HILLSBORO ASR DAILY STATUS REPORTS





Site:	HASR-Palm Beach County	, Florida	Date Rep	orted:	January 4, 2	010
Contractor:	PBS&J / Golder Associate	es Inc. / Hillers	Electrical Engin	eering		
Report Prepared By:	Jon Shaw					
Contractor Proj. No.	C-C13401P-W010					
Section 1: PROJEC	T IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facilit	ty - Operation 8	& Maintenance			
Site Work	Cycle Testing - Recharge	Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMMA	RY OF ACTIVITIES					· .
Met on-site at ~9:30	am. Held a Health & Safety B	riefing in Perso	nnel Bldg. and a	ll personnel	signed in on the	log.
wells with pressure t	t-up data. Set system and varansducers. Fault on a valve contact and all faults were eli	position was tr	roubleshooted. I	Determined	edure for samplir to be faulty switc	ng monitoring th contact on
Monitoring system th	roughout the day and started o	collection of re	charge cycle 1 -	week 1 wat	er quality data.	
Section III: PERSON	NEL ON SITE			REPRESEN	ITING	
Robert Verrastro			SFWMD			
Clayton McMillan		2	SFWMD			
Rick Nevulis		9	SFWMD			
Jon Shaw		(Golder Associate:	i		
Lianne Mofienski-Ran	nos	(Golder Associates	; 		
Bruce Weaver		(Golder Associates	i		
Ed Smith		ŀ	Hillers			
Michael Bennett			AECOM - pressure	transducer	S	
Section IV: KEY RE	ADINGS/CONDITIONS					
Intake Pump Pressure				low	Conductivity	Wellhead Pressure
(PSI)	Filters	UV		GPM)	Umhos/cm	(PSI)
80-86	Backflow pressure <7psi	No issue	es :	3480	938-878	40
	Backflow cycle normal					
Section V: NOTES						
Minor fluctuations in	key readings.					
	ICANT PROBLEM					
	tion of Problem		Re	commenda	tion	201 201 2 200 1
Valve switches are se		Replace va	live switches on i			
Section VII: ACTIO	N LIST					
	item		<u>ag mar estatega esta b</u>	<u> </u>	By Whom	
Send Michael Benneti	access to FTP site			Lianne Rai		
Spray foam under do	or jam to prevent wasps		······	Bruce Wea	ver	
Clear vegetation arou	and Quarry Pit structure			Bruce Wea	iver	

Site:	HASR-Palm Beach County,	Florida	Date Repo	rted:	January 5, 20	010
Contractor:	Golder Associates Inc.		<u> </u>			
Report Prepared By:	Jon Shaw	<u>. </u>				
Contractor Proj. No.	C-C13401P-W010					
Section I: PROJECT	IDENTIFICATION				·	
Project Title	Hillsboro ASR Pilot Facility	- Operation 8	t Maintenance			
Site Work	Cycle Testing - Recharge C	Cycle 1	-			
SFWMD PM	Bob Verrastro	•				
Section II: SUMMAR	RY OF ACTIVITIES					
Arrived on-site at 8:00	am. Reviewed Health & Safe	ty Plan and al	l personnel signe	d in on th	e log.	
	of recharge cycle 1 - week 1 w					
Section III: PERSONI	NEL ON SITE	· · · · · · · · · · · · · · · · · · ·		REPRESE	NTING	
Lianne Mofienski-Ram		G	iolder Associates		<u> </u>	<u> </u>
Bruce Weaver		G	iolder Associates			
Intake Pump Pressure	ADINGS/CONDITIONS	<u>a Baran Paga</u>		low	Conductivity	Wellhead Pressure
(PSI)	Filters	UV	(GPM)	Umhos/cm	(PSI)
84	Backflow pressure <7psi	No issue:	s :	334	802	41
	Backflow cycle normal					
Section V: NOTES				V 3505		
	key readings. Filter flush flow		<u>go willy also taga yan tolati b</u>	_{gue} — munik utuman	Alis or New Segment in the Person Continues of the	ut unique (part, mittless).
	CANT PROBLEM	1000				
<u> </u>		<u>er i Li jeriorako da</u>		commend		<u> 19. Augustus Augus</u>
Valve switches are ser	ion of Problem	Replace va	lve switches on i		acion	
· 1000 40 11 Na 150 45 45						
Section VII: ACTION	ltem	<u>19. arti, 25 r. s.</u>		. + 41 4),41 (<u>1)</u>	By Whom	<u>tudir kerepak</u>
Send Michael Bennett				Lianne R		
	r jam to prevent wasps			Bruce We		
	nd Quarry Pit structure			Bruce We		
						
					·	





Site:	HASR-Palm Beach County,	Florida	Date	Reported:	January 6, 2	010
Contractor:	PBS&J / Golder Associates	inc. / Hiller	rs Electrical E	ngineering		
Report Prepared By	Jon Shaw	-	_			
Contractor Proj. No.	. C-C13401P-W010					
Section I: PROJEC	T IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility	/ - Operation	ո & Maintenan	ce		
Site Work	Cycle Testing - Recharge (Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMMA	RY OF ACTIVITIES					
Stopped at site ~140 in on the log.	0 to check on operations. Held	I a Health &	Safety Briefin	ig in Personnel	Bldg. and all perso	nnel signed
Collected meter read	dings.					
System up and running	ng upon arrival and departure.					
Section III: PERSON	NEL ON SITE			REPRESE	NTING	
Jon Shaw			Golder Assoc	iates		
Neil Hancock			Golder Assoc	iates		
Section IV: KEY RI	EADINGS/CONDITIONS					
Intake Pump Pressure				Flow	Conductivity	Wellhead Pressure
(PSI)	Filters	UV		(GPM)	Umhos/cm	(PSI)
85	Backflow pressure <7psi	No issu	ues	3312	837	43
	Backflow cycle normal-33 min interval-cycled while on-site					
Section V: NOTES						
Post filter turbidity r	eading 11.38 - may need adjust					
Section VI: SIGNIF	TICANT PROBLEM					
Descrip	tion of Problem			Recommendo	ation	
Valve switches are se	ensitive/damaged	Replace v	valve switches	s on M-6 & M-8		
Section VII: ACTIO	ON LIST					
	ltem .				By Whom	
Send Michael Bennet	t, Greg Powell and Isabel Johns	on access to	FTP site	Lianne Ra	amos	
Spray foam under do	or jam to prevent wasps			Bruce We	aver	
Clear vegetation aro	und Quarry Pit structure			Bruce We	aver	
		Bruce Weaver				





Site:	HASR-Palm Beach County	, Florida	Date Rep	rted:	ed: January 7, 2010	
Contractor:	PBS&J / Golder Associate	s Inc. / Hiller	s Electrical Engin	ering		
Report Prepared By	: Bruce Weaver					
Contractor Proj. No	. C-C13401P-W010					
Section 1: PROJEC	T IDENTIFICATION				· · · · · · · · · · · · · · · · · · ·	
Project Title	Hillsboro ASR Pilot Facilit	y - Operation	& Maintenance			
Site Work	Cycle Testing - Recharge	Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMMA	ARY OF ACTIVITIES		·	_		
Stopped at site - 7:0 signed in on the log.	00 am to check on operations.	Held a Healti	n & Safety Briefin	g in Person	nel Bldg. and all p	ersonnel
Collected meter rea	dings.					
System up and runni	ng upon arrival and departure.					
Section III: PERSO	NNEL ON SITE			REPRESE	NTING	
Bruce Weaver			Golder Associate			
Section IV: KEY R	EADINGS/CONDITIONS					
Intake Pump Pressure				low	Conductivity	Wellhead Pressure
(PSI)	Filters	UV	(GPM)	Umhos/cm	(PSI)
83	Backflow pressure <7psi	No issu	es	300	915	42
	Backflow cycle normal-26 min interval-cycled while on-site					*11-1
Section V: NOTES						
Post filter turbidity	reading 12.26 - may need adjus					
Section VI: SIGNI	FICANT PROBLEM					
					ation	
	otion of Problem		Re	commendo	ALION	
	otion of Problem ensitive/damaged	Replace v	alve switches on		111011	
<i>Descrij</i> Valve switches are s	ensitive/damaged	,	alve switches on	M-6 & M-8	gi naska ibing gas	
<i>Descrij</i> Valve switches are s	ensitive/damaged	,	alve switches on	M-6 & M-8	gi naska ibing gas	
<i>Descrij</i> Valve switches are s	ensitive/damaged ON LIST tem	,	alve switches on	M-6 & M-8	By Whom	
Valve switches are s Section VII: ACTI Send Michael Benne	ensitive/damaged ON LIST tem	,	alve switches on	M-6 & M-8	By Whom amos	
Valve switches are s Section VII: ACTI Send Michael Benne Spray foam under de	ensitive/damaged ON LIST Item It access to FTP site	,	alve switches on	M-6 & M-8 Lianne Ra	By Whom amos eaver	





Site:	HASR-Palm Beach County,	, Florida	Date Reported:	January 8, 2	010
Contractor:	PBS&J / Golder Associate	s Inc. / Hillers Elect	rical Engineering		
Report Prepared By:	Jon Shaw				
Contractor Proj. No.	C-C13401P-W010	-			
Section I: PROJEC	T IDENTIFICATION			·	
Project Title	Hillsboro ASR Pilot Facilit	y - Operation & Mair	ntenance		
Site Work	Cycle Testing - Recharge	Cycle 1		-	
SFWMD PM	Bob Verrastro				
Section II: SUMMA	RY OF ACTIVITIES				
Reviewed HASP and s	signed log				
System checkout and					
System up and runnir	ng				
Section III: PERSON	INEL ON SITE		REPRESE	ENTING	* * * * * * * * * * * * * * * * * * * *
Bruce Weaver		Golder	Associates		
Section IV: KEY RI	EADINGS/CONDITIONS				
Intake Pump					Wellhead
Pressure			Flow	Conductivity	Pressure
(PSI)	Filters	UV	(GPM)	Umhos/cm	(PSI)
83	Backflow pressure <7	No issues	3207-3281	852	41
	Backflow cycle normal-30 min interval				
Section V: NOTES					
<u> </u>	<u> </u>	the Bay to a feet and a second	<u></u>		<u>. 11 (11) 11 (11) 14 (11) </u>
Section VI: SIGNIF	ICANT PROBLEM				
	tion of Problem		Recommend		
No new items	don of Frozion				
Section VII: ACTIO	N. LICT				
Section vii: ACTIC	item	<u> Korono de Dardone i paseel</u>		By Whom	<u> 1844), 2013 (1913)</u>
Check D.O. and turbi			Bruce We	eaver/Vendor(?)	
The state of the same of the s	and motors		3.333 17		***************************************
	<u> </u>				





Site:	HASR-Palm Beach County	, Florida	Da	te Reported:	January 11, 2	2010
Contractor:	PBS&J / Golder Associate	es Inc. / Hille	ers Electrica	al Engineering		
Report Prepared By:	Jon Shaw					
Contractor Proj. No.	C-C13401P-W010					
Section I: PROJECT	DENTIFICATION					·
Project Title	Hillsboro ASR Pilot Facilit	y - Operatio	n & Mainter	nance		
Site Work	Cycle Testing - Recharge	Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMMA	RY OF ACTIVITIES					
Reviewed HASP and s	igned log					
System checkout and						
Collected Week 2 wat	er quality samples	.				
Met with June Mireck	i to go over sampling procedu	res for isoto	pe samples			
System up and runnin	g	<u> </u>				
Section III: PERSON	NEL ON SITE			REPRES	ENTING	
Bruce Weaver		<u> </u>	Golder As			
			Golder As	sociates		
Lianne Ramos						
Lianne Ramos Jon Shaw			Golder As	sociates		
Jon Shaw June Mirecki			U.S. Army	Corps of Enginee		
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure	-		U.S. Army	Corps of Enginee	Conductivity	Wellhead Pressure
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump	ADINGS/CONDITIONS Filters	U	U.S. Army	/ Corps of Enginee		Pressure (PSI)
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure			U.S. Army	Corps of Enginee	Conductivity	Pressure
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI)	Filters	υ\	U.S. Army	Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI)
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI)	Filters Backflow pressure <7 Backflow cycle normal-65	U\ No iss	U.S. Army	Flow (GPM)	Conductivity Umhos/cm 1177.5	Pressure (PSI)
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES	Filters Backflow pressure <7 Backflow cycle normal-65 min interval	No iss	U.S. Army	Flow (GPM)	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 350	No iss	U.S. Army	Flow (GPM)	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice) Section VI: SIGNIFI	Filters Backflow pressure <7 Backflow cycle normal-65 min interval a) to achieve new rate of 3509 CANT PROBLEM	No iss	U.S. Army	Flow (GPM)	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice Section VI: SIGNIFI Descript	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 350	No iss Data show 5 gpm at enc	U.S. Army sues s die off	Flow (GPM) 3346-3505	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice Section VI: SIGNIFI Descript Several automated re	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 3509 CANT PROBLEM tion of Problem meters do not appear to be	No iss Data show	U.S. Army sues s die off	Flow (GPM) 3346-3505	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice) Section VI: SIGNIFI Description Several automated in accurate	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 3509 CANT PROBLEM tion of Problem meters do not appear to be	No iss Data show	U.S. Army sues s die off	Flow (GPM) 3346-3505	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice) Section VI: SIGNIFI Description Several automated in accurate	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 350 CANT PROBLEM cion of Problem neters do not appear to be N. LIST item	No iss Data show	U.S. Army sues s die off	Flow (GPM) 3346-3505 Recommend to site for calibra	Conductivity Umhos/cm 1177.5	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice Section VI: SIGNIFI Descript Several automated maccurate Section VII: ACTIO	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 350! CANT PROBLEM cion of Problem neters do not appear to be N. LIST Item dity meters	No iss Data show	U.S. Army sues s die off	Flow (GPM) 3346-3505 Recommend to site for calibra	Conductivity Umhos/cm 1177.5 dation ation and adjustmen By Whom eaver/Vendor(?)	Pressure (PSI) 44
Jon Shaw June Mirecki Section IV: KEY RE Intake Pump Pressure (PSI) 88-82 Section V: NOTES Turned up flow (twice Section VI: SIGNIFI Descript Several automated maccurate Section VII: ACTIO Check D.O. and turbin	Filters Backflow pressure <7 Backflow cycle normal-65 min interval e) to achieve new rate of 350! CANT PROBLEM cion of Problem neters do not appear to be N. LIST Item dity meters	No iss Data show	U.S. Army sues s die off	Flow (GPM) 3346-3505 Recommend to site for calibra	Conductivity Umhos/cm 1177.5 dation ation and adjustmen By Whom eaver/Vendor(?)	Pressure (PSI) 44





Report Prepared By: Contractor Proj. No. Contractor Proj. No. Section I: PROJECT IDEN Project Title Site Work Contractor Proj. No. Contractor Proj.	BS&J / Golder Associates ruce Weaver/Lianne M. I -C13401P-W010 ITIFICATION Itilsboro ASR Pilot Facility cycle Testing - Recharge		al Engineering							
Contractor Proj. No. C Section I: PROJECT IDEN Project Title H Site Work C	-C13401P-W010 ITIFICATION Iillsboro ASR Pilot Facilit	Ramos		 .	<u> </u>					
Section I: PROJECT IDEN Project Title H Site Work C	ITIFICATION Iillsboro ASR Pilot Facility									
Project Title H Site Work C	lillsboro ASR Pilot Facilit	NTIFICATION								
Site Work C										
	vole Testing - Recharge	/ - Operation & Mainte	nance	-						
CENTAD DIA B	yere resemb meenarge	Cycle 1								
3F 4414(D F)4(D	ob Verrastro									
Section II: SUMMARY OF	ACTIVITIES									
Reviewed HASP and signed	log									
System checkout and meter				-						
Collected Week 3 water qu	ality samples									
System up and running	<u> </u>									
Section III: PERSONNEL O	NI CITE		REPRESE	NTING						
Bruce Weaver	NY SITE	Golder A	<u> </u>		Order April 18 (80)					
Lianne Ramos	<u> </u>	Golder A								
C. H. W. VEVEREADING	CE LEGALINITIONIC									
Section IV: KEY READING Intake Pump Pressure			Flow	Conductivity	Wellhead Pressure					
Intake Pump Pressure	GS/ CONDITIONS	UV		Conductivity Umhos/cm						
Intake Pump Pressure (PSI)	SSI CONDITIONS Filters	UV	(GPM)		Pressure					
intake Pump Pressure (PSI) 80 Bi	Filters ackflow pressure <7	<i>UV</i> No issues		Umhos/cm	Pressure (PSI)					
intake Pump Pressure (PSI) 80 Bi	SSI CONDITIONS Filters	UV	(GPM)	Umhos/cm	Pressure (PSI)					
Intake Pump Pressure (PSI) 80 Bi	Filters ackflow pressure <7 kflow cycle normal-65	UV No issues Data shows die off	(GPM)	Umhos/cm	Pressure (PSI)					
intake Pump Pressure (PSI) 80 Bi	Filters ackflow pressure <7 kflow cycle normal-65	<i>UV</i> No issues	(GPM)	Umhos/cm	Pressure (PSI)					
Intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues	Filters ackflow pressure <7 kflow cycle normal-65	UV No issues Data shows die off	(GPM)	Umhos/cm 1049.5	Pressure (PSI)					
Intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT	Filters ackflow pressure <7 kflow cycle normal-65 min interval	UV No issues Data shows die off	(GPM) 3559	Umhos/cm 1049.5	Pressure (PSI) 45					
Intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT Description o Several automated meters	Filters ackflow pressure <7 kflow cycle normal-65 min interval PROBLEM	UV No issues Data shows die off	(GPM) 3559 Recommend	Umhos/cm 1049.5	Pressure (PSI) 45					
Intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT Description of Several automated meters accurate	Filters ackflow pressure <7 kflow cycle normal-65 min interval PROBLEM of Problem s do not appear to be	UV No issues Data shows die off	(GPM) 3559 Recommend	Umhos/cm 1049.5	Pressure (PSI) 45					
Intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT Description o Several automated meters	Filters ackflow pressure <7 kflow cycle normal-65 min interval PROBLEM f Problem s do not appear to be	UV No issues Data shows die off	(GPM) 3559 Recommend	Umhos/cm 1049.5 ation tion and adjustmer	Pressure (PSI) 45					
intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT Description of Several automated meters accurate Section VII: ACTION LIST	Filters ackflow pressure <7 kflow cycle normal-65 min interval FPROBLEM of Problem s do not appear to be	UV No issues Data shows die off	(GPM) 3559 Recommend to site for calibra	Umhos/cm 1049.5 action tion and adjustmen	Pressure (PSI) 45					
intake Pump Pressure (PSI) 80 Bac Section V: NOTES No issues Section VI: SIGNIFICANT Description of Several automated meters accurate	Filters ackflow pressure <7 kflow cycle normal-65 min interval FPROBLEM of Problem s do not appear to be I ltem neters	UV No issues Data shows die off	(GPM) 3559 Recommend to site for calibra	ation tion and adjustmer By Whom eaver/Vendor	Pressure (PSI) 45					





Contractor: Report Prepared By: Contractor Proj. No. Section I: PROJECT IDE Project Title	PBS&J / Golder Associates Bruce Weaver/Lianne M. R		s Electrical Eng	ineering				
Contractor Proj. No. Section I: PROJECT IDE	Bruce Weaver/Lianne M. R							
Section I: PROJECT IDE	C-C13401P-W010							
· ·	C-C13401P-W010			_				
Project Title	ENTIFICATION		**					
1	Hillsboro ASR Pilot Facility	- Operation	& Maintenance		·			
Site Work	Cycle Testing - Recharge C	ycle 1						
SFWMD PM	Bob Verrastro							
Section II: SUMMARY C	OF ACTIVITIES							
Reviewed HASP and signe	ed log							
System checkout and met	ter readings			•				
Collected annual water q	juality samples							
System up and running								
						•		
Section III: PERSONNEL	ON SITE			REPRESE	NTING			
Bruce Weaver	<u> </u>	<u> </u>	Golder Associat	tes				
Lianne Ramos			Golder Associat	tes				
Section IV: KEY READI	NGS/CONDITIONS							
Intake Pump	NGS/CONDITIONS					Wellhead Pressure		
Intake Pump Pressure				Flow	Conductivity	Pressure		
intake Pump Pressure (PSI)	Filters Backflow pressure <1.7	UV No issu	les					
Intake Pump Pressure (PSI) 81 E	Filters	UV	ies	Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI)		
Intake Pump Pressure (PSI) 81 E	Filters Backflow pressure <1.7 ackflow cycle normal-48	<i>UV</i> No issu	ies	Flow (GPM)	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 E	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval	<i>UV</i> No issu		Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI) 51		
intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval	<i>UV</i> No issu		Flow (GPM)	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues Section VI: SIGNIFICAN	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval	<i>UV</i> No issu		Flow (GPM)	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues Section VI: SIGNIFICAN Description	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval	UV No issu		Flow (GPM) 3494 Recommende	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues Section VI: SIGNIFICAN Description Several automated meter	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval NT PROBLEM of Problem ers do not appear to be	UV No issu		Flow (GPM) 3494 Recommende	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues Section VI: SIGNIFICAN Description Several automated mete accurate	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval NT PROBLEM of Problem ers do not appear to be	UV No issu		Flow (GPM) 3494 Recommende	Conductivity Umhos/cm 1220.6	Pressure (PSI) 51		
Intake Pump Pressure (PSI) 81 Ba Section V: NOTES No issues Section VI: SIGNIFICAN Description Several automated mete accurate	Filters Backflow pressure <1.7 ackflow cycle normal-48 min interval NT PROBLEM of Problem ers do not appear to be	UV No issu		Flow (GPM) 3494 Recommender te for calibra	Conductivity Umhos/cm 1220.6 ation tion and adjustmen	Pressure (PSI) 51		





Site:	HASR-Palm Beach County,					
Contractor:	PBS&J / Golder Associates	Inc. / Hillers	Electrical Engin	eering		
Report Prepared By	: Bruce Weaver/Lianne M. F	Ramos				
Contractor Proj. No	. C-C13401P-W010					
Section I: PROJEC	T IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility	/ - Operation	& Maintenance			
Site Work	Cycle Testing - Recharge (Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMM	ARY OF ACTIVITIES					
Reviewed HASP and	signed log			<u> </u>		
System checkout and						
System up and runni	ng		<u>. </u>			
Activated air burst s	ystem					
Section III: PERSO	NNEL ON SITE			REPRESEI	NTING	
Bruce Weaver	(1,121,011, 21,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11,121, 11	· -	Golder Associate			<u>a 19 da juni la liberari dub</u>
Lianne Ramos			Golder Associate			
	EADINGS/CONDITIONS				Conductivity	Wellhead Pressure
Section IV: KEY R Intake Pump	EADINGS/CONDITIONS Filters				Conductivity Umhos/cm	
Section IV: KEY R Intake Pump Pressure				Flow	'	Pressure
Section IV: KEY R Intake Pump Pressure (PSI)	Filters	UV		Flow (GPM)	Umhos/cm	Pressure (PSI)
Section IV: KEY R Intake Pump Pressure (PSI)	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval	UV		Flow (GPM)	Umhos/cm	Pressure (PSI)
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval	UV No issue	es	Flow (GPM)	Umhos/cm	Pressure (PSI)
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January	UV No issue	es	Flow (GPM)	Umhos/cm	Pressure (PSI)
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January	UV No issue	es 7, 2010	Flow (GPM) 3460	Umhos/cm 1191.3	Pressure (PSI)
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI Descrip	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January	UV No issue uary 26 and 2	es 7, 2010	Flow (GPM) 3460	Umhos/cm 1191.3	Pressure (PSI) 52
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4 th weekly sampling Section VI: SIGNI Descrip Several automated accurate	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January FICANT PROBLEM otion of Problem	UV No issue uary 26 and 2	es 7, 2010	Flow (GPM) 3460	Umhos/cm 1191.3	Pressure (PSI) 52
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4 th weekly sampling Section VI: SIGNI Descrip Several automated accurate	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January FICANT PROBLEM pation of Problem meters do not appear to be	UV No issue uary 26 and 2	es 7, 2010	Flow (GPM) 3460	Umhos/cm 1191.3	Pressure (PSI) 52
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4 th weekly sampling Section VI: SIGNI Descrip Several automated accurate	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January FICANT PROBLEM pation of Problem meters do not appear to be ON LIST [tem]	UV No issue uary 26 and 2	es 7, 2010	Flow (GPM) 3460 ecommenda for calibrat	Umhos/cm 1191.3	Pressure (PSI) 52
Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4 th weekly sampling Section VI: SIGNI. Descrip Several automated accurate Section VII: ACTI	Filters Backflow pressure <1.8 Backflow cycle normal-43 min interval event will be conducted on January FICANT PROBLEM pation of Problem meters do not appear to be ON LIST Item idity meters	UV No issue uary 26 and 2	es 7, 2010	Flow (GPM) 3460 ecommenda for calibrat	Umhos/cm 1191.3 ation ion and adjustmer By Whom aver/Vendor	Pressure (PSI) 52





Contractor: Report Prepared By:			Florida		oorted:	January 25, 2	
Report Prepared By:	PBS&J / Golde	er Associates	Inc. / Hillers	Electrical Engi	neering		
	Bruce Weaver	/ Lianne Mo	kfienski Ramo	S			
Contractor Proj. No.	C-C13401P-W0	010	 -				
Section I: PROJECT	IDENTIFICATION		· · · · · · · · · · · · · · · · · · ·				
Project Title	Hillsboro ASR	Pilot Facility	r - Operation 8	t Maintenance	<u> </u>		
Site Work	Cycle Testing	- Recharge C	Cycle 1	·	_		
SFWMD PM	Bob Verrastro						
Section II: SUMMAR	Y OF ACTIVITIES			· · · · · · · · · · · · · · · · · · ·			
Reviewed HASP and sig	gned log			······································		 -	
System checkout and r	meter readings		-				
System up and running	3						
Activated air burst sys	tem						
Postfilter-Turb = 68.22	NTU Prefilter-	turb = 3.49					
Total flow = 213266 M	UGal						
Section III: PERSONN	NEL ON SITE				REPRESE		
Bruce Weaver			G	Golder Associat	es		
Intake Pump	ADINGS/CONDITIO	NS				Gridgesträ Witter w	Wellhead Pressure
Intake Pump Pressure					Flow	Conductivity	Pressure
Intake Pump Pressure (PSI)	Filters		υγ		Flow (GPM)	Conductivity Umhos/cm	
Intake Pump Pressure					Flow	Conductivity	Pressure (PSI)
Intake Pump Pressure (PSI)	Filters Backflow press Backflow cycle n	ure <4.6	υγ		Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI)
Intake Pump Pressure (PSI) 82	Filters Backflow press Backflow cycle n min inter	ure <4.6 cormal-50 val	UV No issue:		Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES	Filters Backflow press Backflow cycle n min interv	ure <4.6 tormal-50 val	UV No issue:	s	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES 4th weekly sampling ev	Filters Backflow press Backflow cycle n min interv vent will be condu	ure <4.6 tormal-50 val	UV No issue:	s	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES 4th weekly sampling ev	Filters Backflow press Backflow cycle n min inten went will be condu	ure <4.6 tormal-50 val	UV No issue:	s 7, 2010	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES 4th weekly sampling ev	Filters Backflow press Backflow cycle n min interv vent will be conducted CANT PROBLEM ion of Problem	ure <4.6 cormal-50 val sicted on Janu	No issues	s 7, 2010	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES 4th weekly sampling evices Section VI: SIGNIFIC Description Several automated maccurate	Filters Backflow press Backflow cycle n min inten vent will be conducted CANT PROBLEM ion of Problem leters do not app	ure <4.6 cormal-50 val sicted on Janu	No issues	s 7, 2010	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52
Intake Pump Pressure (PSI) 82 Section V: NOTES 4th weekly sampling ev Section VI: SIGNIFIC Descripti Several automated m	Filters Backflow press Backflow cycle n min interv vent will be conducted CANT PROBLEM ion of Problem leters do not app	ure <4.6 cormal-50 val sicted on Janu	No issues	s, 2010 or return to sit	Flow (GPM) 3555	Conductivity Umhos/cm 1167.1	Pressure (PSI) 52





Site:	HASR-Palm I	Beach County,	Florida	Da	ate Reported:	January 26,	2010
Contractor:	PBS&J / Gol	ider Associates	Inc. / Hiller	rs Electric	al Engineering		
Report Prepared By	: Bruce Weav	er / Lianne Mo	kfienski Ran	nos			
Contractor Proj. No	. C-C13401P-\	WO10					
Section I: PROJEC	T IDENTIFICATION	٧	• -				
Project Title	Hillsboro AS	R Pilot Facility	- Operation	ı & Mainte	nance	·	
Site Work	Cycle Testin	ng - Recharge C	ycle 1				
SFWMD PM	Bob Verrasti	ro					
Section II: SUMMA	ARY OF ACTIVITIES	<u> </u>					
Reviewed HASP and	signed log						
System checkout and	d meter readings						
System up and runni	ng						
Activated air burst s	ystem						
Measured DO in cana	al water near inta	ke with YSI.	DO = 2.60			- <u></u> -	
Cleaned turbidity m	eter vials Postfilte	er-Turb = 2.50	NTU Prefil	lter-turb =	2.36		
Total flow = 213272	M UGal			••			
TOTAL 110M = 2132/2		1 4 1 4 1 1 1 1 1	High Times	arteria y Televia	DEDDECE	NTING	
	NNEL ON SITE		r filmana siya	and the first state of	ハレイハレンム	711111 O	
Section III: PERSO Bruce Weaver	NNEL ON SITE			Golder As		, time	<u>i ki fili Shih ki haji ƙasa </u>
Section III: PERSO			1 (1) (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2 (2		ssociates ssociates		
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure	amos EADINGS/CONDIT	ions		Golder A	ssociates ssociates Flow	Conductivity	Wellhead Pressure
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump	EADINGS/CONDIT	ions		Golder A	ssociates		Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure	amos EADINGS/CONDIT	ions		Golder A	ssociates ssociates Flow	Conductivity	Wellhead Pressure
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI)	EADINGS/CONDIT	IONS rs ssure <1.8 e normal-27	UV	Golder A	ssociates ssociates Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI)	Filte. Backflow prediction into	IONS rs ssure <1.8 e normal-27	UV No issu	Golder A	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTE:	EADINGS/CONDIT Filte Backflow prediction into the condition of the condi	rs ssure <1.8 e normal-27 erval	UV No issu	Golder A	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling	Filter Backflow premin interest is being content in the second co	rs ssure <1.8 e normal-27 erval	UV No issu	Golder A	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI	Filte. Backflow premin interest is being conficient in the second conficient in the second conficient in the second conficient is being conficient in the second conficient in the second conficient is being conficient in the second conficient in	rs ssure <1.8 e normal-27 erval nducted on Jan	UV No issu	Golder A	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI)
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI	Filte Backflow pre- Backflow cycle min inte	rs ssure <1.8 e normal-27 erval nducted on Jan	No issu	Golder As Golder As ues	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI) 52
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI Descrip Several automated accurate	Filte Backflow pre- Backflow cycle min inte	rs ssure <1.8 e normal-27 erval nducted on Jan	No issu	Golder As Golder As ues	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI) 52
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI Descrip Several automated accurate	Filte Backflow cycle min inte FICANT PROBLEM Dition of Problem meters do not a	rs ssure <1.8 e normal-27 erval nducted on Jan	No issu	Golder As Golder As ues	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1	Wellhead Pressure (PSI) 52
Section III: PERSO Bruce Weaver Lianne Mokfienski Ri Section IV: KEY R Intake Pump Pressure (PSI) 81 Section V: NOTES 4th weekly sampling Section VI: SIGNI Descrip Several automated accurate Section VII: ACTI	Filte. Backflow predent is being conficent is being conficent in the property of the property	rs ssure <1.8 e normal-27 erval nducted on Jan ppear to be	No issumary 26 and	Golder As Golder As ues 1 27, 2010	Flow (GPM) 3524	Conductivity Umhos/cm 1117.1 ation tion and adjustment	Wellhead Pressure (PSI) 52





Site:	HASR-Palm Beach County,	, Florida	Date Reported:	January 27,	2010
Contractor:	PBS&J / Golder Associates	s Inc. / Hillers	Electrical Engineering		
Report Prepared By	: Bruce Weaver / Lianne Mo	okfienski Ramos	5		
Contractor Proj. No	. C-C13401P-W010				
Section I: PROJEC	T IDENTIFICATION				
Project Title	Hillsboro ASR Pilot Facility	y - Operation &	: Maintenance		
Site Work	Cycle Testing - Recharge	Cycle 1			
SFWMD PM	Bob Verrastro				
Section II: SUMMA	ARY OF ACTIVITIES				
Reviewed HASP and	signed log				
System checkout and	l meter readings				
System up and runni	ng	-			
Activated air burst s	ystem	-			
It appears cleaning t	he turbidity meters remedied t	heir erroneous	high readings: Postfilter	Turb =1.24, Prefilto	er-turb =1.26
Replaced Aluminum	foil on UV's				
Total flow = 213276	M UGal				
Section III: PERSO	NNEL ON SITE		REPRES	ENTING	
Bruce Weaver			older Associates		
Lianne Ramos		G	older Associates		
Gabe Brendel		G	older Associates		
June Mirecki		U	I.S. Army Corps of Enginee	ers	
Jeff Watson		R	iver to Tap inc.		
Section IV: KEY R	EADINGS/CONDITIONS				
Intake Pump Pressure			Flow	Conductivity	Wellhead Pressure
(PSI)	Filters	UV	(GPM)	Umhos/cm	(PSI)
82	Backflow pressure < 6.0	No issue:	s 3464	1002.8	52
	Backflow cycle normal-45 min interval				
Section V: NOTES					
The 5 th weekly samp System transitions fr	ling event and the once at the on recharge to storage mode w	end sampling e	vent will be conducted or ed on February 3, 2010.	February 2 and 3,	2010.
<u>– É na jirawan mejar</u>	FICANT PROBLEM				
	otion of Problem		Recommend	lation	
	n turb-meters during storage	Order desid			
Section VII: ACTIO	ON LIST				
	Item		By Whom	Ву	
Got in to UV syste adjust before next s	em, left in auto mode, will ampling event	Weaver		2/1/2010	-
May need to adjust a		Weaver		2/1/2010	
<u> </u>					

Contact Hillers for transition	Weaver	1/29/2010	





Site: H	ASR-Palm Bea	ach County, Florida	Da	ate Reported:	January 29, 2	010
Contractor: P	BS&J / Golde	r Associates Inc. /	Hillers Electric	al Engineering		
Report Prepared By: Li	ianne Mokfier	nski Ramos				
Contractor Proj. No. C	-C13401P-W0	10				
Section I: PROJECT IDEN	TIFICATION			· · · · · · · · · · · · · · · · · · ·		
Project Title H	illsboro ASR F	Pilot Facility - Oper	ation & Mainte	nance		
Site Work C	ycle Testing -	Recharge Cycle 1				
SFWMD PM B	ob Verrastro					
Section II: SUMMARY OF	ACTIVITIES					
Reviewed HASP and signed	log					
Meter readings						
Sampling for Ecotox						
Section III: PERSONNEL O	N SITE	· · · · · · · · · · · · · · · · · · ·		REPRESE	NTING	
Lianne Ramos		 	Golder As	ssociates		
Gabriel Brendel			Golder As	ssociates		
Intake Pump Pressure (PSI)	Filters		UV	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
82		N	o issues	3459.1	1105.5	54
Section V: NOTES Upon arrival, the tubing of control the pressure and the	the cooling s	ystem located at th			<u>. Diberta destriben</u>	
Section VI: SIGNIFICANT	nger under den de	Payment Sales				
Principal Control of the Control of	PROBLEM	Payment Sales		Recommend	ation	
Section VI: SIGNIFICANT	PROBLEM f Problem ystem locate		lace tubing.	Recommend		
Section VI: SIGNIFICANT Description of the cooling sy	PROBLEM f Problem ystem locate oursted.	d at the Rep		Recommend	agti, argadis (b.	
Section VI: SIGNIFICANT Description of Tubing of the cooling sy wellhead was noted to be be	PROBLEM f Problem ystem locate oursted.	d at the Rep	lace tubing.	Recommend		
Section VI: SIGNIFICANT Description of Tubing of the cooling sy wellhead was noted to be the Section VII: ACTION LIST	PROBLEM f Problem ystem locate oursted.	d at the Rep	lace tubing.	Recommend	esti esti etti. Est etti yazatta esti e	
Section VI: SIGNIFICANT Description of the cooling sy wellhead was noted to be to Section VII: ACTION LIST Item	f Problem ystem locate oursted.	d at the Rep	lace tubing. Whom	Recommend	<i>By</i>	
Section VI: SIGNIFICANT Description of the cooling symplemed was noted to be the section VII: ACTION LIST Item Replace tubing of the cooling symplement in the section VIII item	f Problem ystem locate oursted. Ing system. es ekly Event,	d at the Rep	Whom	2/1/2010 2/1/2010	<i>By</i>	





Site:	HASR-Palm Bead	h County,	Florida	Da	te Reported:	February 1, 2	010	
Contractor:	PBS&J / Golder	Associates	Inc. / Hiller	s Electrica	al Engineering		_	
Report Prepared By:	Bruce Weaver /	Lianne M F	Ramos					
Contractor Proj. No.	C-C13401P-W01	0						
Section I: PROJECT	IDENTIFICATION	The state of the same						
Project Title	Hillsboro ASR Pi							
Site Work	Cycle Testing -	Recharge C	Cycle 1	- "				
SFWMD PM	Bob Verrastro				, '			
Section II: SUMMAF	RY OF ACTIVITIES							
Reviewed HASP and si								
Measured DTW at inta		e = 7.60 ou	 utside 6.18					
Cleaned post filter Tu	rb-meter 2.24 NTU	after leani	ng					
Meter readings record	led		_ -		'			
Fixed cooling hose on	recovery pump	<u> </u>	·-					
Total flow = 213301 M	N Ugali							
Collection of Ecotox s		 						
Section III: PERSON	NEL ON SITE					NTING		
Bruce Weaver	<u> </u>	<u> </u>		Golder A	ssociates			
Lianne Ramos				Golder A	ssociates			
Gabriel Brendel			Golder Associates					
Bob Verrastro				SFWMD				
Stan Ganthier				FDEP				
Section IV: KEY RE	ADINGS/CONDITION	is						
Intake Pump				_			Wellhead	
Pressure					Flow	Conductivity	Pressure	
(PSI)	Filters		_ <i>U</i> \	<u>/</u>	(GPM)	Umhos/cm	(PSI)	
84	Differential press		No iss	ues	3426	985.5	34	
Section V: NOTES Stan Ganthier (FDEP)	<u></u>	/CEN/MD)		. a compli	nco introction con	eroing the CEDD	A permit	
							A perime.	
Stan Ganthier sugges		1. F. 1. F.	ACCEPTAGE TOW	1.5				
Section VI: SIGNIF		<u>. (#1977)</u>	<u> </u>		•	<u>ganla i jako (enijako)</u> •		
	tion of Problem		Talk with	h toch cur	Recommende port again	ation		
Unable to put UV in	medium auto mode	A a tel	I dik Wii	ii tecii sup	port again	The state of the s		
Section VII: ACTIO	ON LIST	<u> </u>						
Iter	n		By Wh	om		Ву		
Clean staff gauge in		Bruce We	eaver		2/4/2010)	 "	
Sampling of the 5 Once at the End Eve		Lianne Ra	amos, Bruce	Weaver	2/2/2010) and 2/3/2010		
Ecotox sampling		Lianne Ra	amos		2/3/2010)		

System transition Bruce Weaver 2/3/2010





							
Site:	HASR-Palm Beac	h County, Flor	ida	Date Repor	ted:	February 2, 2	010
Contractor:	PBS&J / Golder	Associates Inc.	/ Hillers Electr	ical Engine	ring		
Report Prepared By:	Bruce Weaver /	Lianne Mokfie	nski Ramos				
Contractor Proj. No.	C-C13401P-W01	0					
Section I: PROJECT	IDENTIFICATION						
Project Title	Hillsboro ASR Pil						
Site Work	Cycle Testing - I	Recharge Cycle	<u>•</u> 1				
SFWMD PM	Bob Verrastro		<u>-</u>				
Section II: SUMMAR	Y OF ACTIVITIES						
Reviewed HASP and sig	gned log						
Measured DTW at inta	ke structure inside	= 7.55 outside	€ 6.09				
Set UV to medium at 8	3:43, At 14:58 set U\	/ to high, set l	JV back to auto	at15:50			
Meter readings record	ed						· .
Switched airburst to a	uto mode						
Total flow = 213305 M	Ugal		-				
Sampling of the 5 th We	eekly event, Monthly	event and On	nce at the end E	vent.			
Conducted additional	testing for UV effec	tiveness.					
Section III: PERSONI	NEL ON SITE				REPRESE	NTING	
Bruce Weaver				Associates			
Lianne Ramos			Golder	Associates	_		
Alex Stojanovic			Hillers	Electrical E	ngineerin	g	
Rick Nevulis			SFWMI)			,
Section IV: KEY RE	ADINGS/CONDITIONS						
Intake Pump							Wellhead
Pressure					low	Conductivity	Pressure
(PSI)	Filters	4.5	UV	(0	PM)	Umhos/cm	(PSI) 54
84	Differential pressu		No issues	3	394	962.8	54
	32 11111400 11100						
C-41 Vo. NOTES					·		
Section V: NOTES	N (CD1110)			avetam C	ldor conc	history additional ar	<u> </u>
Alex (Hillers) and Rick evaluating the efficie	ncy of the UV syster	n concerning n	epair telemetry nedium and higi	n intensity.	nder conc	iucteu auditionat ai	iatysis
Section VI; SIGNIFI	CANT PROBLEM						
Descript	tion of Problem			Re	commend	ation	
Section VIII ACTIO	N LIST						
Section VII: ACTIO		<u> </u>	By Whom	· · · · · · · · · · · · · · · · · · ·		Ву	
Clean staff gauge in o		Bruce Weaver			2/4/201		
Ecotox sampling	1	Bruce Weaver			2/3/201		
Ecotox sumpting							

System transition	Bruce Weaver	2/3/2010
Storage Weekly Event	Lianne Ramos, Bruce Weaver	2/9/2010





Site:	HASR-Palm Beach	County, I	Florida	Date Reported	: February 3	3, 2010
Contractor:	PBS&J / Golder A	ssociates	Inc. / Hillers Ele	ectrical Engineering	8	
Report Prepared By:	Bruce Weaver / L	ianne Mok	kfienski Ramos			
Contractor Proj. No.	C-C13401P-W010		<u>-</u>			
Section I: PROJECT	IDENTIFICATION					
Project Title	Hillsboro ASR Pilo	t Facility	- Operation & N	laintenance		
Site Work	Cycle Testing - R	echarge C	ycle 1			
SFWMD PM	Bob Verrastro	· · · · · · · · · · · · · · · · · · ·				
Section II: SUMMAR	Y OF ACTIVITIES					
Reviewed HASP and sig			<u></u>	· · · · · · · · · · · · · · · · · · ·		····
Measured DTW at intal	·	= 8.05 out	side 6.61			
UV has no issues	· · · · · ·					
Meter readings records	ed					
Called for tech suppor		stem, Syste	em is set to go o	off once a day at 3:	00.	
Total flow = 213311 M				,	· · · · · · · · · · · · · · · · · · ·	
Cleaned DO probe in it		er cleaning	DO =4.77			
Turned off Recharge p					···	
Drained filter system a						
Shut all valves and slu		.,,			,	
	alara usati ketal			RE	PRESENTING	
Section III: PERSONI Bruce Weaver	VEL UN SITE	<u>(1864). – 1975</u>	Go	lder Associates	FRESERVING	o <u>it ja kuluakki ili te karib<u>ili i</u>g</u>
					73 - 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
Section IV: KEY REA	ADINGS/CUNDITIONS					
Intake Pump					l l	Wollboad
Pressure				Flow	Conductivit	Wellhead y Pressure
Pressure (PSI)	Filters		UV	Flow (GPM		y Pressure
	Filters Differential pressu 40 minute inter		<i>UV</i> No issues) Umhos/cm	y Pressure
(PSI)	Differential pressu 40 minute inter	val		(GPM) Umhos/cm	y Pressure (PSI)
(PSI) 84 Section V: NOTES	Differential pressu 40 minute inter to go off once a day	val	No issues	(<i>GPM</i>) Umhos/cm	y Pressure (PSI)
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI	Differential pressu 40 minute inter 40 monute inter to go off once a day	val	No issues	(<i>GPM</i> 3420) Umhos/cm 946.4	y Pressure (PSI)
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI	Differential pressu 40 minute inter to go off once a day CANT PROBLEM	val	No issues Next rechars	Recomge phase, set system	946.4	y Pressure (PSI) 56
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript	Differential pressu 40 minute inter to go off once a day CANT PROBLEM ion of Problem ntake screen	val	No issues Next rechars screen from	Recomge phase, set system	946.4 mendation n to go off every 8 ho	y Pressure (PSI) 56
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript Some fouling on the in	Differential pressu 40 minute inter to go off once a day CANT PROBLEM ion of Problem ntake screen	val	No issues Next rechars screen from	Recomge phase, set system fouling.	946.4 mendation n to go off every 8 ho	y Pressure (PSI) 56 urs to keep
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript Some fouling on the in	Differential pressu 40 minute inter to go off once a day CANT PROBLEM ion of Problem ntake screen	val	No issues Next rechars screen from By Whom	Recommendation of the property of the phase, set system fouling.	946.4 mendation n to go off every 8 ho	y Pressure (PSI) 56 urs to keep
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript Some fouling on the in Section VII: ACTION Item	Differential pressu 40 minute inter to go off once a day CANT PROBLEM ion of Problem intake screen	val	No issues Next recharg screen from By Whom aver	Recommendation (GPM) Recommendation (GPM)	946.4 mendation n to go off every 8 ho	y Pressure (PSI) 56 urs to keep
(PSI) 84 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript Some fouling on the in Section VII: ACTION Item Clean staff gauge in o	Differential pressu 40 minute inter to go off once a day CANT PROBLEM ion of Problem ntake screen N LIST	val Bruce Wea	No issues Next recharges screen from By Whom aver	Recomme phase, set system fouling.	946.4 mendation n to go off every 8 ho By 4/2010	y Pressure (PSI) 56 urs to keep





P	HACD Dalma Danah Carrett	Clorida	Date Reported:	February 8, 2	010
Site:	HASR-Palm Beach County	,	<u> </u>	Tebruary 6, 2	
Contractor:	PBS&J / Golder Associate		ical Engineering		
Report Prepared By:	Bruce Weaver / Lianne M	OKTIENSKI KAMOS			
Contractor Proj. No.	C-C13401P-W010		The state of the s		
Section I: PROJECT	IDENTIFICATI O N				
Project Title	Hillsboro ASR Pilot Facilit	y - Operation & Main	tenance		
Site Work	Cycle Testing - Storage C	ycle 1			
SFWMD PM	Bob Verrastro				
Section II: SUMMAR	Y OF ACTIVITIES				
Reviewed HASP and sig	ned log				
Drained water from the	e system to the quarry				
Filled UV system with	diluted (1/4) chlorine via sip	phon to bottom of un	it		
Cleaned staff gauges in	canal and quarry				
Cleaned intake screen	with brush				
Total flow = 213311 M	Ugal				
Sprayed wasps around	personnel building				
all valves and sluice ga		·	· ·		
Section III: PERSONN Bruce Weaver	IEL ON SITE		REPH r Associates	RESENTING	
Bruce Weaver Section IV: KEY REA Intake Pump Pressure	ADINGS/CONDITIONS	Golder	r Associates Flow	Conductivity	Wellhead Pressure
Bruce Weaver Section IV: KEY REA Intake Pump	ADINGS/CONDITIONS Filters Differential pressure=0.0	Golder	r Associates		Wellhead
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI)	DINGS/CONDITIONS Filters	Golder	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0	ADINGS/CONDITIONS Filters Differential pressure=0.0	Golder	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES	Filters Differential pressure=0.0 0.0 minute interval	UV System off	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set	Filters Differential pressure=0.0 0.0 minute interval to go off once a day.	UV System off	Flow (GPM)	Conductivity Umhos/cm	Wellhead Pressure (PSI)
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set	Filters Differential pressure=0.0 0.0 minute interval	UV System off	Flow (GPM)	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI)
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem	UV System off	Flow (GPM) 0.0	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM	UV System off	Flow (GPM) 0.0 Recomm or Hillers Electric	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair	UV System off Contact vendor	Flow (GPM) 0.0 Recomm or Hillers Electric	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript Some of the valve swi	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair	UV System off Contact vendor	Flow (GPM) 0.0 Recomm or Hillers Electric	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript Some of the valve swi	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair	UV System off Contact vendor upcoming recov	Flow (GPM) 0.0 Recomm or Hillers Electricery mode.	Conductivity Umhos/cm 946.4 endation ical to have them repa	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript Some of the valve swi Section VII: ACTION Item	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair	Contact vendor upcoming recov	Flow (GPM) 0.0 Recomm or Hillers Electricery mode.	Conductivity Umhos/cm 946.4	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFIC Descript Some of the valve swi Section VII: ACTION Item Change DO probe	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair N LIST Bruce W filters Bruce W	Contact vendor upcoming recov By Whom /eaver	Recommor Hillers Electricery mode.	Conductivity Umhos/cm 946.4 Pendation Ical to have them repa	Wellhead Pressure (PSI) 16.0
Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Airburst system is set Section VI: SIGNIFI Descript Some of the valve swi Section VII: ACTION Item Change DO probe Replace gasket on UV	Filters Differential pressure=0.0 0.0 minute interval to go off once a day. CANT PROBLEM ion of Problem tches are in need of repair N LIST Bruce W filters Bruce W turbidity meters Bruce W	Contact vendor upcoming recov By Whom /eaver /eaver	Recommor Hillers Electricery mode.	Conductivity Umhos/cm 946.4 Pendation ical to have them repair i/2010	Wellhead Pressure (PSI) 16.0





Site:	ASR-Palm Bead	h County,	Florida		Date Repor	ted:	February 10, 2	2010
Contractor: P	BS&J / Golder	Associates	Inc. / Hiller	rs Electri	cal Enginee	ering		
Report Prepared By: B	ruce Weaver /	Lianne Mo	kfienski Ran	nos				
Contractor Proj. No.	-C13401P-WO1	0						
Section 1: PROJECT IDEN	ITIFICATI O N							
Project Title	fillsboro ASR P							
Site Work (ycle Testing -	Storage Cy	cle 1					
SFWMD PM E	Sob Verrastro							
Section II: SUMMARY OF	ACTIVITIES					en en en		
Reviewed HASP and signed	log							
Drained water from the sy	stem to the qu	arry	· ·					
Checked chlorine level in l	JV system.							
Added more chlorine to U\	/ system				· ·	<u> </u>	· ·	
all valves and sluice gates	in storage mod	le .						
Total flow = 213311 M Uga	l					_		
Conducted the 1st weekly s		during sto	rage phase.		<u>-</u>			
Bruce Weaver			<u></u>		Associates		<u>-</u> -	
Lianne Mokfienski Ramos					Associates		·	
A STATE OF THE STA				<u> </u>				
Section IV: KEY READIN	GS/CONDITION	13			1	<u>. 1 .7755</u>	<u></u>	Wellhead
Intake Pump Pressure					F	low	Conductivity	Pressure
(PSI)	Filters		U	/ .	(0	PM)	Umhos/cm	(PSI)
0.0 Di	fferential press 0.0 minute int	erval	Syster		0.0		1.81	16.0
Section V: NOTES		Profession (1)						rest in Artific La Medicina
Weekly sampling done by								
Section VI: SIGNIFICAN	T PROBLEM							
Description					Re	commena	lation	
Some of the valve switcher		of repair	upcomi	ng recove	ery mode.		to have them repair	
Section VII: ACTION LI	šΤ			Marian Vijalje				
Item			By Wh	om			Ву	
Change DO probe		Bruce We	aver	_	- '	2/24/20	110	
Replace gasket on UV filte	ers	Bruce We	aver			2/24/20	010	
Replace desiccant in turb	idity meters	Bruce We	aver	-		2/24/20	010	
replace desiceant in tail		1						
Lubricate sluice gate and		Bruce We	aver			2/24/20	010	





Site: H	ASR-Palm Bead	h County,	Florida	Date Rep	orted:	February 16,	2010
Contractor: P	BS&J / Golder	Associates	Inc. / Hillers E	lectrical Engir	eering		
Report Prepared By: B	ruce Weaver /	Lianne Mo	kfienski Ramos				
Contractor Proj. No.	-C13401P-WO1	0	.=-				
Section I: PROJECT IDEN	ITIFICATION						
	lillsboro ASR Pi						
Site Work C	ycle Testing -	Storage Cy	cle 1				
SFWMD PM E	ob Verrastro						
Section II: SUMMARY OF	ACTIVITIES						
Reviewed HASP and signed	log						
Checked chlorine level in l	JV system.						
All valves and sluice gates	in storage mod	e					
Total flow = 213311 M Uga	<u> </u>						
Conducted the 2st weekly s	ampling event	during sto	rage phase.	, <u>.</u> .			
Section III: PERSONNEL (ON SITE				REPRESI	INTING	
Bruce Weaver				older Associat			
Lianne Mokfienski Ramos			G	older Associat	es		···
Section IV: KEY READIN	GS/CONDITION	S					
Intake Pump							Wellhead
Pressure					Flow	Conductivity	Pressure
(PSI)	Filters		UV		(GPM)	Umhos/cm	(PSI)
^ ^	ferential press 0.0 minute int		System of	f 0.0		0.63	16.0
			Table - Francisco		an euro ere		od far od a 18
Section V: NOTES							
Weekly sampling done by	Weaver/Ramos			Takine ningkajar	3 (1) 3 (2) 1	en e	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
Section VI: SIGNIFICAN	T PROBLEM						
Description	of Problem			_	Recommend		
Some of the valve switche	s are in need o	f repair		ndor or Hiller ecovery mode		to have them repa	ired before
Section VII: ACTION LIS	T						
Item			By Whom			Ву	
Change DO probe		Bruce We	aver		2/24/20	10	
Replace gasket on UV filte	ers	Bruce We	aver		2/24/20	10	
Replace desiccant in turb	dity meters	Bruce We	aver		2/24/20	10	
Lubricate sluice gate and	valves	Bruce We	aver		2/24/20	110	
Conduct 3 nd weekly san	anling ovent	Bruce We			2/23/20		





Site:	HASR-Palm Beac	ch County,	Florida	Date Reported:	February 17,	2010
Contractor:	PBS&J / Golder	Associates	Inc. / Hillers Electr	ical Engineering		
Report Prepared By:	Bruce Weaver /	Lianne Mo	kfienski Ramos			
Contractor Proj. No.	C-C13401P-W01	0				
Section I: PROJECT	IDENTIFICATION					
Project Title	Hillsboro ASR Pi				<u> </u>	
Site Work	Cycle Testing -	Storage Cy				
SFWMD PM	Bob Verrastro					
Section II: SUMMAR	Y OF ACTIVITIES					
Reviewed HASP and sig	ned log					
Checked chlorine level						
Drained UV system of drained once again as	chlorinated water per the OM manual	, rinsed di I. Closed al	sinfection chamber I valves once again.	with normal liquic	l medium used in the	e system and
Cleaned UV sensor and	l quartz window					
Cleaned post filter tur	bidity meter vial.	Before= 1	4.3 after =0.36			
Sprayed Round-up on v	weeds around ASR					
All valves and sluice ga	ates closed					
						No. 1878
Section III: PERSON	IEL ON SITE			REPRI	SENTING	
Bruce Weaver			Golder	Associates		
Section IV: KEY REA	ADINGS/CONDITION	S				
Intake Pump Pressure				Flow	Conductivity	Wellhead Pressure
(PSI)	Filters		UV	(GPM)	Umhos/cm	(PSI)
0.0	Differential press 0.0 minute int	i	System off	0.0	0.53	16.0
Section V: NOTES						
Weekly sampling done	· · · · · · · · · · · · · · · · · · ·	_	×			
	CANT PROBLEM					
	ion of Problem			Recomme	ndation	· · · · · ·
Some of the valve swi		of repair	Contact vendor upcoming recover	or Hillers Electrica	l to have them repair	ed before
Section VII: ACTION	N LIST					
item			By Whom		Ву	
Change DO probe		Bruce We	aver	2/24/	2010	
Replace gasket on UV	filters	Bruce We	eaver	2/24/	2010	
Replace desiccant in t	turbidity meters	Bruce We	eaver	2/24/	2010	
Lubricate sluice gate	and valves	Bruce We	aver	2/24/	2010	
Conduct 3 nd weekly during storage phase	sampling event	Bruce We	eaver / Lianne Ramo	ns 2/23/	2010 and 2/24/2010	





Site:	HASR-Palm Bea	ch County,	Florida		Date Report	ed:	February 23, 2	2010
Contractor:	PBS&J / Golder	Associates	inc. / Hille	rs Electri	ical Enginee	ring		
Report Prepared By:	Bruce Weaver	Lianne Mol	kfienski Ran	nos				
Contractor Proj. No.	C-C13401P-WO	10						
Section I: PROJECT	IDENTIFICATION							
Project Title	Hillsboro ASR P			<u> </u>				
Site Work	Cycle Testing -	Storage Cy	cle 1					
SFWMD PM	Bob Verrastro							
Section II: SUMMAR	Y OF ACTIVITIES							
Reviewed HASP and sig		·						
Did a manual bubble b								
Spoke with Bob Verras	tro about having t	ne valve swi	itches fixed	before r	echarge pha	se.		
Ordered desiccant for								•
Conduct 3 nd weekly sai		g storage p	hase				-14	,
		<u> </u>				•		
Section III: PERSON	IEL ON SITE					REPRESEI	NTING	
Bruce Weaver	(2011 110	e receptor, e a processo and e a		Golder	Associates			·
Lianne Mokfienski Ram	108			Golder	Associates			
Section IV: KEY REA	ADINGS/CONDITION	VS						
Intake Pump	<u> </u>			- -				Wellhead
Pressure					F	ow	Conductivity	Pressure
(PSI)	Filters			<u>/</u>	(G	PM)	Umhos/cm	(PSI)
0.0	Differential pres 0.0 minute in		Syster	n off	0.0		0.33	16.0
Section V: NOTES								
Weekly sampling done			<u> </u>	· · · · · · · · · · · · · · · · · · ·				
Section VI: SIGNIFI	and the second second	74 F. A.						
	ion of Problem				 -	ommendo		
<u>.</u>	tches are in need	of repair					have them repaire	ed before
Joine of the fatte still				7 N 2 12 1	Name of the property of	3 3 H 3 1 1		
Talenda Left (1975)	N LIST			<u>,</u>	<u></u>			
Tagreno Leffightologico			By Wh				Ву	
Section VII: ACTIO		Bruce We	By Wh			2/24/201		
Section VII: ACTIO			By Whaver			2/24/201 2/24/201	10	
Section VII: ACTION Item Change DO probe	filters	Bruce We	By Whaver				10	





Site:	HASR-Palm Bea	ch County,	Florida	Date Reported:	February 24,	2010
Contractor:	PBS&J / Golder	Associates	Inc. / Hillers Elect	rical Engineering		
Report Prepared By:	Bruce Weaver					
Contractor Proj. No.	C-C13401P-WO	10				
Section I: PROJECT	IDENTIFICATION					
Project Title	Hillsboro ASR P	ilot Facility	·			
Site Work	Cycle Testing -	Storage Cyc	cle 1		·	·
SFWMD PM	Bob Verrastro					
Section II: SUMMAR	Y OF ACTIVITIES					
Reviewed HASP and sig	ned log					
Checked oil in compre	ssor motor					
Spoke with Foxboro te "bad chip" problem.	ech support about	the conduc	tivity meter. The	are going to overnig	tht a replacement	unit due to a
Foxboro suggested a n	ew sensor with a h	igher range				
Replaced DO probe b	efore = 0.09 Afte	r= 2.31	· .			
Lubricated sluice gate	stems			· .		·
Faretand tunen on north	nnel building					
Sprayed wasp on perso						
Sprayed Round-up on t	·					
Sprayed Round-up on t	he weeds			REPRES	ENTING	
Sprayed Round-up on t	he weeds			REPRESI er Associates	ENTING	
Sprayed Round-up on t Section III: PERSONN	he weeds			All the All the second of the property of the second of th	ENTING	
Sprayed Round-up on t Section III: PERSONN Bruce Weaver	he weeds NEL ON SITE		Golde	All the All the second of the property of the second of th	ENTING	
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump	he weeds NEL ON SITE			er Associates		Wellhead
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA	the weeds NEL ON SITE ADINGS/CONDITION		Golde	er Associates	Conductivity	Pressure
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump	he weeds NEL ON SITE		Golde	er Associates		
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure	the weeds NEL ON SITE ADINGS/CONDITION	vs sure=0.0	Golde	er Associates	Conductivity	Pressure
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI)	the weeds NEL ON SITE ADINGS/CONDITION Filters Differential press	sure=0.0 terval	Golde	Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI)
Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0	the weeds NEL ON SITE ADINGS/CONDITION Filters Differential press	sure=0.0 terval	UV System off	Flow (GPM)	Conductivity Umhos/cm	Pressure (PSI)
Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne	the weeds NEL ON SITE ADINGS/CONDITION Filters Differential press 0.0 minute interests	sure=0.0 terval	UV System off	Flow (GPM)	Conductivity Umhos/cm 0.41	Pressure (PSI)
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne	THE WEEDS ADINGS/CONDITION Filters Differential press 0.0 minute interest of the press Differential press CANT PROBLEM	sure=0.0 terval	UV System off	Flow (GPM)	Conductivity Umhos/cm 0.41	Pressure (PSI)
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne	the weeds NEL ON SITE ADINGS/CONDITION Filters Differential press 0.0 minute interests to be replaced CANT PROBLEM ion of Problem	sure=0.0 terval	UV System off Contact vendo	Flow (GPM) 0.0 Recommender or Hillers Electrical to	Conductivity Umhos/cm 0.41 dation to have the valve sv	Pressure (PSI) 16.0
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne Section VI: SIGNIFIC Descript Some of the valve swi	The weeds ADINGS/CONDITION Filters Differential press 0.0 minute interests to be replaced CANT PROBLEM ion of Problem tches are in need of	sure=0.0 terval	UV System off Contact vendo repaired befor	Flow (GPM) 0.0 Recommend or Hillers Electrical te upcoming recovery r	Conductivity Umhos/cm 0.41 dation to have the valve synode.	Pressure (PSI) 16.0
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne Section VI: SIGNIFIC Descript Some of the valve swi	The weeds NEL ON SITE ADINGS/CONDITION Filters Differential press 0.0 minute interest to be replaced CANT PROBLEM ion of Problem tches are in need of	sure=0.0 terval	UV System off Contact vendo repaired befor	Flow (GPM) 0.0 Recommend or Hillers Electrical te upcoming recovery re	Conductivity Umhos/cm 0.41 dation to have the valve sv	Pressure (PSI) 16.0
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne Section VI: SIGNIFIC Descript Some of the valve swi Section VII: ACTION Item	The weeds NEL ON SITE ADINGS/CONDITION Filters Differential press 0.0 minute interests to be replaced CANT PROBLEM ion of Problem tches are in need of	sure=0.0 terval	UV System off Contact vendo repaired befor By Whom	Flow (GPM) 0.0 Recommend or Hillers Electrical te upcoming recovery r	Conductivity Umhos/cm 0.41 dation to have the valve symode.	Pressure (PSI) 16.0
Sprayed Round-up on to Section III: PERSONN Bruce Weaver Section IV: KEY REA Intake Pump Pressure (PSI) 0.0 Section V: NOTES Conductivity meter ne Section VI: SIGNIFIC Descript Some of the valve swi	The weeds ADINGS/CONDITION Filters Differential press 0.0 minute interests to be replaced CANT PROBLEM ion of Problem tches are in need of	sure=0.0 terval	UV System off Contact vendo repaired befor By Whom aver/Hillers	Flow (GPM) 0.0 Recommend or Hillers Electrical te upcoming recovery r	Conductivity Umhos/cm 0.41 dation to have the valve symode.	Pressure (PSI) 16.0





Site:	HASR-Palm Bead	ch County,	Florida	Date	Reported:	March 3, 2010)
Contractor:	PBS&J / Golder	Associates	Inc. / Hillers E	lectrical E	ngineering		-
Report Prepared By:	Bruce Weaver a	nd Lianne /	Mokfienski Ran	105		-	
Contractor Proj. No.	C-C13401P-W01	10					
Section I: PROJECT	IDENTIFICATION			100			
Project Title	Hillsboro ASR Pi				<u></u>		
Site Work	Cycle Testing -	Storage Cy	cle 1	-			
SFWMD PM	Bob Verrastro						
Section II: SUMMA	RY OF ACTIVITIES						
Reviewed HASP and s	igned log						
Activated bubble burs		re					
Spoke with Foxboro also.	tech support about	the condu	ctivity meter	again. They	are going to	overnight a replace	ement meter
Foxboro will ship new	sensor with a highe	er range up	to 20,000 µS/	cm.			
Replaced Desiccants	in turbidity meters.						
Ordered flange O-ring	gs for UV canisters						
Sampled the 4 th Weel	kly and Once at the	End Event	for Storage Pha	ise.			
Fixed door on the pe							
Section III: PERSON	INEL ON SITE				REPRESI	NTING	
Bruce Weaver			0	iolder Assoc	riates		
		-					
Section IV: KEY RI	ADINGS/CONDITION	ıs					
Intake Pump Pressure					Flow	Conductivity	Wellhead Pressure
(PSI)	Filters		UV		(GPM)	Umhos/cm	(PSI)
0.0	Differential press		System o	ff 0.	0	0.38	16.0
Section V: NOTES							
Conductivity meter a	and sensor need to b	e replaced	l Rojako ja ingelija ka		TANK LANGE	etica e ea talita	N
Section VI: SIGNIF	TICANT PROBLEM						
Descrip	tion of Problem_				Recommend		
Some of the valve sv	vitches are in need	of repair			ers Electrical t ning recovery n	o have the valve sw node.	ritches
Section VII: ACTION	ON LIST			•	•		
Ite	m		By Whon			Ву	
Change conductivity	meter	Bruce We	aver/Hillers		3/8/201	0	
Replace gasket on U	V filters	Bruce We	aver		Next red	harge phase	
System transition		Bruce We	eaver		3/8/201	0	
1st Weekly Sampling sampling and Ecotox		Bruce We	eaver and Lianr	e Ramos	3/9/201	0 .	





Site:	HASR-Palm Beach Coun	HASR-Palm Beach County, Florida Date Re)
Contractor:	PBS&J / Golder Associa	ites Inc. / Hillers	Electrical Engin	eering		
Report Prepared By:	Bruce Weaver					
Contractor Proj. No.	C-C13401P-W010					
Section I: PROJECT	IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Fac					
Site Work	Cycle Testing - Storage	Cycle 1				
SFWMD PM	Bob Verrastro					
Section II: SUMMAR	Y OF ACTIVITIES				lite a selatione, trib Selation altribute	
Reviewed HASP and sig	gned log					
Replaced conductivity	meter		-			
Replaced conductivity	sensor with one with a hig	ther range up to	20,000 μS/cm.	· ·		
Flow due to artesian p	ressure to quarry = -1019	Conductivity = 67	7 and Turbidity	= 0.43		
Section III: PERSONI	IEL ON SITE		navy Janoba (d. 1919 - Pakasy Te	REPRESE	NTING	
Bruce Weaver			Golder Associate	s		
Gabe Brendel			Golder Associate	s		
Section IV: KEY REA	ADINGS/CONDITIONS					
Intake Pump						Wellhead
Pressure			İ	Flow	Conductivity	Pressure
(PSI)	<u> Filters</u>	UV		(GPM)	Umhos/cm	(PSI)
0.0	Differential pressure=0.0 0.0 minute interval	System	off 0.0		0.47	16.0
Section V: NOTES						
Start recovery phase A	Mondav					
Section VI: SIGNIFI	CANT PROBLEM					
Section VI: SIGNIFI			R	ecommend		
Descript	CANT PROBLEM ion of Problem tches are in need of repair	- Contact v	R	ecommend Electrical to	ation have the valve sw	ritches
Descript Some of the valve swi	ion of Problem	Contact vergaired b	R endor or Hillers	ecommend lectrical to recovery m	ation o have the valve sw node.	ritches
Descript Some of the valve swi	ion of Problem tches are in need of repair	Contact vergaired b	Rendor or Hillers before upcoming	ecommend lectrical to recovery m	ation o have the valve sw node.	ritches





Site:	HASR-Palm Beach County, F	lorida	Da	ate Reported:	March 8, 2010	
Contractor:	PBS&J / Golder Associates	inc. / Hillers	Electric	al Engineering		
Report Prepared By:	Bruce Weaver and Lianne M	lokfienski Ra	mos			
Contractor Proj. No.	C-C13401P-W010					
Section I: PROJECT	IDENTIFICATION					
Project Title	Hillsboro ASR Pilot Facility	<u> </u>	· · · · · · · · · · · · · · · · · · ·	<u>, , , , , , , , , , , , , , , , , , , </u>		
Site Work	Cycle Testing - Transition f	rom Storage	to Reco	very Cycle 1		
SFWMD PM	Bob Verrastro	·				
Section II: SUMMAR	Y OF ACTIVITIES					
Reviewed HASP and sig	gned log					
Secured a tarp with cand secured it.	argo strap on the outfall culve	ert pipe to w	etland th	nen placed a ½ inch	plywood board in	front of tarp
Difficulty with valve p	ermissive switches. Switch M-8	was by-pass	ed			
Difficulty with check v	alve permissive switch, pump	unable to ge	t past st	art up mode. Switch	n unstuck	
Pump shutting off ever	ry 10 min. Conductivity meter	sending wro	ng signal	. Conductivity meter	er by-passed	
Conductivity meter rea	ading too high. Tech support c	alled 1199=	Before	626 = After		
	support remedied problem in n				·	
2 nd Turbidity meter ne	ar conductivity meter may nee	ed to be refi	tted to s	ide of pipe to avoid	vacuum. Meter not	operational
Sampled First Flush Ev	rent and part of 1st Weekly Eve	ent for Recov	very Pha	se.		
Section III: PERSONI	NEL ON SITE			REPRESE	NTING	
Bruce Weaver and Lia	nne Mokfienski Ramos		Golder A	Associates		
Bob Verrastro, Rick Ne	evulis and Clayton McMillan		SFWMD			
Jon Shaw			PBS &J			
Ed Smith, Sam Chamre	ess and Alex Stojanovial		Hillers	Electrical Engineeri	ng	
Stan Ganthier, Ben Fis	sch and Fred Rapach		FDEP			
					militar de la composición dela composición de la composición de la composición de la composición de la composición dela composición de la /del>	*****
Section IV: KEY RE.	ADINGS/CONDITIONS					
Intake Pump				5 1	Carada activita	Wellhead Pressure
Pressure				Flow	Conductivity	(PSI)
(PSI)	Filters	UV		(GPM)	Umhos/cm	(P3I)
0.0	Differential pressure=0.0 0.0 minute interval	System	off	3476	684	84
Section V: NOTES						
System is in recovery	mode			and the second s	to the second second	
Section VI: SIGNIF	ICANT PROBLEM		e grunnerr Leiter ein			
Descript	tion of Problem			Recommend	lation	
	cion oj Proptem	Į.		Necomment		

Section VII: ACTION LIST	in a figure recovering property of the	
ltem	By Whom	Ву
Conductivity meter needs to be able to send to the PLS board	Bruce Weaver/Hillers	3/11/2010
Replace gasket on UV filters	Bruce Weaver	Next recharge phase
2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010





Site: H	ASR-Palm Bead	h County,	Florida		Date Repor	ted:	March 9, 2010)
Contractor: PI	BS&J / Golder	Associates	Inc. / Hiller	s Electr	ical Engine	ring		
Report Prepared By: Bi	ruce Weaver a	nd Lianne /	Mokfienski R	amos				
Contractor Proj. No.	-C13401P-WO1	0						
Section I: PROJECT IDEN	TIFICATION							
Project Title H	illsboro ASR Pi	lot Facility	/			-		
Site Work C	ycle Testing -	Transition	from Storage	e to Rec	overy Cycle	1		
SFWMD PM B	ob Verrastro							
Section II: SUMMARY OF	ACTIVITIES							
Reviewed HASP and signed	log							
Sampled the part of 1st We		ery Phase.				-		
Conductivity meter Tech su	pport called t	o get scalii	ng range for	Hillers				
Samples for Bioassay, Cerp				,		•••		-
Section III: PERSONNEL O	ON SITE					REPRESI	NTÍNG	
Bruce Weaver and Lianne A	And the state of the factor of the state of		-Maria ke-jarawaran		Associates	the property of the	AND	10.
Section IV: KEY READING	SS/CONDITION	IS.		n ey NA 1 e a				
Intake Pump Pressure					F	low	Conductivity	Wellhead Pressure
(PSI)	Filters		υv	,	(0	PM)	Umhos/cm	(PSI)
00 1	ferential press 0.0 minute int	I	System	off	3476		763	82
Section V: NOTES								
System is in recovery mode	<u></u>		- -					
Section VI: SIGNIFICANT	PROBLEM						공통이 되는 사이들의 전환이 되는 사람들이 사용하는 사람이	
Description o	of Problem				Re	commend	lation	_
Some of the valve switcher		of repair	Jon Shav	v to con	itact valve o	ompany		
Section VII: ACTION LIS	<i>T</i>							
Item	**************************************		By Wh	om			Ву	
Conductivity meter need to send to the PLS board	s to be able	Bruce We	eaver/Hillers			3/11/20	110	
Replace gasket on UV filte	rs	Bruce We	eaver			Next red	harge phase	
2 nd Turbidity meter near meter may need to be ref of pipe to avoid vacuum.	conductivity fitted to side	Bruce We	eaver/vende	r		Next red	charge phase	
2 st Weekly Sampling Eve sampling and Ecotox samp	ent, Isotopes lling	Bruce We	eaver and Lia	anne Rar	mos	3/16/20	010	





Site:	HASR-Palm Bead	h County,	Florida	Date Repo	rted:	March 10, 201	0
Contractor:	PBS&J / Golder	Associates	Inc. / Hillers E	lectrical Engine	ering		
Report Prepared By:	Bruce Weaver a	nd Lianne	Mokfienski Ram	ios			
Contractor Proj. No.	C-C13401P-W01	0			·		
Section I: PROJECT	IDENTIFICATION						
Project Title	Hillsboro ASR Pi			,. <u></u>			
Site Work	Cycle Testing -	Transition	from Storage t	o Recovery Cycl	⊋ 1		
SFWMD PM	Bob Verrastro						
Section II: SUMMAR	Y OF ACTIVITIES						
Reviewed HASP and sig		· <u>/ </u>	<u> </u>				
Adjusted flow. Before		1					
Conductivity meter Te			e of conductivit	ty. Hillers conta	cted		
Removed iguana from			<u></u>				
Some foaming noticed	· · · · · · · · · · · · · · · · · · ·		<u> </u>				
Measured conductivity		line meter	=842				
Measured turbidity po							
Put flow totalizer in re				ard flow still re	ads 21331	 1	
Removed tarp and ply						·	
Sampled for isotopes			<u>-</u>				
Tag 2. avger" after to a 10 c.	NECON SITE				REPRESI	INTING	
Section III: PERSONI Bruce Weaver	NEL UN SITE	<u> </u>		iolder Associate	44 - 45 - 411 - 55 - 44	-Mr.MO	<u>y tirril Algery ia.</u>
Diuce Weaver					<u> </u>		
	ADINGS/CONDITION	<u>s</u> [<u> </u>		Wellhead
Intake Pump Pressure					Flow	Conductivity	Pressure
(PSI)	Filters		UV		GPM)	Umhos/cm	(PSI)
	Differential press	ure=0.0					
0.0	0.0 minute int	. 1	System o	ff 3501		842	79
							i Elija jagan, Lara
Section V: NOTES			<u> </u>				
System is in recovery	mode	 					n area ari
Section VI: SIGNIFI	CANT PROBLEM						
Descript	tion of Problem_			Re	commend	lation	
Some of the valve sw	itches are in need o	of repair		o contact valve			
Section VII: ACTIO	N LIST						t alla b
iten			By Whom	1		Ву	
Conductivity meter to send to the PLS bo		Bruce We	eaver/Hillers		3/11/20	010	
Replace gasket on UV	filters	Bruce We	aver		Next red	charge phase	
2 nd Turbidity meter meter may need to b of pipe to avoid vacu	e refitted to side	Bruce We	eaver/vender		Next re	charge phase	

2st Weekly Sampling Event, Isotopes sampling and Ecotox sampling

Bruce Weaver and Lianne Ramos

3/16/2010





Site:	HASR-Palm Bea	ch County,	Florida		Date Repo	rted:	March 11, 201	10
Contractor:	PBS&J / Golder	Associates	Inc. / Hille	rs Electri	ical Engine	ering		
Report Prepared By:	Bruce Weaver a	nd Lianne	Mokfienski F	Ramos				
Contractor Proj. No.	C-C13401P-WO	10	<u> </u>					
Section I: PROJECT	IDENTIFICATION							
Project Title	Hillsboro ASR P		/					
Site Work	Cycle Testing -	Transition	from Storag	e to Rec	overy Cycl	e 1		
SFWMD PM	Bob Verrastro		. .					
Section II: SUMMAR	Y OF ACTIVITIES			state of the state				
Reviewed HASP and sig	ned log							
Conductivity meter Te Hillers contacted.				Marie (1				
Bruce Weaver			and the second of the second	· · · · · · · · · · · · · · · · · · ·	Associates			· ·
			 					
Section IV: KEY REA	DINGS/CONDITION	ıs						
Intake Pump Pressure				-·· <u>·</u>		low	Conductivity	Wellhead Pressure
(PSI)	Filters		UV	<u> </u>	(GPM)		Umhos/cm	(PSI)
0.0	Differential press 0.0 minute int		Systen	n off	3515		933	80
Section V: NOTES								
System is in recovery r					· · · · · · · · · · · · · · · · · · ·			
Section VI: SIGNIFIC	The second of							
	ion of Problem					commend		· · · · ·
Some of the valve swit		of repair	Jon Sha	w to cont	tact valve	company		
Section VII: ACTION	l LIST			50 J. 17 J.		n an war o Politika ak i		
Item	(10)		By Wh	om		<u> </u>	Ву	<u></u>
Conductivity meter r		Bruce We	eaver/Hillers	.		3/17/20	10	
Replace gasket on UV	filters	Bruce We	eaver			Next rec	harge phase	•
2 nd Turbidity meter r meter may need to be of pipe to avoid vacuu	e refitted to side	Bruce We	eaver/vende	r	•	Next rec	harge phase	
2st Weekly Sampling sampling and Ecotox s	Event, Isotopes ampling	Bruce We	eaver and Lia	anne Ram	nos	3/16/20 ⁻	10	





Site:	HASR-Palm Bead	h County,	Florida		Date Repor	ted:	March 15, 201	0
Contractor:	PBS&J / Golder	PBS&J / Golder Associates Inc. / Hillers Electrical Engineering						
Report Prepared By:	Bruce Weaver a	nd Lianne I	Mokfienski F	Ramos				
Contractor Proj. No.	C-C13401P-WO1	0						
Section I: PROJECT	IDENTIFICATI O N							
Project Title	Hillsboro ASR Pi	lot Facility						
Site Work	Cycle Testing -	Recovery	Cycle 1					
SFWMD PM	Bob Verrastro							
Section II: SUMMAR	Y OF ACTIVITIES	1						
Reviewed HASP and sig	ened log	<u>.</u> .	<u> </u>					
Ecotox sampling (CERI		")						
Jon Shaw inspecting va	alve switches							
Inspected turbidity me		ılent/bubb	les in vial		- · ·			
No alarms on the conti		-						
Measured 800 feet dov		Isboro Can	al. Marked a	area with	stakes.			
Measured the width of		·						
Soundings were taken		ft =9.2, 60	Oft = 7.5 (m	easured :	from the so	uth)		
To estimate flow spee				_			rage time was 5:06	
Totalizer = 349263 M					<u> </u>			*
Section III: PERSON	NEL ON SITE					REPRESE	NTING	
Bruce Weaver / Lianne			<u> An Alberta (A. 1907)</u>	1	Associates	4 (1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	**************************************	to the second second
Jon Shaw	·			PBS&J				
Section IV: KEY REA	ADINGS/CONDITION	IS		12.83.38				
Intake Pump	<u></u>	Ī						Wellhead
Pressure					F	low	Conductivity	Pressure
(PSI)	Filters		U	/	(0	РМ)	Umhos/cm	(PSI)
0.0	Differential press 0.0 minute int	I	Syster	n off	3505		1366	79
Section V: NOTES					1.7.7.7.	14.11		
System is in recovery	mode							
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	CANT PROBLEM					10 10 10 10 10 10 10 10 10 10 10 10 10 1		
		<u>k djanage</u>			Po	ommend	ation	
Some of the valve swi	ion of Problem	of repair	Jon Sha	w to con	tact valve c		acion	· · ·
		, repair		44 1V	4			
Section VII: ACTION			A. 144				Bu Bu	<u> Ann Amerika</u>
Item			By Wh				Ву	
Conductivity meter r to send to the PLS box		Bruce We	aver/Hiller	.		3/17/20	10	
Replace gasket on UV	filters	Bruce We	aver			Next rec	harge phase	
2 nd Turbidity meter in meter may need to be of pipe to avoid vacua	e refitted to side	Bruce We	aver/vende	r		Next red	:harge phase	

2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/16/2010
Valve switches need repair	Jon Shaw	Next recharge phase

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Site:	HASR-Palm Bead	th County	Florida	Date Reporte	d: March 16,	2010	
	 		inc. / Hillers Elec	<u> </u>			
Contractor:	-		Mokfienski Ramos	tricat trigineerii	<u>'5</u>		
Report Prepared By:			WORTENSKI IKUITOS				
Contractor Proj. No.	C-C13401P-W01	1777 14					
Section I: PROJECT	IDENTIFICATION	•					
Project Title	Hillsboro ASR Pi	lot Facility	·				
Site Work	Cycle Testing -	Recovery (Cycle 1				
SFWMD PM	Bob Verrastro				in the state of th	ti t	
Section II: SUMMAR	Y OF ACTIVITIES						
Reviewed HASP and sig	gned log						
Weekly Recovery samp	oling completed						
Measured conductivity	with the YSI. YSI	= 1386 cor	nductivity inline A	SR = 1490			
Measured turbidity wi	th portable meter	= 0.39 tu	rbidity inline =0.4	1	<u> </u>		
Measured conductivit Outfall = 870 800MZ		to the o	canal and at th	e 800ft mixing	zone(MZ) from the	outfall mark.	
Minor foam in intake s	tructure.						
Totalizer = 349269M							
Section III: PERSON!	NEL ON SITE				EPRESENTING		
Section IV: KEY REA	ADINGS/CONDITION	ıc					
Intake Pump Pressure	-DINOSI CONDITION	 		Flor	v Conductivit	Wellhead y Pressure	
(PSI)	Filters		UV	(GP/	(A) Umhos/cm	(PSI)	
0.0	Differential press		System off	3498	1500	79	
Section V: NOTES							
System is in recovery	mode						
	CANT PROBLEM	W 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
					nmendation		
Some of the valve swi	ion of Problem	of repair	Jon Shaw to c	ontact valve con			
							
Section VII: ACTIO		<u> </u>	By Whom		By	<u>ala da Afrika (1), j</u>	
Item			by Willoll		Бу		
Conductivity meter r to send to the PLS bo		Bruce We	aver/Hillers		3/17/2010		
Replace gasket on UV	Cilhora	Bruce We	aver	l N	ext recharge phase		
2 nd Turbidity meter meter may need to b of pipe to avoid vacuu	near conductivity e refitted to side		eaver/vender		ext recharge phase		

Next recharge phase Jon Shaw Valve switches need repair





Site:	HASR-Palm Bea	ch County,	Florida	Da	ate Repo	rted:	March 17, 20	10
Contractor:	PBS&J / Golder	Associates	Inc. / Hillers	Electrica	al Engine	ering		
Report Prepared By:	Bruce Weaver a	nd Lianne	Mokfienski Ra	amos				
Contractor Proj. No.	C-C13401P-W0	10				<u>.</u>		
Section I: PROJECT I	DENTIFICATION				*			
Project Title	Hillsboro ASR P						· · · · · · · · · · · · · · · · · · ·	
Site Work	Cycle Testing -	Recovery	Cycle 1			.,		
SFWMD PM	Bob Verrastro							
Section II: SUMMARY	OF ACTIVITIES							
Reviewed HASP and sign	ned log							
Measured conductivity		= 1418 co	nductivity inl	ine ASR =	1580			
Measured turbidity wit	h portable meter	= 0.40 tu	rbidity inline	=0.43				
Measured conductivity Outfall = 870 800ft	y at the outfa MZ =709	ll to the	canal and	at the	800ft	from the	outfall. (mixir	g zone=MZ)
Minor foam in intake st	ructure.					•-		
Attached staff gauge in	the canal to the	wall of the	in-take struc	ture.				
Cleaned staff gauges in	canal and quarry		_					
Remarked the 800ft ma	ark with orange st	akes.						
Totalizer = 349272M							·	
Section III: PERSONN	EL ON SITE					REPRESEN		
Bruce Weaver	<u> </u>				ssociates			
Section IV: KEY REA	DINGS/CONDITION	15						
Intake Pump Pressure					F	low	Conductivity	Wellhead Pressure
(PSI)	Filters		UV		(0	GPM)	Umhos/cm	(PSI)
0.0	Differential press		System	off	3497 1518		1518	80
Section V: NOTES		N. 177 N.			est de variables			
System is in recovery n	<u> </u>	· · · · · · · · · · · · · · · · · · ·						
	ANT PROBLEM				and the second			
	on of Problem	<u> 1960 - La propioso de la compansión de la</u>		<u> </u>		commenda		<u> </u>
Some of the valve swit		 of repair	Jon Shaw	to conta			·····	
	r Land Total Ex	ing the second s		Taran B	7 31 1			
Section vii: ACTION	List		By Who		· *	Profesion entire	By	<u> 13 (1.4 5/2 4.5).</u>
Conductivity meter no		Bruce We	eaver/Hillers			3/17/2010	<u> </u>	
Replace gasket on UV		Bruce We	aver			Next recha	arge phase	
2 nd Turbidity meter n meter may need to be of pipe to avoid vacuu	ear conductivity refitted to side	<u> </u>	eaver/vender			Next recha		

2 st Weekly Sampling Event, Isotopes sampling and Ecotox sampling	ruce Weaver and Lianne Ramos	3/16/2010
Valve switches need repair Jo	on Shaw	Next recharge phase





Site:	HASR-Palm Bea	ch County,	Florida	Date Rep	orted:	March 22, 20	10
Contractor:	PBS&J / Golder	Associates	Inc. / Hiller	Electrical Engin	eering		
Report Prepared By:	Bruce Weaver a	and Lianne	Mokfienski Ra	imos			
Contractor Proj. No.	C-C13401P-W0	10					
Section I: PROJECT II	DENTIFICATION						
Project Title	Hillsboro ASR P	ilot Facilit	:y				
Site Work	Cycle Testing -	Recovery	Cycle 1				
SFWMD PM	Bob Verrastro						
Section II: SUMMARY	OF ACTIVITIES						
Reviewed HASP and sign	ned log					· · · · · · · · · · · · · · · · · · ·	
Measured 800 meters de		he outfall	structure				
Marked the 800M mark	with orange stake				<u>.</u>		
Measured conductivity			nductivity in	ine ASR = 2252	-	 -	
Conductivity at the out		- -					.
Conductivity 800M dow		outfall = 9	943				_
Completed Annual samp							
Totalizer = 349297M							
Section III: PERSONNI	EL ON SITE				REPRESE	NTING	
Bruce Weaver and Lian		nos		Golder Associate			<u></u>
Didde (rear or aria aran				-	 		
	DINGS/CONDITION	<u> </u>					
	DINGS/CONDITION	12	<u> </u>				Wallbaad
Intake Pump Pressure					Flow	Conductivity	Wellhead Pressure
(PSI)	Conductivity Umhos/cr		DO		(GPM)	Umhos/cm	(PSI)
(, 0, 7)							· ·
0.0	943		7.98		3487	2048	80
		1 14. 14 1.Ng					
Section V: NOTES							
System is in recovery m	node					The second second second second	<u> </u>
Section VI: SIGNIFIC	ANT PROBLEM						
Description of Problem			Recommendation				
Some of the valve switches are in need of repair			Jon Shaw to contact valve company				
Section VII: ACTION	LIST						
Item			By Who			Ву	
C		Bruce We	uce Weaver/Hillers		Next recharge phase		
Replace gasket on UV f	Replace gasket on UV filters Bruce W		eaver		Next recharge phase		
2 nd Turbidity meter near conductivity		Bruce we	eaver		1111111111	-	
2 nd Turbidity meter no meter may need to be	ear conductivity refitted to side		eaver/vender			harge phase	

Valve switches need repair	Jon Shaw	Next recharge phase
' '		





Site:	HASR-Palm Bea	HASR-Palm Beach County, Florida Date Ro			Reported:	ported: March 23, 2010		
Contractor:	PBS&J / Golder	Associate	s Inc. / Hille	rs Electrical	Engineering			
Report Prepared By:	Bruce Weaver	Bruce Weaver and Lianne Mokfienski Ramos						
Contractor Proj. No.	C-C13401P-W0	10						
Section I: PROJECT	IDENTIFICATION							
Project Title	Hillsboro ASR P	ilot Facilit	у					
Site Work	Cycle Testing -	Recovery	Cycle 1					
SFWMD PM	Bob Verrastro							
Section II: SUMMAR	Y OF ACTIVITIES							
Reviewed HASP and sig	ned log				_			
Slight sulfur smell near	outfall structure	-						
Conductivity with the `	YSI = 2248 condu	ctivity inlin	ne ASR = 240	6				
Conductivity at the out	tfall = 1274							
Conductivity 800M dov	wnstream from the	outfall =	864					
Completed Weekly sam	npling							
Isotope sampling								
Totalizer = 349304M		·						
Section III: PERSONN	IFL ON SITE	1 2 3 4 4 4			REPRESE	NTING		
Bruce Weaver and Lian				Golder Asso		<u> </u>	<u> </u>	
Didec Medical did Dail								
	ADINGS/CONDITION	12	<u>; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; </u>	<u> </u>	<u>in ki ji tiyekeri</u> T			
Intake Pump Pressure					Flow	Conductivity	Wellhead Pressure	
(PSI)	Conductivity - Umhos/cn		DC	,	(GPM)	Umhos/cm	(PSI)	
, , ,								
0.0	864		7.8	7	3486	2248	80	
Section V: NOTES				<u> </u>	<u> </u>		The parameter	
System is in recovery r	mode				11 - 12 - 12 - 12 - 12 - 12 - 12 - 12 -			
Section VI: SIGNIFIC	CANT PROBLEM							
Description of Problem			Recommendation					
Some of the valve swit	tches are in need o	of repair	Jon Sha	w to contact	valve company			
Section VII: ACTION	I LIST							
item				By Whom		Ву		
Conductivity meter needs to be able bruce Wo		Bruce We	eaver/Hillers		Next rec	Next recharge phase		
Replace gasket on UV	filters	Bruce We	eaver		Next rec	Next recharge phase		
meter may need to be	2 nd Turbidity meter near conductivity		/eaver/vender		Next rec	Next recharge phase		
	ım.							

Next recharge phase Valve switches need repair Jon Shaw





Site:	HASR-Palm Bea	ch County	, Florida	Date Reported:	March 24, 20	010	
Contractor:	PBS&J / Golde	r Associate	s Inc. / Hillers Ele	ctrical Engineering			
Report Prepared By:	Bruce Weaver	and Lianne	Mokfienski Ramos		· · · · ·	_	
Contractor Proj. No.	C-C13401P-W0	10					
Section I: PROJECT	IDENTIFICATION				N		
Project Title	Hillsboro ASR F	ilot Facilit	у				
Site Work	Cycle Testing -	Recovery	Cycle 1				
SFWMD PM	Bob Verrastro					•••	
Section II: SUMMAR	Y OF ACTIVITIES						
Reviewed HASP and si	gned log						
Slight sulfur smell nea			-				
Conductivity with the	YSI = 2274 condu	ctivity inlir	ne ASR = 2510				
Conductivity at the ou	tfall = 1263						
Conductivity 800M do	wnstream from the	outfall =	860 Umhos/cm		<u> </u>		
Measured distance fro	m the ASR outfall (to the brid	ge = 1292.3 Meter	3			
Brushed intake screen							
Sprayed weed killer or	n weeds						
Activated manual bub	ble burst						
Totalizer = 349308M							
Section III: PERSONI				REPRESE	NTING		
Bruce Weaver and Lia			Gold	ler Associates		కృ _{త క} ్రాజాశ్వర్గి క	
Section IV: KEY REA	ADINGS/CONDITION	ıs					
Intake Pump	-DIIVOSI CONDITION					Wellhead	
Pressure	Conductivity	รกกม		Flow	Conductivity	Pressure	
(PSI)	Umhos/cn		DO	(GPM)	Umhos/cm	(PSI)	
0.0	86		7.83	3499	2274	80	
						l e egi feri.	
Section V: NOTES	<u> </u>	<u> </u>		<u>in a Principal de Persendi. I</u>	<u> Awaran yang libung salik</u>	<u> </u>	
System is in recovery		Williams					
Section VI: SIGNIFI	CANT PROBLEM	6					
Description of Problem				Recommendation			
Some of the valve swi	tches are in need o	of repair	Jon Shaw to c	ontact valve company			
Section VII: ACTION	N LIST						
Item			By Whom		Ву		
Conductivity meter n to send to the PLS box		Bruce We	aver/Hillers	Next rec	harge phase	ge phase	
Replace gasket on UV	filters	Bruce We	aver	Next rec	harge phase		
	ty meter near conductivity need to be refitted to side void vacuum. Bruce Weaver/vend				Next recharge phase		

3rd Weekly Sampling Event, Isotopes sampling and Ecotox sampling	Bruce Weaver and Lianne Ramos	3/31/2010	
Valve switches need repair	Jon Shaw	Next recharge phase	