From: <u>Smallwood, Thomas</u>

To: IDEM OLQ Solid Waste Permits Submittals
Cc: Weinzapfel, Adam; Klopfenstein, Jeremiah

Subject: Construction Certification Report for GCCS Work at Oak Ridge RDF

Date: Monday, July 1, 2024 9:19:10 AM

Attachments: Oak Ridge 2024 GCCS IDEM Submittal 6-21-24.pdf

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Good morning,

Please see the attached Construction Certification Report for GCCS Work at the Oak Ridge RDF (Permit 09-02). Please reach out with any questions or comments,

Regards,

Tom Smallwood

Thomas Smallwood, Ph.D.

Engineer II, WM

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WM – Twin Bridges Landfill | 124 East Twin Bridges Rd, | Danville, IN 46122 |

Recycling is a good thing. Please recycle any printed emails.



PREPARED FOR:

Waste Management of Indiana, L.L.C. Oak Ridge Recycling & Disposal Facility 2905 South 150 East Logansport, IN 46947

PREPARED BY:

T&M Associates, Inc. 301 East Washington Street Suite 404 Indianapolis, IN 46204

CONSTRUCTION CERTIFICATION REPORT – 2024 GCCS PROJECT

FACILTY PERMIT NO.: 09-02

OAK RIDGE RECYCLING & DISPOSAL FACILITY 2905 SOUNTH 150 EAST CASS COUNTY, LOGANSPORT, INDIANA

T&M PROJECT NO. WMMW00085 April 2024

Bradley S. Hartz, PE
IN License No. 60860170





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Table 1 Design Gas Well Construction Information

APPENDICES

Appendix D Appendix C Appendix B Appendix A Drill Logs Photo Log **Daily Field Reports HDPE Pipe Air Pressure Test Reports**

DRAWINGS

Drawing 2 of 2 2024 GCCS Record Drawing – Gas System As-Built Point File

2024 GCCS Record Drawing – Gas System As-Built

Drawing 1 of 2

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1.0 INTRODUCTION

system piping installation began on March 21, 2024, and was completed on May 10, 2024 extraction well drilling began on March 13, 2024, and was completed on March 18, 2024. (GCCS) construction project for the solid waste landfill facility located in Logansport, Indiana. Landfill gas Oak Ridge RDF (Oak Ridge) has completed the construction associated with the 2024 landfill gas system Landfill gas

the construction, in Section 3.0. inspection and documentation performed by T&M personnel indicate the completed work to be in general conformance with the approved design specifications. This report identifies modifications required during Oak Ridge retained T&M Associates (T&M) of Indianapolis, Indiana to provide third party quality assurance inspection and documentation of construction activities associated with the 2024 GCCS project. The

condensate knockout, and force main pipe installation services. T&M provided as-built survey services. Contracting Corporation, Ft. Wayne, Indiana (Fox) performed the HDPE gas header/lateral pipe, Landfill Drilling & Piping, Sun Prairie, Wisconsin (LDP) performed the gas extraction well installation. Fox

of the quality assurance program implemented during construction associated with the 2024 gas system construction project. Included in this report are the following specific items: This report, with accompanying appendices and construction record drawings, provides documentation

- V with the GCCS design documents; Certification that the seventeen (17) gas extraction wells were constructed in a manner consistent
- V main were constructed in a manner consistent with the GCCS design documents; Certification that the gas system HDPE header/lateral piping, condensate knockout, and force
- V HDPE header/lateral piping and force main were properly pressure tested;
- HDPE header/lateral and force main as-built drawings; and
- Cover system integrity is not compromised

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2.0 PROJECT DESIGN

("Amended NSPS Collection and Control System Design Plan and Surface Monitoring Plan for the Oak procedures. The system was constructed in general accordance with the permitted design plans Management landfill gas system design manual, best management practices, and standard operating management practices/design documents. Condition C.3 in the IDEM permit renewal dated January 12, 2022, and Waste Management best Ridge RDF"), dated November 4, 2003, amended March 5, 2004, amended November 17, 2004, and The design guidance and typical specifications for the 2024 GCCS project are outlined in the Waste

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3.0 MODIFICATION FROM THE DESIGN

force main were constructed in general conformance with the design plans and specifications. However, HDPE header piping, the 6-inch HDPE lateral piping, a condensate knockout structure, and the 2" x 4" minor variations and upgrades were required as follows: The installation of seventeen (17) gas extraction wells and the 24-inch HDPE header piping, the 12-inch

- 1 that deviated from design. All wells were drilled within the drill bucket diameter of the staked well location. depth or location. These changes were due to drilling conditions, or topographic conditions As-built depths and locations of some of the extraction wells varied slightly from the design
- 2) necessitated installing the infrastructure to "field fit" existing conditions. locations. Existing topography, site conditions, and landfill gas extraction well locations As-built locations of some of the HDPE header/lateral piping varied slightly from the design

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4.0 CONSTRUCTION AND INSPECTION PROCEDURES

this included the wellhead assemblies. Approximately 891 LF of 24-inch HDPE gas header pipe, 792 LF of construction is included herein force main were installed in addition to the required flanges, risers, etc. A description of the completed 12-inch HDPE gas header pipe, and 1,753 LF of 6-inch HDPE gas lateral pipe, and 55 LF of 2" \times 4" HDPE Construction included the installation of seventeen (17) gas extraction wells totaling 1,042 feet in depth,

4.1 VERTICAL GAS EXTRACTION WELL INSTALLATION

the gas extraction wells. The drill logs are included in Appendix A. 80 PVC extension above the ground elevation. There was a total combined well depth of 1,042 feet for seal, eight (8) feet of soil, a two (2) foot bentonite seal, and one (1) foot of soil, and a four (4) foot Schedule the well, gravel pack to within fifteen (15) feet of the existing ground elevation, a two (2) foot bentonite configuration consisted of a perforated and solid Schedule 80 PVC gas extraction pipe the entire depth of LDP installed a total of seventeen (17) gas extraction wells (Table 1) during the project. Typical well

4.2 HDPE GAS COLLECTION PIPE INSTALLATION

gas header to a minimum thickness of twenty-four inches of soil cover. The cover over the newly installed mulching to ensure a good vegetative cover. header/lateral piping was graded to match the existing cover grades. The area was ready for seeding and soil material that was excavated from the trench, or soil obtained from approved borrow areas, over the disposal and all extra soil material was regraded to match the existing final cover slopes. Fox placed the soil cover over the piping. Solid waste that was encountered was hauled to the active working face (minimum of 2%) and additional soil was added in some areas to ensure at least a twenty-four (24) inch inches below grade using a CAT 330 excavator. The trench depth varied to maintain the desired pipe grade gas header trench was typically excavated to a depth of approximately thirty-six (36) to forty (40) ξ

Standard butt-fusion welding techniques were used to join adjacent sections of HDPE pipe. The HDPE and the data is presented in Appendix B (1) hour period with a maximum allowable pressure loss of 1%. All pressure testing showed passing results header/lateral piping was air pressure tested at a pressure of equal to or greater than 10-psig over a one

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5.0 CONSTRUCTION QUALITY ASSURANCE

verify that both conformed to the design requirements. Items monitored included the following: materials which were being used during construction as well as monitoring construction procedures to Conformance observation performed and documented by T&M consisted of visually monitoring the

- V well seals; Gas extraction well drilling depths, installation of the PVC perforated piping, gravel backfill, and
- Gas header/lateral pipe schedule rating, dimensions and size;
- Gas header/lateral and force main pipe butt-fusion welding;
- Gas header/lateral and force main pipe air pressure testing; and
- Repairs to the cover system, ensuring system integrity.

specifications and quality assurance program as required in the solid waste operating permit for this gas system indicate that the construction was completed in substantial compliance with the project design identified herein. facility. Any areas or construction items that were modified from the project specifications are clearly The observations made by T&M during inspection of construction activities associated with the landfill

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6.0 SUMMARY

of seventeen (17) gas extraction wells (combined depth of 1,042) and the installation of HDPE gas system construction at the Oak Ridge Recycling & Disposal Facility, Logansport, Indiana for the installation through May 10, 2024. force main to the leachate collection system. The overall project duration was from March 13, 2024, collection header/lateral piping from the wells to the condensate knockout. Plus, the installation of the T&M provided construction quality assurance engineering and monitoring services during the landfill gas

and survey coordination for as-built record documentation. The observations made by T&M during the was accomplished in substantial conformance with the project design specifications. monitoring of construction associated with the landfill gas system project indicate that the construction HDPE piping installation, condensate knockout installation, force main installation, materials verification, The quality assurance program included gas extraction well installation, gas collection header/lateral

documentation and construction certification reports and using T&M's professional judgment. No This report has been prepared in keeping with accepted standards of practice for the preparation of record warranties, either expressed or implied, are made herein.

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7.0 ENGINEER CERTIFICATION

"I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the persons who managed the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. I further certify that I am authorized to submit this information."

T&M ASSOCIATES, INC.

No. PE60860170

STATE OF

WOIANA

This item has been electronically signed and sealed by Bradley Hartz, PE using a

Inis item has been electronically signed and sealed by Bradley Hartz, PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

6/19/2024

Bradley S. Hartz, P.E.
State of Indiana
Professional Engineer Registration No. PE60860170
Expires July 31, 2024

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TABLE 1OAK RIDGE RDF
2024 LFG Well Drilling Schedule

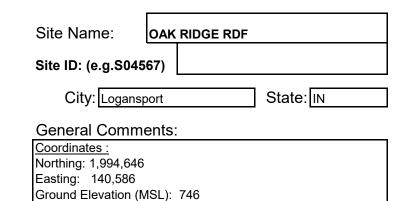
<u>Well ID</u>	POINT No.	<u>Northing</u>	<u>Easting</u>	Ground Surface Elevation	<u>Description</u>	Clay Liner Elevation	Drainage Layer Elevation	10' from Drainage Layer	Calculated Bore Elevation	Calculated Bore Depth
GW-57R	500	1,994,646	140,586	746	GW-57R PROPOSED	676	677	10	687	59
GW-116	601A	1,994,587	140,437	747	GW-A GR 20240131	676	677	10	687	60
GW-117	507	1,994,540	140,256	746	GW-B PROPOSED	688	689	10	699	47
GW-118	510	1,994,530	140,061	745	GW-C PROPOSED	690	691	10	701	44
GW-119	511	1,994,732	140,070	747	GW-D PROPOSED	677	678	10	688	59
GW-120	512	1,994,955	140,084	747	GW-E PROPOSED	678	679	10	689	58
GW-121	513	1,995,138	140,104	751	GW-F PROPOSED	679	680	10	690	61
GW-122	514	1,995,338	140,152	754	GW-G PROPOSED	677	678	10	688	66
GW-123	515	1,995,380	140,361	761	GW-H PROPOSED	680	681	10	691	70
GW-124	516	1,995,337	140,489	764	GW-I PROPOSED	677	678	10	688	76
GW-125	617A	1,995,171	140,535	759	GW-J GR 20240131	678	679	10	689	70
GW-126	518	1,995,097	140,312	752	GW-K PROPOSED	682	683	10	693	59
GW-127	619A	1,994,918	140,333	749	GW-L GR 20240131	680	681	10	691	58
GW-128	520	1,994,727	140,356	748	GW-M PROPOSED	678	679	10	689	59
GW-129	621A	1,994,994	140,634	756	GW-N GR 20240131	681	682	10	692	64
GW-130	622A	1,994,792	140,693	755	GW-O GR 20240131	680	681	10	691	64
GW-131	523	1,994,797	140,488	749	GW-P PROPOSED	676	677	10	687	62



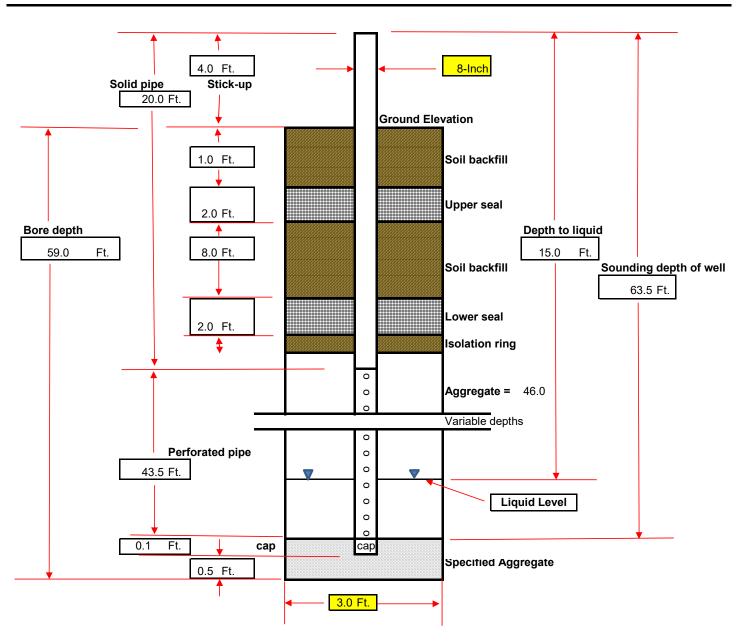
Appendix A

Drill Logs

LGMS ID	Alias
GW-57R	
Date Installed	3/15/2024
Installation C	ontractor:
Landfill Drilling	& Piping
Pipe Material	Schedule 80 PVC



Notes:SURVEYED ELEVATION 745.1



LGMS ID	Alias
GW-116	
Date Installed	: 3/14/2024
Installation (Contractor:
Landfill Drilling	& Piping
Pipe Materia	: Schedule 80 PVC

Site Name: OAK RIDGE RDF

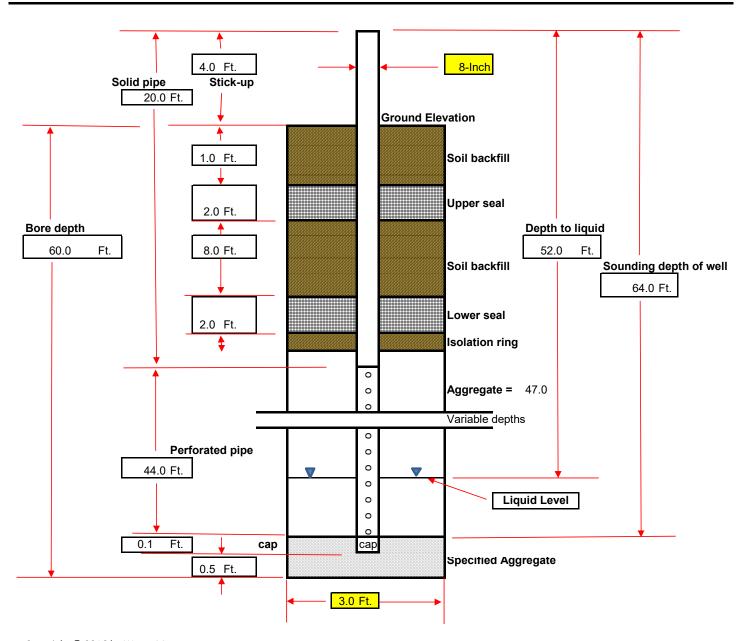
Site ID: (e.g.S04567)

City: Logansport State: IN

General Comments:

Coordinates:
Northing: 1,994,587
Easting: 140,437
Ground Elevation (MSL): 747

Notes: SURVEYED ELEVATION 746.5



LGMS ID	Alias
GW-117	
Date Installed	3/14/2023
Installation (Contractor:
Landfill Drilling	յ & Piping
Pipe Materia	I: Schedule 80 PVC

Site Name: OAK RIDGE RDF

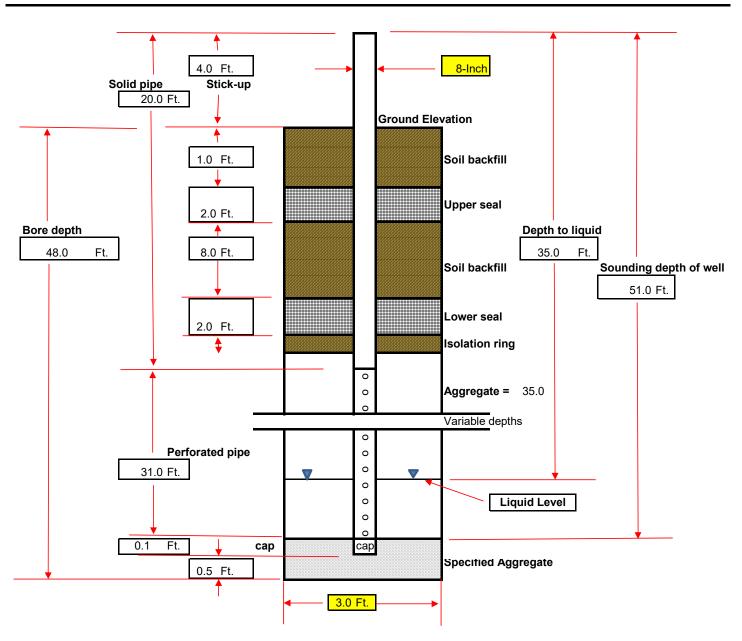
Site ID: (e.g.S04567)

City: Logansport State: IN

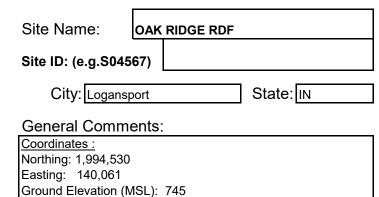
General Comments:

Coordinates:
Northing: 1,994,540
Easting: 140,256
Ground Elevation (MSL): 746

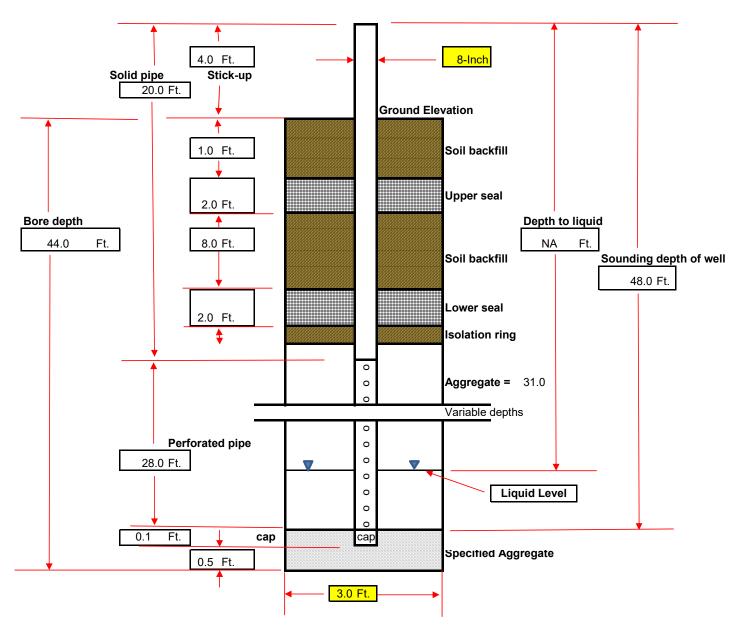
Notes: SURVEYED ELEVATION 475.4



LGN	IS ID	Alias	
GW	-118		
Date I	nstalled	3/17/2024	
Insta	allation C	contractor:	
Land	fill Drilling	& Piping	
Pipe	Material	: Schedule 80 PVC	



Notes: SURVEYED ELEVATION 744.1



	LGMS ID	Alia	as	
	GW-119			
С)ate Instali			
	Landfill Drill	ng & Pipi	ng	
	Pipe Mate	ial: Sche	dule 80 PVC	

Site Name: OAK RIDGE RDF
Site ID: (e.g.S04567)

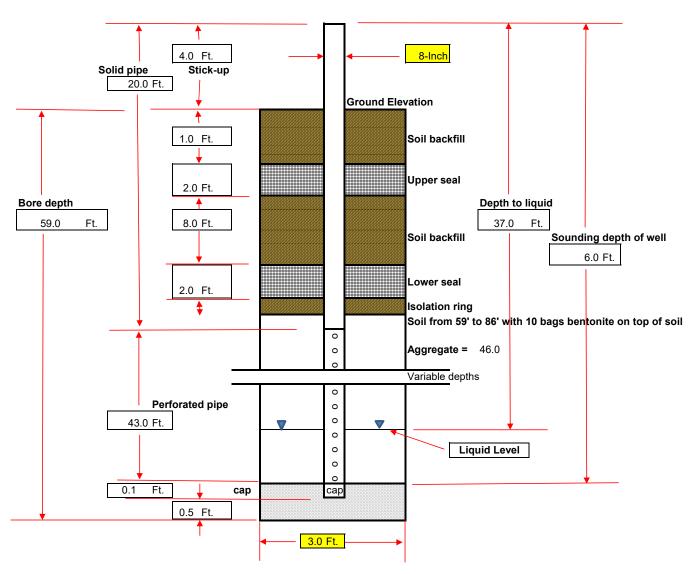
City: Logansport State: IN

General Comments:

Coordinates : Northing: 1,994,732 Easting: 140,070

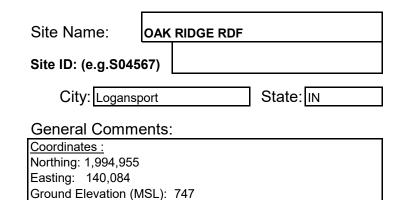
Ground Elevation (MSL): 747

Notes: SURVEYED ELEVATION 746.0

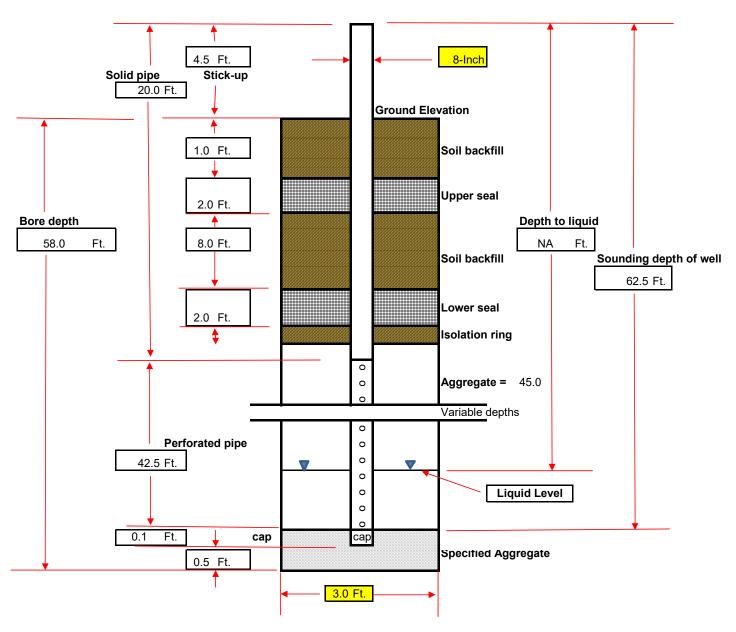


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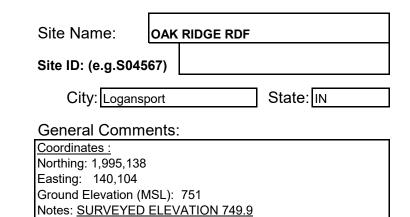
LGMS	ID	Alias	
GW-12	20		
Date Ins	stalled:	3/16/2024	
Installa	ation Co	ontractor:	
Landfill	Drilling &	& Piping	-
Pipe M	aterial:	Schedule 80 PVC	

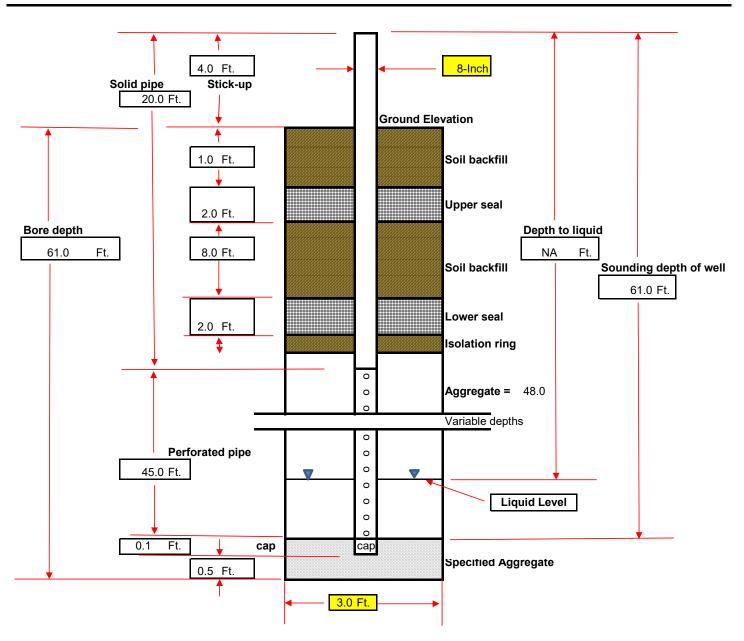


Notes: <u>SURVEYED ELEVATION 746.01</u>

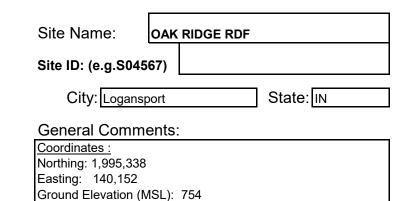


LGMS ID	Alias
GW-121	
Date Installed	d: 3/16/2024
Installation	Contractor:
Landfill Drilling	g & Piping
Pipe Materia	II: Schedule 80 PVC

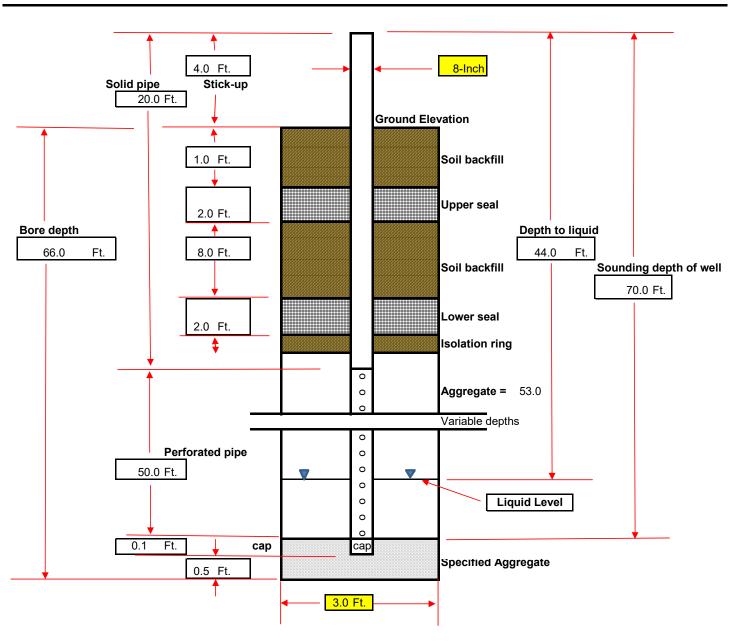




	LGMS ID	Alias	_
	GW-122		
D	ate Install	ed: 3/16/2024	
_	Installatio	n Contractor:	
	Landfill Drill	ing & Piping	
F	Pipe Mate	rial: Schedule 80 PV	С



Notes: SURVEYED ELEVATION 753.7



LGMS ID	Alias
GW-123	
Date Installed	3/16/2024
Installation (
Landfill Drilling	յ & Piping
D: 14 ()	
Pipe Materia	l: Schedule 80 PVC

Site Name: OAK RIDGE RDF

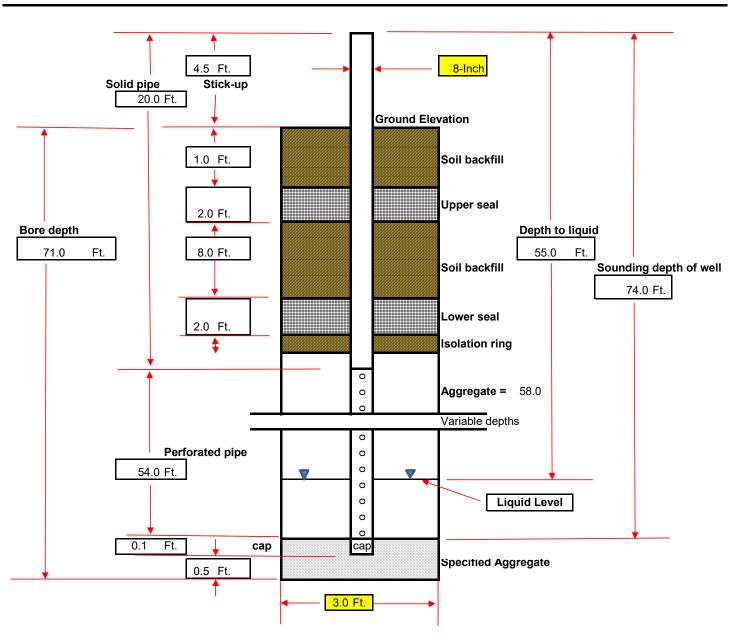
Site ID: (e.g.S04567)

City: Logansport State: IN

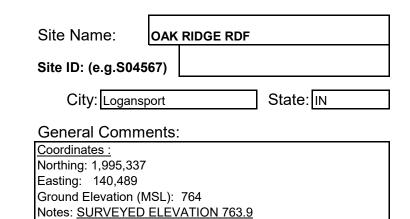
General Comments:

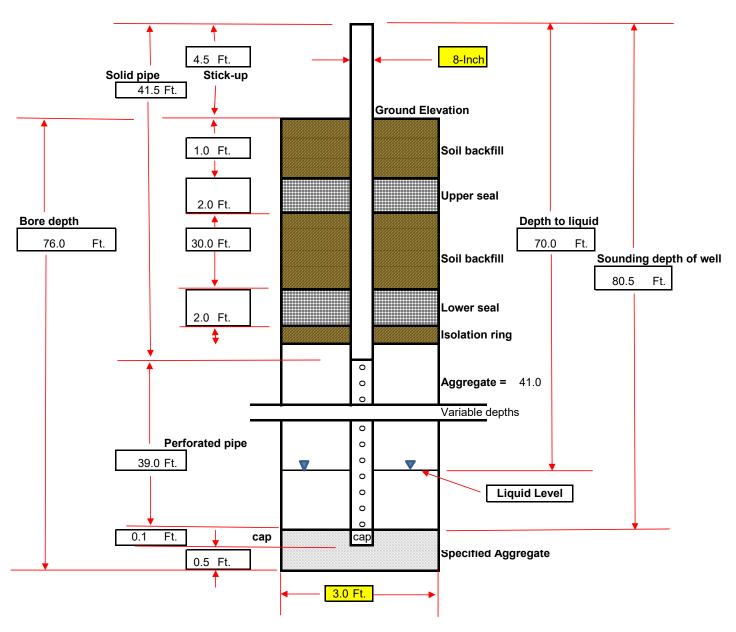
Coordinates:
Northing: 1,995,380
Easting: 140,361
Ground Elevation (MSL): 761

Notes: SURVEYED 760.8



GW-124	Alias
Date Installed	
Installation (Landfill Drilling	<u> </u>
Pipe Materia	l: Schedule 80 PVC



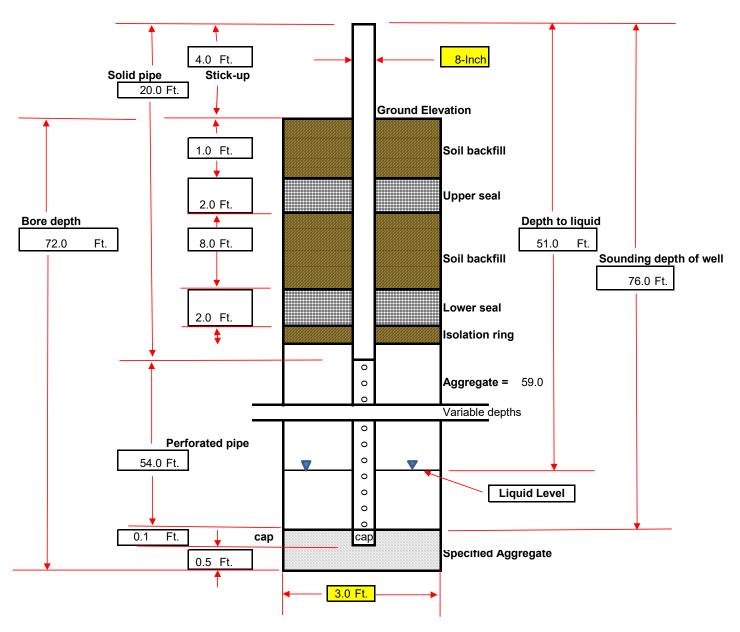


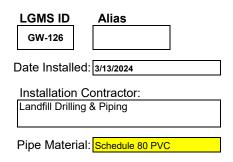
LGMS ID	Alias
GW-125	
Date Installed	3/15/2024
Installation (Landfill Drilling	
Pipe Materia	: Schedule 80 PVC

Site Name:	OAK RIDGE RDF
Site ID: (e.g.S04	4567)
0.1	
City: Logan	sport State: IN
General Comr	nents:
Coordinates :	
Northing: 1,995,17	' 1
Easting: 140,535	1

Ground Elevation (MSL): 759

Notes: SURVEYED ELEVATION 758.3





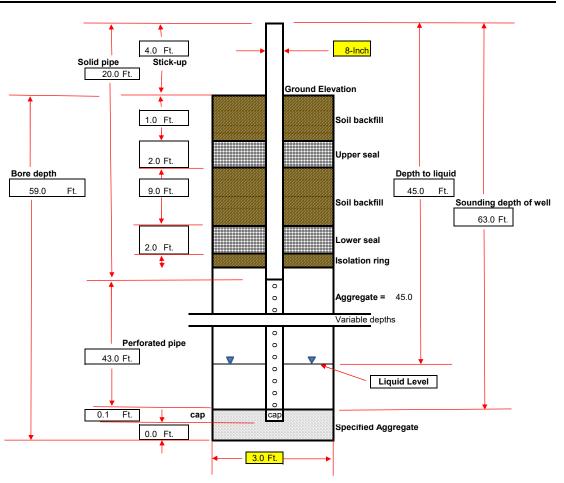
Site Name: OAK RIDGE RDF

Site ID: (e.g.S04567)

City: Logansport State: IN

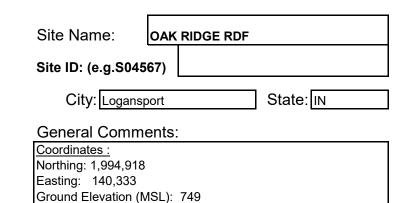
General Comments:

Coordinates:
Northing: 1,995,097
Easting: 140,312
Ground Elevation (MSL): 752
Notes: SURVEYED ELEVATION 751.14



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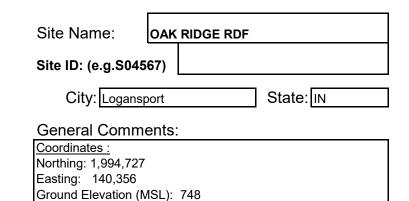
LGMS ID	Alias
GW-127	
Date Installed	3/13/2024
Installation C	Contractor:
Landfill Drilling	& Piping
Pipe Material	Schedule 80 PVC



Notes: SURVEYED ELEVATION 748.3

4.0 Ft. 8-Inch Solid pipe Stick-up 20.0 Ft. **Ground Elevation** 1.0 Ft. Soil backfill Upper seal 2.0 Ft. Bore depth Depth to liquid 58.0 Ft. 8.0 Ft. 48.0 Ft. Soil backfill Sounding depth of well 62.0 Ft. Lower seal 2.0 Ft. Isolation ring 0 Aggregate = 45.0 Variable depths 0 Perforated pipe 0 42.0 Ft. 0 0 0 Liquid Level 0 Ft. 0.1 сар cap Specified Aggregate 0.5 Ft. 3.0 Ft.

<u> 1</u>	GMS ID	Alias	
	GW-128		
D	ate Install	ed: 3/17/2024	
_		n Contractor:	
L	andfill Drill	ing & Piping	
P	ipe Mate	rial: Schedule 80 PVC	,



Notes: SURVEYED ELEVATION 747.0

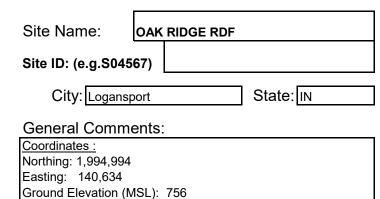
Specified Aggregate

4.0 Ft. 8-Inch Solid pipe Stick-up 20.0 Ft. **Ground Elevation** 1.0 Ft. Soil backfill Upper seal 2.0 Ft. Bore depth Depth to liquid 59.5 Ft. 8.5 Ft. NA Ft. Soil backfill Sounding depth of well 63.0 Ft. Lower seal 2.0 Ft. Isolation ring 0 Aggregate = 46.0 Variable depths 0 Perforated pipe 0 43.0 Ft. 0 0 0 Liquid Level 0 Ft. 0.1 сар cap

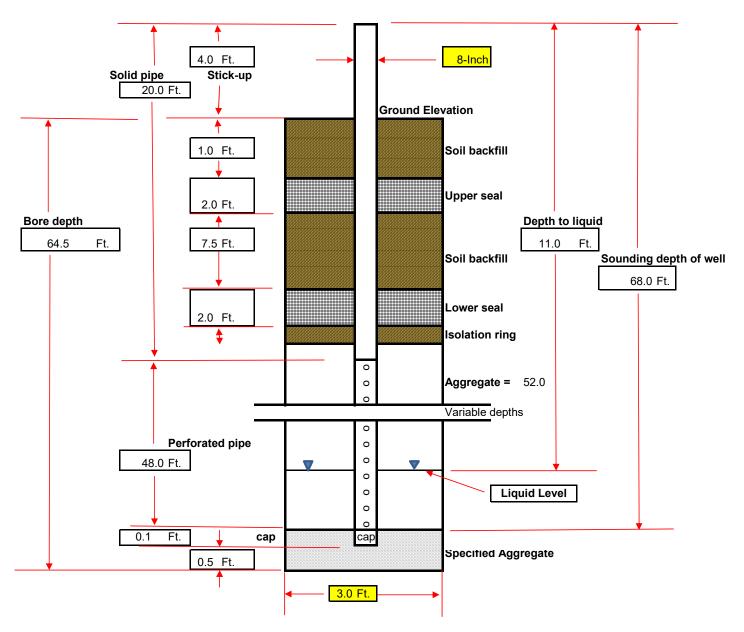
3.0 Ft.

0.5 Ft.

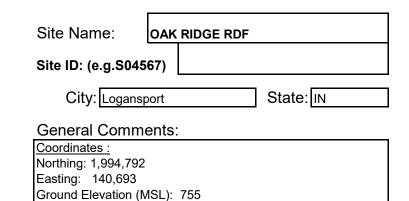
<u>L</u>	GMS ID	Alias	-
	GW-129		
Da	ate Install	ed: 3/15/2023	·]
Ir	nstallatior	n Contractor:	
L	andfill Drill	ing & Piping	
Р	ipe Mater	ial: Schedule 80 PVC	



Notes: SURVEYED ELEVATION 756.0



LGMS ID	Alias	
GW-130		
Date Insta	lled: 3/15/2024	
Installatio	n Contractor:	
Landfill Dri	lling & Piping	
Pipe Mate	erial: <mark>Schedule 80 PVC</mark>	



Notes: SURVEYED ELEVATION 754.6

4.0 Ft. 8-Inch Solid pipe Stick-up 20.0 Ft. **Ground Elevation** 1.0 Ft. Soil backfill Upper seal 2.0 Ft. Bore depth Depth to liquid 65.0 Ft. 11.4 Ft. 10.0 Ft. Soil backfill Sounding depth of well 68.0 Ft. Lower seal 2.0 Ft. Isolation ring 0 Aggregate = 52.0 Variable depths 0 Perforated pipe 0 0 48.0 Ft. 0 0 Liquid Level 0 Ft. 0.1 сар cap Specified Aggregate 0.5 Ft. 3.0 Ft.

LGN	/IS ID	Alias	
GV	V-131		
Date	Installed	: 3/18/2024	
		Contractor:	
Land	Ifill Drilling	& Piping	
Pipe	Material	: Schedule 80 PVC	_

Site Name: OAK RIDGE RDF

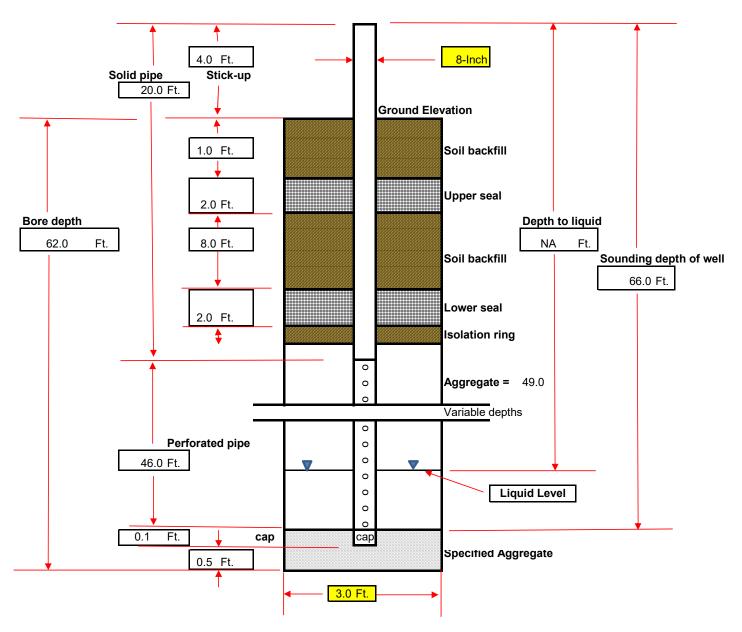
Site ID: (e.g.S04567)

City: Logansport State: IN

General Comments:

Coordinates:
Northing: 1,994,797
Easting: 140,488

Ground Elevation (MSL): 749 Notes: Surveyed elevation - 748.02





Appendix B

HDPE Pipe Air Pressure Test Report



 $T_{\scriptscriptstyle i} = {\it Initial temperature in} \ ^{\scriptscriptstyle o}C = \underline{\hspace{1cm}^{\scriptscriptstyle o}C}$

 P_i = Initial test pressure in psi = _____psi

 $P_o = Initial \ pressure \ in \ psi \ corrected \ for \ temperature$

t = Time in min utes from initiation of test

 $T_t = Temperature in \, ^{o}C \, at \, time \, ^{t}t^{t}$

 $P_t = Test \ pressure \ in \ psi \ at \ time't'$

$$P_o = \frac{(P_i + 14.7)(T_i + 273)}{(T_i + 273)} - 14.7$$

 $Percent \text{ Pr } essure Drop = \frac{P_o - P_t}{P_o} \times 100\%$

PIPE PRESSURE TEST

Oak Ridge RDF 2024 GCCS Project WMMW00085

Contractor: Fox Contractors

CQA Firm: T&M Associates

Observer: J. Sutton

Test # 1 4/18/2024	12" west side inclu	ding all risers and 6" co	onnections		
Time	Gauge	Temp	Adjusted		
Minutes	Pressure	С	Pressure	% Change	
0	10.00	21	10.000		
10					
20					
30					
40					
50					
60	10.00	21		0.00%	Pass

Test # 2 4/18/2024	12" east and middl	e including all risers an	d 6" connections		
Time	Gauge	Temp	Adjusted		
Minutes	Pressure	c ·	Pressure	% Change	
0	10	15.6	10.000		
10					
20					
30					
40					
50					
60	10	15.6		0.00%	Pass

Test # 3	18" to flare includi	ng knockout and run to	new landfill		
Time	Gauge	Temp	Adjusted		
Minutes	Pressure	С	Pressure	% Change	
0	10	16.7	10.000		
10					
20					
30					
40					
50					
60	10	16.7		0.00%	Pass



Appendix C

Daily Field Reports



DAILY FIELD REPORT

PROJECT NAME:	GCCS UPGRADES	DATE:		03/13/24	
PLANS AND SPECS:		WEATHER:		SUNNY	
ISSUE DATE:		TEMP. RANGE	63	TO	68
PERSONNEL -				Ī	
T&M FIELD REP:	Joe Sutton	CLIENT:	WAST	WASTE MANAGEMENT	NT
T&M PROJ. MANAGER:	Brad Hartz	CLIENT CONTACT:	ZD.	Randy Russell	
CONTRACTOR:	Landfill Drilling and Piping	SUPERVISOR:	Brandon	on VanPembrook	ok
SAFETY MEETING PARTICIPATION	TION				
Participation in Contractor's Tailgate	Safety Meeting? 🛛 Yes	or □ No Vehicle	Vehicle Check Performed	ed? ⊠ Yes or □ No	No No
SUMMARY OF WORK OBSERVED,	VED, LOCATION, AND CONTRACTOR PERFORMING WORK	R PERFORMING WORK			
0530 – Travel from home shop to site	site.				
1030 - Arrived on site. Unloaded	Unloaded RTV and set up survey equipment. Met with Brandon. They are preparing to drill.	h Brandon. They are preparing	to drill.		
Checked and marked all staked lo	Checked and marked all staked locations. All are within 1' of design elevation and X,Y locations are good	n and X,Y locations are good.			
Today's observations included taki pack, installation of clay into borer observed removal and disposal of	Today's observations included taking of trash temperatures as it was removed from the borehole, casing measurement and installation, installation of gravel pack, installation of clay into borehole, mixing and installation of bentonite seals, and placement of safety grate once completion activities were done. Also observed removal and disposal of the excavated waste in a designated disposal area.	d from the borehole, casing measals, and placement of safety grasal area.	asurement and inst ate once completion	allation, installation nactivities were d	one. Also
1247 – Drilling starts on GW-K.					
1350 – Setting casing in K. Rig m	Setting casing in K. Rig moved to "L". Crew begins completions in "K".	(°.			
1405 – Drilling starts on "L".					
1503 – Drilling on "L" complete, casing going in	asing going in.				
1645 – GW-L is drilled and comple	GW-L is drilled and completed. Packed up equipment and left site.				
SUMMARY OF MEETINGS / D	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	ERSATIONS / VISITORS ON	NSITE		
DESCRIPTION OF SAMPLES T	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	TO LAB			
APPROVED BY:					
PROJ. MANAGER:	DATE:				
This doc	This document is draft until reviewed and approved by a Project Manager	l by a Project Manager			



DAILY FIELD REPORT

PROJECT NAME:	GCCS UPGRADES	_ DATE:		03/14/24	
PROJECT NUMBER:	WMMW00086	LOCATION:		OAK RIDGE	
PLANS AND SPECS:		WEATHER:		Overcast	
ISSUE DATE:		TEMP. RANGE	54	TO	60
PERSONNEL -				I	
T&M FIELD REP:	Joe Sutton	CLIENT:	WASTE	E MANAGEMENT	JT
T&M PROJ. MANAGER:	Brad Hartz	CLIENT CONTACT:	R	Randy Russell	
CONTRACTOR:	Landfill Drilling and Piping	SUPERVISOR:	Brandon	on VanPembrook	ok
SAFETY MEETING PARTICIPATION	TION				
Participation in Contractor's Tailgate Safety Meeting?	⊠ Yes	or □ No Vehicle	Check Performea	ed? ⊠ Yes or □ No	J No
SUMMARY OF WORK OBSERV	SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK	R PERFORMING WORK			
0715 - On site. Loaded equipme	Loaded equipment and moved to drill area. Rain last night	Rain last night caused area to be muddy. Rig is	is set up on GW-B.		
0745 - Drilling starts.					
0813 - Randy Russell on site.					
0846 – B drilled to design depth. Crew completes "B" while rig is dri	0846 – B drilled to design depth. Well casing being installed and rig moves to GW-A. Crew completes "B" while rig is drilling.	o GW-A.			
1025 - "A" is drilled to design depth and casing is set.	h and casing is set. Completion activity sta	Completion activity starts and is finished before rain and lightning at 1100.	and lightning at 110	,	
Waited on rain and lightning to mo	Waited on rain and lightning to move through to see if we'll work any more today. Set new survey point on electrical panel by exit gate.	day. Set new survey point on el	ectrical panel by exi	t gate.	
1330 – Talked to Brandon. No mo	No more work today.				
Today's observations included taki pack, installation of clay into borer observed removal and disposal of	Today's observations included taking of trash temperatures as it was removed from the borehole, casing measurement and installation, installation of gravel pack, installation of clay into borehole, mixing and installation of bentonite seals, and placement of safety grate once completion activities were done. Also observed removal and disposal of the excavated waste in a designated disposal area.	d from the borehole, casing me als, and placement of safety gr sal area.	asurement and instrate once completion	allation, installation activities were do	n of gravel ne. Also
1400 – Packed up equipment and left site	left site.				
SUMMARY OF MEETINGS / D	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	RSATIONS / VISITORS O	NSITE		
DESCRIPTION OF SAMPLES T	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	TO LAB			
APPROVED BY:					
PROJ. MANAGER:	DATE:				
	This document is draft until reviewed and approved by a Project Manager	by a Project Manager			



DAILY FIELD REPORT

PROJECT NAME:	GCCS UPGRADES	_ DATE: _		03/15/24	
PROJECT NUMBER:	WMMW00086	_ LOCATION:		OAK RIDGE	
PLANS AND SPECS:		WEATHER:		Cloudy	
ISSUE DATE:		TEMP. RANGE	43	T0	50
PERSONNEL					
T&M FIELD REP:	Joe Sutton	CLIENT:	WASTE N	TE MANAGEMENT	ZT
T&M PROJ. MANAGER:	Brad Hartz	CLIENT CONTACT:		Randy Russell	
CONTRACTOR:	Landfill Drilling and Piping	SUPERVISOR:	Brandon	don VanPembrook	ŏk
SAFETY MEETING PARTICIPATION	TION				
Participation in Contractor's Tailgate Safety Meeting?		Yes or □ No Vehicle	Vehicle Check Performed	med? ⊠ Yes or □ No	No C
SUMMARY OF WORK OBSERV	SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK	R PERFORMING WORK			
0630 - On site. Loaded equipme	Loaded equipment and moved to drill area. Site is very muddy.	ddy.			
0734 - Drilling starts on 57R. Hit a few lar instructed to call him if we encounter more	0734 – Drilling starts on 57R. Hit a few large chunks of dross in the upper 10' of the hole. Called Randy to get instructions in case instructed to call him if we encounter more.	ס' of the hole. Called Randy to go	et instructions in	case we encounter more. He	more. He
0902 – Drilled 57R to design dept	Drilled 57R to design depth. Casing is going in. Rig moves off to GW-O while crew works to complete 57R	O while crew works to complete 5	57R.		
0918 - Drilling starts on "O".					
1128 – "O" drilled to design depth	"O" drilled to design depth. Well casing is installed. Rig moves to GW-N while crew completes "O".	-N while crew completes "O".			
1154 – Drilling commences on 'N"					
1304 – "N" drilled to design depth and casing is set.	and casing is set. Crew works to complete	Crew works to complete "N" while rig moves to GW-J.			
1409 – Drilling on "J" starts.					
1506 – "J" is drilled to design dept	1506 – "J" is drilled to design depth and casing is set. Crew completes "J" and then work stops for the day.	nd then work stops for the day.			
Today's observations included taki pack, installation of clay into boreh observed removal and disposal of	Today's observations included taking of trash temperatures as it was removed from the borehole, casing measurement and installation, installation of gravel pack, installation of clay into borehole, mixing and installation of bentonite seals, and placement of safety grate once completion activities were done. Also observed removal and disposal of the excavated waste in a designated disposal area.	d from the borehole, casing meanals, and placement of safety granals, and placement of safety granals area.	surement and in te once completi	stallation, installation activities were d	one. Also
1700 – Packed up equipment and left site	left site.				
SUMMARY OF MEETINGS / D	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	RSATIONS / VISITORS ON	SITE		
DESCRIPTION OF SAMPLES T	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	TO LAB			
APPROVED BY:					
PROJ. MANAGER: This doc	DATE:	by a Project Manager			



DAILY FIELD REPORT

PROJECT NAME:	GCCS UPGRADES	_ DATE: _	03/16/24	
PROJECT NUMBER:	WMWW00086	_ LOCATION:	OAK RIDGE	
PLANS AND SPECS:		WEATHER:	Sunny and Windy	y
ISSUE DATE:		TEMP. RANGE	34 TO	55
PERSONNEL				
T&M FIELD REP:	Joe Sutton	CLIENT:	WASTE MANAGEMENT	ENT
T&M PROJ. MANAGER:	Brad Hartz	CLIENT CONTACT:	Randy Russell	
CONTRACTOR:	Landfill Drilling and Piping	SUPERVISOR:	Brandon VanPembrook	rook
SAFETY MEETING PARTICIPATION	TION			
Participation in Contractor's Tailgate Safety Meeting?	⊠ Yes	or □ No Vehicle	Check Performed? ✓ Yes or No	No No
SUMMARY OF WORK OBSER	SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK	R PERFORMING WORK		
0730 - On site. Loaded equipme	Loaded equipment and moved to drill location "I" where rig is set up	is set up.		
0742 - Drilling starts. Dross was of Contacted Randy. Will set solid ca	0742 – Drilling starts. Dross was encountered from \sim 4' to \sim 34'. Drilled back into trash below 34'. Contacted Randy. Will set solid casing through dross zone. No heating issues were observed during drilling.	into trash below 34'. s were observed during drilling.		
0930 – Completed well to design of	0930 – Completed well to design depth. See well diagram for changes from standard piping design	standard piping design.		
0942 – Started drilling on GW-H while crew completes "I"	hile crew completes "I"			
1058 – "H" drilled to design depth	"H" drilled to design depth. Some dross encountered in the top 10' of the well. No completion deviations from standard design on this well.	of the well. No completion deviati	ions from standard design on this	well.
1130 – Rig begins drilling on GW-C	Rig begins drilling on GW-G while crew completes "H". There was a \boldsymbol{v}	There was a very small amount of dross observed in the top 10' of	/ed in the top 10' of this well also.	
1235 – "G" drilled to design depth	"G" drilled to design depth and casing is installed. Rig moves to GW-F	F.		
1250 – Drilling commences on "F"	Drilling commences on "F" while crew completes "G" to standard design.	ign.		
1348 – "F" is drilled to design dep	1348 – "F" is drilled to design depth and casing is installed. Crew completes this well while rig moves to GW-E	this well while rig moves to GW-I	i.	
1410 - Drilling starts on "E".				
1519 – "E" is drilled to design dep	"E" is drilled to design depth. This well is completed as rig moves off and sets up on GW-D where we will commence drilling tomorrow.	and sets up on GW-D where we v	will commence drilling tomorrow.	
Today's observations included taki pack, installation of clay into boreh observed removal and disposal of	Today's observations included taking of trash temperatures as it was removed from the borehole, casing measurement and installation, installation of gravel pack, installation of clay into borehole, mixing and installation of bentonite seals, and placement of safety grate once completion activities were done. Also observed removal and disposal of the excavated waste in a designated disposal area.	d from the borehole, casing meas sals, and placement of safety grat sal area.	surement and installation, installate once completion activities were	ion of gravel done. Also
1630 – Packed up equipment and	1630 – Packed up equipment and left site. Competed drill logs and diagrams for wells completed to date	s for wells completed to date.		
SUMMARY OF MEETINGS / D	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	ERSATIONS / VISITORS ON	SITE	
DESCRIPTION OF SAMPLES T	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	TO LAB		
APPROVED BY:				
PROJ. MANAGER:	DATE:			
This doc	This document is draft until reviewed and approved by a Project Manager	l by a Project Manager		



DAILY FIELD REPORT

PROJECT NAME:	GCCS UPGRADES	DATE:	03/17	17/24 Sunday	
PROJECT NUMBER: —	WMMW00086	LOCATION:		OAK RIDGE	
PLANS AND SPECS:		WEATHER:	Sunny	iny and Breezy	
ISSUE DATE:		TEMP. RANGE	32	10	38
PERSONNEL -				I	
T&M FIELD REP:	Joe Sutton	CLIENT:	WAST	WASTE MANAGEMENT	VT
T&M PROJ. MANAGER:	Brad Hartz	CLIENT CONTACT:	Z.	Randy Russell	
CONTRACTOR:	Landfill Drilling and Piping	SUPERVISOR:	Brandon	on VanPembrook	ŏk
SAFETY MEETING PARTICIPATION	TION				
Participation in Contractor's Tailgate	Tailgate Safety Meeting? 🛭 Yes or	or □ No Vehicle	Check Performed	ed? ⊠ Yes or □ No	□No
SUMMARY OF WORK OBSER	SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK	R PERFORMING WORK			
0730 – On site. Loaded equipme	0730 – On site. Loaded equipment and moved to drill location "D" where rig is set up	is set up.			
0748 - Drilling starts.					
0858 – "D" is drilled to design dep	"D" is drilled to design depth. Rig moves to "C" as "D" is completed.				
0910 – Drilling on "C" commences	0910 – Drilling on "C" commences. Crew continues work on completion of the previous well.	e previous well.			
0950 – "C" is drilled to design dep	"C" is drilled to design depth. Rig moves off to GW-M as crew begins completion work on "C".	completion work on "C".			
1000 – Drilling starts on "M".					
1109 – Drilling complete on "M". trash disposal area.	– Drilling complete on "M". This well is completed as Brandon used the D6 dozer to shape up areas disturbed during drilling disposal area.) D6 dozer to shape up areas di	sturbed during drill	ing operations and to cover	to cover
Surveyed new control point by exit	Surveyed new control point by exit gate. Also surveyed well caps of wells completed to date.	pleted to date.			
1330 - Off site to complete paperwork and notes.	work and notes.				
SUMMARY OF MEETINGS / D	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	RSATIONS / VISITORS ON	SITE		
DESCRIPTION OF SAMPLES T	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	TO LAB			
APPROVED BY:					
PROJ. MANAGER:	DATE:				
This doc	This document is draft until reviewed and approved by a Project Manager	by a Project Manager			



DAILY FIELD REPORT

	by a Project Manager	DATE: This document is draft until reviewed and approved by a Project Manager	ĒR:
			APPROVED BY:
	TO LAB	DESCRIPTION OF SAMPLES TAKEN OR MATERIALS DELIVERED TO LAB	DESCRIPTION OF SAMPLES
Œ	RSATIONS / VISITORS ONSI	SUMMARY OF MEETINGS / DISCUSSIONS / TELEPHONE CONVERSATIONS / VISITORS ONSITE	SUMMARY OF MEETINGS / [
llation later this week.	रTV and trailer on site for pipe insta	Well completed. Packed equipment and off site to home shop. Left RTV and trailer on site for pipe installation later this week.	1000 – Well completed. Packed
s included taking of trash temperatures as clay into borehole, mixing and installation of disposal of the excavated waste in a	pleted to date. Today's observation ation of gravel pack, installation of e done. Also observed removal and	Surveyed new control point by exit gate. Also surveyed well caps of wells completed to date. Today's observations included taking of trash temperatures as it was removed from the borehole, casing measurement and installation, installation of gravel pack, installation of clay into borehole, mixing and installation of bentonite seals, and placement of safety grate once completion activities were done. Also observed removal and disposal of the excavated waste in a designated disposal area.	Surveyed new control point by exit was removed from the borehole, c bentonite seals, and placement of designated disposal area.
		0904 – Gravel pack is installed. Work continues to complete the well. Top of casing is surveyed and recorded	0904 – Gravel pack is installed. Work continues to complete the w
	ff to prepare for transport.	xth. Casing is installed and the rig moves off to prepare for transport.	0826 – "P" is drilled to design depth.
			0712 - Drilling starts.
	is set up.	Loaded equipment and moved to drill location "P" where rig is set up	0700 - On site. Loaded equipme
	R PERFORMING WORK	SUMMARY OF WORK OBSERVED, LOCATION, AND CONTRACTOR PERFORMING WORK	SUMMARY OF WORK OBSER
Vehicle Check Performed? ☒ Yes or ☐ No	Yes or ☐ No Vehicle Ch		Participation in Contractor's Tailgate Safety Meeting?
		TION	SAFETY MEETING PARTICIPATION
Brandon VanPembrook	SUPERVISOR:	Landfill Drilling and Piping	CONTRACTOR:
Randy Russell	CLIENT CONTACT:	Brad Hartz	T&M PROJ. MANAGER:
WASTE MANAGEMENT	CLIENT:	Joe Sutton	T&M FIELD REP:
;			PERSONNEL -
31 TO 35	TEMP. RANGE		ISSUE DATE:
Overcast	WEATHER:		PLANS AND SPECS:
OAK RIDGE	LOCATION:	WMMW00086	PROJECT NUMBER:
03/18/24	DATE:	GCCS UPGRADES	PROJECT NAME:



Appendix D

Photo Log



Direction: North

Description:

Drill rig starting construction of

LFG extraction well.



Photo Number: 2

Direction:

Description:

Solid waste just extracted from the well.

Note the thermometer sticking out of the waste.



T&M ASSOCIATES, INC. *Indianapolis, Indiana*

SITE NAME



3

Direction: North

Description:

Drill rig and articulated truck used to haul the extracted solid waste to the active face for disposal.



Photo Number: 4

Direction:

Description:

Lowering the PVC gas collection pipe into the well.



T&M ASSOCIATES, INC. *Indianapolis, Indiana*

SITE NAME



Direction: Northeast

Description:

Setting the PVC gas collection pipe in the drilled well hole.



Photo Number:

0

Direction: Southeast

Description:

Alining the PVC extraction piping prior to adding gravel to the well.



T&M ASSOCIATES, INC. *Indianapolis, Indiana*

SITE NAME



Direction:

Description:

Placement of the HDPE condensate knockout.

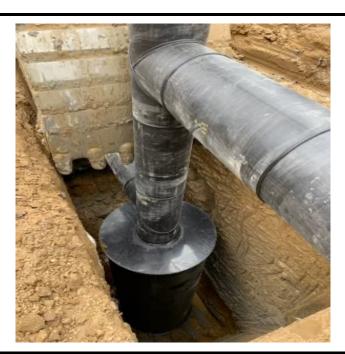


Photo Number:

8

Direction:

Description:

Placement of the HDPE condensate knockout.



T&M ASSOCIATES, INC. *Indianapolis, Indiana*

SITE NAME



Record Drawings

Drawing 1 of 2: 2024 GCCS As Built Drawing 2 of 2: 2024 GCCS As Built Point File

		PC	INT TAE	BLE
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
6	723.70	1993145.80	139724.24	СР
7	729.88	1992486.42	139730.13	СР
8	727.88	1992981.47	142379.81	СР
10	685.10 655.65	1995008.92 1996121.70	143813.99	CP CP
17	724.56	1994267.72	140932.78	CP
41	713.47	1994462.49	140018.62	6_ HZ COL
42	751.87	1994932.64	140582.86	INCHHEADER _12 INCH CAP INCH
43	731.87	1994452.45	141014.17	INCH _6 INCH TEE INCH
44	741.58	1994510.23	141038.45	INCH _6 INCH INCH
45	742.62 750.44	1994933.76 1994552.46	140070.08	INCHVAC _6 INCH 90 AT RSR INCH
47	764.55	1994604.33	141070.09	INCH _6 INCH INCH
48	779.04	1994651.35	141086.40	INCH _6 INCH INCH
49	792.58	1994714.33	141096.32	INCH _6 INCH INCH
50	800.31	1994765.93	141091.99	INCH _6 INCH TEE AT RSR INCH
51	799.29 799.40	1994767.51 1994758.69	141091.78	INCH _6 INCH WF 90 INCH
53	801.40	1994760.43	140944.40	INCH _6 INCH 90 AT RSR INCH
54	814.47	1995218.11	141000.05	INCH _6 INCH 90 AT RSR INCH
55	812.98	1995232.08	140970.40	INCH _6 INCH INCH
56	811.18	1995244.50	140919.14	INCH _6 INCH INCH
57	809.00	1995248.56	140882.12	INCH _6 INCH TEE AT RSR INCH
58	809.04 807.40	1995250.41	140840.71	INCH _6 INCH INCH
60	807.49 809.49	1995249.59	140798.76	INCH _6 INCH 99 AT RSR INCH
61	807.62	1995250.65	140737.31	INCH _6 INCH INCH
62	788.54	1995249.77	140682.06	INCH _6 INCH TEE INTO EX RSR INCH
63	749.92	1994784.42	140653.82	_12X12X6 EF TEE
64	753.32	1994796.82	140691.34	INCH _6 INCH 99 AT RSR INCH
65	752.09 753.34	1994971.99 1994992.09	140570.94	_12X12X6 TEE INCH _6 INCH 90 AT RSR INCH
67	753.36	1995021.85	140562.70	INCH _12 INCH INCH
68	753.88	1995071.28	140552.44	INCH _12 INCH INCH
69	752.76	1995127.03	140540.68	INCH _12 INCH INCH
70	754.39	1995169.41	140531.04	_12X12X6 TEE AT RSR
71	736.48	1994543.92	140447.26	INCH _12 INCH INCH
72	727.47 728.01	1994483.92	140451.49	_12X12 EF TEE INCH _12 INCH 22DEG INCH
74	723.38	1994448.92	140460.63	_12 VALVE
75	728.45	1994552.44	140520.30	INCH _12 INCH INCH
76	739.81	1994602.28	140580.00	INCH _12 INCH INCH
77	740.23 741.92	1994646.98	140588.84	_12X6X12 TEE AT RSR INCH _12 INCH INCH
79	741.92	1994798.68	140490.30	INCH _12 INCH CAP INCH
80	743.80	1994795.77	140491.78	_12X6X12 EF TEE
81	747.43	1994851.66	140553.28	INCH _6 INCH 90 AT RSR INCH
82	755.67	1995253.85	140509.73	INCH _12 INCH INCH
83	759.11	1995333.88	140486.09	_12X6X12 TEE AT RSR
84	759.04 747.74	1995337.08 1995099.57	140484.96	INCH _12 INCH CAP INCH _12 CAP
86	747.64	1995097.18	140314.56	_12X6X12 TEE AT RSR
87	744.93	1994918.48	140336.60	_12X6X12 TEE AT RSR
88	742.63	1994831.17	140347.62	INCH _12 INCH INCH
89	740.12	1994725.04	140358.85	_12X6X12 TEE AT RSR
90	739.23 736.98	1994665.09 1994585.19	140389.53	INCH _12 INCH INCH _12X6X12 TEE AT RSR
92	739.00	1994585.19	140058.51	_12X6X12 TEE AT RSR
93	722.62	1994471.20	140021.09	INCH _12 INCH INCH
94	717.03	1994443.07	140017.73	_12X6X12 RSR
95	718.98	1994437.25	140018.92	_12 VALVE
96	740.84	1994607.79 1994731.55	140064.65	INCH _12 INCH INCH _12X6X12 AT RSR
97	743.23 743.00	1994731.55	140074.11	INCH _12 INCH CAP INCH
99	739.59	1994512.87	142075.89	
100	639.82	1996405.26	139715.52	
101	728.75	1994227.48	140967.30	
102	739.84	1994507.60	142078.25	INCHHEADER _18 INCH VALVE INCH
103	739.49 736.43	1994503.28 1994481.46	142080.73	HEADER _22DEG ELBOW INCHHEADER _18 INCH INCH
105	728.68	1994421.78	142080.97	INCHHEADER _18 INCH INCH
106	724.94	1994377.38	142089.30	INCHHEADER _18 INCH INCH
107	718.38	1994356.04	142100.55	INCHHEADER _18 INCH INCH
108	713.98	1994333.30	142116.44	INCHHEADER _18 INCH INCH
109	712.52 711.59	1994311.54 1994300.25	142138.62	HEADER INCHHEADER _18 INCH INCH
111	711.34	1994300.25	142188.37	INCHHEADER _18 INCH INCH
112	711.00	1994295.92		HEADER

112 711.00 1994295.92 142214.00

113 710.63 1994295.61 142243.91

114 710.46 1994295.11 142277.27

HEADER

HEADER

HEADER

1		F	POINT TA	ABLE
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
115	709.77	1994291.94	142321.32	HEADER
116	744.02	1995089.70	140086.52	INCHVAC _6 INCH TEE INTO EX INCH
117	746.94	1995137.46	140106.34	INCHVAC _6 INCH 90 AT RSR INCH
118	748.64	1995299.31	140131.75	INCHVAC _6 INCH TEE INO EX INCH
119	751.54	1995338.01	140155.04	VAC _90 AT RSR
120	752.58	1995306.01	140359.02	INCHVAC _6 INCH TEE INTO EX INCH
121	757.63	1995378.97	140357.66	INCHVAC _6 INCH 90 AT RSR INCH
122	723.37	1994447.30	140440.70	INCHVAC _TEE INTO EX 6 INCH INCH
123	728.00	1994477.54	140379.96	INCHVAC _6 INCH INCH
124	738.28	1994509.64	140300.95	VAC
125	738.30 738.54	1994510.58 1994511.36	140301.60	VAC VAC
127	743.35	1994540.81	140258.24	INCHVAC _6 INCH 90 AT RSR INCH
128	743.24	1994541.98	140258.73	INCHVAC _6 INCH 90 AT RSR INCH
129	743.08	1994543.85	140256.69	INCHVAC _6 INCH 90 AT RSR INCH
130	722.10	1994442.37	140311.69	VAC _90 IN TO BELLY COLL TEE
131	722.11	1994442.19	140310.64	VAC _90 INTO BELLY COLL TEE
132	775.12	1995047.83	140709.33	INCHVAC _6 INCH 90 AT GW115 RSR INCH
133	709.67	1994290.38	142347.20	INCHVAC _18 INCH 90 INCH
134	709.09	1994252.95	142347.80	INCHVAC _18 INCH INCH
135	708.82	1994215.47	142346.41	INCHVAC _18 INCH INCH
136	739.84	1994442.04	140462.66	VAC _18X18X18 NF TEE
137	739.84	1994425.03	140018.85	VAC _18X18X18 NF TEE
138	744.00	1994953.68	140082.69	INCHVAC _6 INCH 90 AT RSR INCH
139	713.30	1994078.81	142327.91	HEADER_TOP KO
140	701.12	1994030.47	142318.59	HEADER_18 45
141	703.99	1993927.42	142409.88	HEADER_18
142	703.55	1993869.93	142416.66	HEADER_18 CAP
143	707.75	1994077.11	142326.51	FM_2X4 FM 90 UP TO KO
144	708.23	1994079.44	142326.41	
145	708.30	1994033.15	142292.30	FM_TIE IN TO EX FM EST
146	721.17	1994075.88	142264.14	HEADER_12 45 INTO FLARE
147	721.36	1994073.24	142264.14	HEADER_12 VALVE
148	707.00 700.16	1994080.64 1994076.23	142328.28	18 HEADER 18X12X18 TEE TO FLARE
149	700.16 774.25	19940/6.23	142327.34	18X12X18 IEE IO FLARE VAC
150	774.23	1995246.46	140080.28	VAC
152	775.29	1995233.75	140762.47	VAC
153	776.90	1995223.01	140810.30	VAC
154	712.49	1994723.42	139899.76	6" HZ COL
155	711.48	1994701.62	139914.55	6" HZ COL
156	710.30	1994688.41	139918.65	6" HZ COL
157	709.10	1994664.34	139921.79	6" HZ COL
158	710.72	1994688.56	139918.01	6" HZ COL
159	710.68	1994688.42	139917.56	6" HZ COL
160	709.71	1994598.90	139922.43	6" HZ COL
161	710.71	1994570.84	139920.75	6" HZ COL
162	710.48	1994530.91	139920.24	6" HZ COL
163	711.16	1994490.89	139922.21	6" HZ COL
164	711.19	1994478.81	139923.20	6" HZ COL
165	711.20	1994464.68	139933.24	6" HZ COL
166	711.88	1994461.42	139940.70	6" HZ COL
167	712.74	1994463.01	139938.76	6" HZ COL
168	712.27	1994464.22	139957.67	6" HZ COL
169	712.50	1994463.78	139987.79	6" HZ COL
170	713.47	1994462.49	140018.62	6" HZ COL
171	713.81	1994461.41	140043.65	6" HZ COL
172	712.63	1994725.64	139905.63	6" HZ COL
173	711.91	1994717.94	139921.84	6" HZ COL
174	711.03	1994709.49	139943.56	6" HZ COL
175	708.12	1994703.77	139956.85	6" HZ COL
176	706.20	1994694.06	139976.69	6" HZ COL
177	709.57	1994674.31	140013.00	6" HZ COL
178	711.19	1994656.21	140049.42	6" HZ COL
179	709.39	1994641.39	140081.40	6" HZ COL
180	713.08	1994616.73	140133.71	6" HZ COL
181	714.55	1994607.38	140158.56	6" HZ COL
182	711.88	1994768.34	139906.56	6" HZ COL
183	710.77	1994767.14	139922.48	6" HZ COL
184	708.68	1994766.11	139946.53	6" HZ COL
185	709.00	1994763.62	139958.44	6" HZ COL
186	711.10	1994757.23	140017.63	6" HZ COL
187	710.05	1994754.10	140054.33	6" HZ COL
188	710.68	1994748.21	140089.78	6" HZ COL
189	710.76	1994741.06	140112.50	6" HZ COL
190	711.47	1994732.12	140138.25	6" HZ COL
191	709.82	1994726.50	140154.83	6" HZ COL
131				
192	711.04	1994724.11	140172.57	6" HZ COL
-	711.04 712.65	1994724.11 1994723.17	140172.57 140194.12	6" HZ COL 6" HZ COL

TNIO	ELEVATION	NORTHING	EASTING	DESCRIPTION	POINT	ELEV
195	709.82	1994989.34	139907.95	6" HZ COL	275	70
196	709.05	1994982.19	139923.66	6" HZ COL	276	71
197	707.03	1994971.42	139944.77	6" HZ COL	277	70-
198	707.10	1994968.76	139949.42	6" HZ COL	278	70:
199	707.54	1994956.93	139972.70	6" HZ COL	280	71:
200	708.14	1994943.64	139999.93	6" HZ COL	281	71
201	708.67 709.26	1994920.58	140045.97	6" HZ COL 6" HZ COL	282	71:
203	709.45	1994894.12	140098.24	6" HZ COL	283	71
204	710.00	1994886.83	140112.79	6" HZ COL	284	71
205	711.26	1994867.93	140146.81	6" HZ COL	285 286	71
206	713.72	1994856.04	140168.60	6" HZ COL	287	71:
207	714.37	1994842.87	140190.40	6" HZ COL	288	72
208	709.87	1995009.68	139906.80	6" HZ COL	289	72
209	712.05	1995005.31	139943.33	SS	290	72
210	707.76	1995019.32	139944.70	6" HZ COL	291	72.
211	708.72	1995024.83	139969.06	6" HZ COL	292	72
212	709.38	1995028.41 1995033.74	139986.34	6" HZ COL 6" HZ COL	293	72
214	709.84	1995038.72	140036.86	6" HZ COL	295	72
215	710.81	1995045.04	140069.85	6" HZ COL	296	72
216	710.88	1995051.57	140100.71	6" HZ COL	297	72
217	711.68	1995058.97	140127.50	6" HZ COL	298	73
218	712.38	1995065.01	140151.73	6" HZ COL	299	73
219	712.43	1995067.53	140161.16	6" HZ COL	300	73
220	712.14	1995072.29	140178.94	6" HZ COL	301	73:
221	712.42	1995080.53	140216.43	6" HZ COL	303	73.
222	711.14	1994557.61	140029.51	STONE TRENCH	304	73.
223	710.05	1994604.56	140043.18	STONE TRENCH	305	73
224	710.90 714.84	1994656.80 1994733.10	140054.40	STONE TRENCH STONE TRENCH	306	73
226	712.50	1994767.42	140148.88	STONE TRENCH	307	73:
227	713.74	1994831.70	140182.27	STONE TRENCH	308 309	73
228	708.20	1994935.90	140021.22	STONE TRENCH	310	73
229	707.63	1994875.79	140021.70	STONE TRENCH	311	73
230	708.68	1994823.31	140019.42	STONE TRENCH	312	73
231	715.89 716.63	1994723.28 1994723.71	140247.48	STONE TRENCH	313	73
233	709.03	1994883.21	139901.51	HEADER	314	73
234	708.78	1994854.89	139900.94	HEADER	315 316	73
235	708.77	1994854.89	139900.87	HEADER	317	73
236	708.59	1994826.17	139899.68	HEADER	318	73
237	708.41	1994794.03	139898.69	HEADER	319	71
238 239	708.29 709.26	1994769.16 1994925.66	139897.94	HEADER HEADER	320	72
240	709.20	1994925.80	139901.38	HEADER	321	73:
241	709.46	1994956.45	139900.64	HEADER	322 323	72
242	709.74	1994987.61	139901.00	HEADER	324	73
243	709.81	1994998.24	139901.63	HEADER	325	73:
244	710.20	1995011.32	139904.14	HEADER	326	73
245	710.59 710.59	1995026.58 1995043.64	139908.09	HEADER HEADER	327	74
247	710.87	1995043.64	139913.81	HEADER	328	72
248	711.13	1995088.24	139931.42	HEADER	329	72
249	711.28	1995109.48	139939.66	HEADER	331	73
250	711.47	1995125.84	139945.43	HEADER	332	73
251	711.79	1995148.22	139950.88	HEADER	333	74
252 253	712.20 712.76	1995163.15 1995188.90	139953.95	HEADER HEADER	334	73:
254	712.78	1995191.61	139960.62	HEADER	335	73
255	705.24	1994699.39	139897.98	HEADER	336	74:
256	705.99	1994681.18	139898.66	HEADER	338	75- 75:
257	705.10	1994725.61	139897.82	HEADER	339	76
258	706.01	1994641.92	139899.92	HEADER	340	76
259	708.16	1994613.34 1994594.40	139898.74	HEADER	341	77
260 261	709.54 709.96	1994594.40	139897.96	HEADER HEADER	342	71
262	710.15	1994542.52	139892.67	HEADER	343	71
263	710.49	1994517.27	139889.83	HEADER	344 345	71
264	710.66	1994503.79	139889.82	HEADER	345	71.
265	710.82	1994496.05	139889.26	HEADER	347	71:
266	709.43	1994522.16	139889.12	FM	348	71
267	710.17	1994545.10	139892.04	FM	349	71:
268 269	709.96 709.36	1994569.60 1994592.26	139894.83 139896.72	FM FM	350	71.
270	709.36	1994603.07	139897.27	FM	351	73.
271	705.47	1994628.30	139898.62	FM	352 353	74
272	704.61	1994654.15	139898.88	FM	353 354	74.
273	704.11	1994685.42	139897.44	FM	ı ∟ ^{∪∪}	

ا جريار		POINT TA)ECODIDITION	DOINT	ELE (ATIO)	POINT TA	1	DECODIDE
INT	ELEVATION		 	DESCRIPTION	POINT	ELEVATION	_		DESCRIPTION
75	703.78	1994732.98	139896.93	FM	355	735.40	1995066.31	140517.03	VAC
76	710.91	1994517.10	139889.92	FM	356	714.98	1995199.50	140277.15	VAC
77	704.94	1994751.57	139898.10	HEADER	357	709.84	1994741.33	139896.23	
78	708.32	1994754.26	139897.62	HEADER	358	709.71	1994729.31	139895.88	
79	717.79	1994752.85	139897.78	HEADER	359	709.49	1994718.27	139897.03	
80	712.50	1995163.22	139954.59	HEADER	360	716.69	1994749.19	139897.22	
81	714.35	1995159.62	139971.39	HEADER	361	709.51	1994700.16	139898.63	
82	715.76	1995159.05	139996.48	HEADER	362	710.15	1994657.68	139899.89	=: ==
83	716.06	1995162.01	140005.51	HEADER	363	710.16	1994646.14	139899.72	ELEC
84	716.78	1995174.32	140026.75	HEADER	364	710.48	1994627.13	139898.20	ELEC
85	718.14	1995187.16	140048.17	HEADER	365	710.49	1994613.94	139897.40	ELEC
86	718.70	1995192.44	140057.16	HEADER	366	711.05	1994589.67	139895.70	ELEC
87	719.42	1995197.73	140068.01	HEADER	367	711.31	1994573.94	139894.17	ELEC
88	721.00	1995211.86	140094.97	HEADER	368	712.04	1994547.71	139893.26	ELEC
89	721.78	1995222.70	140117.86	HEADER	369	712.27	1994536.32	139893.56	ELEC
90	722.60	1995237.17	140149.85	HEADER	370	712.66	1994512.13	139893.89	ELEC
91	723.84	1995250.68	140190.72	HEADER	371	712.63	1994493.60	139895.27	ELEC
92	724.40	1995255.32	140208.24	HEADER	372	713.77	1994476.62	139897.78	ELEC
93	724.47	1995257.37	140216.18	HEADER	373	714.43	1994461.36	139899.71	ELEC
94	725.73	1995261.62	140249.84	HEADER	374	714.55	1994448.71	139900.14	ELEC
95	727.00	1995265.48	140291.64	HEADER	375	713.80	1994483.52	139897.65	FM
96 97	727.90 728.82	1995264.07	140325.81	HEADER	376	714.73	1994456.75	139901.01	FM FM
	728.82	1995260.13	140372.97	HEADER HEADER	377 378	715.09 715.08	1994438.99	139902.39	FM FM
98 99	730.15	1995251.06	140416.49	HEADER	378	715.08	1994438.05	139902.75	ELEC
00	730.62	1995245.74	140428.30	HEADER	380	714.77	1994439.63	139901.02	ELEC
00	732.23	1995236.76	140442.00	HEADER HEADER	380	714.68	1994436.81	139901.57	ELEC
02	732.23	1995224.03	140454.42	HEADER	382	714.74	1994436.51	139903.92	ELEC
03	733.74	1995211.66	140462.59	HEADER	383	715.07	1994437.36	139937.16	ELEC
04	733.88	1995176.76	140479.39	HEADER	384	715.22	1994439.80	139959.08	ELEC
05	734.24	1995162.36	140486.75	HEADER	385	714.98	1994439.73	139975.86	ELEC
06	734.65	1995133.14	140499.65	HEADER	386	715.27	1994437.92	139910.57	FM
07	735.17	1995106.19	140510.79	HEADER	387	715.38	1994437.94	139936.94	FM
08	735.72	1995083.75	140519.31	HEADER	388	715.35	1994440.78	139961.32	FM
09	736.03	1995070.53	140525.07	HEADER	389	715.08	1994440.10	139998.21	FM
10	736.13	1995055.35	140530.27	HEADER	390	716.94	1994437.91	140075.44	FM
11	736.91	1995033.68	140540.41	HEADER	391	717.93	1994438.46	140106.54	FM
12	738.33	1995004.00	140552.95	HEADER	392	715.15	1994439.27	140011.28	FM
13	737.42	1994988.10	140559.25	HEADER	393	715.23	1994438.65	140028.72	FM
14	738.03	1994960.84	140571.13	HEADER	394	715.59	1994438.84	140047.14	FM
15	738.39	1994940.09	140580.20	HEADER	395	715.02	1994438.42	140013.77	ELEC
16	738.84	1994926.40	140586.07	HEADER	396	715.29	1994437.52	140039.66	ELEC
17	739.16	1994919.66	140589.05	HEADER	397	715.42	1994437.46	140047.15	ELEC
18	739.50	1994913.60	140592.06	HEADER	398	715.60	1994437.35	140060.67	ELEC
19	718.56	1995192.56	140057.04	LATERAL	399	716.36	1994437.69	140074.98	ELEC
20	724.70	1995207.98	140049.25	LATERAL	400	715.62	1994438.32	140055.32	FM
21	732.37	1995229.72	140038.63	LATERAL	401	716.44	1994438.13	140074.93	FM
22	724.16	1995254.91	140208.66	LATERAL	402	717.54	1994438.51	140107.53	FM
23	726.94	1995263.32	140206.56	LATERAL	403	717.16	1994439.43	140125,25	FM
24	731.83	1995281.08	140203.43	LATERAL	404	717.59	1994437.19	140138.04	FM
25	735.77	1995298.62	140201.59	LATERAL	405	718.01	1994432.09	140148.88	FM
26	739.43	1995317.42	140200.53	LATERAL	406	717.37	1994439.19	140120.50	ELEC
27	741.47	1995308.86	140359.68	SS	407	717.24	1994440.00	140129.68	ELEC
28	727.02	1995263.41	140207.60	LATERAL	408	717.36	1994439.47	140143.86	ELEC
29	728.36	1995270.02	140230.47	LATERAL	409	717.74	1994438.36	140151.68	ELEC
30	731.38	1995283.49	140273.05	LATERAL	410	718.11	1994428.14	140158.53	FM
31	735.50	1995297.07	140314.58	LATERAL	411	740.29	1994498.47	142092.40	FM
32	739.08	1995306.59	140342.98	LATERAL	412	740.43	1994505.64	142097.78	6" FLANGE
33	740.99	1995311.17	140358.81	LATERAL	413	740.19	1994503.70	142093.14	6" FLANGE
34	732.94	1995212.12	140463.23	LATERAL	414	739.89	1994509.08	142091.48	6" FLANGE
35	738.12	1995220.39	140473.81	LATERAL	415	740.23	1994510.39	142096.42	VAC
36	742.72	1995227.58	140486.70	LATERAL	416	742.38	1994523.14	142102.84	VAC
37	754.54	1995238.43	140520.01	LATERAL	417	747.99	1994547.43	142112.60	VAC
38	758.70	1995235.79	140537.60	LATERAL	418	752.24	1994566.70	142114.80	VAC
39	766.91	1995224.42	140570.34	LATERAL	419	757.55	1994588.31	142110.65	VAC
40	768.81	1995220.00	140597.16	LATERAL	420	761.17	1994604.81	142105.33	VAC
41	770.69	1995218.69	140598.07	LATERAL	421	739.86	1994497.99	142093.91	FM
42	711.12	1995004.76	139903.90	LATERAL	422	744.28	1994501.25	142093.00	FM
43	710.87	1994993.09 1994728.47	139903.32	LATERAL LATERAL	423	741.53	1994503.59	142092.97	FM
44 45	714.16		139900.93		424	741.29	1994502.85	142092.36	FM
	713.40	1994770.87 1994504.36	139899.93	LATERAL	425	740.42	1994511.99	142087.14	FM
46 47	716.67	1994504.36	139893.71	HEADER	426	739.73	1994509.86	142091.12	FM
47	712.93	1995191.43	139960.87	HEADER	427	739.81	1994509.42	142091.33	FM
48 49	711.80	1995160.28	139959.24	HEADER	428	779.81	1994642.17	141282.11	VAC
50	712.03	1995156.51	139956.57	HEADER	429	784.64	1994660.85	141278.70	VAC
51	733.93	1995177.28	140041.27	VAC	430	791.07	1994686.20	141273.52	VAC
52	741.84	1995230.27	140203.63	VAC	431	794.20	1994710.51	141265.52	VAC
	, +1.0+				432	771.99	1994614.78	141285.02	VAC
-	743 45			VAr:					\/AC
53 54	743.45 734.42	1995309.27 1994837.47	140360.99	VAC	433	765.44 760.59	1994584.35 1994566.22	141287.57	VAC

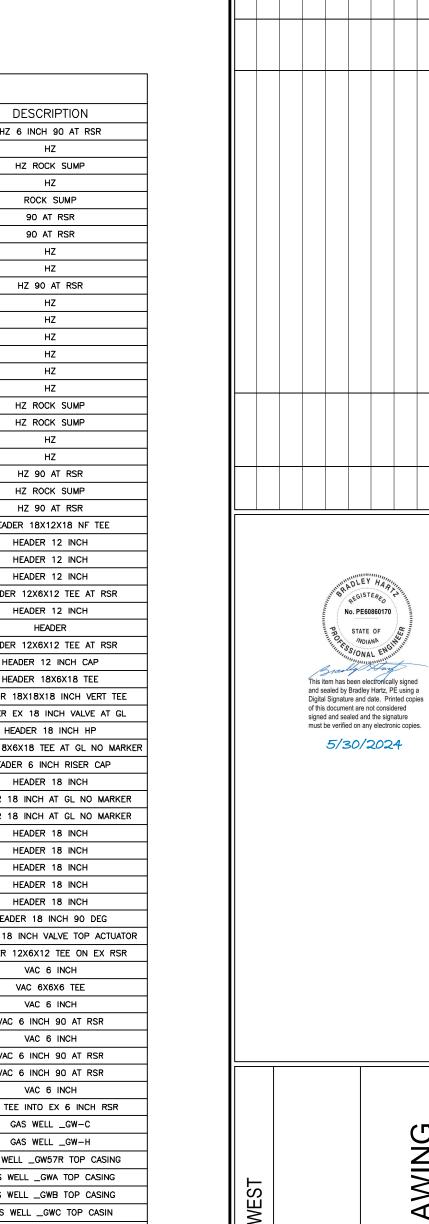
		Ρ(JINI IA	BLE
POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
435	756.77	1994547.46	141293.32	VAC
436	716.83	1994754.23	139895.31	FM
437	765.97	1995042.63	140706.88	VAC
438	765.91	1995043.19	140708.95	VAC
439	765.49	1995014.70	140721.45	VAC
440	764.97	1994977.47	140740.14	VAC
441	763.94	1994945.18	140754.95	VAC
442	762.64	1994911.73	140769.94	VAC
443	762.12	1994873.82	140788.09	VAC
444	760.91	1994850.90	140794.63	VAC
445	761.75	1994848.98	140798.32	VAC
446	759.90	1994829.17	140798.25	VAC
447	759.54	1994813.28	140799.45	VAC
448	759.20	1994788.96	140798.56	VAC
449	758.73	1994762.54	140798.90	VAC
			140802.94	VAC
450	758.66 757.92	1994734.09	140805.65	
451		1994653.97	140809.86	VAC
452	757.37			VAC
453	756.26	1994615.14	140817.20	VAC
454	728.91	1994637.85	140590.93	VAC
455	730.00	1994636.61	140590.90	VAC
456	729.96	1994636.67	140590.46	VAC
457	730.00	1994636.55	140592.94	VAC
458	730.40	1994636.66	140608.52	VAC
459	730.72	1994637.49	140623.51	VAC
460	731.35	1994637.58	140636.89	VAC
461	731.42	1994636.03	140640.45	VAC
462	731.47	1994632.44	140642.88	VAC
463	731.83	1994623.41	140643.48	VAC
464	732.08	1994604.17	140637.21	VAC
465	732.86	1994585.48	140630.80	VAC
466	733.07	1994565.76	140619.76	VAC
467	733.26	1994551.58	140611.83	VAC
468	733.45	1994542.35	140609.85	VAC
469	733.76	1994534.77	140610.97	VAC
470	734.43	1994528.23	140614.85	VAC
471	735.34	1994521.34	140624.23	VAC
472	735.75	1994517.59	140640.34	VAC
473	736.56	1994514.04	140664.41	VAC
474	737.88	1994511.45	140683.93	VAC
475	740.51	1994922.31	140586.08	VAC
476	736.17	1994894.34	140579.54	VAC
477	734.13	1994872.98	140573.90	VAC
478	733.36	1994839.57	140561.27	VAC
479	733.30	1994838.71	140560.68	VAC
480	733.97	1994851.81	140567.91	VAC
481	725.58	1995256.85	140219.23	VAC
482	721.21	1995241.42	140235.20	VAC
483	718.71	1995228.33	140250.16	VAC
484	715.58	1995207.59	140270.42	VAC
485	712.69	1995200.83	140276.53	VAC
486	711.86	1995199.58	140277.72	VAC
487	711.85	1995198.71	140278.39	VAC
488	712.52	1995195.85		
			140278.83	VAC
489	713.15	1995201.92	140278.83	VAC VAC
490				VAC
	713.15	1995201.92	140276.04	VAC VAC
490	713.15 713.35	1995201.92 1994076.51	140276.04 142264.40	VAC VAC HEADER _12 90 UP
490 491	713.15 713.35 700.16	1995201.92 1994076.51 1994067.92	140276.04 142264.40 142323.44	VAC VAC HEADER _12 90 UP HEADER _18 PIPE
490 491 500	713.15 713.35 700.16 739.16	1995201.92 1994076.51 1994067.92 1994919.66	140276.04 142264.40 142323.44 140589.05	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR
490 491 500 501	713.15 713.35 700.16 739.16 739.50	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60	140276.04 142264.40 142323.44 140589.05 140592.06	VAC VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP
490 491 500 501 502	713.15 713.35 700.16 739.16 739.50 751.08	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR
490 491 500 501 502 503	713.15 713.35 700.16 739.16 739.50 751.08 747.96	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504	713.15 713.35 700.16 739.16 739.50 751.08 747.96	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96	VAC VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF
490 491 500 501 502 503 504 505	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140265.39	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140265.39 140185.19 140090.36	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH PERF W/ROCK SUMP
490 491 500 501 502 503 504 505 506 507	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995295.97	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140265.39 140185.19 140090.36 140135.73	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH 90 AT RSR
490 491 500 501 502 503 504 505 506 507 508 509	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995278.85	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140265.39 140185.19 140090.36 140135.73 140205.84	VAC VAC HEADER _12
490 491 500 501 502 503 504 505 506 507 508 509	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995295.97 1995278.85	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140090.36 140135.73 140205.84 140265.79	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995295.97 1995278.85 1995267.07	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140265.39 140135.73 140205.84 140265.79 140369.61	VAC VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 750.49 750.21 747.61 749.05 753.00	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995278.85 1995267.07 1995249.36 1995249.36	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140090.36 140135.73 140205.84 140265.79 140369.61 140431.74	VAC VAC HEADER _ 12 90 UP HEADER _ 18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995295.97 1995278.85 1995267.07 1995242.54 1995230.87	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140185.19 140090.36 140135.73 140205.84 140265.79 140369.61 140431.74 140528.66	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 750.49 750.21 747.61 749.05 753.00	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995278.85 1995267.07 1995249.36 1995249.36	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140090.36 140135.73 140205.84 140265.79 140369.61 140431.74	VAC VAC HEADER _ 12 90 UP HEADER _ 18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995295.97 1995278.85 1995267.07 1995242.54 1995230.87	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140185.19 140090.36 140135.73 140205.84 140265.79 140369.61 140431.74 140528.66	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29	1995201.92 1994076.51 1994076.51 1994067.92 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995295.97 1995278.85 1995278.85 1995249.36 1995242.54 1995230.87	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140190.36 140135.73 140265.79 140265.79 140369.61 140431.74 140528.66 140559.97	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29 748.10	1995201.92 1994076.51 1994076.51 1994067.92 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995295.97 1995278.85 1995278.85 1995249.36 1995249.36 1995249.36	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 1401265.39 140135.73 140205.84 140265.79 140369.61 140431.74 140528.66 140569.97 140502.32	VAC VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29 748.10 750.24	1995201.92 1994076.51 1994067.92 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995087.01 1995278.85 1995267.07 1995249.36 1995242.54 1995230.87 1994923.99 1994925.80	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140185.19 140090.36 140135.73 140205.84 140265.79 140369.61 140431.74 140528.66 14059.97 140502.32	VAC VAC HEADER _ 12 90 UP HEADER _ 18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29 748.10 750.24 744.14	1995201.92 1994076.51 1994076.51 1994919.66 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 199527.01 1995278.85 1995278.85 1995249.36 1995242.54 1995230.87 1994923.99 1994925.80 1994927.71	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140135.73 140135.73 140265.79 140265.79 140369.61 140431.74 140528.66 140528.66 140502.32 140452.36 140381.05	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH PERF
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29 748.10 750.24 744.14 743.76	1995201.92 1994076.51 1994076.51 1994067.92 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995279.71 1995278.85 1995278.85 1995249.36 1995249.36 1995249.36 1995249.36 1995240.87 1994923.99 1994925.80 1994927.71	140276.04 142264.40 142323.44 140589.05 140592.06 140516.26 140424.17 140332.96 140135.73 140135.73 140265.39 140135.73 140265.79 140369.61 140431.74 140528.66 140569.97 140502.32 140452.36 140381.05 140324.89	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ
490 491 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519	713.15 713.35 700.16 739.16 739.50 751.08 747.96 746.71 747.31 743.94 745.41 750.49 750.21 747.61 749.05 753.00 755.44 749.29 748.10 750.24 744.14 743.76 741.27	1995201.92 1994076.51 1994076.51 1994067.92 1994913.60 1995081.31 1995080.25 1995082.71 1995080.98 1995079.56 1995279.7 1995278.85 1995267.07 1995249.36 1995249.36 1995249.36 1995249.36 1995249.36 1995249.36 1994923.99 1994923.99 1994923.99	140276.04 142264.40 142323.44 140589.05 140592.06 140424.17 140332.96 140185.19 140090.36 140135.73 140265.39 140265.79 140369.61 140431.74 140528.66 14059.97 140502.32 140452.36 140324.89 140229.06	VAC VAC HEADER _12 90 UP HEADER _18 PIPE HEADER 12X12X12 TEE AT 12 INCH RSR HEADER 12 INCH END CAP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ 6 INCH 90 AT RSR HZ 6 INCH PERF HZ 6 INCH PERF W/ROCK SUMP HZ HZ HZ

POINT TABLE

	POINT	ELEVATION	NORTHING	EASTING	DESCRIPTION
	523	746.09	1994675.66	140689.07	HZ 6 INCH 90 AT RSR
	524	747.44	1994758.02	140692.59	HZ
	525	746.57	1994812.89	140668.64	HZ ROCK SUMP
		748.56	1994879.68		
	526			140650.91	HZ
	527	750.42	1995006.46	140595.44	ROCK SUMP
	528	750.66	1994923.70	140590.79	90 AT RSR
ヿ	529	750.10	1994926.66	140577.33	90 AT RSR
	530	748.98	1994951.76	140598.67	HZ
	531	752.24	1995100.88	140565.91	HZ
			1995228.77	140532.44	
	532	758.46	**********		HZ 90 AT RSR
	533	747.31	1995169.05	140301.35	HZ
	534	747.71	1995268.07	140266.26	HZ
	535	751.10	1995302.46	140238.65	HZ
	536	751.57	1995374.10	140191.87	HZ
	537	745.60	1995159.55	140174.92	HZ
		-			
	538	744.39	1995079.17	140180.86	HZ
	539	742.88	1995019.81	140189.15	HZ ROCK SUMP
	540	742.20	1994935.87	140202.98	HZ ROCK SUMP
	541	742.03	1994935.05	140198.48	HZ
	542	742.20	1994876.32	140200.24	HZ
	543	744.36	1994739.36	140445.20	HZ 90 AT RSR
	544	737.54	1994615.14	140448.95	HZ ROCK SUMP
	545	737.26	1994533.26	140445.30	HZ 90 AT RSR
	546	725.33	1994471.54	140582.28	HEADER 18X12X18 NF TEE
	547	731.52	1994512.94	140583.28	HEADER 12 INCH
	548	739.23	1994547.97	140616.08	HEADER 12 INCH
	549	744.18	1994610.48	140665.42	HEADER 12 INCH
	550	745.91	1994676.23	140686.54	HEADER 12X6X12 TEE AT RSR
]	551	746.67	1994738.07	140671.71	HEADER 12 INCH
	552	747.26	1994818.59	140634.57	HEADER
	553	751.71	1994927.40	140585.22	HEADER 12X6X12 TEE AT RSR
	554	751.87	1994932.64	140582.86	HEADER 12 INCH CAP
	-	-			
	555	723.53	1994437.81	140445.04	HEADER 18X6X18 TEE
	556	723.72	1994437.75	140443.08	HEADER 18X18X18 INCH VERT TEE
	557	734.83	1994470.57	140906.88	HEADER EX 18 INCH VALVE AT GL
	558	734.46	1994479.32	140848.40	HEADER 18 INCH HP
	559	735.56	1994479.37	140811.48	HEADER 18X6X18 TEE AT GL NO MARKER
	560	746.46	1994547.92		HEADER 6 INCH RISER CAP
				140817.01	
	561	729.57	1994474.47	140740.50	HEADER 18 INCH
	562	730.50	1994474.52	140665.63	HEADER 18 INCH AT GL NO MARKER
	563	723.18	1994431.98	140381.36	HEADER 18 INCH AT GL NO MARKER
	564	719.90	1994429.24	140302.47	HEADER 18 INCH
	565	719.26	1994429.29	140220.68	HEADER 18 INCH
		-			
	566	718.38	1994419.28	140143.10	HEADER 18 INCH
	567	717.36	1994422.39	140063.53	HEADER 18 INCH
	568	716.31	1994426.89	139983.66	HEADER 18 INCH
	569	713.54	1994430.23	139888.96	HEADER 18 INCH 90 DEG
	570	719.69	1994495.74	139888.51	HEADER 18 INCH VALVE TOP ACTUATOR
	571	712.84	1994999.20	139902.78	HEADER 12X6X12 TEE ON EX RSR
	572	713.30	1995002.67	139913.18	VAC 6 INCH
	573	718.18	1995028.00	139966.36	VAC 6X6X6 TEE
	574	727.33	1994977.13	140000.69	VAC 6 INCH
	575	742.62	1994933.76	140070.08	VAC 6 INCH 90 AT RSR
	576	732.91	1995063.80	140028.44	VAC 6 INCH
	577	745.84	1995084.03	140089.83	VAC 6 INCH 90 AT RSR
	578	749.33	1995298.66	140132.46	VAC 6 INCH 90 AT RSR
	579	739.58	1995259.78	140081.91	VAC 6 INCH
H RSR	580	733.65	1995228.54	140039.30	VAC TEE INTO EX 6 INCH RSR
	1005	745.10	1994529.83	140060.86	GAS WELL _GW-C
	1010	760.96	1995380.49	140360.98	GAS WELL _GW-H
	1018	750.53	1994646.80	140585.56	GAS WELL _GW57R TOP CASING
IP	1019	750.26	1994586.12	140436.20	GAS WELL _GWA TOP CASING
	1020	749.74	1994541.08	140255.30	GAS WELL _GWB TOP CASING
	1021	749.45	1994529.06	140060.28	GAS WELL _GWC TOP CASIN
					GAS WELL _GWD TOP CAING
1P	1022	750.20	944/1144		SO TILLE TOTO TOT CALING
IP	1022	750.20	1994731.49	140071.46	OAC WELL OWE TOO STOWN
1P	1022 1023	750.47	1994/31.49	140071.46	GAS WELL _GWE TOP CASING
IP					GAS WELL _GWE TOP CASING GAS WELL _GWF TOP CASING
IP	1023	750.47	1994954.03	140084.45	
	1023 1024 1026	750.47 754.04 765.67	1994954.03 1995138.20 1995380.48	140084.45 140103.83 140360.51	GAS WELL _GWF TOP CASING GAS WELL _GWH TOP CASING
IP	1023 1024 1026 1027	750.47 754.04 765.67 767.77	1994954.03 1995138.20 1995380.48 1995335.36	140084.45 140103.83 140360.51 140489.00	GAS WELL _GWF TOP CASING GAS WELL _GWH TOP CASING GAS WELL _GWI TOP CASING
	1023 1024 1026	750.47 754.04 765.67	1994954.03 1995138.20 1995380.48	140084.45 140103.83 140360.51	GAS WELL _GWF TOP CASING GAS WELL _GWH TOP CASING GAS WELL _GWI TOP CASING GAS WELL _GWJ TOP CASING
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