith

Static Water Level Elevation (with respect to NAVD88) after Well Development: 0.0

Name of Geologic Formation(s) in which Well is completed: See boring log B-721

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: USC Date: 7-6-8

Checked by: CBS Date: 7/10/03

Project Name / No. :Turkey Point Power Station / 6468-07-1950	Observation Well Permit No.: 13-59-2249				
County:Miami-Dade County, Florida	Observation Well I.D.: <u>OW-721U</u>				
Date of Observation Well Installation: 5/1/08	Date of Well Development: 5/4/08				
Observation Well Northing: 397361.2 US ft Easting: 876121.4	US ft_				
Observation Well Location:Main_Island	Observation Well Driller				
	Name: <u>MACTEC</u>				
	License No.:11035_				

NOTES:

One stainless-steel centralizer installed at approximately 13.5 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/15/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith

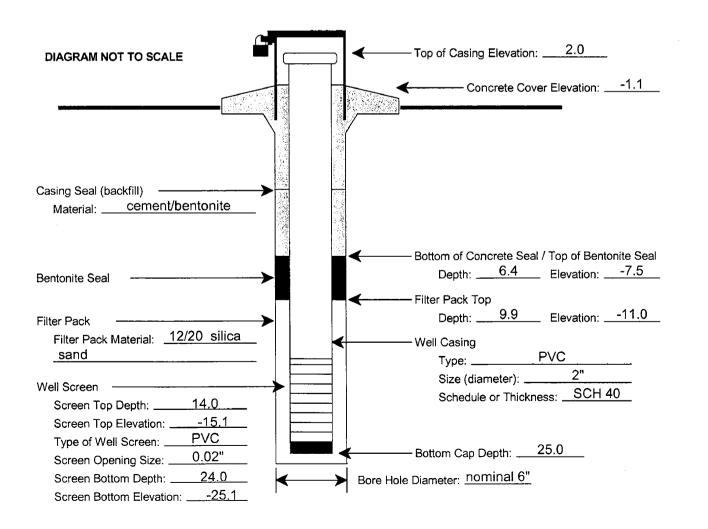
Static Water Level Elevation (with respect to NAVD88) after Well Development: -2.4

Name of Geologic Formation(s) in which Well is completed: See boring log B-721

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: Date:

13-59-2252

CBS Checked by: _

Project Name / No.: __Turkey Point Power Station / 6468-07-1950__ Observation Well Permit No.: _

Observation Well I.D.: <u>OW-735L</u>

County: Miami-Dade County, Florida Date of Observation Well Installation: 4/19/08

Date of Well Development: 4/30/08

Observation Well Northing: 395824.3 US ft Easting: 875669.6 US ft

Observation Well Location: ____South Island___ Observation Well Driller

> Name: _____ MACTEC

License No.: ____11035_

NOTES:

Two, stainless-steel centralizers installed at approximately 45 ft. and 96 ft.

PVC well screen machine-slotted by the manufacturer.

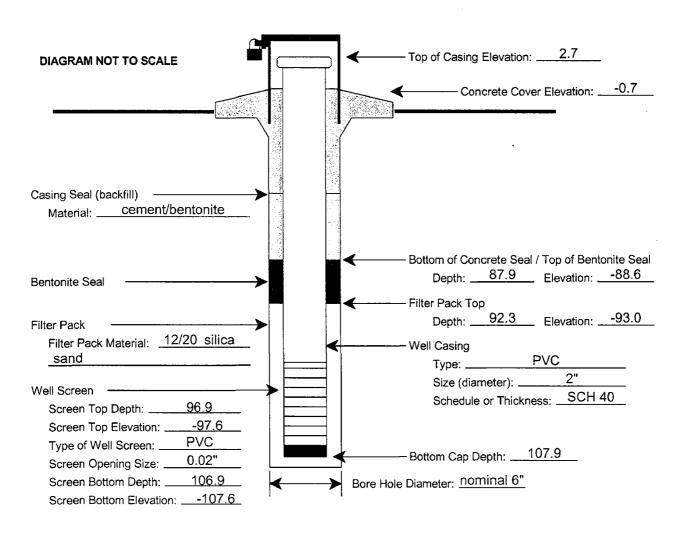
Observation well developed using a submersible pump.

Static water measurement collected 5/13/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith Static Water Level Elevation (with respect to NAVD88) after Well Development: __-0.3 Name of Geologic Formation(s) in which Well is completed: See boring log B-735

Masterlock - 0536 ___ Type of Casing Protection: _____ Type of Locking Device: _ Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Page 222 of 537

Prepared by: USF Date: 7-10-08

Checked by: CBS Date: 7/10/08

Project Name / No.: Turkey Point Power Station / 6468-07-1950	Observation Well Permit No.: 13-59-2251					
County:Miami-Dade County, Florida	Observation Well I.D.: <u>OW-735U</u>					
Date of Observation Well Installation: 4/20/08	Date of Well Development: 4/29/08					
Observation Well Northing: 395823.3 US ft Easting: 875709.2	US ft_					
Observation Well Location:South Island	Observation Well Driller					
	Name:MACTEC					
	License No.:11035_					

NOTES:

One stainless-steel centralizer installed at approximately 15.5 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/16/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

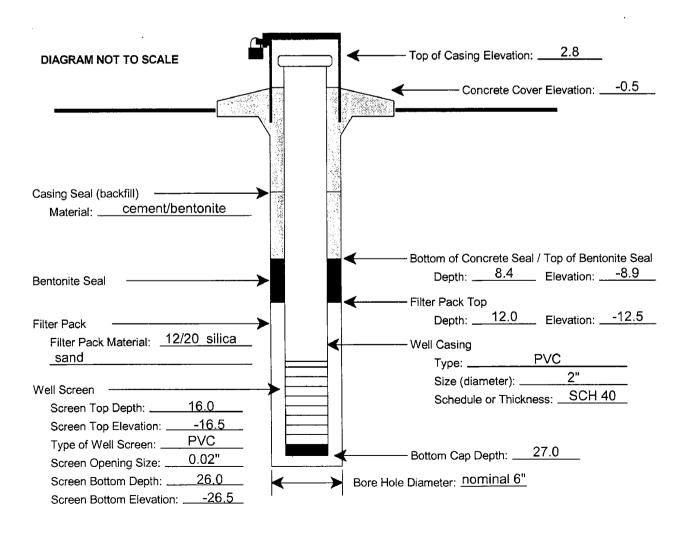
Geologist, Hydrologist, or Engineer Supervising Well Installation: Kim Charles-Smith

Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.9

Name of Geologic Formation(s) in which Well is completed: See boring log B-735

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2254					
County:Miami-Dade County, Florida	Observation Well I.D.:OW-802L_					
Date of Observation Well Installation: 5/3/08	Date of Well Development:5/5/08					
Observation Well Northing: 398817.1 US ft Easting: 876265.7 I	US ft_					
Observation Well Location: North Island	Observation Well Driller					
	Name: <u>MACTEC</u>					
	License No.:11035_					

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu

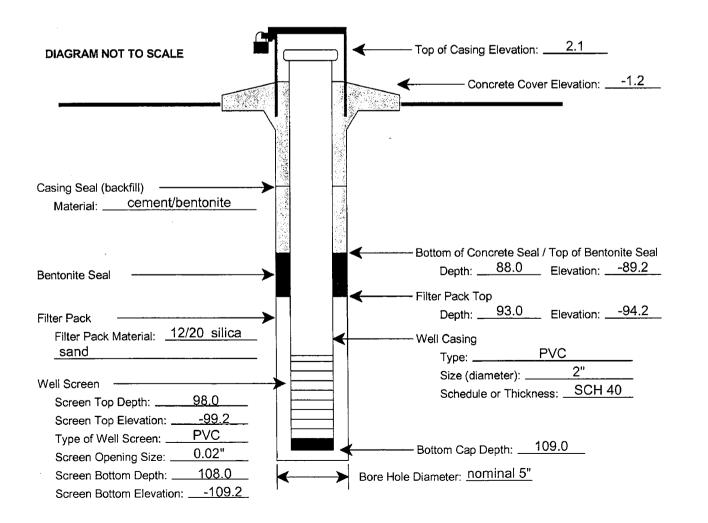
Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.0

Name of Geologic Formation(s) in which Well is completed: See boring log B-802

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: ___2'x2'x0.5'

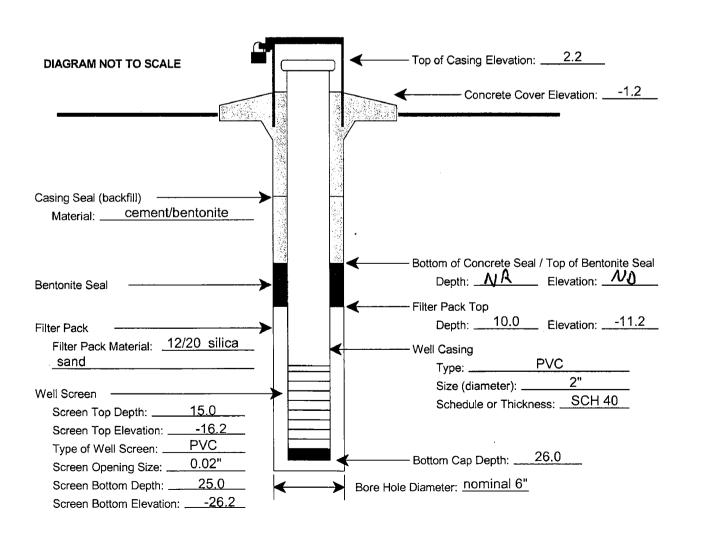


Steel

Project Name / No.:Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2253					
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-802U</u>					
Date of Observation Well Installation: 5/4/08	Date of Well Development:5/7/08					
Observation Well Northing: 398820.2 US ft Easting: 876243.7	<u>US ft</u>					
Observation Well Location: North Island	Observation Well Driller					
	Name: <u>MACTEC</u>					
	License No.:11035_					
NOTES:						
Centralizer installation depths not recorded PVC well screen machine-slotted by the manufacturer. Observation well developed using a submersible pump. Static water measurement collected 5/20/08. Upon completion of well installation, MACTEC installed two seep he Depth to bottom of concrete seal not recorded (NR) and elevation not declosed. Hydrologist, or Engineer Supervising Well Installation: Harry Lyatur. Static Water Level Elevation (with respect to NAVD88) after Well Development: Name of Geologic Formation(s) in which Well is completed: See boring log Bernard Control of See See See See See See See See See Se	ot determined (ND). I -2.4					
Name of Geologic Formation(s) in which Well is completed:	.,					

Type of Locking Device: _____Masterlock - 0536 ____ Type of Casing Protection: _

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2256				
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-805I</u>				
Date of Observation Well Installation: 5/22/08	Date of Well Development: 6/5/08				
Observation Well Northing: 396883.0 US ft Easting: 877239.5	US ft_				
Observation Well Location:Main Island	Observation Well Driller				
	Name: <u>MACTEC</u>				
	License No. 11035				

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 6/6/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu

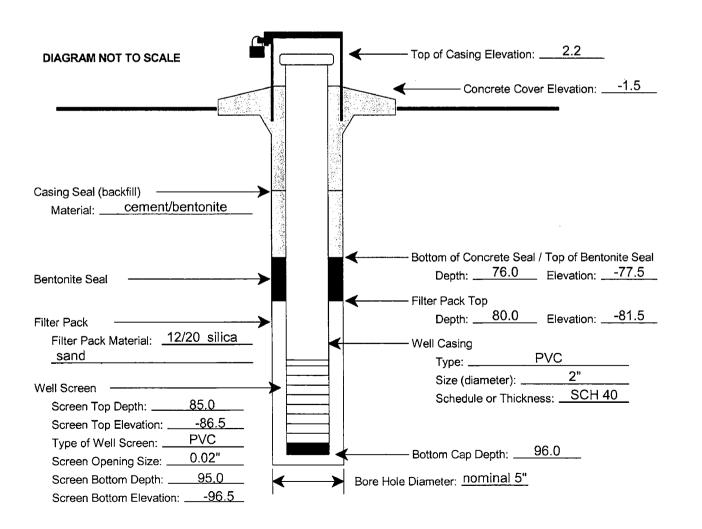
Static Water Level Elevation (with respect to NAVD88) after Well Development: -1.0

Name of Geologic Formation(s) in which Well is completed: See boring log B-805

Type of Locking Device: Masterlock - 0536

Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: ___2'x2'x0.5'



Prepared by: _

Checked by: _

Project Name / No. : __Turkey Point Power Station / 6468-07-1950 Observation Well Permit No.: ____13-59-2255

County: Miami-Dade County, Florida Observation Well I.D.: OW-805U

Date of Observation Well Installation: 5/27/08 Date of Well Development: 6/5/08

Observation Well Northing: 396842.8 US ft Easting: 877240.9 US ft

Observation Well Location: Main Island Observation Well Driller

Name: _____MACTEC

License No.: ____11035

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

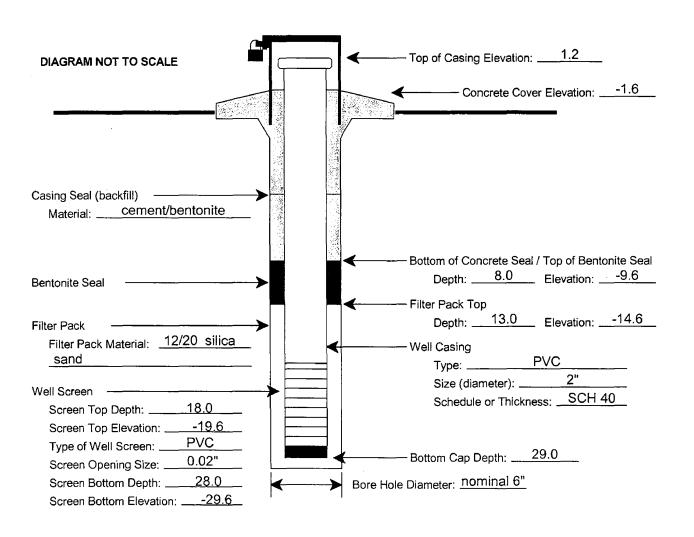
Observation well developed using a submersible pump.

Static water measurement collected 6/6/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu Static Water Level Elevation (with respect to NAVD88) after Well Development: Name of Geologic Formation(s) in which Well is completed: See boring log B-805

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: _____ Steel Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Prepared by: Date: 7/0/08

Checked by: CBS Date: 7/10/08

Project Name / No.:Turkey Point Power Station / 6468-07-195	Observation Well Permit No.:13-59-2258_
County: Miami-Dade County, Florida	Observation Well I.D.: <u>OW-809L</u>
Date of Observation Well Installation: 5/7/08	Date of Well Development: 5/13/08
Observation Well Northing:397007.9 US ft _ Easting:87515	52.3 US ft_
Observation Well Location:Main Island	Observation Well Driller
	Name:MACTEC
	License No.:11035_

NOTES:

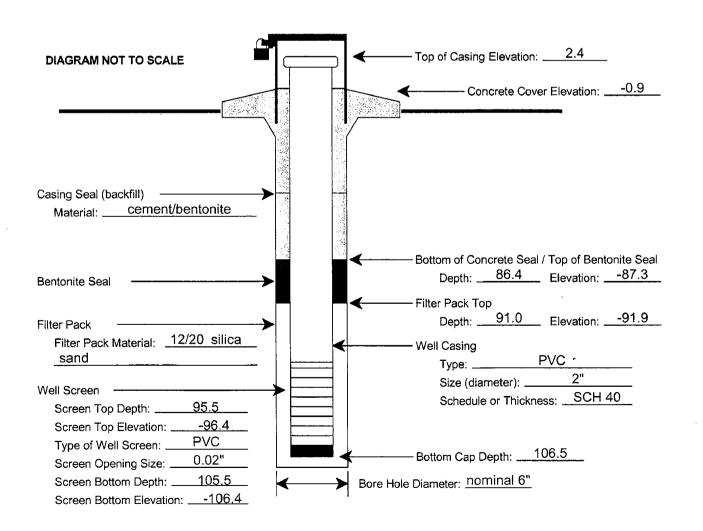
Two, stainless-steel centralizers installed at approximately 45.5 ft. and 95 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/15/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.



Project Name / No.:Turkey Point Power Station / 6468-07-1950	Observation Well Permit No.:13-59-2257_			
County:Miami-Dade County, Florida	Observation Well I.D.: <u>OW-809U</u>			
Date of Observation Well Installation: 4/1/08	Date of Well Development: 5/1/08			
Observation Well Northing: <u>397045.8 US.ft</u> Easting: <u>875152.4</u>	US ft_			
Observation Well Location: <u>Main Island</u>	Observation Well Driller			
	Name: <u>MACTEC</u>			
	License No.:11035_			

NOTES:

One stainless-steel centralizer installed at approximately 14.8 ft.

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/15/08.

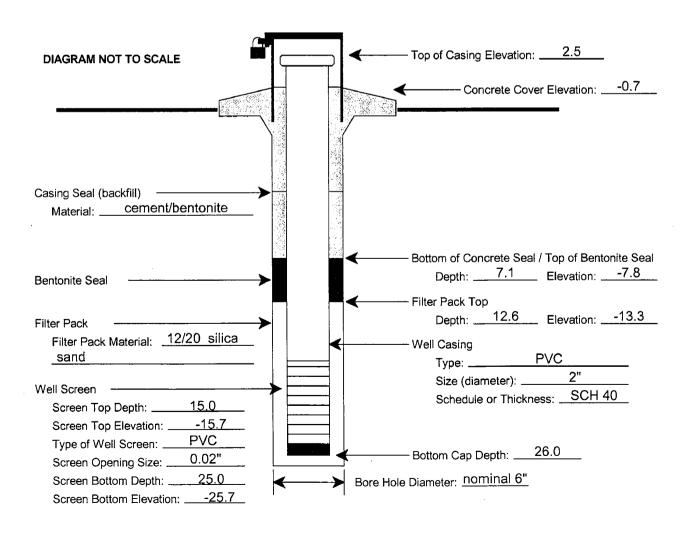
Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Chris Burroughs

Static Water Level Elevation (with respect to NAVD88) after Well Development: -2.2

Name of Geologic Formation(s) in which Well is completed: See boring log B-809

Type of Locking Device: <u>Masterlock - 0536</u> Type of Casing Protection: _____ Concrete Surface Pad (with steel reinforcement) Dimensions: <u>2'x2'x0.5'</u>



Prepared by: CBS Date: Checked by: _

Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.:13-59-2260				
County:Miami-Dade County, Florida	Observation Well I.D.: OW-812L				
Date of Observation Well Installation: 5/7/08	Date of Well Development: 5/13/08				
Observation Well Northing: 398892.8 US.ft Easting: 875045.5	US ft_				
Observation Well Location: North Island	Observation Well Driller				
	Name: <u>MACTEC</u>				
	License No.: 11035				

NOTES:

Centralizer installation depths not recorded

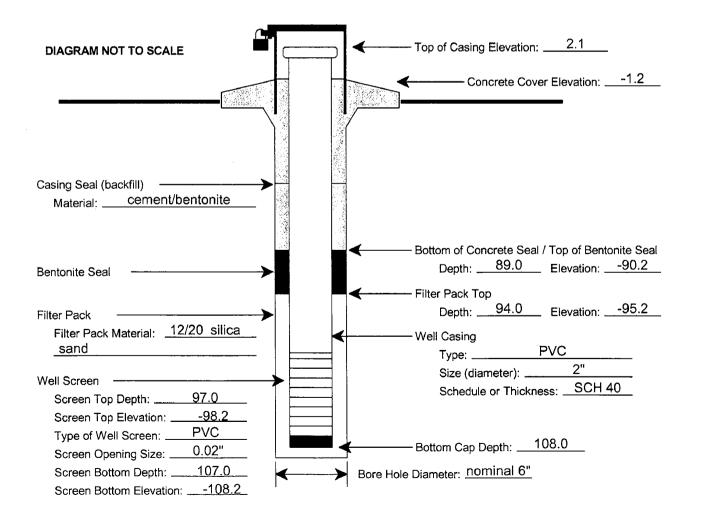
PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu Static Water Level Elevation (with respect to NAVD88) after Well Development: _ Name of Geologic Formation(s) in which Well is completed: See boring log B-812 Type of Locking Device: Masterlock - 0536 Steel Type of Casing Protection: __ Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Project Name / No. :Turkey Point Power Station / 6468-07-1950_	Observation Well Permit No.: 13-59-2259						
County:Miami-Dade County, Florida	Observation Well I.D.: OW-812U						
Date of Observation Well Installation: 5/6/08	Date of Well Development:5/7/08_						
Observation Well Northing: 398933.9 US ft Easting: 875043.5 US	US.ft_						
Observation Well Location:North Island	Observation Well Driller						
	Name: <u>MACTEC</u>						
	License No.:11035_						

NOTES:

Centralizer installation depths not recorded

PVC well screen machine-slotted by the manufacturer.

Observation well developed using a submersible pump.

Static water measurement collected 5/20/08.

Upon completion of well installation, MACTEC installed two seep holes in the protective steel cover.

Depth to bottom of concrete seal not recorded (NR) and elevation not determined (ND).

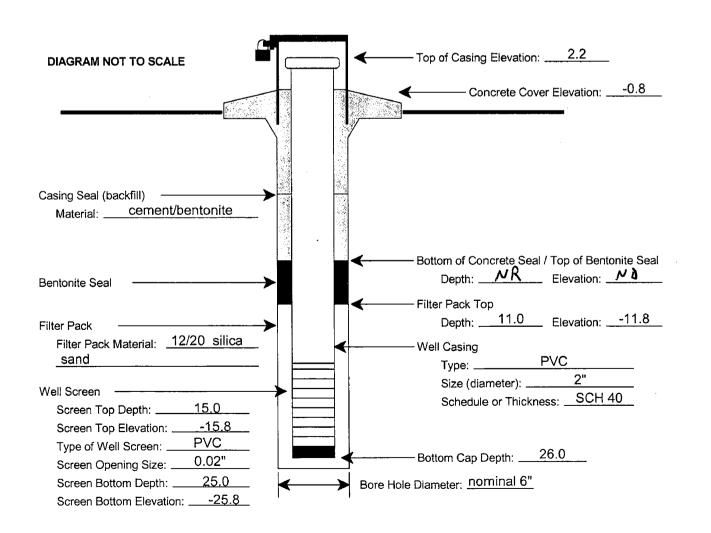
Geologist, Hydrologist, or Engineer Supervising Well Installation: Harry Lyatuu

Static Water Level Elevation (with respect to NAVD88) after Well Development: -2.4

Name of Geologic Formation(s) in which Well is completed: See boring log B-812

Type of Locking Device: Masterlock - 0536 Type of Casing Protection: Steel

Concrete Surface Pad (with steel reinforcement) Dimensions: 2'x2'x0.5'



Well Development Records

Well Dayslanment Percent		Well No.:
Well Development Record		ow-606L
Project No. 1948 - 07-1950	Logged By: Kin Chels-Snoth	
Cilent Name: Bechtel	Project Name: TP CoL	Checked By:
Well Installation Date: 5-4-08	Start Date: 4-23-08	Finish Date: 5-14-08
Well Development Date: 5-17-08	Start Time: 1002	Finish Time: 1132
Initial Water Level (ft.): 0,48' From	-TOC.	
Water Level during Initial Pumping/Purging		
Water Level at Termination of Pumping/Pu	rging (ft).: O. 68' Frons Tox	<u> </u>
Weather: 500ng ~ 80F		71
Height of Water Column: (ft.) x	9.16 gal./ft. (2 in.) 0.65 gal./ft. (4 in.)	- Hy 5-17-08 - See notes
	1.5 gal./ft. (6 in.)	Production of the N
	ga/i. (in.) =wvei	il ∀elume (gal./ft.)
Number of Time: Temper OC		proximate Turbidity uping Rate (NTU's):
	7 - 1 (98	al./min.):
	195 6.43 9129 13 03 7015 9.04 A	152
3) 78 22 1029 34	901 % ZOZ V 814 80°	1 107
4 104 and 1038 39	30 7.08 886 3	199x 104
5 130 32 1047 28	59 7,09 9.04	TOL
6)156 gd 1056 28.		V 20
7)162 04 1105 26.	Q 7.07 9.03 3.	I spor 8
(b) 108 gm. 1114 20	6 708 9.03 -	7 145-1
9) 234 or 1123 28.	59 7.09 9.03	1 23
10)200 30. 1133 26,	<u> </u>	
		•
		1
Notes: Sinced would	ing + Screen for en pry. Water is gray	tire 1st well
1 2 17 08 N	ions. water is Stafe	u/vey Fril Son
voine of whice pe	7.0	•
Set peop in middle	0+ Ser - 0 Charl	Sor Hune Cla
- See well blune	Calculation Great Sheet	-
1/-		* ,
Well Developers Signature:	I (hip-Suis	FIGURE 9

Volume 4, Rev 2 - 10/6/2008

Page 233 of 537

DCN# TUR512

	Well Dev	elopment F	Record					Well N	o.:	
	Project No.CAL	2-1-2	-	Logged By:			pw	ow-CoCeU		
	Client Name:									 Checked E
	Well Installation D		<u>-</u>			ate: 4-22-08			ish Date:4-22-08	
	Well Developmen				Start Ti			Finish Tim		
•	Initial Water Level			Taving		1104		1111017 11111		
	Water Level durin				24' Fm	m TOC				
	Water Level at Te	rmination of Pu	mping/Pur	ging (ft).: 🛆	1.35	From To	x			
	Weather:	und i	759	F						
,	_	Q					<	see re	to	
	Heigh	nt of Wa ter Colu. _ (ft.)	mn:		./ft. (2 in.) l./ft. (4 in.)		i/	See 15-1	عد	
		_ ('")	^	1.5 gal./	II (8 in.)					
,				gal./ft	. (i	n.) =	_ Well	Volume (g	al./ft.)	
w.ter			· ·							
below to e	Number of Well Volumes:	Time:	Temperat	ture:	pH:	Conductivity:		oximate	Turbidity	
. 1	ven volumes.			_ _	٠ <i>٨</i>	mster		ing Rate	(NTU's):	
0.24	(1) 13 2ml.	4110	27		114	12.0	5	spm	6.13	
(2) 36 34	11/3	27,8	霜 芸	극을	(3,0	2	MOC	2.6	
العدم	4 52 901.	1119	744	科子		(3.3	5	on	1.43	
0,24	15 Co gul.	1122	276	35 7	.14	63.4	5	m	124	
. (678 5d.	1125	27.3	38 7	.15	43.7	5	mac	1.01	
0.20	791 Sol.	1128	27.9	브 코	13	43.4	5 5	4	0.96	
((8) 104-5-4	1131	38.0	길	19-	43.	ļ ———	pm.	0.50	
0.20	1911752	1134	200	왕	16	(3.4	59	m	0.75	
0,20.	(10)130 gd.	1137	2010		10-	4312	2-	110	0.53	
							1	• _ [
								-•		
							ļ			
•			}							
		1	1	1	_	- 100-	. 1	1		
	Notes:_ <	surjed edimed	will	, WH		renditas	> 72	» (e)	moul	
	5	ediment	- fro	mbc	tton	n of u	للاد	٤.	_	
		ediment Le Will	ادم ۱ ۵	me.	Cal	a late	<u>.</u> 5	heet		
	1 - 50	e will		<u> </u>				_ `	,	
	50	hune c		•						
			/	001	1 0	į.			4 .	
	Mall Days's	ers Signature: .	Mana	II Im.	I Du	b		F	IGURE 9	
	vveii Develop	eis signature: .	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	√					
	Graphics\Misc.\Forms					MACTEC	Engine	ering and	Consulting, Inc	

?	Well No.:								
	Well Development Record								
	Project No. CAG8-07-1950 Logged By: Kim Chelo-Suth								
	Client Name: Bediel Project Name: PCol Checked By:								
	Well Installation Date: 4-18-08 Start Date: 4-17-08 Finish Date: 4-18-08								
	Well Development Date: 5-3-08 Start Time: 1335 Finish Time: 1505								
	Initial Water Level (ft.): O' Artesian Flowing Kf5-3-8 Kf5-3-08								
	Water Level during Initial Pumping/Purging (ft).:								
	Water Level at Termination of Pumping/Purging (ft).: 0.85-3-08								
	Weather: Sunny - 800F								
	Height of Water Column: 0.16 gal./ft. (2 in.) 5-3-08 Ky See notes								
	(ft.) ×0.65 gal./ft. (4 in.)								
hoter Tevel below TOC	Number of Time: Temperature: pH: Conductivity: Approximate Turbidity Well Volumes: SU M5/cm Pumping Rate (NTU's):								
0.80	1)26 gd. 1344 28.62 6.40 55.3 3.0 spm 56.9 12)52 al. 1353 28.27 7.00 56.3 30 spm 17.6								
0.80'((a) 52 gd. 1353 28 27 7.00 56.3 30 gm 17.6 3 78 gd. 1402 28.21 7.07 57.0 3.0 sem 11.8								
0,00	4104 St. 14-11 28.46 7.11 57.4 3.0 SPM 6.08								
0.80'	5 Book 1420 2820 7.12 576 3000 5.23								
	16 156 od 1439 28.43 7.13 57.8 30 om 3.97								
	19/18294 1438 28.33 7.13 57.9 30.99 390 18/20891 1447 28.36 7.13 58.0 3.0.99 3.52								
0.81	9) 234 pt. 1456 28,37 712 58,1 3,0 pm 3,54								
0.00	1020 and 1505 28.17 7.13 58,1 3000n 3.04								
	Notes: Set Courtes Appar 2' alege Screenand								
	Surged well w/ pump to clean out surp.								
	- See well whene calculation spread Sheet for whene								
	Calco.								
	Well Developers Signature: FIGURE 9								
	Graphics\Misc.\Forms MACTEC Engineering and Consulting, Inc								

	Well Development Reco	rd	Well No.:						
	Project No. (ALB-07-1950)	Logged By: Kin Uhrlb-Sneeth	ow-6214						
	Client Name: Bechtal		hecked By:						
	Well Installation Date: 4-19-08 Start Date: 5-3-08 Finish Da								
	Well Development Date: 5 3-08		nish Time: 1/024						
	Initial Water Level (ft.):	5000							
	Water Level during Initial Pumping/Purging (ft).: 1.86								
	Water Level at Termination of Pumping/Purging (ft).: 1.88								
	Weather: Sunny 280)°F							
	Height of Water Column:(ff.)	0.16 gal./ft. (2 in.) 0.65 gal./ft. (4 in.) 1.5 gal./ft. (6 in.) gal./ft. (in.) Well V	8 Notes						
		perature: pH: Conductivity: Approx	ig Rate (NTU's):						
.86° (1) 13 00 1557 28	1.0+ +.1+ 549 5	oph 24.5 oph 12.5						
, 36'	3 39 24 (605) 38		m 8.13						
.88'	5/5 al 1/00 3		PM 6.67 PM 5.58						
	67831 1612 2		m 397						
.88'	7)9100 1615 21		on 3.59						
9	8)104 34 1618 29	776	19M 3.46						
001	9) 117 od. 1621 2 10130 gd. 1624 2	8.48 7.15 55.2 56	m 3.07						
'88,	[0] 30 gad. 1 1 2	0110 7.15 3317 39	m dil						
	5-3-08		•						
·			•						
	1 1	1 1	1						
	Notes: Set Grandfo	il pumping. me calculation sheets	n of well						
	Surged well with	ite pumping.							
	- See well value	me Coloute Pin Shootife	~ Valend						
	Calcs.								
		•							
	Well Developers Signature:	med Church Street	FIGURE 9						
	Trui Dotolopois Signature.		ing and Consulting, Inc						

	Maria de la companya		Well No.:						
	Well Development Record		ow-636L						
	Project No. (ACB-07-1950	Logged By: Kin Chale - Sningh	100 420						
	Client Name: Bechtel XV	177	thecked By:						
		-6-09	Inish Date: 4-6-08						
	Well Development Date: 5-5-08		inish Time: 1138						
•	Initial Water Level (ft.): 2.1(a		1100						
	Water Level during Initial Pumping/Purging	(ft): 3,92 '							
	Water Level at Termination of Pumping/Purging (ft).: 2.07								
	Weather: Sunny - 84°F								
			508 Secrotos						
	Height of Water Column:(ft.)	0.16.gal./ft. (2 in.) 0.65 gal./ft. (4 in.)	Secroto						
	(IL)	1.5 gal./ft. (6 in.)							
		gal./ft. (in.) =Well \	/olume (gal./ft.)						
suter lovel									
for toc	Number of Time: Temper		ximate Turbidity						
W5500	Well Volumes:	(nal)	ng Rate (NTU's):						
3.90	(i) 24 gd 1008 29.0		2M 273						
1 101	3)48 gd. 1018 29 3)72 gd. 1028 29.3	$\frac{20}{34}$ $\frac{7.01}{7.05}$ $\frac{362}{36.4}$ $\frac{25}{3.05}$	5PM 1,23						
4.12	9)91 and 1038 29.		BPM L31						
4.10	5 120 gal 1048 295		5am 1.34						
(1,10)	6)144 od 1058 29.	7.02 37.1 3.09							
4.091		56 7.02 37.4 30°							
, , , ,	3 192 34 1118 29.	GT 703 374 305							
4.07"	9216 m. 1128 39.	96 7.03 37.5 305 10 7.04 37.7 3.05	opm 0.88						
4.06	10)24032. 150 21.	02 101 ST.1 S.0.	700						
			•						
	1	1 1	1						
	Notes: Sal mand	os penp Approx 2' al	ove Sump						
		Il will even work	1 farfirst						
	and Singled Wi	a was properly	7 , ,						
	Voiche.	a last & Spreadslest	forwhome						
	1 - See well volu	ne colculati spreadsleet							
	calco.		+ ,						
	Well Developers Signature:	me Unit-Sull	FIGURE 9						
	well bevelopers signature.	1440750.5	ing and Occurrent to						
	Graphics\Misc.\Forms	MACTEC Enginee	ring and Consulting, Inc. —						

	10/- II D	-l	Danasal					Weil N	o.: ·	
	well Devi	elopment F	Kecora					AU	-636U	
	Project No.	8-07-19	50	Logged By:	Kin (hyles-5m	th	7		
	Client Name: 6		,	Project Nam				Checked E	Ву:	
	Well Installation D	Pate: 4-3-	08	Start Date: 4-3-08 Fi				inish Dat	e:4-3-08	
	Well Developmen	Well Development Date: 5-5-08 Start Time: 0906								
·	Initial Water Level	Initial Water Level (ft.): 3.90								
		Water Level during Initial Pumping/Purging (ft).: 3.901								
	Water Level at Te	mination of Pu	imping/Purg	ging (ft).: えん	15'			·····		
	Weather: Sun	my ne	340F					 		
		8					K	7 5-5	5-08	
	Heigh	it of Water Colu (ft.)	mn:	0.16 gal./ 0.65 gal.			ر ای	0e-00	tes	
		_ ()		5 gal./II	(6 in.)				•	
				gal./ft.	(ir	1.)	_ Well \	/olume (g	al./ft.)	
Nate.										
relow Toc	Number of Well Volumes:	Time:	Temperat	ure: p	Hi	Conductivity:	Pumpi	oximate ng Rate	Turbidity (NTU's):	
3,90	1) 10gel.	0906	247	_	03	46.9		min.):	3.13	
· · · · · · · · · · · · · · · · · · ·	(3) 30 gal.	100	27.0	5 6	95	422			0.85	
3,90	4 40 gal.	0912	276	2 6	99	42.6	0		150	
. (5) 60 ont.	0914	27	沙王	21	42.8	5	Som	0.72	
3.08	(6) 60 gal.	091/2	273	311圣	00	42.8		<u> </u>	0.40	
ļ	70 gal	00118	27.a	生	<u>ूर</u>	13.8		 	O.Cot	
3 AQ1	18) 80 gal-	00120	137.5	불물		43.1	ļ,	1-1	0.91	
3,08	10 100 and	0922	272	十二季	<u>0</u> コ <i>0</i> コ	43.5	50	5PM	0.03	
•	100 100	_L	87.5	- h - -	رحم	1000		415		
						***************************************		•		
								·		
				_	 '					
	'		i	Kit.	5-5-0	B	ŀ	V 1		
	Notes: So	of Gran	Hos	al al	e al	ove su	ng of	sol =	surged !	
	well	with	gunp	runn	ing f	w first	VO	lyme-		
		, , , , ,	plume	calc	LI OH	in spre	rd S	hoot	ter	
	- Dee-			C == -	`	1				
	Notes: So Well - Sec Volume		•							
			. /	. ^ 1	^ -	<u> </u>			÷ ,	
	Well Dayeles	ers Signature: .	Ki	. Il Wart	Jun #			FI	GURE 9	
	vveii Develop	ers Signature: .)	<u> </u>			1 ·	D	
	Graphics\Misc.\Forms					MACTEC	⊏nginee	ring and (Consulting, Inc	

	Well Development Record		Well No.:							
	Project No (468-07-1950 Logge	ed By: Kim and Smuth	aw-706L							
	Client Name: Bechtel Project	ct Name: TR COL	Checked By:							
	Well installation Date: 3-22-08 to 3-25	-08 Start Date: 3-72-08	Finish Date: 3-25-08							
	Well Development Date: 4-30-08 Start Time: 1230 Finish Time: 1420									
	Water Level during Initial Pumping/Purging (ft).:									
	Weather: SUNW - 75°F	0.521 Labour TOC								
	0	16 and 15 (2 in)	Sacrales							
		10 gai./it. (2 iii.)	= Seenotes							
		65 gal./ft. (4 in.) 3 gal./ft. (6 in.)								
		gal./ft. (in.) =Wel	Volume (gal./ft.)							
TOC level										
boby Jev 2	Number of Time: Temperature:		roximate Turbidity							
1,07	Well Volumes:	l (no	ping Rate (NTU's):							
(, , ,	1) 2500 1245 29.84	7.06 41.0 25	5 9pm 2.17							
† ((3) 76 al 1310 2750	7.00 49.3 25	9m 0.75							
1,191	(4) 100 and 1320 37,62	18 99 52 25								
((5) 125 gl 1330 27.66	7.00 52.4 25	20M 0.80							
1 (91	(U)50 20 13A0 27.63	7.00 53.1 25	500m 0.56							
1.17	(7)175 gd. 1350 27.04 (8)20 gd. 1400 37.81	7.01 53.5 25	39M 0.73							
1.21	1925 al. 1410 2771		20M 0.44 20M 0.38							
(10250 gal. 1420 27.78		53PM 0.40							
`			···							
			·							
	Notes: Set Grandfos ~ 3	2' above bottom of	- well							
	Surged well while	tunnit pump unti	l worder							
	ran Clear, Approx. 5	-10 gallons.	•							
		5 - 2 ·	•							
	1	1	,							
	Well Developers Signature:	hel-Smit	FIGURE 9							
			poring and Computers 1=-							
	Graphics\Misc.\Forms		eering and Consulting, Inc							
	See well volume calc	whaten Spread The	t tov							
	Volume Calco.									

	Well Deve	elopment F	ecord	,				Well N		
	Project No. 646	8-07-19	50	Logged By:	KnC	hosmit	L		70CU	
	Client Name: 3			Project Nan				Checked E	By:	
	Well Installation D		8 to 3			ate: 3-26-08	2 1	Finish Date	3-27-08	
	Well Development		0-08			ne: 1509		inish Time		
-	Initial Water Level		From	- TOC	-					
	Water Level during	g initial Pumpin	g/Purging (ft).: , (08 k	way too	_			
	Water Level at Ter	Water Level at Termination of Pumping/Purging (ft).: (62' below Toc								
	Weather: るいの	Weather: SUM ~ 75°F								
		Kuf 4-30-08								
	H eigh	Height of Water Column: 0.16 gal./ft. (2 in.) See no teo								
		1.5 gal./ft. (6 in.)								
				gal./ft	. (ir	1.) =	Well	Volume (g.	al./ft.)	
more too										
7	Number of	Time:	Temperat	ure:	pH: SiJ	Conductivity:		oximate	Turbidity	
i	Well Volumes:			1		ms/ca		ing Rate ./min.):	(NTU's):	
1.60	1) 11 gel.	1513	28.9	{	06	82.5	40	MIC	5.99	
1.72	22 34	1315	28:	<u> </u>	35	83.1		Som	33	
	3) 33 gl.	150	200		8/2	a) 4		Son	7.33 4.20	
1.76	(5) 55 gel.	1524	28:	25 6	.84	82.7) San	3.38	
1110	16)66 ml.	1527	28,2		.86	82.6		som	3.50	
1.76	7)77 gl.	1530	20.3		<u>.860</u>	82.3	50		3.18	
	(8)88 gd.	1533	27.8	5/4	<u>.84-</u>	82.7	50	SPM	2.71	
1.76	(9)99 32.	1536	124	1	80	00.6	1	Maga	1.80	
1.76	(10)1103x	1251	dtil	ec c	86	82.8	50	3000	1.0-2	
				- -			-	-		
							l			
			[{		[1	ĺ		
	Notes:	0 (C - a	0	210	المام	٠	C 1.		
	عاد ا	t Grund	402 P	north or	一一点	rom last	Driv.	-04 U		
	2000	ed we		pump.	const	to unt	il (ester,	(ar	
	(140	a Approx	4,5	gallo	い 。					
	See	- well	solum	e cal	لتهادي	tim sore	ade	theet.	forvolune	
	Cal	.co.		_	•	V				
			12	0 01. 0	_	its		FI	GURE 9	
	Well Develop	ers Signature:	Y min	J my						
	Graphics\Misc \Forms					MACTEC	Engine	ering and	Consulting, Inc	

	Well Dev	elopment F	Record					Well N	
	Project No. 440	8-07-19	50	_ogged By: :	King (Indo-Em	1	ow,	-721L
	Client Name: Be	4		Project Name				Checked E	Зу:
	Well Installation I	Date: 5-3-0	08		Start D	ate:5-2-0	8	Finish Dat	e:5-3-08
	Well Developmer	nt Date: 5.4	08			me: 1101		Finish Tim	e: 1337
	Initial Water Leve								·
	Water Level durin							·	
	Water Level at Termination of Pumping/Purging (ft).: 2,56' Weather: Sunmu - Bor								
	weather.	me	000			1/	0 /		
	Heigl	nt of Water Colur	nn:	0.16 gal./i	ft. (2 in.)	K	\leq	566	notes
		_ (ft.)	X	0.65 gal./	ft. (4 in.)	5-4	200)	
. i ^				1.5 gal./ft. (1=	Wel	li Volume (g	al./ft.)
unterlevel			·						
For Toc 4.40 feb 193,408	Number of	Krong Kap Time:	Temperatu	re: pł	-1 :	Conductivity:	App	proximate	Turbidity
4.40 cox	Well Volumes:	1127	<i>o</i> e	re: pł	ユ	ms/cm	Pum	ping Rate	(NTU's):
193,08	1) 23 92	40	29.3		13	51.1		25 224	71000
	क्रां करी.	1137	29.3		0子	42.8	2	25 7A	146
3.59	3) 69 50.	114/	<u>مم ع</u>		26	42.0		25 504	106
3.95	5)115 gal.	1157	व्यवं क्		36	42.1	3.Z	S Dan	<u>86.8</u> .78.8
	(6) 138 gol.	1214	39.3 5		06	41.2	25	59.23	72.4
1	(7) 161 sol.	1327	29.5		2子	42.3	2.3	5 5pm	72.6
3.87	(8) 184 god.	1237	29.3		25	42.7	2.5	25 JM	21.8
3.67	(9)207 31.	1247	39.3	7 3	2/2	420	2.=	5.5pm 25.7pm	200 9
J. 67	12)27/20	1317	34.0	9 70	25	42,5		85 9PM	16.2
	(H)332392	1537	29.4	4 克	25	42.5	2.5	25-90M	841
		 		_					
				_			—		
,			*	_			-		
	Notes:					' !	• 	·	,
		e Gan	Hos L	Alux	2,	above E	54	pano	1 Soyld
	well.	With	sout	•			_	1,	
	- See	well	solune	Code	lato	i Sheet	- to	~ Valc	ne calco.
			J	. 1	r				÷
	304.11.5	nas Diana d	4	at Chu		nit		FI	GURE 9
	Well Develop	ers Signature: _	9 Mus						
	Granhics\Misc \Forms			··· · · · · · · · · · · · · · · · · · 		MACTEC I	⊨ngine	eering and (Consulting, Inc. —

Graphics\Misc.\Forms

		-1						Well N	o.: ·
	Well Dev	elopment F	kecord					ow	-721U
	Project No. (4	08-07-19	150 1	Logged By: 🗼	<-m 0	hads-Smit	h		
	Client Name: 6	chtal		Project Name		COL		Checked B	By:
	Well Installation D)ate: 5 - 2	2-08			ite: 5-2-0	2 F	inish Date	:5-2-08
	Well Developmen	t Date: 5-4	08			ne: 0949	-		e: 1008
•	Initial Water Level	(ft.): 0.86							·
	Water Level durin								
	Water Level at Te				971				
	Weather:	onny -	- 80°	<u> </u>	<u>-</u>				
	11-1-1	4 -634-4-4		0.401.4	* 'O := \	KX	56	eru	les
		nt of Water Colui _ (ft.)	nn	0.16 gal./f 0.65 gal./	ft. (4 in.)	5-4-08			
	1.5 gal./ft. (6 in.)gal./ft. (in.) Well Volume (gal./ft.)								
				ga	· ''		- 11011		auric.)
waterland		54.08							
mtoc	Number of Well Volumes:	Time:	Temperatu	ıre: pi	1: •	Conductivity:		oximate ing Rate	Turbidity (NTU's):
1 01	is lo and	0950	27.7		09	410	(gai.	/min.):	54.8
1.86	220 gal.	0952	280		00	424	اد	spm	25.4
	(3/30 gal	0934	28.6	4 7.	03	42.3			14.2
1.73	(4) 40 gal	0956	28.7	子 子	06	43.0	5	3211	19-6
	(5,50 gd.	0958	28.7	了 王		4-3.	<u> </u>	<u> </u>	16.9
1.50'	(6) (00 grd.	1000	36.7	위조		43.5	5.3	pm	7.73
1	7) +0 gd.	1007	28.8	취 준	27	43.2	_	 	714
1 401	91 90 and.	1006	28.9	5 70	57	43.0	5	sam	6.3
الملاا	119100 gal.	1008	28.9	67	07	43.1	5	m	5.03
								_	
			ļ	_		- , 		<u>·</u>	
								·•	
				_					
	Notes: <							. 1	6
						2'above			104
	wel	l + Su	rsed.	to cl	egn	· 00+ 5	とう	P	
	-510	Mean	Value		اناما	ata sp	Spa	ist of	1 Co
	Volum	re Cal	00101	Ca	100	arn of	() (>(\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
		CM	٠ ي						
			, / -	1	1	1			÷ ,
	Well Develop	ers Signature:	Van	ul ()	mf.	Smith		Fi	IGURE 9
	Graphics\Misc.\Forms	· · · · · · · · · · · · · · · · · · ·		<u> </u>	· · · · · · · · · · · · · · · · · · ·	MACTEC I	Engine	ering and (Consulting, Inc

	M/- II T	- l					Well	lo.:	
	Well Devi	elopment F	kecora				ow	-735L	
	Project No. 646	8-07-195	SO Lo	gged By: Kim (has snot			, 0 - 0	
	Client Name: B	echtel			COL		Checked I	Зу:	
	Well Installation D	Pate: 4-15-0	8 to 4	19-08 Start [Date: 4-15-0	නි	Finish Dat	re:4-19-08	
	Well Developmen	t Date: 4-2	1-08/4.	30-06 Start T				ie: 0932	
	Initial Water Level	(ft.): 6,34	-from To	<u></u>	429-0	8		430-08	
	Water Level durin						······································		
	Water Level at Termination of Pumping/Purging (ft).: TCC (Arteria)								
	Weather: 50	my /p	CAR CK	rdy 12	W.			•	
	✓ Heigh	at of Water Colu	TITI TITI	0.16 gal./ft. (2 ln.	Kg-30	-08	See r	wles	
	- Torga	_ (ft.)	x	0.65 gal./ft. (4 in.			_		
				1.5 gal./ft. (6 in.) — gal./ft. (in.) =	Wei	i Volume (g	ral./ft.)	
water level	Number of	Time:	Temperature	, <u>p</u>	Conductivity:	Ann	roximate	Turbidity	
	Well Volumes:	11110.	oC Temporature	: pH: SU	m5/em	Pum	ping Rate	(NTU's):	
0.83	10 25 gel	1430	29.51	6.43	62.8		il./min.):	25.3	
1	2) 50 gl	1440	29.44	4.64	62.5	ब्र	.5 5PM	14.4	
(3) 75 gl	1450	39.31	6165	12.6		.5 opm	9.95	
0011	4) 100 gd.	1500	29,19	1.65	122		5 9PM	9.59	
0.84	1150 21	1520	787	10.00	(2)	· 즉	5 opn	7,26	
4	7175 grl.	1530	28.72	10.65	622	2	5 spm	7.45	
\(\frac{1}{2}\)	8)200 gal	1540	28.7	60.66	62.5	2.	5 spm	624	
0.651	9)225 24	923	27,38	4.65	79.0	3	5.00M	8.21	
(10250 34	0932	28.41	Colot	82.9	di	5 30/1	4.42	
							· .		
						-	7.		
•				-					
	}			!	1	I	1		
	Notes:	(- 1	C - 0×	0 -11	^	ſ	_		
) Sex	· Gand	tos por	P ~ 2'1	ung 1907	Azn	~ af u	nell	
	tag	gd TI). Durg	edwell u	1/fump a	md	lower	eal	
	PLIA	P to cl	egn ov	f Sedine	/ ,				
	Cons	leted w	ell Dav	edwell u of Sedines expression 4	Volumes	1+	10 on	4-30-08	
	due	to Thon	clent 10	in on 4	27-08	•			
		ers Signature:		lul-Sn				GURE 9	
					MACTEC	Engina	erina and I	Consulting Inc.	
	Graphics\Misc.\Forms	, 1 1	~ ^	1 1	_			Consulting, Inc. —	
	see u	iell Valen	u Calc	Watn 5	heed tar	Val	und Co	uco.	

	Well Dev	elopment F	Record					Well N	1-735U
	Project No. (A)	08-07-19	50	Logged By:	Kinc	halo-Smid	1		TD54
	Client Name: B			Project Nar				Checked E	Ву:
	Well Installation D		08	Start Date: 4-70-08			Finish Date: 4-20-08		
	Well Development Date: 4-29-08 Start Time: 130							Finish Tim	
·	Initial Water Leve	l (ft.): ス. o´	from	TOC	4				
	Water Level during Initial Pumping/Purging (ft).: Dnchanged -2.04' Water Level at Termination of Pumping/Purging (ft).: 2.03'								
				ging (ft).:	2.03				
	Weather: 500	m, ~ 7	50+	· · · · · · · · · · · · · · · · · · ·					
	Heid) it of Water Colu	mn:	0.16 asi	./ft. (2 in.)			> See	; Te 5
	- Teigi	_(fL)	×	0.65 ga	41n.)			100	
				7.5 gal./fi gal./fi	ft. (8 in.) i. (ir	n.) =	Wel	i Volume (g	al./ft.)
				9				(3	—····,
برناعد لعداد	Number of Well Volumes:	Time:	Tempera	iture:	pH: SiJ	Seenote Conductivity:		roximate	Turbidity (NTU's):
NOTICE TO	1.,	1130,200	70		·	HI 470-00	(ga	ping Rate	· · · ·
2.03	1 (10gml.)	14	20 3	為一名	177	40 / A Zan	1 _	ocan	17.7
	2 (20 gd.)	156	30.	31 10	88	100.5	3	5 apm	7.96
	4 (40 grl)	1200	29.5	25 6	48	100.4	a	50m	5.82
2.04	5 (500ml)	1335	29.3	FO 6	73	61.7	2.	5994	2.7
•	(0 (60gal.)	1339	333	5 4	77	62.0	3.0	Dopm	4.34
2.021	7 70 24	1347	29.7	7 6	78	(12.5	生	mac c	8.80
	8 (80 grd.)	1350	397	31 10	80	12.7	4	5 90M	841
.031	10100 grd.	1353	290	13 6	81	62.5	4.5	SPM	8.20
							 		
									
	Notes:				- ,	١ .			_
	- Grano	lfos pur	p Set	- Approx	c inche	\$ 2.0' of	1	potton	
	1 7	1				~			
	- 511 ree	d well.	For fo	rist 3	val.	by turn them	ميم د	ott br	inf
	and	allowing	`well	l to 5	ettle	- Hin-	tur	à on 1	punp
	ngar	٥. ١	٠		. O . A	proxing	Kp 3	50 97	C. ,
	- Lougra	1 bout to	1/ -11	LOF WE	₹ .++	· · · · · · · · · · · · · · · · · · ·	U		GURE 9
	Well Develop	ers Signature: .	1) mil	1 cmy-	ony	Aproxind		F 1	
	Graphics\Misc.\Forms			<u> </u>		MACTECT	Engine	enng and (Jonsuiting, Inc
	note: los	0 - 00/0	Day i	with Co	eteritor	Jeth bust	0	bean 1	250/200.

rote: had a problem with conductivity hasto cream problem.

First fow two conductivity rendings not valid.

*84-21-08

Volume 4, REPZ-10/6/2008LL volume College/24-tots37 Sheet For Well Volume Grasses.

	Well Development Record								İ	
				Longod B			7	ou	1-802L	-
	Project No. Client Name:		50	Logged B	ame: TP	Inds-Sau	4/~	Checked B		\dashv
			- C	Projectiva			<u> </u>	Finish Dat	· · · · · · · · · · · · · · · · · · ·	\dashv
	Well Installation D									싀
•					Start Time: 451 Finish Time: 631					\dashv
	Initial Water Level (ft.): Atesian Flaving Water Level during Initial Pumping/Purging (ft).: 0,771									
	Water Level at Termination of Pumping/Purging (ft).: 0.26									
		unny -			<u></u>					ᅱ
ı		0					. K	455	-D2	
ļ	Heigh	nt of Water Colu (ft.)	mn:	0.65	al./ft. (2 in.) jal./ft. (4 in.) i./ft. (6 in.)		,	y 5-5 Seene	10	
						11.)	We	li Volume (g	al./ft.)	
interleval			1			1		<u>-</u>		4
am toc	Number of	Time:	Tempera	ture:	pH:	Conductivity:		proximate	Turbidity	
	Well Volumes:		oc	\sim	su	mscm		iping Rate	(NTU's):	
0.77	1) 24 of	1501	29.3	7 4	0.86	499		MAEC	0.49	-
_ 1	40 and	1501	200		2.88	50.5	—		042	
0.81	3) 12 Jm.	1525	20	3 /	93	50.7	—		0.32	
	5120 20	1533	29.3	3 7	196	517		V	044	
0.86	6)144 gd.	1541	289	王儿	0.95	51.8	3.	MACC	0.29	
	7)168 32	1549	28.7	4	295	524		1	077	
0.87	819234	100+	20.0	육 4	2.515	5).6		1	0.55	
0.89	10 240 and	1/4/3	28.6		94-	578	3	OOPM	0.36	
0.0	() and offer	1621								
		KY 5508]	• -		
				_						
				- -						
•			l ——							
	Notes:	'	· ~			, i -1 a	٠ _	o` =•		
	5	urged E	o dure	0/ 2/	indici	5 while	Th	ر مرار کر م	5) tov	
	First.	well v	pline	o vo	naveo	k .	_	1\ .	and Car	į
	- 5	e wel	(Val	me.	Calca	datan S	Prei	ud Sh	US TOU	
		me Cr	lcs.			l. datoù Si				
		- - ·		Λ.	,					
			12.	m/lle	1-9.			•	CHREA	
	Well Develop	ers Signature: .	Vnus	<u>mjth</u>	W Su	////		Fi	GURE 9	
	Graphics\Misc.\Forms				 	MACTEC	Engin	eering and	Consulting, Inc.	. —

/	Well No.:								
	Well Development Record								
	Project No. 6468-07-1950 Logged By: King Onlo Smith								
	Client Name: Bechfel Project Name: TPCoL Checked By:								
	Well Installation Date: 5-4-08 Start Date: 5-4-08 Finish Date: 5-4-08								
	Well Development Date: 5-7-9 Start Time: 5-7-9 Finish Time: 14-13 with								
	Initial Water Level (it.). 4.10 67 3-4-08								
	Water Level during initial Pumping/Purging (ft).: 21072.64 1455 ¥857-08								
	Water Level at Termination of Pumping/Purging (ft).: 2.49 Weather: 5,004 at 855.								
	Height of Water Column: 0.16 gal./ft. (2 in.) (ft.) x 0.65 gal./ft. (4 in.) Vel 5-7-08								
	1.5 gal./ft. (6 in.) Well Volume (gal./ft.)								
water land									
FOR TOC	Number of Time: Temperature: pH: Conductivity: Approximate Turbidity								
	- Well Volumes: OC SU MS/cm Pumping Rate (NTU's): (gal./min.):								
2.64	1) 10 ml 14355 2897 6.36 665 5 spm 4.42								
	2)20 gal. 14357 28.68 6.70 68.6 V 2.49								
2.65	3)30 pd. 14359 28.66 6.75 69.8 5 5pm 1.87								
2.45	5150 gr. 151403 28:58 6:77 70:3 V 1.76								
	1/10 and 161406 2670 Te75 706 5380 125								
2.67	717091. 151407 28.68 6.81 70.7								
2.67' 2.68' 2.68'	8 180 gal. 1514-09 28.70 4.82 71.1 V 1.16								
2.60	9/90 od. 15/4-11 28:69 6.82 71.1 5 spm 1.06 10/100 sl. 15/4/3 28:71 6.82 71.3 5 spm 0.82								
2.68	10 5 STATE STA								
•	The state of								
	Notes: Surged Sump with Grandos For i strolune until water van chear.								
	until water van Cheak.								
	- See well vokme colculation spreadsteiter								
	volune colos.								
	Well Developers Signature: Signature: FIGURE 9								
	Graphics\Misc.\Forms MACTEC Engineering and Consulting, Inc.								

	Well Dev	elopment F	Record					Well No.: aw - 809 L			
	Project No.LAC	8-07-P	56	Logged By:	Sinc	hals-Sn	wth		_ }		
	Client Name:			Project Name		Checked By:	\dashv				
	Well Installation D	Date: 5-0-	7-08		Start Da	Finish Date: 5-7-08	\$				
	Well Developmen				Start Tir			Finish Time: 1507	4		
	Initial Water Leve										
	Water Level during Initial Pumping/Purging (ft).: 3,92										
	Water Level at Termination of Pumping/Purging (ft).: 3,44 Weather: Sung 2 856 Height of Water Solumn: 0.16 gal./ft. (2 in.) 51378 (ft.) 0.65 gal./ft. (4 in.)										
				1.5 gal./ft	(6 in.)		Mol	I Volume (get /ft)	-		
	gal./ft. (in.) = Well Volume (gal./ft.)										
			<u> </u>						\dashv		
	Number of Well Volumes:	Time:	Tempera	ture: 「 pl らん	1 :	Conductivity:		proximate Turbidity ping Rate (NTU's):			
397	13 22 and	1346	313	8 6	ZI	12.5	(ga	il./min.):			
3,92' 3×94' 3×94'	2) 46 grati	1355	29.7	10.1	10	40.8	41	$\frac{390}{7.47}$			
3,45,1320	3) (8) ral.	1404	29:	78 Lail	产	41.1		5.3			
*194'	4)92 gal	1413	39.0	eD Tal	28	41.5	2.5	8 5 pm 3.83			
34/5/308	5)115 g-2	1422	33	75 6	70	418		2.96	{		
A:95	6)13890	1431	ब्युन्	16 91	!	127		1 3 3	İ		
	0104-01	1249	29:	74 6	77	43.0		1 5 29			
3,921	9)20791	1458	29.9	31 6	73	43,3	2,	8 am 2.06	- {		
Oi len	10)280 g.l.	1507	37:	77 6	72	43.3		2.05			
			<u> </u>					·	1		
			ļ 		}				1		
			l					·• i	j		
									1		
	Notes:	. Ky	15-13-1	18 18 5-13	3.06 ·	0.216		offes to remu			
	2	nuscor	Olin	or how	52 11	mp w/6	im	atos to remu	re		
	Solimons	t. Set (Share	in mi	delm	5 of 5	85	een and			
	remov.	ed lo	`w'e	ll voh	neo	٠		101 10	j		
	- See	- well	John	ne Ca	lan	sta S	in re	acl8leetfor	-		
	Voken	e Cal	رم	$\wedge \wedge$	١			•			
			1/	0 (V. 1	0	7		÷	Ì		
	Well Develop	ers Signature: .	Knin	my My	1			FIGURE 9			
	Graphics\Misc.\Forms					MACTEC I	Engine	eering and Consulting, Inc	اء. ــا		

	Well Dev	elopment F	Record					Well N				
	Project No. 64	68-07-1	750 Logg	jed By:)	1 = C	Lals-Sm	U	700	-809U			
	Client Name: 3			ect Name	172	Cal	, —	Checked B	y:			
	Well Installation I	Date: 4-1-0	28		Start Da	ate4-1-08		Finish Date	:4-1-08			
i '	Well Developmer		-08			me: 0244		Finish Time				
•	Initial Water Leve	1(tt.): 2.7	91									
	Water Level durin	g Initial Pumpin	g/Purging (ft).:	3,9	2,1							
	L	Vater Level at Termination of Pumping/Purging (ft).: 2,82										
	ال کے Weather: کا	Veather: Sunny 1273°F										
		<u> </u>						Seen	صول			
	Heig!	ft of Water Column (ft.)		.16 gal./f l.65 gal./				- - 				
		_ (**/		.5 gal./ft.	(6 in.)		_)				
				_gal./ft. (ır	1.)=	_Well	Volume (ga	al./ft.)			
in topanh	-											
For Toc	Number of Well Volumes:	Time:	Temperature:		ti U	Conductivity:	Pump	roximate ping Rate	Turbidity (NTU's):			
3.921	1) 10 gd.	0847	26.80	(p. =	3 <u>8</u>	(e5.8)	生	1./min.): 0 90 M	2.37 1.86			
2.991	3) 30 gd	0853	27.29	4.0	76	(9.3	4	mge C	1,53			
29.81	5)5054	0859	34.33	6.0	子	<u>68.8</u>		05pm	1.48			
298	7)7026	0902	29.43	7.0	38	(89 (89	5.		0.63			
298	9 90 54	0908	29.15	茎	<u> </u>	68.7	5/	spm	1.39			
. (19/00 506	0910	च्युगळ	71	<u>00</u>	68.6	5.0	SPM	1.58			
							_	•				
				}								
				l								
				1				i	•			
	Notes: - 5	wiged u	rombo	Hh	G	rend to S	2 4	to ren	your			
	Sed	inent f	rombo	Hom	- of	well.	Sl					
	- See	2 Wil	l wolon	ط د	alci		5 N					
	Volc	me Ca	elco.									
	Well Develop	ers Signature: .	Knul	huf	Si	+		FI	GURE 9			
	Graphics\Misc.\Forms					MACTEC	Engine	ering and C	Consulting, Inc.			

	10/-11/7	-1							Well N	lo.:
	well Dev	elopment R	recond						nu	1-812L
	Project No. Le 4C	8-07-195	0	Logge	d By: ⊀	inc	hade-Snut	L		
	Client Name: B	echtel		Projec	t Name:				Checked I	Зу:
	Well Installation D	Date: 5-6-7	38 Fg	5-(3-08 Start Date: 5-6-08 F.			Finish Dat	e: 5-7-08		
	Well Developmen		3-08						Finish Tim	
•	Initial Water Level	(ft.): 1,46	<i>-</i>							·
	Water Level during Initial Pumping/Purging (ft).: 1,90									
	Water Level at Termination of Pumping/Purging (ft).: 155									
	Weather: Suny - Exof									
	Holat	Tof Water Colur	nn.	0.1	C ani Hi	(2 in)	F-13-08	51	e note	
i	Heigr	_ (ft.)	- X_	0.6	6 gal./ft. 35 gal./ft	(4 in.)	5-13-00			
	1.5 gal /ft. (6 in.) gal./ft. (in.) = Well Volume (gal./ft.)									
				>	yu				(9	
	No. and and					1	M 5-13-8		, ,	
	Number of Well Volumes:	Time:	Tempera OC	ture:	PH: -SU	, [Conductivity:	Pum	proximate ping Rate	Turbidity (NTU's):
1.90	1) 23 and	1024	31.7	-4	65	7	1861 43.6	(gi	al./min.):	0.75
1, 10	2 46 oct	1032		这	6.8	4	42.0			1.23
1.85	3) 10 90.	1040	31.0	21	6.8	王	42.5			0.80
المما	4)92 2	1048	30.	78	4.8	4	42.2	-	<u>V</u>	0.58
1.85	5) 115 201	1056	30,0	13	6.8	<u>\$</u>	42.2	<u> </u>	09pm	0.43
1.86	7) 1/01 and	11/12	30.0	33	100	<u>9</u>	42.6		 	0.58
	8)184 grl.	1120		站	6.4	36	42.7		1/	0.64
1,851	9) 207 grl.	1128	30.	扫	6,8	1/2	42.8	3	MCO	0.66
	10)230 gal.	1136	30.0	<u>eo</u>	6.8	<u>5.</u>	42.7		¥,	0.51
									···	
				—					<u> </u>	
	Notes:	used us	008	54 m.	0 (1)	ich	arund		10 ra	enoul
	Sedine	uned w It sett	S Ga	1300	fo5	Own	$\rho \approx 50$	آ ال	een o	end
	renove	el Toris	reel	اص	ine	b.	V			
	-500	. well	VOL	ne.	Cal	cil.	An Sp	rea	Ishee	+to
	Volum	e Cal	، هو		_		·			
	-)	,	\wedge \wedge	N \(\sigma	1			
			1/-	.01	1 X	V X	Link			IGURE 9
	Well Develop	ers Signature: _	* mu	7	Vive	1-	2,00		1 -1	GUILE 3
	Graphics\Misc.\Forms						MACTEC E	Engin	eering and	Consulting, Inc

	Well Developmer	t Record				Well No.	. 1			
							8124			
	Project No. 6468-07-	1950	Logged By: .	` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` ` `	de_Sout					
	Client Name: Bechte		Project Name			Checked By				
		7-08		Start Date: 5	-7-08	Finish Date:				
	Well Development Date: 5			Start Time: \	333	Finish Time:	453			
	Initial Water Level (ft.): 2.3			· · · · · · · · · · · · · · · · · · ·			15 15 Act			
	Water Level during Initial Pur)	·					
	Water Level at Termination of Weather:		 	15						
	Weather: Scanny.	W 8500		······································	A,	0-0-1	=00			
	Height of Water Solumn: 0.16 gal./ft (2 in.) Height of Water Solumn: 0.5 gal./ft (4 in.) Height of Water Solumn: 0.65 gal./ft (4 in.)									
	(16) \\ \(16)									
	1.5 gal./ft. (6 in.) Well Volume (gal./ft.)									
4 · ^				·/		(9-				
trantoc	Management					, ,				
1.0.0	Number of Time: Well Volumes:	Tempera				proximate pring Rate	Turbidity (NTU's):			
~ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1) 10 och 1335	14/5/7	1-08	80 7		al./min.):	5.08			
2.68	2)20 al. 1337	32.4	1/2	19 =	6.0 67	spm -	2 30			
	3) 30 gal 133°	320	0 6.8	50 7	7.6		1.89			
276	4)40 and 1341	33.0		30 MY 7	7772	V.	1.26			
2.78	5 50 gal. 134	3 33.	<u> 28 (o.</u>	3 3	7.6 5	gpm .	0.80			
2.78	6 60 gal. 34	$\frac{5}{3}$		월_ - 폭	75 -		0.83			
~ -m	7) 70 gal 674 34	2 23.0	1	32 3	79 -	1-	0.78			
2.79	8) 20 oct 12 125	1 22	7 (0.5	$\overline{2}$	7.7 5	9PM	0.67			
2.801	10)100 al 13195	3 33	10 (0.	81 -	学年 三	2001	051			
	WX57-08	2								
						•				
		_				· .	<u></u>			
						.				
		-								
	1	i	1	ŀ	ŀ	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \				
	Notes: Until Surged	SUM	2 with	- 950r	ulfos -	tar 13	rolul			
	DATE	notor v		ook,	•					
	KV 5-7-08		7 01.	<i>- در</i>		101				
	Ky5708 - See we	el vol	ine C	lechato	~ Spren	2) Sheet	400			
	128 miles	. calo	<u>.</u>							
	57-00		o 1	n n	n		÷ ,			
	Well Developers Signatur	. K.	mel Chri)-Live	\bigcirc	FIG	URE 9			
	vveii Developers Signatul	cr_pan		Y	_					
	Graphics\Misc.\Forms				MACTEC Engin	eering and Co	onsulting, Inc. —			

Well Sampling Records



MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

OBSERVATION WELL ID:		OW-606U		MACTEC JOB NUMBER: 6468-07-19		7-1950		
PROJECT: Turkey	Point COL Pro	oject	SITE:	F	orida City, Flor	ida	DATE:	5/28/2008
MEASURED WELL DEPTH: 31.91	FT.	SCREENED	INTERVAL:	18-28	FT.	WELL DIA	AMETER:	2 IN.
HEIGHT OF MEASURING POINT	ABOVE LAND	SURFACE:		3.0	CASING M	IATERIAL:	P¹	VC
SAMPLING DEVICE:		See below		TUBIN	G TYPE:	Dedicate	ed, Disposable	Tubing
MEASURING POINT:		Top of Casing		DEPTH	TO GROUND	WATER:	2.	71
SAMPLING PERSONNEL:		L. Bisson		WATE	ER-COLUMN H	EIGHT:	29	.20
STEEL GUARD PIPE AROUND	CASING:		$\overline{\mathbf{V}}$	YES		NO		
LOCKING CAP:			$\overline{\mathbf{Q}}$	YES		NO		
PROTECTIVE POST/ABUTN	ÆNT:			YES	Ø	NO		
NONPOTABLE LABEL	•			YES		NO		-
ID PLATE:	-			YES		NO		
WELL INTEGRITY SATISFAC	CTORY:		$\overline{\mathbf{Q}}$	YES		NO		
WELL YIELD:			$\overline{\mathbf{Z}}$	HIGH		MODERATE		LOW
COMMENTS	Monsoon subn	nersible pump,	Horiba U-22 S	N MO15-09.				
	Purge volume	determined by	multiplying w	ater-column he	ight by 0.16 gal/	ft for a 2-inch w	'ell	
PURGE VOLUME PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TES
(gallons) (gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	140	1123
12.2 0.4	28.66	6.86	1.65	66.7	2.00	-355		
26.2 0.4	28.70	6.88	1.55	66.9	0.39	-368		
32.6 0.4	28.70	6.84	1.61	66.8	0.46	-339		
39.0 0.4	28.71	6.84	1.66	66.9	0.30	-342		
45.4 0.4	28.71	6.84	1.64	66.9	0.34	-347		
Sample 0.3	28.71	6.84	1.66	66.9	0.34	-344		
								_
Sample collected a	at 16:10 for the	following tests						
				<u> </u>				
		160.1 / Alkalinit		.1				
		rate/Nitrite - Me	thod 300.0				·	
	Cations - Metho							
	Ammonia - Me							
	Kd - distributio	n coefficient						
	1	ļ						
	<u> </u>			ļ				

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: LL Date: 7-7-08

Checked by: CBS Date: 7/7/08

MACTEC Engineering and Consulting, Inc. Raleigh, NC



MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue

Raleigh, North Carolina 27604

					OBSERVATION WELL SAMPLING WORKSHEET				EET	
OBSERVATION W	ELL ID:		OW-606L		MAG	CTEC JOB NUM	fBER:	6468-0	07-1950	
PROJECT:	Turkey	Point COL Pr	oject	SITE:	Fl	orida Cirty, Flo	rida	DATE:	5/28/2008	
MEASURED WELL DEPTH:	. 111.31	FT.	SCREENED	INTERVAL:	97-107	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF M	EASURING POINT	ABOVE LANI	SURFACE:		2.8	CASING N	IATERIAL:	. P	VC	
SAMPLING DEV	ICE:		See below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing	
MEASURING PO	INT:		Top of Casing		DEPTH	TO GROUND	WATER:	2	.30	
SAMPLING	PERSONNEL:		K. Charles-Sm	iith	WATI	ER-COLUMN H	EIGHT:	10	9.01	
STEEL GUA	RD PIPE AROUND	CASING:		V	YES		NO			
	LOCKING CAP:			$\overline{\mathbf{A}}$	YES		NO			
PROTEC	TIVE POST/ABUTI	MENT:			YES	\square	МО			
NO	NPOTABLE LABEI	<u>.</u> :		V	YES		NO		•	
	ID PLATE:			V	YES		NO			
WELL INT	EGRITY SATISFA	CTORY:		V	YES		NO			
	WELL YIELD:			V	HIGH		MODERATE		LOW	
COMMENTS		Monsoon sub	nersible pump,	Horiba U-22 S	/N MO15-09.					
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well										
				··						
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	ИC	TES	
(galions)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	1.0	120	
26	0.4	28.78	7.41	10.02	52.6	1.22	-306			
52	0.4	28.32	7.09	9.57	52.8	0.61	-365			
65	0.4	28.38	7.08	9.89	52.9	0.91	-367			
78	0.4	28.14	7.09	9.98	52.7	0.74	-370			
91	0.4	28.09	7.08	9.84	52.7	0.83	-370			
Sample	0.3	28.29	7.08	9.92	52.8	0.77	-370			
<u> </u>										
<u> </u>										
	Sample collected a	t 15.40 for the	following tasts							
	Sample Collected 2	11 13.40 101 1116	londwing tests							
		Analytical Met	hod							
		TDS - Method	160.1 / Alkalinit	y - Method 310	.1					
		Anions and Nit	rate/Nitrite - Me	thod 300.0						
		Cations - Meth	od 6020							
		Ammonia - Me	thod 350.1							
		Kd - distribution	n coefficient							
	1									

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: LS Date: 772/08

Checked by: CBS Date: 7/7/08



MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

					\		DDD OITHIN DA	10 11 0141011			
OBSERVATION WE			OW-621U		MA	CTEC JOB NUM	IBER:	6468-07-1950			
PROJECT:	Turkey	Point COL Pr	oject	SITE:	F	lorida City, Flor	ida	DATE:	5/29/2008		
MEASURED WELL DEPTH:	32.36	FT.	SCREENED	INTERVAL:	17.4-27.4	FT.	WELL DIA	METER:	2 IN.		
HEIGHT OF ME	EASURING POINT	ABOVE LAND	SURFACE:		3.30	CASING M	IATERIAL:	P'	vc		
SAMPLING DEVI	CE:		See below		TUBIN	G TYPE:	Dedicate	ed, Disposable	Tubing		
MEASURING POI	OINT: Top of Casing				DEPTH	I TO GROUND	WATER:	5.	.23		
SAMPLING F	PERSONNEL:	-	K. Charles-Sm	ith	WAT	ER-COLUMN H	EIGHT:	27	7.13		
STEEL GUAI	ND PIPE AROUND	CASING:		V	YES		NO				
I	V	YES		NO							
PROTECT	IVE POST/ABUTM	MENT:			YES	Ø	NO				
ИОИ	$\overline{\Delta}$	YES		NO							
		V	YES		NO						
ID PLATE: WELL INTEGRITY SATISFACTORY:				<u> </u>	YES		NO	· · · · ·			
		<u> </u>	HIGH		MODERATE		LOW				
COMMENTS	WELL YIELD:	Monsoon subr	nersible pump,			·					
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well											
						<u> </u>		······			
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TES		
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	NO	TES		
12	0.4	27.81	7.16	0.07	92.6	21.8	-306				
24	0.4	27.82	7.10	0.05	90.6	3.72	-342		:		
30	0.4	27.81	7.08	0.05	90.9	2.93	-349				
36	0.4	27.81	7.08	0.05	91.0	2.89	-351				
42	0.4	27.83	7.07	0.05	91.1	2.90	-350				
Sample	0.3	27.82	7.08	0.05	91.0	2.91	-351				
	ClN4-2	416:10 6: 41 :	Callandina Acces								
	Sample collected a	t 16:10 for the	Tollowing tests								
		Analytical Met	hod	· · · · · · · · · · · · · · · · · · ·	 						
		r interpretativistic	1								
· · · · · · · · · · · · · · · · · · ·		TDS - Method	160.1 / Alkalinit	y - Method 310	.1						
	1		rate/Nitrite - Me								
		Cations - Meth	od 6020								
		Ammonia - Me							-		
		Kd - distributio	on coefficient								

Observation wells purged in accordance with ASTM D-6452-99

repared by:	ash	Date:	7-7-08		
	~ ~ ~		-1-1		

Checked by: <u>CBS</u> Date: <u>7/7/06</u>



MACTEC Engineering and Consulting, Inc. 3301 Atlantic Avenue Raleigh, North Carolina 27604

OBSERVATION WELL SAMPLING WORKSHEET

					OB.	SERVATION W	ELL SAMITLIN	IG WORKSHI	FE1	
OBSERVATION W	ELL ID:		OW-621L		MAG	CTEC JOB NUM	IBER:	6468-0	7-1950	
PROJECT:	Turkey	Point COL Pro	oject	SITE:	F	orida City, Flor	ida	DATE:	6/4/2008	
MEASURED WELL DEPTH:	111.55	FT.	SCREENED	INTERVAL:	98.6-108.6	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF M	EASURING POINT	ABOVE LAND	SURFACE:		3.0	CASING M	IATERIAL:	PV	/C	
SAMPLING DEV	ICE:		See below		TUBIN	G TYPE:	Dedicate	ted, Disposable Tubing		
MEASURING PO	INT:		Top of Casing		DEPTH	TO GROUND	WATER:	3.:	50	
SAMPLING	PERSONNEL:		K. Charles-Sm	ith	WAT	R-COLUMN H	EIGHT:	108	.05	
STEEL GUA	RD PIPE AROUND	CASING:		\blacksquare	YES		NO			
LOCKING CAP:					YES		NO		_	
PROTEC	TIVE POST/ABUTM	MENT:			YES	V	NO			
NO		YES		NO						
	ID PLATE:			<u> 7</u>	YES		NO			
WELL INT	EGRITY SATISFAC	TORY:		\square	YES		NO			
	WELL YIELD:			$\overline{\mathbf{Q}}$	HIGH		MODERATE		LOW	
COMMENTS		Monsoon subr	nersible pump,	Horiba U-22 S	/N MO15-09.					
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well										
		***		'						
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TES	
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(m\$/cm)	(NTU)	(± mV)		TE5	
26	0.4	27.74	7.07	1.68	>99.9	0.31	-353			
52	0.4	27.72	7.06	1.67	>99.9	0.34	-352			
65	0.4	27.81	7.05	1.66	>99.9	0.20	-347			
78	0.4	27.81	7.06	1.66	>99.9	0.21	-347			
91	0.4	27.81	7.06	1.66	>99.9	0.21	-349			
Sample	0.3	27.80	7.06	1.66	>99.9	0.21	-349			
	Sample collected a	t 14:20 for the	following tests							
	Sumple concetes o	1 1 1 1 2 1 1 2 1 1 1 1 1 1 1 1 1 1 1 1	l l l l l l l l l l l l l l l l l l l		-					
		Analytical Met	hod							
		TDS - Method	160.1 / Alkalinit	y - Method 310	.1					
			rate/Nitrite - Me							
		Cations - Meth								
	 	Ammonia - Me								
		Kd - distribution								
	 						<u> </u>			

Observation wells purged in accordance with ASTM D-6452-99

repared by:	inst-	Date: アーチャ	ঠ
repured by.		Dutc	<u>-</u>

Checked by: <u>CBS</u> Date: <u>7/7/08</u>



					OBSERVATION WELL SAMPLING WORKSHEET				EET		
OBSERVATION WE	LL ID:		OW-706U		MAG	CTEC JOB NUM	IBER:	6468-0	7-1950		
PROJECT:	Turkey	Point COL Pr	oject	SITE:	FI	orida City, Flor	ida	DATE:	5/29/2008		
MEASURED WELL DEPTH:	31.72	FT.	SCREENED	INTERVAL:	17-27	FT.	WELL DIA	METER:	2 IN.		
HEIGHT OF M	EASURING POINT	ABOVE LAND	SURFACE:		3.2	CASING M	IATERIAL:	P	vc		
SAMPLING DEV	ICE:		See below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing		
MEASURING PO	INT:	Top of Casing			DEPTH	TO GROUND	WATER:	3.	.02		
SAMPLING PERSO	NNEL:	L. Bisso	n and K. Charl	es-Smith	WATE	ER-COLUMN H	EIGHT:	28	3.70		
STEEL GUA	RD PIPE AROUND	CASING:		$\overline{\mathbf{V}}$	YES		NO				
	LOCKING CAP:			Ø	YES		NO				
PROTEC	TIVE POST/ABUTM	ŒNT:			YES	Ø	МО		1		
NOI	NPOTABLE LABEL	:		V	YES		NO				
	ID PLATE:			Ø	YES		NO				
WELL INT	EGRITY SATISFAC	CTORY:			YES		NO				
	WELL YIELD:			Ø	HIGH		MODERATE		LOW		
COMMENTS Monsoon submersible pump, Horiba U-22 S/N MO15-09.											
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well											
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TES		
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)_	(± mV)		120		
10	0.4	29.16	6.67	I.17	74.9	18.1	-373				
20	0.4	29.55	6.62	1.34	76.5	1.84	-378				
26	0.4	29.95	6.66	1.20	76.7	1.25	-385				
32	0.4	30.19	6.67	1.10	76.7	1.09	-388				
38	0.4	30.70	6.66	1.15	76.7	1.08	-391				
Sample	0.3	30.85	6.65	1.13	76.6	0.83	-392				
	 										
	Sample collected a	t 11:00 for the	following tests								
	ļ										
		Analytical Met	hod								
<u>.</u>	 	TDS - Method	<u> </u> 160.1 / Alkalinit	v - Method 310	<u>. </u>		 				
			rate/Nitrite - Me	<u> </u>	<u>. </u>		-				
		Cations - Meth									
		Ammonia - Me									
		Kd - distributio	n coefficient								
		<u> </u>			L	L					

Observation wells purged in accordance with ASTM D-6452-99



ORSERVATION WELL SAMPLING WORKSHEET

					OBSERVATION WELL SAMPLING WORKSHEET					
OBSERVATION \	WELL ID:		OW-706L		MAG	CTEC JOB NUM	IBER:	6468-0	7-1950	
PROJECT:	Turkey	Point COL Pr	oject	SITE:	FI	lorida City, Flor	ida	DATE:	5/29/200	
MEASURED WELL DEPTH	114.56	FT.	SCREENED I	INTERVAL:	17-27	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF	MEASURING POINT	ABOVE LAND	SURFACE:		3.2	CASING M	1ATERIAL:	P	vc	
SAMPLING DE	VICE:		See below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing	
MEASURING F	POINT:	Top of Casing			DEPTH	TO GROUND	WATER:	0.	62	
SAMPLING PERS	ONNEL:	J	K. Charles-Smith	h	WATE	ER-COLUMN H	EIGHT:	113	3.94	
STEEL GU	JARD PIPE AROUND	CASING:		V	YES		NO			
	LOCKING CAP:			<u> </u>	YES		NO	NO		
PROTE	CTIVE POST/ABUT	MENT:			YES	\square	NO			
N	ONPOTABLE LABEL			<u> </u>	YES		NO			
	ID PLATE:			7	YES		NO			
WELL I	TEGRITY SATISFA	CTORY:		<u> 7</u>	YES		NO			
	WELL YIELD:			Ø	HIGH		MODERATE		LOW	
COMMENT	rs	Monsoon subi	mersible pump, l	Horiba U-22 S						
						ight by 0.16 gal/	ft for a 2-inch we	ell		
· · · · · · · · · · · · · · · · · · ·						<u> </u>			-	
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TEC	
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	NOTES	1E3	
24	0.4	29.50	6.87	1.92	44.4	9.05	-287			
48	0.4	29.42	6.85	1.79	46.7	0.86	-334			
60	0.4	29.54	6.88	1.61	45.7	0.57	-343			
72	0.4	29.57	6.85	1.57	46.2	0.35	-346			
84	0.4	29.60	6.86							
Sample 0.3		<u> </u>		1.51	46.2	0.24	-351			
	0.3	29.61	6.83	1.49	46.2 46.4	0.24 0.20	-351 - 351			
	0.3	<u> </u>								
	0.3 Sample collected	29.61	6.83							
		29.61	6.83							
		at 12:35 for the	6.83 following tests hod	1,49	46.4					
		at 12:35 for the Analytical Met TDS - Method	following tests hod 160.1 / Alkalinity	1.49 y - Method 310	46.4					
		at 12:35 for the Analytical Met TDS - Method Anions and Nit	following tests hod 160.1 / Alkalinity trate/Nitrite - Met	1.49 y - Method 310	46.4					
		at 12:35 for the Analytical Met TDS - Method Anions and Nit Cations - Meth	following tests hod 160.1 / Alkalinity trate/Nitrite - Met od 6020	1.49 y - Method 310	46.4					
		at 12:35 for the Analytical Met TDS - Method Anions and Nit	following tests hod 160.1 / Alkalinity trate/Nitrite - Met od 6020 ethod 350.1	1.49 y - Method 310	46.4					

Observation wells purged in accordance with ASTM D-6452-99

Prepared hv.	lust
Prepared DV:	0000-

Prepared by: 100 Date: 7-708

Checked by: 275 Date: 7/7/08



				OBSERVATION WELL				SAMPLING WORKSHEET			
OBSERVATION WE	ELL ID:		OW-721U		MAG	CTEC JOB NUM	IBER:	6468-0	7-1950		
PROJECT:	Turkey	Point COL Pr	oject	SITE:	FI	lorida City, Floi	rida	DATE:	5/28/2008		
MEASURED WELL DEPTH:	28.00	FT.	SCREENED	INTERVAL:	14-24	FT.	WELL DIA	METER:	2 IN.		
HEIGHT OF M	EASURING POINT	ABOVE LAND	SURFACE:		3.1	CASING N	ATERIAL:	P\	VC		
SAMPLING DEV	ICE:		See below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing		
MEASURING PO	INT:		Top of Casing		DEPTH	TO GROUND	WATER:	3.	.23		
SAMPLING PERSO	NNEL:]	K. Charles-Smit	th	WATE	ER-COLUMN H	EIGHT:	24	.77		
STEEL GUA	RD PIPE AROUND	CASING:		\square	YES		NO				
	LOCKING CAP:			$\overline{\mathbf{Q}}$	YES		NO				
PROTEC	TIVE POST/ABUTM	MENT:			YES	V	NO				
NO	NPOTABLE LABEL	:		<u> 7</u>	YES		NO				
	ID PLATE:			Ø	YES		NO				
WELL INT	EGRITY SATISFAC	CTORY:		V	YES		NO				
	WELL YIELD: ☑ HIGH ☐ MODERATE ☐				LOW						
COMMENTS Monsoon submersible pump, Horiba U-22 S/N MO15-09.											
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well											
			,=								
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO.	TES		
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	140	123		
9	0.4	28.91	7.12	10.8	54.8	0.28	-361				
18	0.4	29.22	7.11	10.6	55.5	0.48	-364				
22.5	0.4	29.26	7.08	10.6	52.7	0.37	-364				
27	0.4	29.27	7.08	10.6	53.0	0.46	-362				
31.5	0.4	29.30	7.07	10.8	52.8	0.30	-362				
Sample	0.3	28.92	7.10	10.6	53.1	0.36	-364				
			 								
			 								
	Sample collected a	at 11:00 for the	following tests								
			, , , , , , , , , , , , , , , , , , , ,								
		Analytical Met	hod								
····			160.1 / Alkalini	<u> </u>	.1		<u> </u>				
			trate/Nitrite - Me	thod 300.0	ļ						
		Cations - Meth	<u></u>			<u> </u>					
		Ammonia - Me			ļ						
	 	Kd - distribution	on coefficient			ļ					
				L		ļ					

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: _____

Checked by: <u>CBS</u>



ORSEDVATION WELL SAMPLING WODESHEET

					UB.	SERVATION V	VELL SAMIFLIN	IG WUKKSH	EE1	
OBSERVATION W	ELL ID:		OW-721L		MA	CTEC JOB NUM	IBER:	6468-07-1950		
PROJECT:	Turkey	Point COL Pr	oject	SITE:	F	orida City, Flor	rida	DATE:	5/28/2008	
MEASURED WELL DEPTH:	107.62	FT.	SCREENED	INTERVAL:	96-106	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF N	MEASURING POINT	ABOVE LAND	SURFACE:		3.2	CASING N	MATERIAL:	P	VC	
SAMPLING DEV	VICE:		Sec below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing	
MEASURING PO	DINT:		Top of Casing		DEPTH	TO GROUND	WATER:	1.	07	
SAMPLING PERSO	ONNEL:		L. Bisson		WATI	ER-COLUMN H	EIGHT:	100	5.55	
STEEL GU	ARD PIPE AROUND	CASING:			YES		NO			
	LOCKING CAP:			$\overline{\mathbf{Q}}$	YES		NO			
PROTEC	CTIVE POST/ABUT	MENT:			YES	\square	NO			
NC	NPOTABLE LABEI	<i>;</i> :		7	YES		NO	······································		
	ID PLATE:			$\overline{\mathbf{Z}}$	YES		NO			
WELL IN	TEGRITY SATISFAC	CTORY:			YES		NO			
	WELL YIELD: ☑ HIGH ☐ MODERATE ☐				LOW					
COMMENT	S	mersible pump, l				, , , , , , , , , , , , , , , , , , , 				
			<u></u>			ight by 0.16 gal	ft for a 2-inch w	ell	·	
										
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	TES	
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	NO	165	
25.2	0.4	28.86	6.80	1.71	73.6	175	-337			
48.0	0.4	28.68	6.78	1.18	74.3	5.41	-358			
60.0	0.4	28.62	6.75	1.24	74.4	7.20	- 361		·	
72.0	0.4	28.64	6.75	1.08	74.4	7.60	-364			
84.0	0.4	28.60	6.77	1.17	74.3	7.55	-369			
Sample	0.3	28.56	6.76	1.18	74.3	7.55	-370			
										
		 								
			 				+			
	Sample collected	at 13:25 for the	following tests							
							1			
		Analytical Met	hod							
			160.1 / Alkalinity		.1					
			trate/Nitrite - Met	thod 300.0						
		Cations - Meth								
		Ammonia - Me								
		Kd - distribution	on coefficient							
							l			

Observation wells purged in accordance with ASTM D-6452-99

Prepared	by:	ust	

Prepared by: $\frac{US}{US}$ Date: $\frac{7-7-00}{7/7/08}$



OBSERVATION WELL SAMPLING WORKSHEET

					1		· ZZZ Grana	· · · · · · · · · · · · · · · · · · ·			
OBSERVATION WE	LL ID:		OW-735U		MA	CTEC JOB NUM	IBER:	6468-0	7-1950		
РКОЈЕСТ:	Turkey	Point COL Pr	oject	SITE:	F	lorida City, Flor	rida	DATE:	5/27/2008		
MEASURED WELL DEPTH:	30.19		SCREENED	INTERVAL:	16-26	FT.	WELL DIA	AMETER:	2 IN.		
HEIGHT OF MI	EASURING POINT	ABOVE LAND	SURFACE:		3.3	CASING M	MATERIAL:	PV	/C		
SAMPLING DEVI	CE:		See below		TUBIN	G TYPE:	Dedicate	ed, Disposable	Tubing		
MEASURING POI	NT:		Top of Casing		DEPTH	I TO GROUND	WATER:	4.	40		
SAMPLING PERSON	NEL:	ŀ	(. Charles-Smit	h	WATI	ER-COLUMN H	EIGHT:	25	.79		
STEEL GUAI	RD PIPE AROUND	CASING:		V	YES		NO				
	LOCKING CAP:			7	YES		NO				
PROTECT	PROTECTIVE POST/ABUTMENT:					Ø	NO				
ИОИ	POTABLE LABEL			Ø	YES		NO				
	ID PLATE:			7	YES		NO				
WELL INTI	EGRITY SATISFAC	CTORY:		<u> </u>	YES						
	WELL YIELD: ✓ HIGH ☐ MODERATE ☐				LOW						
COMMENTS		nersible pump,			<u> </u>						
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well											
			·			<u> </u>					
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO.	TEC		
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	NO	1ES		
9.5	0.4	29.42	7.02	0.04	84.6	0.99	-334				
19	0.4	29.46	7.01	0.02	84.7	0.99	-351				
23.75	0.4	29.46	7.00	0.01	84.8	0.92	-357				
28.5	0.4	29.45	6.99	0.02	84.8	0.86	-357				
33.25	0.4	29.48	6.99	0.02	84.8	0.90	-357				
Sample	0.3	29.47	7.00	0.02	86.6	0.92	-360				
	Sample collected a	of 11:35 for the	following tests								
	Sample conecieu a	11.55 101 the	Tonowing tests								
		Analytical Met	hod								
		TDS - Method	160.1 / Alkalinit	y - Method 310	.1						
		Anions and Nit	rate/Nitrite - Me	thod 300.0							
		Cations - Meth	od 6020								
		Ammonia - Me	thod 350.1								
		Kd - distributio	n coefficient								

Observation wells purged in accordance with ASTM D-6452-99

Prenared by L.Y.

Checked by: 17-72

Jan 2/

MACTEC Engineering and Consulting, Inc. Raleigh, NC



	1111				OBSERVATION WELL SAMPLING WORKSHEET				
OBSERVATION V	WELL ID:		OW-802U	 	MAG	CTEC JOB NUM	IBER:	6468-	07-1950
PROJECT:	Turkey	Point COL Pr	roject	SITE:	F	orida City, Flor	ida	DATE:	6/5/2008
MEASURED WELL DEPTH	29.11	FT.	SCREENED	INTERVAL:	15-25	FT.	WELL DIA	METER:	2 IN.
HEIGHT OF	MEASURING POINT	ABOVE LAND	SURFACE:		3.4 CASING MATERIAL:			P	VC
SAMPLING DE	VICE:		See below		TUBIN	G TYPE:	Dedicated	i, Disposable	Tubing
MEASURING F	POINT:		Top of Casing		DEPTH	TO GROUND	WATER:	4	1.05
SAMPLING PERS	SAMPLING PERSONNEL:		K. Charles-Smit	h	WATI	ER-COLUMN H	EIGHT:	2:	5.06
STEEL GU	JARD PIPE AROUND	CASING:		$\overline{\square}$	YES		NO		
	LOCKING CAP:			$\overline{\mathbf{Q}}$	YES		NO		
PROTE	CTIVE POST/ABUT	MENT:			YES	Ø	NO		
N	ONPOTABLE LABEL			<u> </u>	YES		NO		
	ID PLATE:			7	YES	YES NO			
WELL I	NTEGRITY SATISFAC	CTORY:		<u> </u>	YES		NO		
	WELL YIELD:			<u> </u>	HIGH		MODERATE		LOW
COMMEN		Monsoon sub	mersible pump,			 _			
						ight by 0.16 gal/	ft for a 2-inch we		
·····	·····								
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.		2750
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	NOTES	
10	0.4	28.23	6.86	2.05	82.7	0.91	-352		
20	0.4	28.20	6.86	1.76	82.7	0.50	-355		
25	0.4	28.22	6.89	1.90	82.7	0.57	-360		
30	0.4	28.50	6.88	1.91	82.6	0.52	-363		
35	0.4	28.36	6.84	1.90	82.6	0.48	-361		
Sample	0.3	28.27	6.80	1.90	82.8	0.48	-322		
<u> </u>			 						
 			 						
	Sample collected	at 12:35 for the	following tests						
		Analytical Me	thod						
		TDG NG I	1601/47/11:	24.1.1210	<u> </u>				
			160.1 / Alkalinit trate/Nitrite - Me	<u> </u>	.1	-	 		
		Cations - Meth		tilou 300.0	 				
· · · · · · · · · · · · · · · · · · ·	•	Ammonia - Me							
		Kd - distribution					-		
									
		+	†						

Observation wells purged in accordance with ASTM D-6452-99

Prepared by: L-SL-	Date: <u>7-7-25</u>
Checked by: C35	Date: <u>7/7/08</u>



ORSERVATION WELL SAMPLING WORKSHEET

					Ub.	SERVATION W	ELL SAMPLIN	IG WURKSHI	rer I	
OBSERVATION WE	LL ID:		OW-805U		MAG	CTEC JOB NUM	IBER:	6468-0	7-1950	
PROJECT:	Turkey	Point COL Pr	oject	SITE:	F	lorida City, Flor	rida	DATE:	6/5/2008	
MEASURED WELL DEPTH:	33.85	FT.	SCREENED	INTERVAL:	18-28	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF ME	EASURING POINT	ABOVE LAND	SURFACE:		2.8	CASING M	IATERIAL:	PV	'C	
SAMPLING DEVI	CE:		Sec below		TUBIN	G TYPE:	Dedicate	ed, Disposable	Cubing	
MEASURING POI	NT:		Top of Casing		DEPTH	I TO GROUND\	WATER:	3.()5	
SAMPLING PERSON	NNEL:	ŀ	(. Charles-Smit	h	WATI	ER-COLUMN H	EIGHT:	30.80		
STEEL GUAI	RD PIPE AROUND	CASING:		Ø	YES		NO			
	LOCKING CAP:			Ø	YES		NO			
PROTECT	TVE POST/ABUTM	ÆNT:			YES	Ø	NO			
NON	IPOTABLE LABEL	:		$\overline{\mathbf{A}}$	YES		NO			
	ID PLATE: YES NO									
WELL INTI	EGRITY SATISFAC	CTORY:		Ø	YES] NO			
	WELL YIELD:			V	HIGH		MODERATE			
COMMENTS	COMMENTS Monsoon submersible pump, Horiba U-22 S/N MO15-09.									
Purge volume determined by multiplying water-column height by 0.16 gal/ft for a 2-inch well										
			•	·····		·				
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NO	LE6	
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	1101	LS	
10.5	0.4	28.04	7.29	1.19	64.0	0.86	-296			
21.0	0.4	28.31	7.14	1.18	61.1	0.43	-342			
26.5	0.4	28.19	7.13	1.18	61.0	0.36	-345			
32.0	0.4	28.31	7.10	1.19	60.8	0.32	-345			
37.5	0.4	28.35	7.11	1.19	61.1	0.33	-344			
Sample	0.3	28.26	7.10	1.19	60.9	0.32	-346			
	Sample collected a	t 15:00 for the	following tests							
		Analytical Metl	hod							
	ļ				<u> </u>					
			160.1 / Alkalinit		.1					
			rate/Nitrite - Me	tnod 300.0						
		Cations - Meth						·		
	 	Ammonia - Me			ļ <u>-</u>		 	· · · · · · · · · · · · · · · · · · ·		
	 	Kd - distributio	n coemicient			 				
						-				

Observation wells purged in accordance with ASTM D-6452-99

 Prepared by:
 a.g.
 Date:
 7-7a8

 Checked by:
 CBS
 Date:
 7/7/08



					OBSERVATION WELL SAMPLING WORKSHEET					
OBSERVATION WI	ELL ID:		OW-809U		MA	CTEC JOB NUM	IBER:	6468-0	7-1950	
PROJECT:	Turkey	Point COL Pr	oject	SITE:	FI	orida City, Flor	ida	DATE:	5/27/2008	
MEASURED WELL DEPTH:	29.71	FT.	SCREENED	INTERVAL:	15-25	FT.	WELL DIA	METER:	2 IN.	
HEIGHT OF M	EASURING POINT	ABOVE LAND	SURFACE:		3.2	CASING M	IATERIAL:	P	VC	
SAMPLING DEV	ICE:		See below		TUBIN	G TYPE:	Dedicate	d, Disposable	Tubing	
MEASURING PO	INT:		Top of Casing		DEPTH TO GROUNDWATER:			3.38		
SAMPLING PERSO	NNEL:	F	C. Charles-Smit	h	WATE	ER-COLUMN H	EIGHT:	26	5.33	
STEEL GUA	RD PIPE AROUND	CASING:		$\overline{\mathbf{Q}}$	YES		NO			
	LOCKING CAP:			\square	YES		NO			
PROTEC	TIVE POST/ABUTN	MENT:			YES	Ø	NO			
NO	NPOTABLE LABEL	:		$\overline{\mathbf{V}}$	YES		МО			
	ID PLATE:				YES		NO			
WELL INT	EGRITY SATISFAC	CTORY:		$\overline{\checkmark}$	YES		NO			
	WELL YIELD: ☑ HIGH ☐ MODERATE ☐				LOW					
COMMENTS		Monsoon subr	nersible pump,	Horiba U-22 S	N MO15-09.					
		Purge volume	determined by	multiplying w	ater-column he	ight by 0.16 gal/	ft for a 2-inch we	ell		
		· · · · · ·			***************************************					
PURGE VOLUME	PURGE RATE	TEMP	PH	D.O.	SP. COND.	TURBIDITY	O.R.P.	NC	TES	
(gallons)	(gpm)	(°C)	(S.U.)	(mg/L)	(mS/cm)	(NTU)	(± mV)	110	/1 L0	
9	0.4	31.02	6.99	0.01	85.1	4.39	-368			
18	0.4	30.83	6.98	0.02	84.0	1.09	-370			
22,5	0.4	30.99	6.98	0.02	84.1	0.97	-371			
27	0.4	30.81	6.98	0.01	, 84.0	0.99	-370			
31.5	0.4	30.81	6.98	0.01	83.9	0.99	-371			
Sample	0.3	30.82	6.98	0.01	83.9	0.97	-371			
	<u> </u>									
	 .		 							
	Sample collected a	l	following tests							
	Sample conceled a	14.55 101 the	lonowing tests							
		Analytical Met	hod							
		TDS - Method	160.1 / Alkalinit	y - Method 310	.1					
		Anions and Nit	trate/Nitrite - Me	thod 300.0						
		Cations - Meth	od 6020							
		Ammonia - Me	thod 350.1							
		Kd - distributio	on coefficient							
										
· · · · · · · · · · · · · · · · · · ·	<u> </u>	1				T				

Observation wells purged in accordance with ASTM D-6452-99

Checked by: CBS

Laboratory Test Reports



Supplier Deviation Disposition Request

Notes

- 1. COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET
- 2. Items 1-18 below to be completed by supplier
- 3. *Items, Bechtel entries only
- 4. Nonapplicable items to be marked "N/A"

- 5. Attach additional information whenever necessary
- 6. Bechtel must be notified within 5 days after detection of deviation
- A copy of the completed SDDR form shall be included by the supplier in the quality verification data package for each item to which this SDDR applies.

				*******	a 1 a 113	ODDITA	pplico.			
For Sup	plier Use						William ALA	or Bec	htel Use	117 T2 T2 119 11 11 11 11 11 11 11 11 11 11 11 11
Supplier SDDR No.	Date Submit	ted Project	FPL Turkey	Point CC	L		Bechtel SDDF			Received
76	5/18/09	Job No.	25409				see abo	ove	74/	19/09
Supplier Name		Address	·		City	& State			Zip Code	
MACTEC Engineerin Consulting, Inc	g and	3301 Atlantic	Avenue		Rale	eigh, NC	•		27604	
2. Supplier's Order No.	3. Supplier	's Part No.	4. Supplier's	4. Supplier's Part Name 5. Deviation					Previous SDDRs bers and Dates)	
NA	NA		NA Date 9/22/2008			Method		,		
7. Bechtel PO & Rev. N		Part No.	9. Bechtel Pa	rt Name		10. Bechte	el SQR Notified	11. E	Bechtel Er	ng. Notified
Subcontract No. 254 102-3PS-CT20-0000 rev 001			NA Date					Date o ranco	Method	
12. Deviation Description	n (Attach extra si	neets nhotogran	he eketches e	tc as nec	9662	5/18/20		5/1	8/2009	SDDR
Please see attached	NCR TP 40 (at	tachment 3 pgs	s).	sto., as nec	cssai	iy and ide	anny quantity and	senan	numbers	as applicable)
13. Supplier's Proposed	Disposition	Use-As-Is	3	Repair		×	odify Bechtel Red	quireme	ent	
DATA RE	JECTED	AS INDI	CATED	134 /	477	TACHE	O NCR	TE	40	•
14. Cost Impact No	ne			15. Sched	lule ir	npact	None			
16. Proposed Dispositio	n and Technical	(plus Cost/Sched	lule if applicabl	e) Justifica	tion:	Attach	extra sheets, sketo	ches. etc	. as neces	sarv
Please see attached									,	
17. Associated Supplier	Document Chan	ge(s) none				-				
18. Supplier's Authorize	d Representative						······································			
Name		Signature	_		Title				Date	
RICHARD S.	Augen	as	a.,	٠.	6	ROJEL	T MANA	1.c.6.1	_ 5	18-09
*19. Bechtel Engineerin	g Action							· · · · · ·	L	
Accepted	Engineering	Drawing (Change	Ве	echte	1	Supplier	Lic	ensing D	oc. Changes
Rejected	Follow-up	Spec/Red	ą. Change	Ве	echte	,	Supplier		ce Adjust	I
		Other Su	ppliers Affected				Other			
*20. Bechtel Disposition						, etc., as r		Yes	7.	
*21. Bechtel Disposition		UR Da				ACUOIT	reduited	1 es		
l //	Bloc		11/09	22. Suppli	er	1.			Date	
Checker	1/2	61	11/01		N	1 / G				·
EGS MAGIN	ME JL	A	47/09	*23. Bech	tel Su	ipplier Qu	ality Represental	tive	Date	
- A14A	<u> </u>	<u> </u>	11.07	L	i,	4/19				
SDDR Docume	nt – attach	ment 3 Pag	ges	_				DC	N# TU	R765
		4	块	-6-1	, ,	3 <i>(</i>]				
			1-	0-/	0- (ノナ				

Bechtel Confidential @ Bechtel 2007. All rights reserved.

PAGE 10 5

Rev. 1

FPL COL PROJECT - Turkey Point

MACTEC Project No. 6468-07-1950

NCR TP 40	Nonconformance and Corrective		
Organization: MAC	CTEC Engineering and Consulting	Location: Raleigh	
Reported By: Willia	um S. Grimes		Date: 9/22/08
	Noncon	formance	
Description of Nonc			·
Description of None	conformance: Based on review of the laborator	V test reports, it appears that the total disc	olved golide (TDQ) require
are erroneous. The	measured TDS results are typically less than th	e sum of the individual analytes TDS va	lites should be as large on
larger than the sum	of the available analytes.		mon stronte on as tarke al
Representative Noti	fied: Al Tice		
Date Notified: 9/22		Date Corrective Action Plan Due:10/10	1/2008
	Corrective		
that the TDS results	nation to Determine Root Cause: MACTEC Se did not appear accurate. Additionally, MACT nine if errors were made during the testing.	nior Scientists reviewed the laboratory te	st reports and concluded ca to review their testing
requirements of not suspended particular	Due to the high concentrations of analytes in the exceeding 200 milligrams of residue for the TI tes may have affected pipette volume accuracy. I insufficient sample volume.	S tests. TestAmerica reported in their in	vestigation that any
testing assignment v	sed on discussions with the Bechtel, we unders was to support review of specific conductivity d promise Bechtel's objective for the assignment	ata. Therefore, we believe the potentially	erroneous TDS test
5		· · · .	
Description of Corre	ective Actions (current and to prevent recurrent	e): A MACTEC Senior Chemist reviewed	d the laboratory test reports
to identify issues and	d disposition the data. Additionally, MACTEO	QA coordinated with TestAmerica to ide	entify steps /procedures to
make sure this issue	is not repeated in future analyses.		
B-64-10 1::	D.4. 10/15/00	·	
Estimated Completic	on Date: 10/15/08		
n			
Recommended dispe	osition of nonconforming items (i.e. reject/disp	ose, repair, rework, use-as-is) Include tecl	nnical justification:
MACTEC rejects th	ne TDS results, please see attached disposition	statement.	
10 0000 61 77 115			
	tion Required: YES NO		
Signature of Prepa William S. Grimes	rer: Walk s. 2	Date: 5	-14-09
Corrective Action	(XXI)	1-	. 4 9
Approval Signatur	e: (Principal or Chief Engineer)		-14-119
	Corrective A	ction Closure	
Comments:			
Approved/Actual D	sposition of Nonconforming Items:		
BECHTEL Approx	val Signature: To be confirmed with SODE	. //	Date:
MACTEC QAR A		Date:	5/14/09
MACTEC Chief E	ngineer Signature	Date:	tial a ste
			111707 6/14/09
		DCN	I: TUR

FPL COL Project-Turkey Point NCR Form - Page 1 of __1__

Rev 1 2-23-08

DCN# TUR765



NCR TP 40 Disposition Statement

Laboratory reported TDS values should be at least equal to, if not greater than the summation of the individual cations and anions that comprise TDS. During our review of the TDS data, MACTEC identified that the reported TDS values for eight of the twelve groundwater samples tested were less than the summation of the individual analytes. MACTEC identified that the charge balances were all below 10% error which suggests good analytical accuracy for the cation and anion results thus supporting the use of the summed totals for comparison with reported TDS values. Based on these comparisons, the TDS values reported by TestAmerica were deemed suspect.

MACTEC QA personnel interviewed TestAmerica to determine if there were operational or procedural issues that affected the test results. TestAmerica identified that to meet the method requirement for final residue weight, they had to dilute the sample and use a smaller than normal sample aliquot. TestAmerica used a narrow tipped pipette and determined that any suspended particles could have affected pipette volume accuracy, which would have produced lower TDS results (see attached report). To eliminate this potential source of error, TestAmerica ordered custom-made, wide mouth pipettes for drawing small volume aliquots. Additionally, TestAmerica implemented a policy to check to TDS/chloride ratio for samples to determine if the test needs to be rerun within the hold times.

No definite cause for this error could be determined through our investigation. However, MACTEC suspects that inaccurate sample volume is the source for the lower than expected TDS results. Therefore, MACTEC **rejects** all TDS results reported by TestAmerica.

Page 2 of 3

DCN# TUR765

SDDR PAGE 3 of 5



10-10-08

Turkey Point Data

After re-reviewing the data for the TDS and Chlorides, no definitive answer for the higher Chloride result could be determined. The data for the samples, balances, pipettes and internal QC were re-reviewed and no definitive cause for the low bias to the TDS could be determined. The laboratory conducted an ion mass balance evaluation for the samples, which showed that the charge balance differences were all below 10%, indicating good analytical accuracy for the cations and anions, including chloride. Data was also reviewed by a corporate technical director. The samples were run, for all parameters, at a high dilution due to the high levels of the requested analytes present in the samples. Initially it was suspected that the high levels of the salts may have been a contributing factor. After reviewing technical documents it was decided that the high salt levels in the samples, while making the analysis difficult due to the dilutions we had to apply, really would not explain the lower TDS numbers. The original sample containers were pulled and there were no visible solids found in the sample remaining in the containers.

The Method blanks and LCS samples run with each set of data met all criteria. The balances and pipettes used for the analyses were calibrated the day of use and fell within acceptance criteria. The laboratory has passed the last several sets of PT samples for TDS.

One possible reason for the low TDS result in these samples is the small amount of material used to perform the TDS analysis. The method requires that the final weight of the residue not exceed 200 mg. In order to meet this, the lab used 1 ml of sample, due to the high levels of TDS present. The one ml aliquot is drawn up using a narrow tipped pipette. Any suspended particulates in the sample could interfere with the pipette volume accuracy. The lab has ordered a custom made Class A wide mouth pipette to eliminate this potential source of error.

Another corrective action we will implement is an immediate check of the TDS/Chloride ratio for samples, so that if it fails we can re-run within hold time.

We continue to monitor and evaluate the TDS analysis.

Marti Ward

Quality Assurance Manager

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

13715 Rider Trail North Earth City, MO 63045 314-298-8566 www.testamericainc.com

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testamericainc.com

DR PAGE 4 of 5

Page 3 of 3

DCN# TUR765

Supplier Deviation Disposition Request (Continuation Sheet)

Bechtel SDDR No. 25409-102-YD4-CY00-00076

20. Bechtel Disposition Statement

This SDDR addresses MACTEC NCR TP 40 regarding the laboratory test results for water sample TDS values. The test results have been rejected by MACTEC as the total TDS values for eight of the twelve groundwater samples tested were less than the summation of the individual analytes. TDS totals should be as large as or larger than the sum of the analytes.

Bechtel concurs with rejecting the data and requests that groundwater samples be retested. The October 10, 2008 letter from TestAmerica indicates there are changes that could be made to improve the test procedure and the TDS results while staying within the 200 mg residue limit. Bechtel requests that the TestAmerica test procedure be reviewed and accepted prior to running any further tests as the extremely high salinity values in the groundwater must be accounted for.

Bechtel does not concur with the proposed disposition of **MODIFY BECHTEL REQUIREMENT** as the data has been rejected.



Supplier Deviation Disposition Request

Notes

- 1. COMPLETE INSTRUCTIONS ON BACK OF THIS SHEET
- 2. Items 1-18 below to be completed by supplier
- 3. *Items, Bechtel entries only
- 4. Nonapplicable items to be marked "N/A"

- 5. Attach additional information whenever necessary
- 6. Bechtel must be notified within 5 days after detection of deviation
- A copy of the completed SDDR form shall be included by the supplier in the quality verification data package for each item to which this SDDR applies.

man in proportion and the state of the state	and the second second second second second	harrista (f. 1844)					to the consistent and the second	argo rive simule	or or project and are	Design skipler diggerep in insurenter man and
+ For Suppl			CDL T. I	D-!4 00		- 1	E TOP TO		***************************************	
Supplier SDDR No.	Date Submit			ey Point CO	<u> </u>		Bechtel SDDR I			Received
77	6/5/09	Job No.	25409				SEE ABOV	E	6/9/	09
1. Supplier Name		Address			City &	& State		Z	ip Code	
MACTEC Engineering Consulting, Inc	and	3301 Atlantic	Avenue		Rale	igh, NC			2	27604
2. Supplier's Order No.	3. Supplier	r's Part No.	4. Supplier	's Part Name	5	. Deviati		Previous ers and D	SDDRs	
	1					Date	Method	(I TUTTIO	cia allu L	awo)
NA	NA		NA		5	5/20/200	9 NCR			
7. Bechtel PO & Rev. No.	8. Bechtel	Part No.	9. Bechtel I	Part Name	1		el SQR Notified			ng. Notified
Subcontract No. 25409	T .					Date	Method	D	ate	Method
102-3PS-CT20-00001 rev 001	NA						9 SDDR		2009	SDDR
12. Deviation Description	(Attach extra s	heets, photograp	hs, sketches	s, etc., as nec	essar	y and ide	ntify quantity and	serial n	umbers	as applicable)
Please see attached N	ICR TP 41 (at	tachment 6 pg	s).							
13. Supplier's Proposed I	Disposition	Use-As-I	s	X Repair		М	odify Bechtel Requ	ulremer	nt	
	_									
14. Cost Impact Non-	e			15. Sched	dule Ir	npact	None			
16. Proposed Disposition	and Technical	(plus Cost/Sched	dule if applic	able) Justifica	ation:	Attac	h extra sheets, sketch	nes, etc.,	as neces	sary
Please see attached d		•		·-						
17. Associated Supplier I	Document Char	ige(s) none								
18. Supplier's Authorized	Representative)			,			·		
Name		Signature	\sim		Title	_			Date	•
Q1C44RO 5.	Augen	6251	Com-		6	1050	CT MANA	cen	. 6	5/5/09
*19. Bechtel Engineering	Action									
Accepted E	Engineering	Drawing	Change	B	Bechte	1	Supplier	Lice	ensing D	oc. Changes
 	Follow-up	Spec/Re	q. Change	E	Sechte		Supplier	Pric	æ Adjus	tment
		├ ──┤ `	ppliers Affec				Other			
*20. Bechtel Disposition		~ ()	(Attach extr				necessary).	Yes		□No
SEE VAGE *21. Bechtel Disposition			ate	22. Supp		0			Date	
RE 1home	: a //	<u> </u>	117/09		-		215CENZO	`	_	3.09
Checker EGS		HM (11/109		_		PRTP41 uality Representati		Date	
PE LOC	The s	6	17-0	7	N	7a				
SDDR Documer	nt – attach	ment 6 Pa	aes	\	,			DCI	N# TL	JR781
		7	1-4	6.	16	5-0	9	_ •		

Bechtel Confidential @ Bechtel 2007. All rights reserved.

PAGE 1 of 8

Rev. 1

FPL COL PROJECT - Turkey Point

MACTEC Project No. 6468-07-1950

NCR TP 41 Nonconformance and Corrective Action Report	
Organization: MACTEC Engineering and Consulting	Location: Raleigh
Reported By: William S. Grimes	Date: 5/20/2009
Nonconformance	
Description of Nonconformance: During review of the bicarbonate and carbonate al results (SM18 2320 B), it was noted that the summation of the bicarbonate and carbo reported total alkalinity results for seven of the twelve samples. TestAmerica inform these samples were not valid.	onate values were significantly lower than the
Representative Notified: Al Tice	
	Action Plan Due: 5/20/2009
Description of Evaluation to Determine Root Cause: MACTEC Senior Scientists rethat seven of the Total Alkalinity results did not agree with the summation of the bic information from TestAmerica that the bicarbonate results were erroneous, MACTE condition. TestAmerica reported that the test results manually entered into the report from the pH 4.5 column of the bench sheet as opposed to the bicarbonate result column.	viewed the laboratory test reports and concluded arbonate and carbonate results. Upon receiving C requested that TestAmerica evaluate this t generation software were inadvertently copied
Assignable Cause: The assignable cause is a data entry error. Additionally, a second conducted.	i level review of the data was not thoroughly
Potential Harm: Based on discussions with the Bechtel, we understand that the prim testing assignment was to support review of specific conductivity data. Therefore, we Bechtel's objective for the assignment. This will be confirmed with formal submittations.	re believe this deviation will not compromise I of an SDDR to cover this NCR.
Description of Corrective Actions (current and to prevent recurrence): MACTEC recurrence a report that describes their investigation, corrective action, and steps to prevent required. TestAmerica reported that the analyst and second level reviewer were both aspects of TestAmerica's QA policies. To prevent recurrence, TestAmerica has more entered into the laboratory LIMs system are highlighted to serve as a reminder as to Estimated Completion Date: 5/28/2009	vent recurrence. No MACTEC corrective action is a letted to the error and re-trained on the critical lifted their spreadsheet such that the columns to be
Recommended disposition of nonconforming items (i.e. reject/dispose, repair, rewor	k, use-as-is) Include technical justification:
Repair - see attached disposition	
10 CFR 21 Notification Required: YES NO	
Signature of Preparer: William. S. Grimes Will. 2-2	Date: 5-18-29
Corrective Action Approval Signature (Principal of Chief Engineer)	Date: 5-2-09 Date: 6-2-09
Corrective Action Closure	
Comments:	409
3 on all	42.1
Approved/Actual Disposition of Nonconforming Items:	<u>K</u>
DECUMENT A SECOND /	Date:
BECHTEL Approval Signature: To be configured with SDDR / MACTEC QAR Approval Signature:	Date: 6/4/09
MACTEC Chief Engineer Signature:	Date: 5/3/49
	DCN: TUR
	-n. : //

FPL COL Project-Turkey Point NCR Form - Page 1 of 16 Jon 6 Hog

SIDDR PAGE 2 28

NCR TP 41 Disposition Statement

Review of the laboratory test data collected from the selected observation wells indicated that the total alkalinity results were significantly greater than the summation of the bicarbonate and carbonate alkalinity results for the groundwater samples collected from observation wells OW-606L, OW-606U, OW-621U, OW-706L, OW-706U, OW-721L, and OW-721U. After being informed of this condition, TestAmerica reported that the bicarbonate alkalinity results were in error and conducted an investigation.

Through their investigation, TestAmerica identified that a data entry error had occurred during the transfer of the data from the laboratory bench sheets to the LIMs system used for data report preparation. The analyst had apparently transferred the results from the pH 4.5 column into the reporting software as opposed to transferring to bicarbonate results. Additionally, TestAmerica identified that the second level data review was not thoroughly conducted for the two sample lots affected. TestAmerica reported that the analyst and second-level reviewer were alerted to this error, and were re-trained in the critical aspects of TestAmerica's Qulaity Assurance policies. To prevent recurrence, TestAmerica reported that they have modified the bench sheets such that the columns of data that are transferred to the LIMs system are highlighted to remind analysts to import the correct data. A copy of TestAmerica's Non-Conformance Report is attached.

Based on these findings, TestAmerica issued revised laboratory test reports for those two sample lots. MACTEC has reviewed these reports and accepted the revised bicarbonate alkalinity results. MACTEC has revised Table 5.3 "Summary of Groundwater Test Results" that was included in the Final Data Report Revision 2 10-6-2008. A copy of this table is attached.

MACTEC's recommended disposition of the bicarbonate alkalinity data is to repair the data to include the revisions made by TestAmerica. The revised data, as shown on the attached table, is released as project data.

DCN# TUR781

SDAR PAGE 3 of 8





TestAmerica Laboratories, Inc.

Non-Conformance Report: Alkalinity (Lot F8E300223, F8E290268)

The alkalinity data was incorrectly reported for Lots F8E290268 and F8E300223. The client notified the lab that in both reports, the total alkalinity results were much higher than the summation of Alkalinity-bicarbonate and Alkalinity-carbonate results. The sample duplicate results were outside (high) of the QC limits for total alkalinity. All other method QC samples were within acceptance criteria.

Review of the data shows an error in transcribing the results from the bench sheet to the laboratory's LIM system. The results manually entered into the report generation software were inadvertently taken from the pH 4.5 column on the spreadsheet, instead of from the bicarbonate results column. (See attached bench sheet) No calculation errors were found, and no changes to the raw data are required.

A second, or peer, review of the data is a requirement of the TestAmerica St. Louis QA program. This review includes a comparison of the data on the spreadsheet to the data entered into the LIMs system. In this instance, the second level review was not thoroughly conducted. We recognize the importance of providing accurate results, the analyst and the second level reviewer have been made aware of the issue and re-trained on the key aspects of our process. QA will monitor the process to ensure compliance.

To determine the extent of the error and to determine if it is systematic, QA reviewed sets of alkalinity data before and after this occurrence. No other instances were identified, indicating that the error is isolated and not indicative of the process. No systematic deficiencies were noted. To prevent further occurrences, the spreadsheet is being updated to highlight the columns that are to be used to enter data into the LIMs system. This will act as a reminder as to which data is to be reported.

TestAmerica St. Louis apologizes for any inconvenience caused by this error. If you have any questions, or require additional information, please contact me at (314) 298-8566 or marti.ward@testamericainc.com.

Regards,

Marti Ward

Quality Assurance Manager

TestAmerica St. Louis

13715 Rider Trail North Earth City, MO 63045 tel 314.298.8566 fax 314.298.8757 www.testameri**可吃**种了UR781

3/6

SDDR PAGE 4.

		ACHTERICAL STREET	OST COMMA	in referen			Alkali		it Cilifitation nod 310.1)	Hypory	•	Mark Ta	x.FF.		•	•
Analyst.	300			;	Titrent			٠.	٠.				·			
	815405°		62 545	Y063	Normalli	ty (N)	0.	0200 ·	. :		Analysia Date:	6/2/2006	• • •			
	Standard	Surspie Values	Londonto Volume	Yikmed Volume	Sample	Titmot V	okarne, co	(Nage. 50	Attentionly, Yorks		rigft.	Allestaty so	CPCO ³ .	mg/l-		
aboratary (C	ung/t.	mL (Norn. SOmi)	Di water (Nors. 100mQ	Ini. (Necs. SOme)	pH	pH 4.5		2.5.Hq	Total pH 4.5	LowpH4.2	Phonyl pří 8.8	Oarbonale	Bloerbonate	Hydrodda	Recovery %	RPD %
CXAK		.50		60	6,86	8,86			177.00		0.00	0,80	177.00			
that .		50		80	7.05	8.2			164.00		E.GO	0.50	184.00			
ia.JD		50		88	7.12	9			180.00		9.00	0.00	180.00			
OUR		50		80	7.22	7.78			185,00		8.00	0.00	165.00		├	
TLE		50		50 80	7,81	10.2	-		204,00		9.00	0.00	204.00		 	
R/V		8D		80	7.34	9.55	-		191,00	-	0.00	0.00	191.00		 	
KJI KJ2		80		50	7,38	9,48	-		180,00		3.00	0.00	189.00			
6.128		ᇑ		80	142	13.P8			279.0C		9.00	0.00	279.00		1	
65.2X		80			7.31	4.3			188.00		0.00	0,00	186.00			12.0%
		-							AVALUE		AVALUE	#VALUET	₩	SVALUE		
									#VALUE		PARLUE	#VALLE	₽VALUE	#VALUE		
									(PAALUARI)		PVALUE	PVALUE!	PVALUE	#MALUE		
									MALUE		PVALUE	WALLE	#VALUE	AALUE		
									AVALUE		SAALUE)	MALUE	PVALUE	#VALUE:	 	
									SAMLURE SAALLER		SALUE!	#VALUE:	#VALUE	SVALUE SVALUE	 	
	-								AMLUE		AVALUE:	WALLE	PVALUE	AVALUE	├	
						·			PANLUE		WALLE	SVALUE!	PYALUEL	#VALUED	 	
						· ·			WALLE		MALUE	PALLES	PALUE	AVALUE	 	
						<u> </u>			SVALUE		(A/ALLIE)	#VALUE	#VALUE	SVALUE		
									EVALUE		WALUE	#VALUE	#VALUE!	WALUE		
		1							INALUE		#VALUE!	EVALUE	#VALUE!	#VALUE		
									AVALUE		#VALUE!	VALUE	#VALUE!	MALUE		
ontrol Limits (i ontrol Limits (i Total Abelini	Valer): M	3 = 50 - 12 - <u>y</u>	1 RPD 20% mn1 X N X 60	i		L	k		SOP STL-WC-0018	Rev 7	Date 10/23/2007	F11300	797 200,22		 	
		7	imited Vol., n	•												
icial Alkalinity,		_		(gH 4.51)-m(Q							•					

abort/16/VelChemResulls/Alkalinhy.xis, modified 11/16/06

DCN# TUR781

4/6

500R PAGE 5088

Lims Data Entry Print Out

				Lims Dolo	ibutty tring	F Dot				
1	PDE115			TestAn Inor QC	erica Laboratori yanica Batch Rev Batch 8154062	es, Inc. lew			Date Time	6/02/2008 12:33:33
1	Method Code	:UK Allcal	indty, Bica	rbonate (310	.1)			, 		
	Housk Oxder	Pesult 179	Units ng/s	_ LDL/Dil	Prep lmal. 05/02/08	Solida Solida	1 3/5 1 3/5	Rounded Or Result	tout 1006	Dil.
	CKKEK-1-AJ	177	mg/L	5	06/02/08	-00	N	177	5.0	1.00
1	Q12X8-1-A3	91	mg/L	5	05/02/08	.00	n	91.0	5.0	1.00
1	072LJ-1-AB	72	mg/L	5	06/02/08	.00	x	71.0	5.0	1.00
3	0831J-1-HK	73	mg/L	5	06/02/08	.00	x	73.0	5.0	1.00
1	DIZLW-1-AE	55	mg/L	5	06/02/09	.00	X	\$5.0	5.0	1-00
1	DESTA-1-W	52	wg/L	5	06/02/08	.08	×	B2.0	5.0	1.00
1	W2#J-1-A3	51	mg/L	5	06/02/08	.00	H	£1.0	S .0	1.00
1	17236J-1-G7	50	mg/L	5	06/02/08	.00	×	50.0	5.0	1.00
1	2012 PX-1-AB	56	ng/L	5	06/02/08	-00	N	56.0	5.0	1.00
1	(H2P2-1-AF	55	mg/L	5	06/02/08	-00	X	55.0	5.0	1.00
1	minj-1-aj	8.2	mg/L ·	5	06/02/08	-00	ж .	8.2	5.0	1.00
1	DN3JD-1-AJ	9	mg/L	5	06/02/08	-00	n	9.0	5.0	1.00
1	013JR-1-AJ	7.75	mg/L	5	06/02/08	.00	X.	7.8	5.0	1.00
1	Qf3JT-1 -1 J	8.25	mg/L	5	06/02/08	-00	M	8.2	5.0	1.00
1	0F46H-1-A2	76	mg/L'	5	06/02/08	.00	x	76.0	5.0	1.00
3	014 6N-1-DK	78	ng/L	S	06/02/08	-00	M	78.0	5.0	1.00
3	M47P-1-AD	55	mg/L	5	06/02/88	-00)a	55.0·	5.0	1.00
1	Dye-1-Vebro	20 2	wg/L	5 .	06/02/08	-00	M	10.2	5.0	1.00
1	msji-1-am	9.5	wg/L	5 .	06/02/08	.00	M	9.6	5.0	1.00
1	DRSJ2-1-AM	9.45	mg/L	5	06/02/08	-00	N	9.4	5.0	1.00
1	XX5J2-1-A5	9.3	mg/L	5	06/02/08	-00	n	9.3	5.0	1.00
٠,	ea-l-nwom	52	-mg/L	5	06/02/08	.00	N	52.0	5.0	1.00
1	KN6XA-1-AB	79	mg/L	5	06/02/08 .	.00	n	79.0	5.0	1.00
1	(N63091 AR	121	mor/L	s	06/02/08	.00	100	121	5.0	1.00

is is

DCN# TUR781

5/6

SDDR PAGE: 6 of 8

Table 5.3 SUMMARY OF GROUNDWATER TEST RESULTS TURKEY POINT COL PROJECT MACTEC PROJECT NO. 448-07-1950

Analytical Method -		166.1				600	29C						30	6.0			310.1 - A	calluity	SM 18 2320B	359.1	SM18 1030F & AFI
Constituent >		TDS	Calcium	Iron	Magnesium			Silica	Silicon	Sodium	Bromide	Chloride	Fluoride	Sulfate	Nitrate	Nitrite	Bicarbonete	Carbonete	Total Alkalinity	Ammonia*	Ion Balance Difference
Well ID	Date Collected	mg/L			,		/L						m	/L			ng.	/L	mg/L	μg/L	%
																				,	,
OW-606L	5/28/2008	49100	632,000 N	<00U	1,880,000 N	39.1	549,000 N	2,630	<250,000 N	15,100,000 N	62.5	29,600	<20.0	3,860	40.20	200	165	\$.0	165	1,580	3.2
DW-606U	5/28/2008	43100 ^R	535,000 N	318 NB	1,730,000 N	35.4	525,000 N	729	<250,000 N	14,400,000 N	56.6	27,900	∠2 0.0	3,470	<0.20	<200	155	40	155	844	2.7
OW-621L	6/4/2008	52800 ⁸	574,000 N	<50.000 N	1.960.000 N	<2,000 N	586,000 N	133,000 IB	62,100 JBN	16,300,000 N	65.9	31,300 B	<20.0	3,610	<0.20	<200	181	₹5.0	181	1,300	2.8
OW-621U	5/29/2008	19400 ^R	492,000 N	453 NB	1.600,000 N	36.8	476,000 N	637	<250,000 N	13,100,000 N	50.6	25,500	₹1.0	3,210	<4.0	<200	189	₹5.0	189	588	2.7
OW-706L	5/29/2008	17400°	413,000 N	531 NB	1.170.000 N	8.3	327,000 N	7.560	<250,000 N	9,440,000 N	37.7 J	19,100	<1.0	2,280	<4.0	<200	191	45.0	191	611	4.0
OW-706U	5/29/2008	40500 [®]	725,000 N	178 NB	2.150,000 N	43.5	658,000 N	1,840	<250,000 N	17,500,000 N	70.5	33,300	<1.0	3,850	<4.0	<200	204	<5.0	204	2,090	1.1
OW-721L	5/28/2008	54600 ^R	667.000 N	362 NB	2.020.000 N	46.2	587,000 N	3,170		16,300,000 N	64.9	31,100	<20.0	3,990	<0.20	200	180	ර.0	180	1,820	1.7
OW-721U	5/28/2008	45400 ^R	603,000 N	329 NB	1.890,000 N	58.1	569,000 N	848		15,400,000 N	60.1	29,900	<20.0	3.860	<0.20	<200	164	⋖.0	164	1,680	2.8
OW-735U	5/27/2008	40.200 ¹⁰	749,000 N	133 NB	2.140.000 N	32.7	655,000 N	<250	<250,000 N		267	37,500	<20.0	4.090	c4.0	<200	179	4.0	179	2,150	6.7
					1.980.000 N	2.000 N	586,000 N	143,000 J		16,400,000 N	65.1	31.600 B	<20.0	3,720	<0.20	<200	178	3.0	178	1,400	3.0
OW-802U	6/5/2.006	53900 ^x	579,000 N	<50,000 N											<0.20	<200	177	<5.0	177	548	6.9
OW-805U	6/5/2008	45700°	447,000 N	<50,000 N	i 1,570,000 N	<2,000 N	493,000 N	107,000 3		13,200,000 N		27,600 B	₹0.0	3,070							
O₩-809U	5/27/2008	34,800 ^{IK}	704,000 N	158 NB	2,040,000 N	28.I	607,000 N	<250	250,000 N	16,700,000 N	241 J	35,900	<1.0	4,050	<0.0	∠200	177	40	177	2,210	7.4

* = Test conducted on Nitrogen, as Ammonia.

< # = Indicates analyte not desected at or above the method detection limit.

<000 = Indicates smallyte detected in the associated method blank at a concentration between the method desection limit and quantization limit. Based on EPA 540-R-04-04, this result has been flagged as "non-detect" at the quantization limit.

N = Spiled analyte recovery is outside stated control limits. Method performance confirmed using Laboratory Control Spiles sample results.

I = Estimated result. Result is less than the reporting limit.

B = Method blank contamination. The associated method blank contains the rarget analyze at a reportable level. These data should be used with caution.

1 = Because the initial results exceeded the SOP limits for this test, the samples were dileted and re-analyzed. Re-analysis was conducted out of hold time.

Because the tender result has been rejected during data review process (see Section 5.5 for discussion). These results are not considered valid and should not be used.

repared by: USC-

Po44-2:31

Checked by: <u>CBS</u>

Des: 5/22/09

Thee

728

MACTEC Engineering and Constiting, Inc. Rainigh, NC

Supplier Deviation Disposition Request (Continuation Sheet)

Bechtel SDDR No. 25409-102-YD4-CY00-00077

20. Bechtel Disposition Statement

This SDDR addresses MACTEC NCR TP 41 regarding the bicarbonate alkalinity laboratory test results for groundwater sample from observation wells OW-606L, OW-606U, OW-621U, OW-706L, OW-706U, OW-721L, and OW-721U. The reported total alkalinity results were much higher than the summation of alkalinity-bicarbonate and alkalinity-carbonate results.

Bechtel concurs with the corrective actions taken:

- MACTEC notified the analytical laboratory (TestAmerica), which after review of the data identified that a data entry error had occurred during transfer of the data from the laboratory bench sheets to the LIMs system used for report preparation. No calculation errors were found, and no changes in the raw data were required.
- TestAmerica, in order to prevent a recurrence of this problem, retrained their analysts in the critical aspects of TestAmerica's Quality Assurance policies and modified data sheets to highlight columns of data that are transferred to the LIMs system as a reminder to the analysts to import the correct data.
- TestAmerica issued revised laboratory test reports to MACTEC.
- MACTEC QA reviewed these reports and accepted the revised bicarbonate alkalinity results and revised Table 5.3 "Summary of Groundwater Test Results" included in the Final Data Report Revision 2 10-6-2008.

Bechtel concurs with the proposed disposition of **REPAIR** the data to include the revisions made by TestAmerica.

Sheet 70f 7



DOCUMENTATION OF TECHNICAL REVIEW SUBCONTRACTOR WORK PRODUCT

Project Name: Turkey Point COL Project Project Number: 6468-07-1950 Project Manager: Scott Auger Project Principal: Tom McDaniel The report described below has been prepared by the named subcontractor retained in accordance with the MACTEC QAPD. The work and report have been reviewed by a MACTEC technically qualified person. Comments on the work or report, if any, have been satisfactorily addressed by the subcontractor. The attached report is approved in accordance with section QS-7 of MACTEC's QAPD. The information and data contained in the attached report are hereby released by MACTEC for project use. REPORT: Analytical Report Lot #: F8F050344 rev1 SUBCONTRACTOR: TestAmerica, Earth City, MO DATE OF ACCEPTANCE: 7/23/2008 TECHNICAL REVIEWER: William S. Grimes PROJECT PRINCIPAL: Tom McDaniel



LABORATORY DATA REVIEW CHECKLIST

Client Bechtel Power Corp. Laboratory TestAmerica Inc.

MACTEC Project <u>6468-07-1950</u> Data Report Number/Date <u>Lot# F8F050344 rev1/7-9-08</u>

NO

YES

NOT

APPLICABLE

1.	Laboratory analytical data report appears complete (all data results present for all samples submitted for analysis) and there are no apparent transcription errors:	<u>✓</u>			
2.	Samples analyzed within applicable holding times (based on date of sample collection):*	<u>✓</u>			
3.	Trip blanks, field blanks or laboratory method blanks are free of blank contamination:		<u>✓¹</u>		
4.	If field duplicate samples collected, calculated results meet Relative Percent Difference guidelines: **			<u>✓</u>	
5.	Surrogate recoveries (organic analyses only) within laboratory reported recovery acceptance ranges:			<u>✓</u>	
6.	If Matrix Spike/Matrix Spike Duplicate (MS/MSD) samples required to meet project objectives, Percent Recoveries (%R) and Relative Percent Difference (RPD) within laboratory reported acceptance ranges:		<u>√²</u>		
7.	Reported detection limits meet project objectives (e.g., are capable of achieving applicable site standards):	<u>√</u>			
8.	Completed Chain-Of-Custody received noting sample/custody seal condition (with airbill, if appropriate):	<u>✓</u>			
9.	Analytical costs within authorized budget for these services:			<u>✓</u>	
Notes:	COMMENTS: ¹ Estimated concentrations of silica, silicon, and chloride were detected in the method blank, at concentrations analytes in site samples were considerably higher, and likely reflect ambient aquifer conditions. ² MS/MSD recover due to matrix interference. QC established based on acceptable LCS recoveries and results for analytes with acceptable reflects the intended for use with the laboratory reporting formats typical of most projects. If "no" is answere through 7, a more detailed Data Validation may be required, and a person knowledgeable in Data Validation protocols used if the project scope requires Data Validation from the onset.	rics were ou ecoveries. ed to one or	tside QC limits	for several analytes ove checklist questi	possibly
	2. * = Based upon EPA Guidance and the applicable analytical method references. See reverse side of checklist for	details.			
	3. ** = Based upon EPA Guidance. Use these criteria on duplicate and sample results which exceed five times the redetails. Checked by: 4. 4. Date: 7-14-08	ported detec	ction limit. See	reverse side of chee	eklist for



ANALYTICAL REPORT

REVISED

PROJECT NO. 6468071950

FPL Turkey Point COL

Lot #: F8F050344

Al Tice

MACTEC Engineering and Cons. 3301 Atlantic Ave. Raleigh, NC 27604

TESTAMERICA LABORATORIES, INC.

Ivan Vania Project Manager

July 9, 2008

Case Narrative LOT NUMBER: F8F050344 – Revision 1

This report contains the analytical results for the sample received under chain of custody by TestAmerica St. Louis on June 5, 2008. This sample is associated with your FPL Turkey Point COL project.

The analytical results included in this report meet all applicable quality control procedure requirements except as noted on the following page.

The test results in this report meet all NELAP requirements for parameters in which accreditations are held by TestAmerica St. Louis. Any exceptions to NELAP requirements are noted in the case narrative. The case narrative is an integral part of this report.

All chemical analysis results are based upon sample as received, wet weight, unless noted otherwise. All radiochemistry results are based upon sample as dried and ground with the exception of tritium, unless requested wet weight by the client.

This revision contains results for TDS analysis and corrections to flags for ion balance.

Observations/Nonconformances

Reference the chain of custody and condition upon receipt report for any variations on receipt conditions and temperature of samples on receipt.

ICP-MS (SW846-6020)

The MS (MSD) recoveries for batch 8168278 - calcium, potassium, magnesium, sodium, silicon are outside the established QC limits. The analyte concentrations in the original sample are greater than four times the amount spiked, making percent recovery information ineffective. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8F050344 (1): OW-6211

The MS (MSD) recoveries for batch 8168278 – iron are outside the established QC limits. The RPD is within method acceptance criteria indicating possible matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8F050344 (1): OW-6211

The MS (MSD) recoveries for batch 8164260 - manganese are outside the established QC limits due to matrix interference. Method performance is demonstrated by acceptable LCS recovery.

Affected Samples:

F8F050344 (1): OW-6211

Batch 8168278:

The samples were analyzed at a dilution due to high concentrations of target analytes. The reporting limits were adjusted for the dilution since no analysis at a lesser dilution was performed.

Affected Samples:

F8F050344 (1): OW-6211

Batch 8168278:

The serial dilution for calcium is outside of method acceptance criteria indicating a potential matrix interference. All associated samples are flagged accordingly.

Affected Samples:

F8F050344 (1): OW-6211

There were no other nonconformances or observations noted with any analysis on this lot.

METHODS SUMMARY

F8F050344

PARAMETER	ANALYTICAL METHOD	PREPARATION METHOD
pH Aqueous	SW846 9040	SW846 9040
Alkalinity, Total	SM18 2320 B	SM18 2320 B
Bicarbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Bromide	MCAWW 300.0A	MCAWW 300.0A
Carbonate Alkalinity	MCAWW 310.1	MCAWW 310.1
Chloride	MCAWW 300.0A	MCAWW 300.0A
Filterable Residue (TDS)	MCAWW 160.1	MCAWW 160.1
Fluoride	MCAWW 300.0A	MCAWW 300.0A
Ion Balance (%Difference)	SM18 1030F & AP	SM18 1030F & AP
ICP-MS (6020)	SW846 6020	
Nitrate as N	MCAWW 300.0A	MCAWW 300.0A
Nitrite as N	MCAWW 300.0A	MCAWW 300.0A
Nitrogen, Ammonia	MCAWW 350.1	MCAWW 350.1
Sulfate	MCAWW 300.0A	MCAWW 300.0A

References:

MCAWW	"Methods for Chemical Analysis of Water and Wastes", EPA-600/4-79-020, March 1983 and subsequent revisions.	
SM18	"Standard Methods for the Examination of Water and Wastewater", 18th Edition, 1992.	
SW846	"Test Methods for Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 and its updates.	٠.

SAMPLE SUMMARY

F8F050344

<u>wo #</u>	SAMPLE#	CLIENT SAMPLE ID	DATE	SAMP TIME
KPF63	001	OW-6211	06/04/08	14:20

NOTE(S):

- The analytical results of the samples listed above are presented on the following pages.
- All calculations are performed before rounding to avoid round-off errors in calculated results.
- Results noted as "ND" were not detected at or above the stated limit.
- This report must not be reproduced, except in full, without the written approval of the laboratory.
- Results for the following parameters are never reported on a dry weight basis: color, corrosivity, density, flashpoint, ignitability, layers, odor, paint filter test, pH, porosity pressure, reactivity, redox potential, specific gravity, spot tests, solids, solubility, temperature, viscosity, and weight.

MACTEC Engineering & Consulting Inc

Client Sample ID: OW-6211

TOTAL Metals

Lot-Sample # Date Sampled			eceived.	.: 06/05/0)8	Matrix:	WATER.
		REPORTING				PREPARATION-	WORK
PARAMETER	RESULT	LIMIT	UNITS	METHOI)	ANALYSIS DATE	ORDER #
Prep Batch #	: 8168278					•	
Calcium	574000 N	100000	ug/L	SW846	6020	06/16-06/25/08	KPF631AD
		Dilution Facto	or: 1000	Analysis	Time: 17:38		
Iron	ND N	50000	ug/L	SW846	6020	06/16-06/25/08	KPF631AE
·		Dilution Facto	r: 1000	Analysis	Time: 17:38		
Potassium	586000 N	100000	ug/L	SW846	6020	06/16-06/25/08	KPF631AF
		Dilution Facto	or: 1000	Analysis	Time: 17:38		
Magnesium	1960000 N	50000	ug/L	·		06/16-06/25/08	KPF631AG
		Dilution Facto	r: 1000	Analysis	Time: 17:38		
Manganese	ND N	2000	ug/L	SW846	6020	06/16-06/25/08	KPF631AH
		Dilution Facto	r: 1000	Analysis	Time: 17:38		
Sodium	16300000 N	500 00	ug/L	SW846	6020	06/16-06/25/08	KPF631AJ
		Dilution Facto	r: 1000	Analysis	Time: 17:38		
Silicon	62100 BN	250000	ug/L	SW846	6020	06/16-06/25/08	KPF631AK
		Dilution Facto	or: 1000	Analysis	Time: 17:38		
•				•			
Prep Batch #					•		
Silica	133000 J,B	250000	ug/L	SW846		06/16-06/25/08	KPF631AL
		Dilution Facto	or: 1000 ·	Analysis	Time: 17:38	•	

NOTE(S):

N Spiked analyte recovery is outside stated control limits.

J Estimated result. Result is less than RL.

B The associated method blank contains thetarget analyte at a reportable level.

MACTEC Engineering & Consulting Inc

Client Sample ID: OW-6211

General Chemistry

Lot-Sample #...: F8F050344-001 Work Order #...: KPF63
Date Sampled...: 06/04/08 14:20 Date Received..: 06/05/08

Matrix.... WATER

•	•					PREPARATION-	PREP
PARAMETER	RESULT	RL_	UNITS	METHO	D	ANALYSIS DATE	BATCH #
pH (liquid)	7.2	0.10	No Units	SW846	9040	06/05/08	8158106
		Dilution Fact	or: 1	Analysis	Time: 00:00		
Bicarbonate Alkalinity	181	5.0	mg/L	MCAWW	310.1	06/10/08	8161269
-		Dilution Fact	or: 1	Analysis	Time: 00:00		
Bromide	65.9	50.0	mg/L		300.0A	06/05/08	8175487
	•	Dilution Fact	or: 200	Analysis	Time: 08:25		
Carbonate Alkalinity	ND	5.0	mg/L		310.1	06/10/08	8161267
		Dilution Fact	or: 1	Analysis	Time: 00:00		
Chloride	31300	J 2000	mg/L	MCAWW	300.0A	06/05/08	8175488
		Dilution Factor	or: 10000	Analysis	Time: 08:49	· ·	
Fluoride	ND	20.0	mg/L	· MCAWW	300.0A	06/05/08	8175489
		Dilution Fact	or: 200	Analysis	Time: 08:25		
Ion Balance Difference	2.8	0.10	*	SM18	1030F & API	07/01/08	8183319
		Dilution Fact	or: 1	Analysis	Time: 00:00		
Nitrate	ND	0.20	mg/L		300.0A	06/05/08	8158391
		Dilution Fact	or: 10	Analysis	Time: 08:13		
Nitrite	ND	200	mg/L	MCAWW	300.0A	06/05/08	8158392
		Dilution Fact	or: 10000	Analysis	Time: 08:49		•
Nitrogen, as Ammonia	1300	100	ug/L		350.1	06/06/08	8156506
		Dilution Fact	or: 2	Analysis	Time: 00:00		
Sulfate	3610	500	mg/L	MCAWW	300.0A	06/05/08	8175490
		Dilution Fact	or: 1000	Analysis	Time: 08:37		
Total Alkalinity	181	5.0	mg/L	SM18	2320 B	06/10/08	8161265
		Dilution Fact	or: 1	Analysis	Time: 00:00		
Total Dissolved Solids	52800	500	mg/L	MCAWW	160.1	06/11-06/12/08	8163486
		Dilution Fact	or: 100	Analysis	Time: 00:00		

NOTE(S):

RL Reporting Limit

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

METHOD BLANK REPORT

TOTAL Metals

			11004110	•	
Client Lot #	: F8F05034	4		Matrix WA	TER
PARAMETER	RESULT	REPORTING LIMIT UNI	is method	PREPARATION- ANALYSIS DATE	WORK ORDER #
MR Lot-Sample	- #- F8F16000	0-278 Prep Batch	¥= 8168278	•	
Calcium	ND B	100 ug/l Dilution Factor: 1 Analysis Time: 17	L SW846 602	0 06/16-06/25/08	KP13D1AA
Iron	ND	50 ug/l Dilution Factor: 1 Analysis Time: 17	•	06/16-06/25/08	KP13D1AC
Magnesium	ND .	50 ug/l Dilution Factor: 1 Analysis Time: 17		06/16-06/25/08	KP13D1AE
Manganese	ND	2 ug/l Dilution Factor: 1 Analysis Time: 17		0 06/16-06/25/08	KP13D1AF
Potassium	ND	100 ug/l Dilution Factor: 1 Analysis Time: 17	•	0 06/16-06/25/08	KP13D1AD
Silicon	67.1 B	250 ug/l Dilution Factor: 1 Analysis Time: 17		06/16-06/25/08	KP13D1AH
Sodium	ND -	50 ug/l Dilution Factor: 1 Analysis Time: 17		0 06/16-06/25/08	KP13D1AG
•					
MB Lot-Sample	e #: F8F23000	0-115 Prep Batch	#: 8175115		
Silica	144 J	250 ug/1 Dilution Pactor: 1 Analysis Time: 17	L SW846 602	0 06/16-06/25/08	KQL7H1AA

MOTTE (S)

B Estimated result. Result is less than RL.

METHOD BLANK REPORT

General Chemistry

Client Lot #: F8F050344			Matr	Matrix WATER				
PARAMETER	RESULT	REPORTING LIMIT UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #			
Bicarbonate Alkalinity			.AA MB Lot-Sample #:		<u> </u>			
	ND	5.0 mg/L Dilution Factor: 1 Analysis Time: 00:00	MCAWW 310.1	06/10/08	8161269			
Bromide	ND	Work Order #: KQG151 0.25 mg/L Dilution Factor: 1 Analysis Time: 07:51	.AA MB Lot-Sample #: MCAWW 300.0A	F8F230000-487 06/05/08	8175487			
Carbonate Alkali	nity ND	Work Order #: KPLCR1 5.0 mg/L Dilution Factor: 1 Analysis Time: 00:00	AA MB Lot-Sample #: MCAWW 310.1	F8F090000-267 06/10/08	8161267			
Chloride	0.026 B	0.20 mg/L Dilution Factor: 1	AA MB Lot-Sample #: MCAWW 300.0A	F8F230000-488 06/05/08	8175488			
Fluoride	ND	Analysis Time: 07:51 Work Order #: KQG191 0.10 mg/L Dilution Factor: 1 Analysis Time: 07:51	.AA MB Lot-Sample #: MCAWW 300.0A	F8F230000-489 06/05/08	8175489			
Nitrate .	ND	Work Order #: KPM9F1 0.020 mg/L Dilution Factor: 1 Analysis Time: 07:51	AA MB Lot-Sample #: MCAWW 300.0A	F8F060000-391 06/05/08	8158391			
Nitrite	ND	Work Order #: KPM9K1 0.020 mg/L Dilution Factor: 1 Analysis Time: 07:51	AA MB Lot-Sample #: MCAWW 300.0A	F8F060000-392 06/05/08	8158392			
Nitrogen, as Amm	onia ND	Work Order #: KPD7C1 50.0 ug/L Dilution Factor: 1 Analysis Time: 00:00	AA MB Lot-Sample #: MCAWW 350.1	F8F040000-506 06/06/08	8156506			
Sulfate	ND	Work Order #: KQG2C1 0.50 mg/L Dilution Factor: 1 Analysis Time: 07:51	AA MB Lot-Sample #: MCAWW 300.0A	F8F230000-490 06/05/08	8175490			

(Continued on next page)

METHOD BLANK REPORT

General Chemistry

Client Lot #...: F8F050344

Matrix..... WATER

PARAMETER	RESULT	REPORTING	UNITS	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Total Alkalinity	ND	Work Order 5.0 Dilution Fact Analysis Time		MB Lot-Sample #: SM18 2320 B	F8F090000-265 06/10/08	8161265
Total Dissolved Solids	. MD	Work Order 5.0 Dilution Fact Analysis Time	mg/L	MB Lot-Sample #: MCAWW 160.1	F8F110000-486	8163486

NOTE(S):

Calculations are performed before rounding to avoid round-off errors in calculated results.

B Estimated result. Result is less than RL.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

TOTAL Metals

F8F050344				Matrix	: WATER
				PREPARATION-	MODIC ODDED #
RECOVERY	LIMITS	METHOD		ANALYSIS DATE	WORK ORDER #
F8F160000-	278 Prep Ba	tch #:	8168278		
104					KP13D1AJ
	Dilution Facto	or: 1	Analysis	Time: 17:34	
107	(85 - 115)	SW846 60	20	06/16-06/25/08	KP13D1AK
105					KP13D1AL
	Dilucion Facto	or: 1	Analysis	Time: 17:34	
102	(85 - 115)	SW846 602	20	06/16-06/25/08	KP13D1AM
	Dilution Facto	or: 1	Analysis	Time: 17:34	
110	/0E = 11E\	OMOVE EU	20	06/16-06/25/08	Whi and an
. 					REISDIAN
102	(85 - 115)	SW846 60	20	06/16-06/25/08	KP13D1AP
	Dilution Facto	or: 1	Analysis	Time: 17:34	
113	(85 - 115)	SW846 60:	20	06/16-06/25/08	KP13D1AO
••					_ _
	-				T/OT 5:11 3 6
TT2 N	(0.0 - 0.0)	PMR46 60	20	06/16-06/25/08	KQL/HTAC
	PERCENT RECOVERY F8F160000- 104 107 105 102 112 102 113 F8F230000-	PERCENT RECOVERY RECOVERY LIMITS F8F160000-278 Prep Ba 104 (85 - 115) Dilution Factor 107 (85 - 115) Dilution Factor 105 (85 - 115) Dilution Factor 102 (85 - 115) Dilution Factor 112 (85 - 115) Dilution Factor 113 (85 - 115) Dilution Factor 114 (85 - 115) Dilution Factor 115 (85 - 115) Dilution Factor 117 (85 - 115) Dilution Factor 118 (85 - 115) Dilution Factor 119 (85 - 115) Dilution Factor 110 (85 - 115) Dilution Factor 1111 (85 - 115) Dilution Factor	PERCENT RECOVERY RECOVERY LIMITS METHOD F8F160000-278 Prep Batch #: 104 (85 - 115) SW846 602 Dilution Factor: 1 107 (85 - 115) SW846 602 Dilution Factor: 1 105 (85 - 115) SW846 602 Dilution Factor: 1 102 (85 - 115) SW846 602 Dilution Factor: 1 112 (85 - 115) SW846 602 Dilution Factor: 1 102 (85 - 115) SW846 602 Dilution Factor: 1 113 (85 - 115) SW846 602 Dilution Factor: 1 114 (85 - 115) SW846 602 Dilution Factor: 1 115 (85 - 115) SW846 602 Dilution Factor: 1 116 (85 - 115) SW846 602 Dilution Factor: 1	PERCENT RECOVERY LIMITS METHOD F8F160000-278 Prep Batch #: 8168278 104 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 107 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 105 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 102 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 102 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 103 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis 113 (85 - 115) SW846 6020 Dilution Factor: 1 Analysis F8F230000-115 Prep Batch #: 8175115	PERCENT RECOVERY PREPARATION-ANALYSIS DATE F8F160000-278 Prep Batch #: 8168278 104 (85 - 115) SW846 6020 06/16-06/25/08 Dilution Factor: 1 Analysis Time: 17:34 107 (85 - 115) SW846 6020 06/16-06/25/08 Dilution Factor: 1 Analysis Time: 17:34 105 (85 - 115) SW846 6020 06/16-06/25/08 Dilution Factor: 1 Analysis Time: 17:34 102 (85 - 115) SW846 6020 06/16-06/25/08 Dilution Factor: 1 Analysis Time: 17:34 112 (85 - 115) SW846 6020 06/16-06/25/08 Dilution Factor: 1 Analysis Time: 17:34

NOTE (S):

N Spiked analyte recovery is outside stated control limits.

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Lot-Sample #...: F8F050344

Matrix WATER

	PERCENT	RECOVERY	RPD		PREPARATION-	PREP
PARAMETER	RECOVERY	LIMITS RPD	LIMITS	METHOD	ANALYSIS DATE	BATCH #
Nitrogen, as	Ammonia	WO#: KPD7ClA	C-LCS/KPI	7C1AD-LCSD LCS	Lot-Sample#: F8F0	40000-506
	103	(90 - 110)		MCAWW 350.1	06/06/08	8156506
	100	(90 - 110) 2.7	(0-20)	MCAWW 350.1	06/06/08	8156506
		Dilution Wa	ctor: 1	Analysis Time.	.: 00:00	

NOTE(S):

LABORATORY CONTROL SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #: F8F050344	Matrix WATER

**************************************	PERCENT		EP
PARAMETER	RECOVERY		TCH #
pH (liquid)	100	Work Order #: KPGWD1AA LCS Lot-Sample#: F8F060000-10	
	100	(99 - 101) SW846 9040 06/05/08 81 Dilution Factor: 1 Analysis Time: 00:00	.58106
		Dilution Factor: 1 Analysis Time: 00:00	
Bicarbonate Alkalinity		Work Order #: KPLC11AC LCS Lot-Sample#: F8F090000-26	9 .
ranarinacy	101	(90 - 110) MCAWW 310.1 06/10/08 81	61269
		Dilution Factor: 1 Analysis Time: 00:00	
		principal indication of the pr	
Bromide	•	Work Order #: KQG151AC LCS Lot-Sample#: F8F230000-48	17
<i>520</i>	101	(90 - 110) MCAWW 300.0A 06/05/08 81	
		Dilution Factor: 1 Analysis Time: 07:41	
Carbonate Alkal	inity	Work Order #: KPLCR1AC LCS Lot-Sample#: F8F090000-26	. 7
	101	(90 - 110) MCAWW 310.1 06/10/08 81	
		Dilution Factor: 1 Analysis Time: 00:00	
		•	
Chloride		Work Order #: KQG161AC LCS Lot-Sample#: F8F230000-48	8
	98	(90 - 110) MCAWW 300.0A 06/05/08 81	
		Dilution Factor: 1 Analysis Time: 07:41	
Fluoride	•	Work Order #: KQG191AC LCS Lot-Sample#: F8F230000-48	9
•	99	(90 - 110) MCAWW 300.0A 06/05/08 81	75489
		Dilution Factor: 1 Analysis Time: 07:41	
Nitrate		Work Order #: KPM9F1AC LCS Lot-Sample#: F8F060000-39	
	101	(90 - 110) MCAWW 300.0A 06/05/08 81	.58391
		Dilution Factor: 1 Analysis Time: 07:41	
•			
Nitrite		Work Order #: KPM9K1AC LCS Lot-Sample#: F8F060000-39	
	100	(90 - 110) MCAWW 300.0A 06/05/08 81	.58392
•		Dilution Factor: 1 Analysis Time: 07:41	
Sulfate		Work Order #: KQG2C1AC LCS Lot-Sample#: F8F230000-49	
	95	(90 - 110) MCAWW 300.0A 06/05/08 81	.75490
		Dilution Factor: 1 Analysis Time: 07:41	
Total Alkalinit		Work Order #: KPLCP1AC LCS Lot-Sample#: F8F090000-26	
	101	•••••••••••••••••••••••••••••••••••••••	L61265
		Dilution Factor: 1 Analysis Time: 00:00	

NOTE(S):

MATRIX SPIKE SAMPLE EVALUATION REPORT

TOTAL Metals

Client Lot #...: F8F050344 Matrix....: WATER

Date Sampled...: 06/04/08 14:20 Date Received..: 06/05/08

PARAMETER	PERCENT RECOVERY	RECOVERY RPD LIMITS RPD LIMITS	METHOD	PREPARATION- ANALYSIS DATE	WORK ORDER #
_	e #: F8F05 0 N 0 N	0344-001 Prep Batch # (75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45	SW846 6020 SW846 6020	06/16-06/25/08 06/16-06/25/08	
Iron	0 M	(75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45	SW846 6020 SW846 6020	06/16-06/25/08 06/16-06/25/08	
Magnesium	0 N	(75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45		06/16-06/25/08 06/16-06/25/08	
Manganese	117 130 N	(75 - 125) (75 - 125) 11 (0-20) Dilution Factor: 1000 Analysis Time : 17:45		06/16-06/25/08 06/16-06/25/08	
Potassium	0 N 17 N	(75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45	SW846 6020 SW846 6020	06/16-06/25/08 06/16-06/25/08	
Silicon	85 B 0 N	(75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45	SW846 6020 SW846 6020	06/16-06/25/08 06/16-06/25/08	
Sodium	0 N	(75 - 125) (75 - 125) 0.0 (0-20) Dilution Factor: 1000 Analysis Time: 17:45	SW846 6020 SW846 6020	06/16-06/25/08 06/16-06/25/08	

NOTE (S):

N Spiked analyte recovery is outside stated control limits.

B Estimated result. Result is less than RL.

MATRIX SPIKE SAMPLE EVALUATION REPORT

General Chemistry

Client Lot #...: F8F050344 Matrix..... WATER

Date Sampled...: 06/04/08 14:20 Date Received..: 06/05/08

PARAMETER Bromide	PERCENT RECOVERY 92	RECOVERY PREPARATION - PREP LIMITS METHOD ANALYSIS DATE BATCH # Work Order #: KPF631CP MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8175487 Dilution Factor: 200 Analysis Time: 08:25
Chloride	97	Work Order #: KPF631CR MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8175488 Dilution Factor: 10000 Analysis Time: 08:49
Fluoride	100	Work Order #: KPF631CU MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8175489 Dilution Factor: 200 Analysis Time: 08:25
Nitrate	93	Work Order #: KPF631A2 MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8158391 Dilution Factor: 10 Analysis Time: 08:13
Nitrite	102	Work Order #: KPF631A4 MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8158392 Dilution Factor: 10000 Analysis Time: 08:49
Nitrogen, as Am	monia 96	Work Order #: KPC951C5 MS Lot-Sample #: F8F040293-001 (90 - 110) MCAWW 350.1 06/06/08 8156506 Dilution Factor: 1 Analysis Time: 00:00
Sulfate	100	Work Order #: KPF631CW MS Lot-Sample #: F8F050344-001 (90 - 110) MCAWW 300.0A 06/05/08 8175490 Dilution Factor: 1000 Analysis Time: 08:37
Total Alkalinit	Y 92	Work Order #: KPF631A0 MS Lot-Sample #: F8F050344-001 (80 - 120) SM18 2320 B 06/10/08 8161265 Dilution Factor: 1 Analysis Time: 00:00

NOTE(S):

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8F050344

Work Order #...: KPC95-SMP

Matrix....: WATER

KPC95-DUP

Date Sampled...: 06/02/08 09:46 Date Received..: 06/04/08

PARAM RESULT	DUPLICATE RESULT	UNITS	RPD_	RPD LIMIT	METHOD	PREPARATION- ANALYSIS DATE	PREP BATCH #
Nitrogen, as Ammo	onia				SD Lot-Sample #:	F8F040293-001	
190	160	ug/L	14	(0-20)	MCAWW 350.1	06/06/08	8156506
		Dilution Fac	tor: 1	Ana	alysis Time: 00:00	·	

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8F050344

Work Order #...: KN9V9-SMP

Matrix..... WATER

KN9V9-DUP
Date Sampled...: 06/02/08 07:50 Date Received..: 06/03/08

PARAM RESULT Bicarbonate Alkalinity	DUPLICATE RESULT	UNITS	RPD	RPD LIMIT	METHOD SD Lot-Sample #:	PREPARATION- ANALYSIS DATE F8F030220-002	PREP BATCH #
57.0	56.0	mg/L	1.8	(0-15)	MCAWW 310.1	06/10/08	8161269
		Dilution Fa	ctor: 1	Ana	alysis Time: 00:00		
Carbonate Alkal:	inity				SD Lot-Sample #:	F8F030220-002	
ND	ND	mg/L	0	(0-20)	MCAWW 310.1	06/10/08	8161267
		Dilution Fa	ctor: 1	Ana	alysis Time: 00:00		

SAMPLE DUPLICATE EVALUATION REPORT

General Chemistry

Client Lot #...: F8F050344

Work Order #...: KPF63-SMP

Matrix....: WATER

KPF63-DUP

Date Sampled...: 06/04/08 14:20 Date Received..: 06/05/08

	DUPLICATE	•		RPD		PREPARATION-	PREP
PARAM RESULT	RESULT	UNITS	RPD	LIMIT	METHOD	ANALYSIS DATE	BATCH #
Bromide					SD Lot-Sample #:	F8F050344-001	
65.9	65.0	mg/L	1.5	(0-20)	MCAWW 300.0A	06/05/08	8175487
	•	Dilution Fac	tor: 200	Ana	alysis Time: 08:25		
					*		
Chloride					SD Lot-Sample #:		
31300 J	32900				MCAWW 300.0A	06/05/08	8175488
		Dilution Fac	tor: 100	00 Ana	alysis Time: 08:49		
Fluoride		•			SD Lot-Sample #:	TOTO E 0 2 4 4 0 0 1	
ND	ND	mg/L	Λ.	(0-20)	MCAWW 300.0A		8175489
עואו	ND	_			alysis Time: 08:25		01/5409
		DIIUCION FAC	COI: 200		alysis lime 00:25		
Sulfate	•				SD Lot-Sample #:	F8F050344-001	
3610	3600	mg/L	0.34	(0-20)	MCAWW 300.0A		8175490
	•	Dilution Fac			alysis Time: 08:37	• •	
				,			
Nitrite					SD Lot-Sample #:	F8F050344-001	•
ND	ND	_			MCAWW 300.0A	06/05/08	8158392
•		Dilution Fac	tor: 100	00 Ana	alysis Time: 08:49		
·							
Nitrate			_	(0.00)	SD Lot-Sample #:		
ND	ND				MCAWW 300.0A	06/05/08	8158391
	•	Dilution Pac	tor: 10	Ana	alysis Time: 08:13		
Total Alkalinity					SD Lot-Sample #:	E0E0E0344_001	
181	183	mg/L	7 1	(0-20)	SM18 2320 B		8161265
	103	Dilution Fac			alysis Time: 00:00	00/10/00	0101203
		Dilucion Fac	COL. I	. ALLO	arysis lime 00.00		
pH (liquid)		•			SD Lot-Sample #:	F8F050344-001	
7.2	7.2	No Units	0.0	(0-0.0)	SW846 9040		8158106
		Dilution Fac			alysis Time: 00:00	• •	
					-		

NOTE (S):

J Method blank contamination. The associated method blank contains the target analyte at a reportable level.

F8F050344

CLIENT ANALYSIS SUMMARY

Storage Loc:

1-131-132,M

Project Manager: IV

Quote #: 79192

MACTEC Engineering & Consulting Inc

Date Received:

2008-06-05 2008-06-24

Project:

6468071950

FPL Turkey Point COL

Analytical Due Date:

PO#:

Report Due Date:

2008-06-26

Client:

200807151 63036

Report to: Al Tice

Report Type: W

#SMPS in LOT: 1

EDD Code: 00

Inform PM of any receiving issues.

SA	MPL	E#	CLIE	NT SAMPL	EID	Site ID	Client Matrix	DATE/T	IME SAMPLED	WORKOR	DER	Ţ	_	-
1			OW-62	211				2008-06-0	04 / 1420	KPF63	W	ATER		
SA	MPL	E CC	OMME	VTS:										
F	E	MH	SW846	6020	WATER, 6020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06		
Y	α	МН	SW846	6020	WATER, 6020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06		
ħ	ΙG	МН	SW846	602 0	WATER, 6020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06		
D	ΛN	МН	SWB46	6020	WATER, 8020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06		
ħ	NA.	МН	SW848	6020	WATER, 6020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK	06		
5	ŠΑ	мн	SW846	6020	WATER, Silica by calculation	0X	CALCULATION ONLY	9Q	ORG FLAGS FOR INORG; STANDARD	PROT: A	WRK	06		
. 9	31	МН	SW846	6020	WATER, 6020, Metals	GJ	METALS, TOTAL - 2% HCL	01	STANDARD TEST SET	PROT: A	WRK LOC.	06		
C	CA	МН	SW846	6020	WATER, 6020, Metals	GJ	METALS, TOTAL - 2%	01	STANDARD TEST SET	PROT: A	WRK	.06		•;
٠)	ΚX	ΑK	MCAW	160.1	WATER, 180.1, Solids, Filterable TDS"	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06	•	1
•	¢χ	C8	MCAW	300.0A	WATER, 300.0A, Fluoride	. 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
)	ΚX	C9	MCAW	300.0A	WATER, 300.0A, Nitrate N	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
>	CΧ	СВ	MCAW	310.1	WATER, 310.1; Alkalinity Carbonate	· 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
>	ΚX	СХ	MCAW W	300,0A	WATER, 300.0A, Chloride	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
)	CX	CY	MCAW	300.0A	WATER, 300.0A, Sulfate	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
)	ĊΧ	FJ	SW846	9040	WATER, 9040C, pH	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
. >	CX	GM	MCAW	300,0A	WATER, 300.8A, Bromids	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
)	CX	GO	MCAW	300.0A	WATER, 300.0A, Nibite:	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
)	ΚX	LV	SM18	2320 B	WATER, 2320 B, Alkalin Total	ity, 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	0 6 .		
>	ΚX	SL	SM18	1030F & API	WATER, 1030F & API, le Balance	on OX	CALCULATION	01	STANDARD TEST SET	PROT: A	WRK	06		
,	ΚX	UX	MCAW W		WATER, 310.1, Alkalinity Bicarbonate	r. 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
,	ΚX	VM	MCAW W	350.1	WATER, 350.1, Nitrogen Ammonia	. 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
S	ΚX	C9		A0.00£	WATER, 300.0A, Nitrate N	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
s	CX	GO	MCAW	300.0A	WATER, 300.0A, Nitrite N	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
s	ΧX	LV	SM18	2320 B	WATER, 2320 B, Alkalin Total	ily, 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		
X)	ΚX	C9	MCAW W	300,0A	WATER, 300.0A, Nitrate	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		٤,
X X	XX	FJ	SW846	9040	WATER, 9040C,	88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		1
× 3	XX	GO	MCAW W	300.0A	WATER, 300.0A, Nitrite N	as 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		•
x. ;	XX	LV	SM18	2320 B	WATER, 2320 B, Aikelin Total	ity. 88	NO SAMPLE PREPARATION PERFORMED / DIRECT	01	STANDARD TEST SET	PROT: A	WRK	06		

TestAmerica - St. Louis

Logged in by:

DANIELSB 2008-06-06 7:57:45

printed on: Wednesday, June 11, 2008 03:30 P

Page 1 of 1

rul 3550

Chain of Custody Record

Temperature on Receipt

Test	An	ner	ica

Drinking Water? Yes □ No □ THE LEADER IN ENVIRONMENTAL TESTING TAL-4124 (1007) Chain of Custody Number Project Manager . Client MACTEC 06-04-08 Atlantic Avenue Site Contact Lab Contact Analysis (Attach list if MATT COOPE Ivan Vania more space is needed) Carrier/Waybill Number Project Name and Location (State) FE 8656 Turkey point Col Special Instructions/ Contract/Purchase Order/Quote No. Containers & Conditions of Receipt Matrix Preservatives Sample I.D. No. and Description Date Time (4250 M) 3 CAtino Calcium (Containers for each sample may be combined on one line) Manghesium Manghesium Potassemi, 3 ilicia, Sodium 04/04/08 1420 0W-621L 12H-ERA SWEAL 9045(D) MCAWW 300,0 A Sample Disposal Possible Hazard Identification (A fee may be assessed if samples are retained Bisposal By Lab Archive For Unknown Poison B Return To Client ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant Months longer than 1 month) QC Requirements (Specify) Turn Around Time Required □ Other □ ☐ 7 Days ☐ 14 Days 🔯 21 Days ☐ 24 Hours ☐ 48 Hours 1. Religauished By 1. Received By 0911 num 2. Relinquished 2. Received By Time \ 3. Relinguished By Date Time 3. Received By Time

DISTRIBUTION: WHITE - Returned to Client with Report; CANARY - Stays with the Sample; PINK - Field Copy

20 of 21

Comments

estAme	erica	- 3:	· Lot#(s 550 -	s): <u>'</u>	544 J
HE LEADER IN ENVIRONM	ENTAL TESTING				
1 1		Conditi	ion Upon	. Recei	pt Form //.
ient: Maut	COC/RFA No:		2466		Date: 4/5/06
iote No:	79192 Initiated By:		6/)		Time: '09'5
•	<i>(1</i>	Shipping I	nformat	ion	
ipper Name:	Fe .				Multiple Packages Y (N)
ipping #(s);*	6			•	Sample Temperature (s):***
Bliste 21	6			<u> </u>	
	8.				3. 8.
	9.	·			49.
	10	. ***	·	· ha vaaai	5. 10.
imbered shipping lines	s correspond to Numbered Sample Temp line	s vari	ample mus iance does l	NOT affe	ived at $4^{\circ}C \pm 2^{\circ}C$ - If not, note contents below. Temperature extithe following: Metals-Liquid or Rad tests- Liquid or Solids
ndition (Circle "Y"	for yes, "N" for no and "N/A" for not applic	able):			
N	Are there custody seals present or the cooler?	8.	YN	,	Are there custody seals present on bottles?
	Do custody seals on cooler appear	r to	77 37	A	Do custody seals on bottles appear to be tampered
Y N N/A	be tampered with?	9.	YN		with?
N	Were contents of cooler frisked at	fter 10.	X N	N/A	Was sample received with proper pH?? (If not,
	opening, but before unpacking? Sample received with Chain of				make note below) If N/A- Was pH taken by original TestAmerica
(Y) N	Custody?	11.	YN		lab?
YN N/A	Does the Chain of Custody match	12.	VY N		Sample received in proper containers?
U NA	sample ID's on the container(s)?		<u></u>		
Y N	Was sample received broken?	13.	YN	N/A	Headspace in VOA or TOX liquid samples? (If Yes, note sample ID's below)
$(Y)_N$	Is sample volume sufficient for analysis?	14.	YN		Was Internal COC/Workshare received?
or DOE-AL (Pantex, L	ANL, Sandia) sites, pH of ALL containers i	received must t	e verified,	EXCEPT	TVOA, TOX and soils.
otes:					
	•				
		<u>·</u>			
·	·				
		·			
					
<u> </u>	<u> </u>				
		 		 	·
			 		•
					
	·		·		
		<u>·</u>			
	<u></u>				
	<u> </u>				
		;			
orrective Action:					
Client Contact		Info	rmed by:		
Client Contact? Sample(s) proc	essed "as is"		·	_4! c	
	essed "as is" old until:		leased, n	otify:	6-6-9