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May 23, 2013

Mr. F. Thomas Lubozynski, P.E. Air &Waste Program Administrator Florida Department of Environmental Protection 3319 Maguire Blvd., Suite 232 Orlando, FL 32803-3767 SOLID WASTE SECTION MAY 2 8 2013

RE:

Volusia County - Tomoka Farms Road Landfill -N Cell Exp.:

Landfill Gas Collection System Expansion Sequence 1A Completion NotificationFacility

ID: 1270117

Permit No. 0078767-030-SO-01

Dear Mr. Lubozynski:

I am submitting this certification report for the Volusia County (County) Phase III Sequence 1A landfill Gas Construction project at the Tomoka Farms Road Landfill (Landfill).

This report provides certification of construction of the North Cell Landfill Gas Collection System Construction for Closure – Sequence 1A. This sequence of closure included the relocation of 645 LF of 16" gas line header, 4" force main, and 2" air line along the north and west slopes of the North Cell. With the 16" gas line header being relocated up slope this project also included converting 5 existing wells to remote well heads. This sequence also included running new lateral connections for existing wells along the west slope to allow for sufficient cover in closure. Construction at the Tomoka Farms Road Landfill was carried out starting on February 5, 2012 with substantial completion on March 9, 2012.

If you should have any questions regarding this request please do not hesitate to contact me at (386) 947-2952

Sincerely,

Junos Reed, P.E. Civil Engineer III

Volusia County, Solid Waste Division

cc: Mr. Richard Tedder, P.E. FDEP, Solid Waste Program Administrator, Tallahassee

Mr. Lenny Marion, Director, Volusia County Solid Waste Division

Ms. Jennifer Stirk, Environmental Specialist III, Volusia County SWD (File)

Mr. Carlo Lebron, P.E., Vice-President, HDR Engineering, Inc.

ADM-13-114

3151 East New York Avenue, DeLand, FL 32724 Tel: 386-943-7889 FAX: 386-943-7904 www.volusia.org/recycle

#### Received



# BSHW

# Report of Construction February 2013 – March 2013 NORTH CELL LANFILL GAS CONSTRUCION FOR CLOSURE SEQUENCE 1A TOMOKA FARMS ROAD LANDFILL

Presented to:

Volusia County Solid Waste Division 1990 Tomoka Farms Road Daytona Beach, Fl 32124

Presented by:

Volusia County Solid Waste Construction Engineer 1990 Tomoka Farms Road Daytona Beach, Fl 32124

> Florida Board of Professional Engineers Certification No. 66408

SOLID WASTE SECTION MAY 28 2013

Junos Reed, P.E.

Florida Registration No. 66408

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#### **Project Summary**

This report provides certification of construction of the North Cell Landfill Gas Collection System Construction for Closure – Sequence 1A. This sequence of closure included the relocation of 645 LF of 16" gas line header, 4" force main, and 2" air line along the north and west slopes of the North Cell. With the 16" gas line header being relocated up slope this project also included converting 5 existing wells to remote well heads. This sequence also included running new lateral connections for existing wells along the west slope to allow for sufficient cover in closure. Construction at the Tomoka Farms Road Landfill was carried out starting on February 5, 2012 with substantial completion on March 9, 2012.

#### Site Background

Tomoka Farms Road Landfill (Landfill) is an active municipal solid waste landfill that is owned and operated by Volusia County. It is located at 1990 Tomoka Farms Road, Volusia County, Florida. This sequence of closure was designed by HDR Engineering, Inc. with Shaw Environmental and Infrastructure, Inc, (Shaw) as the primary construction contractor. Junos Reed, P.E. with Volusia County Solid Waste provided the construction quality assurance for the project. The landfill has a methane gas to energy plant onsite which is operated by Fortistar Methane Group. The primary means of methane gas destruction is by Fortistar, a backup flare station is located adjacent to the methane to energy plant and is used in cases of excess gas or a plant shut down.

#### **Contact List**

The parties involved in this project are listed below:

#### Owner:

Volusia County Solid Waste Division 1990 Tomoka Farms Road Daytona Beach, Florida 32124 (386) 947-2952

#### **Closure Sequence 1A Design Engineer:**

HDR Engineer, Inc. 200 West Forsyth Street, Suite 800 Jacksonville, Florida 32202 (904) 367-6025

#### **Construction Contractor:**

Shaw Environmental and Infrastructure, Inc 4171 Essen Lane Baton Rouge, LA 70809 (225) 987-6803

#### **Construction Quality Assurance and Record Documentation:**

Volusia County Solid Waste Division 1990 Tomoka Farms Road Daytona Beach, Florida 32124 (386) 947-2952

#### Surveyor:

Sliger & Associates, Inc 3621 Nova Road Port Orange, Florida 32127 (386) 761-5385

#### **Gas to Energy Developer:**

Fortistar Methane Group 1990 Tomoka Farms Road Daytona Beach, Florida 32124 (386) 239-9730

#### **Summary of Construction**

#### North Cell Closure - Sequence 1A

Construction at the Tomoka Farms Road Landfill commenced on February 5, 2012 with substantial completion on March 9, 2012. The design include the relocation of 645 LF of 16" gas line header, 4" force main, and 2" air line along the north and west slopes of the North Cell. With the 16" gas line header being relocated up slope this project also included converting 5 existing wells to remote well heads. This sequence also included running new lateral connections for existing wells along the west slope to allow for sufficient cover in closure. In total the North Cell Landfill Gas Collection System Construction for Closure – Sequence 1A included the installation of the following quantities as recorded by the contractor.

- o 645 feet of 16" HDPE SDR 17 header piping
- o 701 feet of 6" HDPE SDR 11 sub header lateral piping
- o 961 feet of 4" HDPE SDR 11 sub header lateral piping
- 2354 feet of 4" HDPE SDR 11 condensate force main piping
- 2506 feet of 2" HDPE SDR 9 compressed air main piping
- Two Header/Airline/Condensate access point
- Convert 5 existing vertical wells to remote wells
- Once condensate force main isolation valve assembly

#### **Lateral Tie-In Connections**

Existing wells EW-8, EW-64, EW-65, EW-66, and EW-67 were converted to remote wells with the lateral lines connected to the new 16" header line. In addition new lateral lines were installed from EW-5, EW-9, EW-11, EW-12A, and EW-68 to the new 16" header line. All of the new lateral connections were installed with 2" compressed air and 4" condensate force main lines.

#### 16" Header Installation

The 16" header line was installed from the point of connection on the North Slope to the point of connection on the west slope with little deviation from the design drawings. The header was installed with a minimum of a 3% slope from the high to the points of connection to the existing header on the north and west slopes. The existing header was removed from the point of connection on the north slope up to the point at which it crossed under the existing access road on the west slope. At the abandonment points a slip cap was installed. As the County re-grades the west slope and moves the access road to the west in preparation for closure, additional sections of the existing header will be removed as necessary.

#### **Horizontal Well Retrofits**

As part of the previous construction (sequence 1) the Horizontal collectors were converted to vertical wellheads and drip traps for the collection of condensate. As part of this construction (sequence 1A) Horizontal Collectors HC-1A, HC-1B, HC-2A, HC-2B, HC-3A, HC-3B, HC-4A, HC-4B, HC-5A, HC-5B, HC-6A, and HC-6B were fitted with 2" QED AP-2 pumps for dewatering. 4" condensate force main and 2"

compressed air lines were installed to each of the Horizontal Collectors and connected to the existing system on the South and North slopes respectively.

Additional Information of construction activities can be found in the daily logs.

# Appendix A

Project Name: North Cell Closure - Sequence 1-A		Date: 2/4/2013	Day: Monday		
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	cal		
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)		
Weather	Conditions:		(4)		
	Temperature	Weather	Conditions	Precipitation	
Min	45	Morning:	Afternoon	·	
Max	71	Clear	Clear	0" Rain	
Contracto	or's Employees / Title		Equipment Used / On Site		
Johnny		Supervisor/Operator	John Deer 200D Excavator		
Isaac		Operator/Technician	John Deer 650J Dozer		
			John Deer Off Road Dump Truc	k	
			Kubuta RTV 900		
			Chevy Silverado 2500 HD		
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Project Na	me: North Cell Closure	- Sequence 1-A	Date: 2/5/2013	Day: Tuesday
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal	
Project Location: Volusia County, FI/Port Orange		604 1 5 1/6 . 51/		
Project Loc	ation: volusia County,	FI/Port Orange	CQA: Junos Reed (County of V	olusia)
Weather C	onditions:	_		
	Temperature	Weath	ner Conditions	Precipitation
Min		Morning:	Afternoon	recipitation
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Contractor	's Employees / Title		Equipment Used / On Site	
Johnny		Supervisor/Operator	John Deer 200D Excavator	
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Project Name: North Cell Closure - Sequence 1-A Date: 2/6/2013 Day: Wednesday	1880				
Project Site: Tomoka Farms Road Landfill Contractor: Shaw Environmental	Contractor: Shaw Environmental				
Project Location: Volusia County, Fl/Port Orange CQA: Junos Reed (County of Volusia)					
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Contractor's Employees / Title Equipment Used / On Site					
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Isaac Operator/Technician John Deer 650J Dozer					
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/7/2013	Day: Thursday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	al	
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)	
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	Temperature	Weather	Conditions	Precipitation
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Contractor	's Employees / Title	W. 3333-31-01	Equipment Used / On Site	
Johnny		Supervisor/Operator	John Deer 200D Excavator	
Isaac		Operator/Technician	John Deer 650J Dozer	
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			Kubuta RTV 900	
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Project Na	me: North Cell Closure	e - Sequence 1-A	Date: 2/8/2013	Day: Friday
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmental		
Project Location: Volusia County, FI/Port Orange		COAL lungs Bood (County of V	-lucia)	
		CQA: Junos Reed (County of V	olusia)	
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Min	59	Morning:	Afternoon	Precipitation
Max	82	Clear	Clear	0" Rain
	r's Employees / Title	<u> </u>	Equipment Used / On Site	
Johnny		Supervisor/Operator	John Deer 200D Excavator	
Isaac		Operator/Technician	John Deer 650J Dozer	
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			Chevy Silverado 2500 HD	
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/11/2013	Day: Monday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmental		
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Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	biusia)	
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Min	59	Morning:	Afternoon	rrecipitation
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	or's Employees / Title		Equipment Used / On Site	
Evan		Site Superintendent	John Deer 200D Excavator	M50 2 00 0
Sam	**	Operator/Technician	John Deer 650J Dozer	
Steve		Operator/Technician	John Deer Off Road Dump True	ck
Johnny		Operator/Technician	Kubuta RTV 900	
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Project Name: North Cell Closure - Sequence 1-A			Date: 2/12/2013	Day: Tuesday
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	tal	
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)	
Weather	Conditions:			
		Conditions	Precipitation	
Min	61	Morning:	Afternoon	r redipitation
Max	86	Clear	Clear	0" Rain
	or's Employees / Title		Equipment Used / On Site	
Evan	,	Site Superintendent	John Deer 200D Excavator	
Sam		Operator/Technician	John Deer 650J Dozer	99999 3 1.4
Steve		Operator/Technician	John Deer Off Road Dump Truc	- 6
Johnny		Operator/Technician	Kubuta RTV 900	
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD	
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/13/2013	Day: Wednesday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal	
Project Location: Volusia County, FI/Port Orange		COA lunes Bood (County of M	aloria)	
Project Location. Volusia County, Fi/Port Orange		CQA: Junos Reed (County of V	olusia)	
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Min	61	Morning:	Afternoon	Precipitation
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Sam		Operator/Technician	John Deer 650J Dozer	
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Project Na	me: North Cell Closure	e - Sequence 1-A	Date: 2/14/2013	Day: Thursday
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmer		
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of V	olusia)	
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Min	61	Morning:	Afternoon	recipitation
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Contracto	r's Employees / Title		Equipment Used / On Site	
Evan		Site Superintendent	John Deer 200D Excavator	
Sam		Operator/Technician	John Deer 650J Dozer	
Steve		Operator/Technician	John Deer Off Road Dump Tru	ck
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Project Name: North Cell Closure - Sequence 1-A			Date: 2/15/2013	Day: Friday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal		
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of V	olusia)		
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Sam		Operator/Technician	John Deer 650J Dozer		
Steve		Operator/Technician	John Deer Off Road Dump True	ck	
Johnny		Operator/Technician	Kubuta RTV 900		
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD		
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/16/2013	Day: Saturday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal	
Project Location: Valueia County, El/Port Orange		COA-lunes Band (Country of V	-1	
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of V	olusia)	
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Evan		Site Superintendent	John Deer 200D Excavator	1
Sam		Operator/Technician	John Deer 650J Dozer	
Steve		Operator/Technician	John Deer Off Road Dump True	ck
Johnny		Operator/Technician	Kubuta RTV 900	
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD	
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/18/2013	Day: Monday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	Contractor: Shaw Environmental			
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	alusia)			
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Johnny		Operator/Technician	Kubuta RTV 900			
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Project Nai	me: North Cell Closure	- Sequence 1-A	Date: 2/19/2013	Day: Tuesday		
Project Site: Tomoka Farms Road Landfill			Contractor: Shaw Environmental			
Project Loc	ation: Volusia County	FI/Port Orange	CQA: Junos Reed (County of Vo	olusia)		
Project Location: Volusia County, FI/Port Orange  Weather Conditions:		Tech. Julios Reed (county of ve	rusiu			
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Max		Clear	Clear	0" Rain		
Evan	's Employees / Title	Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
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Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
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	9339					
Work Perfe						
		acuum lines from EW-6 to EW-1				
	Installed new 2" air , 4" force main, and 6" vacuum lines from EW-6 to EW-11 and EW-12A					
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/20/2013	Day: Wednesday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal			
Project Location: Volusia County, FI/Port Orange			COA: lunes Bood (County of V	olusia)		
Project L	ocation: volusia county	, FI/PORT Orange	CQA: Junos Reed (County of V	Diusia)		
Weathe	r Conditions:					
	Temperature	Weat	her Conditions	Precipitation		
Min	60	Morning:	Afternoon	recipitation		
Max	79	Clear	Clear	0" Rain		
Contract	tor's Employees / Title		Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -		
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Tru-	ck		
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
			7 - 5.5.5 g			
	100000					
	erformed:					
		for HC-1B, HC-2B, and HC-4B				
		main lines to HC-3B, HC-5B, a				
Remove	d 2" air, 4" force main, a	nd 6" vacuum lines from thei	r tie-in points west to the leachate	dewatering sump.		
		James Company Company Company Company	SA 30			
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/20/2013	Day: Wednesday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	al			
Project Location: Volusia County, FI/Port Orange		COA: Junes Read (County of Ve	olucia)			
rioject Lo	cation. Volusia county,	Fijroit Oralige	CQA: Junos Reed (County of Vo	olusia)		
Weather (	Conditions:		www.			
Temperature Weather		Conditions	Precipitation			
Min	60	Morning:	Afternoon	recipitation		
Max	79	Clear	Clear	0" Rain		
Contracto	r's Employees / Title	•	Equipment Used / On Site	26.9		
Evan		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truck			
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD	W		
	1000 1-10 - 10 - 10 - 10 - 10 - 10 - 10					
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Work Perf	ormod:					
		in locations for UC 1B, UC 2B	and UC AB			
		e-in locations for HC-1B, HC-2B,				
		main lines to HC-3B, HC-5B, and				
			e-in points west to the leachate o	lewatering sump. These		
lines were	discovered to be too sh	nallow and will need to be reins	talled deeper.			
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Project Na	ame: North Cell Closure	- Sequence 1-A	Date: 2/22/2013	Day: Thursday		
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	tal			
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)			
Weather (	Conditions:					
Temperature Weather		r Conditions	Precipitation			
Min	60	Morning:	Afternoon	. redipitation		
Max	79	Clear	Clear	0" Rain		
	r's Employees / Title		Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truc	ck		
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
	77.10					
Work Perf	formed:					
		e-in locations for HC-1B, HC-2B	and HC-4B	***************************************		
		main lines to HC-1B, HC-2B, and				
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/23/2013	Day: Friday	
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmental		
Project Location: Volusia County, FI/Port Orange		COA lucas Dead (County of Va	Justin V	
Project Lo	cation: Volusia County,	FI/Port Orange	CQA: Junos Reed (County of Vo	olusia)
Weather (	Conditions:			
8	Temperature	Weather	Conditions	Precipitation
Min	65	Morning:	Afternoon	Frecipitation
Max	82	Clear	Clear	0" Rain
	r's Employees / Title		Equipment Used / On Site	
Evan	, , ,	Site Superintendent	John Deer 200D Excavator	
Sam		Operator/Technician	John Deer 650J Dozer	
Steve		Operator/Technician	John Deer Off Road Dump Truc	k
Johnny		Operator/Technician	Kubuta RTV 900	
Isaac	water.	Operator/Technician	3 Chevy Silverado 2500 HD	
isaac		operatory recrimician	S Chevy Shverado 2500 Hb	
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Work Perf				
Installed si	x AP2 pumps in Horizor	ntal Collectors 1B, 2B, 3B, 4B, 5B	, and 6B	
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Project Name: North Cell Closure - Sequence 1-A			Date: 2/25/2013	Day: Monday		
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	Contractor: Shaw Environmental			
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)			
Weather	Conditions:	T				
Temperature		Weath	er Conditions	Precipitation		
Min	60	Morning:	Afternoon			
Max	85	Clear	Rain	0.2" Rain		
	or's Employees / Title	1	Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truc	ck		
Johnny		Operator/Technician	Kubuta RTV 900	***************************************		
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
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	24/24-2-7		100	2,00,000 and 100 and 1		
Work Pe	rformed:	4				
		d 6" vacuum line from new 16	5" header to EW-6 and from EW-6	to FW-11 and FW-124		
nistaneu	2 an, 4 force main, an	d o vacadiii iiile iroiii ilew 10	neader to Evv o and nom Evv o	to Ew II and Ew IZA.		
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/26/2013	Day: Tuesday				
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	Contractor: Shaw Environmental				
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)				
Weather	Conditions:						
Temperature Weat		her Conditions	Precipitation				
Min	72	Morning:	Afternoon				
Max	78	Clear	Rain	0.3" Rain			
	or's Employees / Title		Equipment Used / On Site				
Evan		Site Superintendent	John Deer 200D Excavator				
Sam	1000	Operator/Technician	John Deer 650J Dozer				
Steve		Operator/Technician	John Deer Off Road Dump True	ck			
Johnny		Operator/Technician	Kubuta RTV 900				
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD				
	020892						
		- Supanar					
		A 4400					
Work Per	formed:						
Installed :	2" air, 4" force main, an	d 6" vacuum line from the ne	ew 16" Header to EW-5.	187 (1888)			
Installed	the lateral piping in CM	P were in will be under the n	ew road.				
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			*46******				

Project Name: North Cell Closure - Sequence 1-A		Date: 2/27/2013	Day: Wednesday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	Contractor: Shaw Environmental			
		604   8 1/6 1 61/	1			
Project Loc	Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)		
Weather C	onditions:					
Temperature Weather		Conditions	Precipitation			
Min	61	Morning:	Afternoon	,		
Max	76	Partly Cloudy	Clear	0" Rain		
	's Employees / Title	<u> </u>	Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator	80 J. S. 10 Mil. 2000.		
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truc	k		
Johnny	**************************************	Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
isaac		Operatory recriminal	S CHEVY SHVETUGO 2500 TID			
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Work Perf	V. COLL 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					
			eader from the tie-in on the Nor	th Slope which included Tee's		
for lateral	lines running to EW-9, I	EW-67, EW-8.		No. of the second second		
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Project Name: North Cell Closure - Sequence 1-A		Date: 2/28/2013	Day: Thursday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environment	al			
Project Lo	cation: Volusia County,	FI/Port Orange	CQA: Junos Reed (County of Vo	olusia)		
Weather (	Conditions:	_				
Temperature Weathe		Conditions	Precipitation			
Min	47	Morning:	Afternoon			
Max	77	Partly Cloudy	Clear	0" Rain		
Contracto	r's Employees / Title		Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator	*		
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truc	k		
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
Work Perf	ormed:	A SAME AND A SAME AS A SAME A SAME AS A SAME				
	Sept. 100 (17 (100) Sept. 104 (14)	4" vacuum lateral lines from w	rells EW-8, EW-65, and EW-66 to	the new 16" Header Line		
motanea 2	an, 4 Torce main, and	· · · · · · · · · · · · · · · · · · ·	2113 2117 3, 2117 33, 4114 211 33 13	the new 10 medaer line.		
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Project Name: North Cell Closure - Sequence 1-A		Date: 3/1/2013	Day: Friday			
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmen	tal			
D 1 1 1		F1/D O				
Project L	ocation: Volusia County	y, FI/Port Orange	CQA: Junos Reed (County of V	olusia)		
Weather	Conditions:	_				
Temperature Weat		ther Conditions	Precipitation			
Min	47	Morning:	Afternoon	Frecipitation		
Max	66	Partly Cloudy	Clear	0" Rain		
	or's Employees / Title	1	Equipment Used / On Site	i contraction of the contraction		
Evan		Site Superintendent	John Deer 200D Excavator	West of the second seco		
Sam		Operator/Technician	John Deer 650J Dozer	- 10711110007 x 10400 mig 01500 x 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Steve		Operator/Technician	John Deer Off Road Dump True	ck		
Johnny	7/20-20-0-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-	Operator/Technician	Kubuta RTV 900	MECHANICAL AND		
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
	7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7, 7					
Work Pe	rformed:	- 1				
Installed	approximately 225 LF o	of 2" air. 4" force main, and 16	6" header line including Tee's and Ri	sers for FW-64_FW-65_FW-66		
EW-7, aı			8			
	NAME OF TAXABLE PARTY O	nd 4" vacuum lateral lines fro	m EW-64 to the new 16" header.			
motanea	2 411,4 10100 1114111,41	nd + vacadiii lateral lilles il o	in Ew 04 to the new 10 header.			
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Project Name: North Cell Closure - Sequence 1-A			Date: 3/4/2013	Day: Monday		
Project Site: Tomoka Farms Road Landfill		Contractor: Shaw Environmental				
Project Location: Volusia County, FI/Port Orange		CQA: Junos Reed (County of Vo	olusia)			
Weather C	onditions:					
Temperature Weather		Conditions	Precipitation			
Min	35	Morning:	Afternoon			
Max	62	Clear	Clear	0" Rain		
	's Employees / Title	Cieai	Equipment Used / On Site	O Kalli		
Evan	3 Employees / Title	Cita Consistendent				
		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truc	ck		
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac	-	Operator/Technician	3 Chevy Silverado 2500 HD			
	_					
	5.1100 SI 100 SI					
				10 10 10 10 10 10 10 10 10 10 10 10 10 1		
Work Performed:						
		All	NA/ 44	CILL		
		4" vacuum laterals from EW-6, E				
installed ap	Installed approximately 200 LF of 2" air, 4" force main, and 16" header, including 80LF within 24" CMP for the road crossing.					
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Project Name: North Cell Closure - Sequence 1-A			Date: 3/5/2013	Day: Tuesday		
Project Site: Tomoka Farms Road Landfill			Contractor: Shaw Environmental			
Project L	ocation: Volusia County	, FI/Port Orange	CQA: Junos Reed (County of V	(olusia)		
	Conditions:		Today and the decimination of the	olasia		
weather	Conditions:	T				
	Temperature		ther Conditions	Precipitation		
Min	45	Morning:	Afternoon			
Max	75	Clear	Clear	0" Rain		
Contractor's Employees / Title			Equipment Used / On Site			
Evan		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truck			
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
<u> </u>						
Mork Do	rformed:					
		the bill formal and	<del>, , , , , , , , , , , , , , , , , , , </del>			
The crew	spent the day dressing	up the hill from the previous	day's activities and worked in the j	ob site trailer.		
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Project Name: North Cell Closure - Sequence 1-A			Date: 3/6/2013	Day: Wednesday		
Project Site: Tomoka Farms Road Landfill			Contractor: Shaw Environmental			
Project Lo	cation: Volusia County,	EL/Port Orango				
r Toject Lo	cation. Volusia County,	, FI/FOIT Orange	CQA: Junos Reed (County of Volusia)			
Weather (	Conditions:	-				
	Temperature	Weathe	ner Conditions Precipitation			
		Morning:	Afternoon	Precipitation		
Max	67	Clear	Clear	0" Rain		
Contractor's Employees / Title			Equipment Used / On Site	o nam		
Evan		Site Superintendent	John Deer 200D Excavator			
Sam		Operator/Technician	John Deer 650J Dozer			
Steve		Operator/Technician	John Deer Off Road Dump Truck			
Johnny		Operator/Technician	Kubuta RTV 900			
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD			
	*****					
	SIL:					
Work Perf						
Installed a	pproximately 20LF of 2	2" air, 4" force main, and 16" h	eader to the connection point of t	the existing header on the		
west slope	. The crew spent the re	est of the day pumping up the 2	2" air, 4" force main, and 16" head	der for the air test.		
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Project Name: North Cell Closure - Sequence 1-A			Date: 3/7/2013	Day: Thursday	
Project Site: Tomoka Farms Road Landfill			Contractor: Shaw Environmental		
Project Location: Volusia County, FI/Port Orange			COA: Junes Bood (County of Valueia)		
		, , , , ore orange	CQA: Junos Reed (County of Volusia)		
Weather	Conditions:				
	Temperature	Weath	ner Conditions	Precipitation	
Min	50	Morning:	Afternoon	recipitation	
Max	67	Clear	Clear	0" Rain	
Contractor's Employees / Title			Equipment Used / On Site		
Evan		Site Superintendent	John Deer 200D Excavator		
Sam	*	Operator/Technician	John Deer 650J Dozer		
Steve		Operator/Technician	John Deer Off Road Dump Truck		
Johnny		Operator/Technician	Kubuta RTV 900		
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD		
<u> </u>					
Work Per	formadi				
		M 67 EM 69 EM 64 EM 65	EW-4, EW-5, EW-6, EW-11, AND EV		
Installed	annrovimately 120 LE of	f 2" air 4" force main and 4" )	Vacuum lateral lines from EW-5 to	V-12A	
made the	connection to the head	Nor	vacuum lateral lines from EW-5 to	the new 16" Header and	
made the	connection to the near	Jei.			
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Project Name: North Cell Closure - Sequence 1-A			Date: 3/8/2013	Day: Friday	
Project Site: Tomoka Farms Road Landfill			Contractor: Shaw Environmental		
Project Loc	cation: Volusia County,	FI/Port Orange	CQA: Junos Reed (County of Volusia)		
		Try tote orange	Team. Julios Reed (County of Vi	Jiusia)	
Weather C	onditions:				
	Temperature	Weather	Conditions	Precipitation	
Min	52	Morning:	Afternoon	recipitation	
Max	73	Clear	Clear	0" Rain	
Contractor's Employees / Title			Equipment Used / On Site		
Evan		Site Superintendent	John Deer 200D Excavator		
Sam		Operator/Technician	ohn Deer 650J Dozer		
Steve		Operator/Technician	John Deer Off Road Dump Truck		
Johnny		Operator/Technician	Kubuta RTV 900		
Isaac		Operator/Technician	3 Chevy Silverado 2500 HD		
Work Perfo					
Tied the ne	w 16" header to the ex	xisting header on the north and	west slopes. Once it was determ	ined there were no leaks	
in the conn	ections the tie in locat	ions were backfilled and dressed	d up. The crew spent the rest of t	the day dressing up the hill	
and packing	g up there trailer. This	was the last day of work on the	project.	, , , , , ,	
		7944		100 W/1 100 W/	
		W 12 22 21 2222 19			

# Appendix B

## **Construction Photographs**



West Slope Header Point of Connection



**Existing Header Abandonment** 



4" Condensate Force Main & 2" Compressed Air Line to EW-68



4" Condensate Force Main & 2" Compressed Air Line to Horizontal Collector



**Expose existing lateral connection on West Slope** 



Converting to Existing Well to Remote Wellhead



New Lateral lines from EW-67R



Installing new 16" Header Line



**Trenching for New Lateral Lines** 



Converting EW-64 to Remote Wellhead



Running New Lateral Lines from EW-12A to EW-6



Installing new Air and Force Main for Horizontal Collectors on South Slope



Installing new Air and Force Main for Horizontal Collectors on South Slope



Point of Connection to Existing Header on North Slope



Trench for new 16" Header on North Slope



Header Tie-In on North Slope with Existing Header Abandoned



**Installing New Header on North Slope** 



**Lateral Connection from EW-8 to New Header** 



**Lateral Connection from EW-8 to New Header** 



New Remote Wellheads on New Header



Access Point at High Point of New Header



New Header Installation Along South Slope



Point of Connection to Existing Header with Access Point



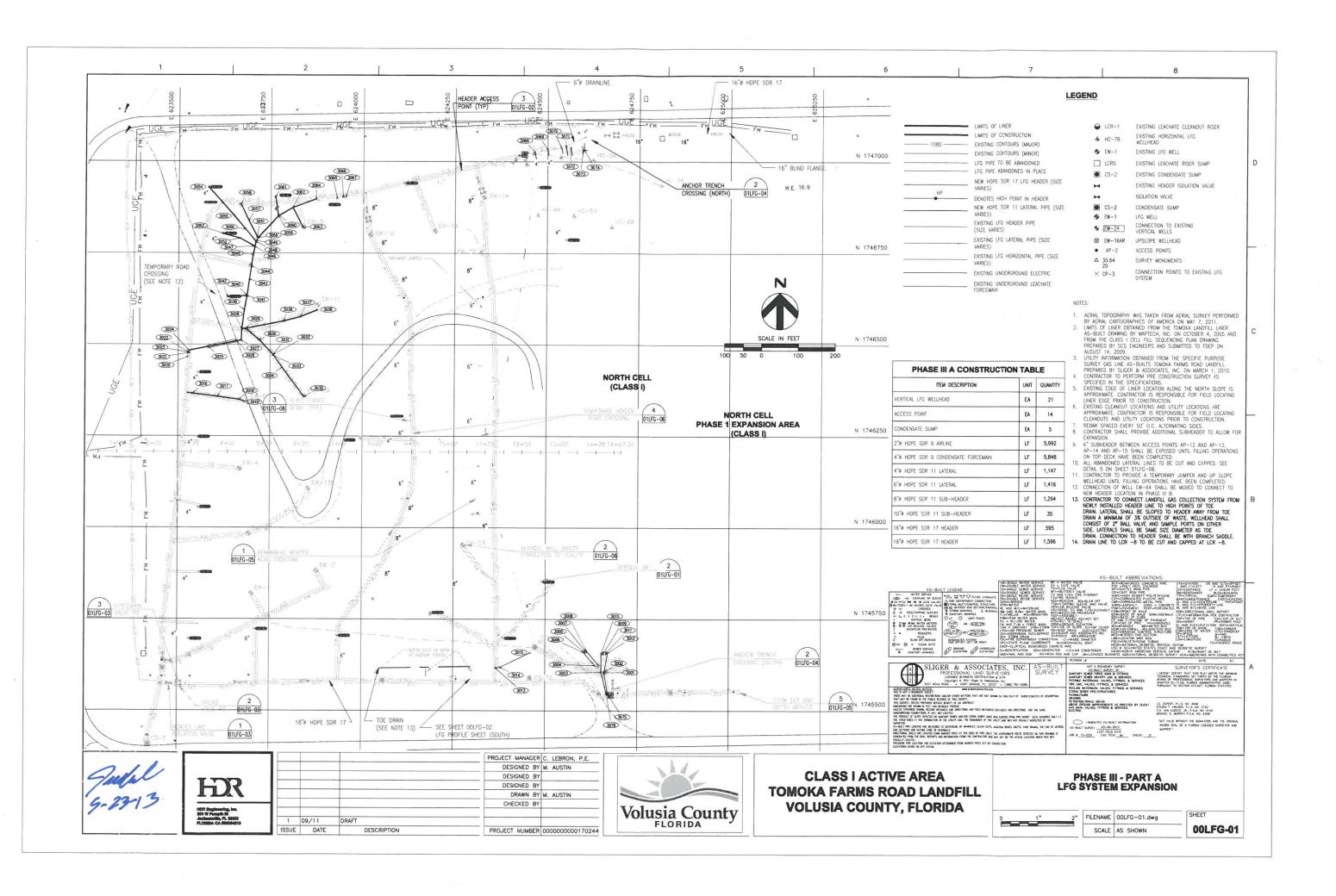
Point of Connection to Existing Header with Access Point

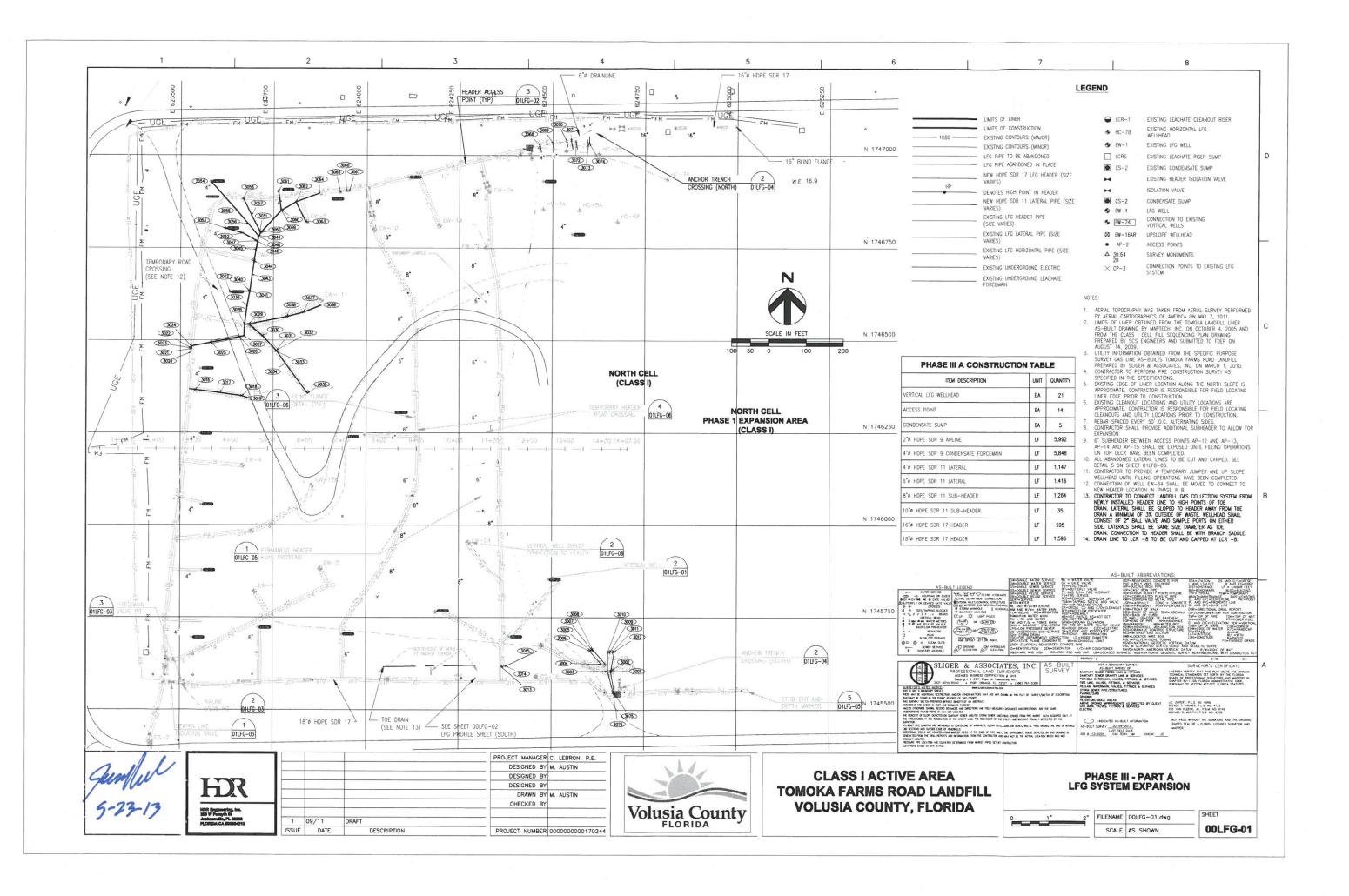


New Lateral Piping from EW-5 to Existing Header

## Appendix C

**Record Drawings** 





POINT TABLE EASTING TOP
ELEV DESCRIPTION POINT # NORTHING -81.0538212 -81.0555286 -81.0555276 -81.0555370 -81.0555563 -81.0555891 -81.05558917 -81.0555849 29,0000634
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4" FN VALVE
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2" & 4" TIE IN EXIST
2" & 4" TEES
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4" FN VALVE
4" FN VALVE

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		SCALE	IN FEET	
	10000			
100	50	0	100	200
		LE	GEND	

		LIMITS OF LINER
		LIMITS OF CONSTRUCTION
1080		EXISTING CONTOURS (MAJOR)
		EXISTING CONTOURS (MINOR)
		LFG PIPE TO BE ABANDONED LFG PIPE ABANDONED IN PLACE
		NEW HDPE SDR 17 LFG HEADER (SIZE VARIES)
	-	DENOTES HIGH POINT IN HEADER NEW HDPE SDR 11 LATERAL PIPE (SIZE VARIES)
		EXISTING LFG HEADER PIPE (SIZE VARIES)
		EXISTING LFG LATERAL PIPE (SIZE VARIES)
		EXISTING LFG HORIZONTAL PIPE (SIZE VARIES)
Barrier Committee	-	EXISTING UNDERGROUND ELECTRIC
-		EXISTING UNDERGROUND LEACHATE FORCEMAIN
0	LCR-1	EXISTING LEACHATE CLEANOUT RISER
*	HC-7B	EXISTING HORIZONTAL LFG WELLHEAD
•	EW-1	EXISTING LFG WELL
	LCRS	EXISTING LEACHATE RISER SUMP
	CS-2	EXISTING CONDENSATE SUMP
н		EXISTING HEADER ISOLATION VALVE
H		ISOLATION VALVE
	CS-2	CONDENSATE SUMP
•	EW-1	LFG WELL
•	EW-24	CONNECTION TO EXISTING VERTICAL WELLS
8	EW-16AR	UPSLOPE WELLHEAD
•	AP-2	ACCESS POINTS
Δ	30.64 20	SURVEY MONUMENTS
×	CP-3	CONNECTION POINTS TO EXISTING LFG SYSTEM

			AS-	-BUILT ABBREVIATIONS:		
O'O'N O' NO NO O'CLT VALVES  BENTHERY OF CLARGO CAIT VALVE  ↑ ↑  ↑ ↑  ↑ NOTESTATE OF CLARGO CAIT VALVE  ↑ ↑  ↑ TO STATE OF CLARGO CAIT VALVES  ↑ NOTESTATE OF CLARGO CAIT  ↑ BENCH OF CLARGO CAIT  ↑ BENCH OF PETANTE  ↑ BENCH OF CLARGO CAIT  ↑ CLARGO CO O CLARGO CO CLARGO CO  ○	OTH TO TRAINE HODRANS A FIRE DEPARTMENT CONNICTION BESTORN MAILT/CONTROL STREECHING SIDEN MAINTOCKE SIDEN MAINTOCKE STREECH DAS SECTION/MORBALL STREECH MAINTOCKE  STREECH MAINTOCKE  STREECH MAINTOCKE  STREECH MORBALL  STREECH M	SERVICE SERVICE  WITE WATER  M. AND W/L WATER MAN  IL - FRELLINE ROS-BREATION  BEHAVIOR ROS-BREATION  BEHAVIOR ROS-BREATION  MAN JOHN BEHAVIOR  M. AND F/M - FORCE MAIN  SAM - SAMITARY SIM-STORE  ID-S-LOW PRESSURE SEWR  UD-S-LOW PRESSURE SEWR  UD-S-LOW PRESSURE SEWR  UD-S-LOW PRESSURE SEWR  EXCHANGE OF PARTMENT COMMENT  EXCHANGE OF PARTMENT  EXCHANGE OF PARTMEN	MJ=MECHANICAL JOINT CONRETE PIPE RATOR A/C=AIR CONDITIONER	CO-MAN ORLD CONSENT PER PROPOSITION OF THE PROPOSIT	LAND LI-LEFT DIST-DISTANCE BM-BENCHMARK BM-BENCHMARK LAND C/L-CENT CL AND C/L-CENT PL AND B/L-BASE DOW-DISTE TIONAL (I/P/C-BATORMARO INV-INVERTED FOR EL AND ELEV-ELEV LOB-TOP OF BANK EOW-BOST O	TRINE PNT=POIN ERTY LINE LINE LINE LINE DREL REPORT N PER CONTRACTOR TON=TOP OF NUT PP=POWER POLE ATION VERT=VERTICA ER H/C=HANDICAP &=ADTH R=ROUS FG=FINISHEO GRADE
			REVISION : #		DATE	BY

SLIGER & ASSOCIATES, INC.  PROFESSIONAL LAND SURVEYORS  LOCKWICE DESPRESS CEPTERATOR & DOSS  SEPTIMA IS 2011 STOPE & ASSOCIATE, P.C.  3021 NOVA BOOD - PORT BORGET, IL 3272 - (380) 781-5383	AS-BUILT SURVEY
BUSINESS AND A SOURCE. WHEN A SOURCE AND A S	RE THE SAME.  DATA ACCOUNTED ONLY AT INSPECTED BY THE OPPOSED BY THE OPPOSED, THE END OF INTERED TED DIN THIS DRAWING IS

JILT.	NOT A BOUNDARY SURVEY, AS-BUILT SURVEY OF:			
1	SANTARY SEMER FORCE MAIN & FITTINGS SANTARY SEMER GRAVITY LINE & SERVICES POTABLE WATCHAMP, VALVES, TITINGS, & SERVICES FIRE LINE, VALVES, FITTINGS, & SERVICES			
PTON	RECLAM BATEMAN, VALVES, PITTINGS & SERVICES STORM SEVER PPPL/STRUCTURES PAYMO/CURE GRADNIC GRADNIC GRADNIC RETURNON/SHALE AREAS ARDING GRADNA BARRONARDITS AS DIRECTED BY CU GAS MAIN, VALVES, PITTINGS & SERVICES ELECTRIC.			

-NOCATES AS-BUET INFORMATION

AS-BUET SURVEY 03-09-2013

LAST FELD DATE

LOS # 13-0201 CAD TECH AN CHECK AZ



			PROJECT MANAGER	C. LEBRON, P.E.
- 100			DESIGNED BY	M. AUSTIN
			DESIGNED BY	×
			DESIGNED BY	
			DRAWN BY	M. AUSTIN
10001			CHECKED BY	
	09/11	DRAFT		
JΕ	DATE	DESCRIPTION	PROJECT NUMBER	000000000017024



**CLASS I ACTIVE AREA TOMOKA FARMS ROAD LANDFILL VOLUSIA COUNTY, FLORIDA** NOT FOR CONSTRUCTION

PHASE III - PART A LFG SYSTEM EXPANSION



2"	FILENAME	OOLFG-01.
_	SCALE	AS SHOWN

00LFG-01-1