Jon Niermann, *Chairman*
Emily Lindley, *Commissioner*
Bobby Janecka, *Commissioner*
Toby Baker, *Executive Director*

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

January 30, 2020

Ms. Beth Guide
Via Email

Re: Investigation Request at:
Approximately 500 yards southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.: 1604733
Incident No.: 323524

Dear Ms. Guide:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office has completed a final investigation in response to your concern regarding issues with Best Management Practices (BMPs) at a construction site. Enclosed is a copy of the investigation report.

For more information about our complaint process, you may access the publication GI-278: Do You Want to Make an Environmental Complaint? Do You Have Information or Evidence? on our website at www.tceq.texas.gov.

We appreciate your concern in bringing this matter to our attention. If we can be of further assistance, please feel free to contact Ms. Nicole Morris in the Houston Region Office at (713) 767-3716.

Sincerely,

Kimberly Rhodes
Team Leader
Water Quality
Houston Region Office

KR/NM/tj

Attachments: Investigation Report

Texas Commission on Environmental Quality
Investigation Report

The TCEQ is committed to accessibility. If you need assistance in accessing this document, please contact oce@tceq.texas.gov

Customer: Figure Four Partners, Ltd.
Customer Number: CN603783838

Regulated Entity Name: WOODRIDGE VILLAGE
Regulated Entity Number: RN110463163

Investigation # 1604733

Investigator: NICOLE MORRIS

Conducted: 10/25/2019 -- 10/25/2019

Program(s): STORMWATER

Investigation Type: Compliance Investigation

Additional ID(s): TXR15387Q

Address: ,
, ,

Incident Numbers
323524

Site Classification CONSTRUCTION GENERAL PERMIT FOR STORMWATER

SIC Code: 6552
NAIC Code: 237210

Location: APPROX. 500 YARDS SOUTHEAST OF THE INTERSECTION OF FORD RD. & WEBB ST.

Local Unit: REGION 12 - HOUSTON
Activity Type(s): SWCMPL - SW Complaint

Principal(s):

Role	Name
RESPONDENT	FIGURE FOUR PARTNERS LTD

Contact(s):

Role	Title	Name	Phone	
NOV CONTACT		MR TAYLOR GUNN	Phone	(713) 948-7783
NOV CONTACT	SENIOR INSPECTION AUDITOR	MS MICHELLE RUCKSTUHL	Fax Phone	(281) 587-5999 (281) 587-5950
NOE CONTACT	SENIOR INSPECTION AUDITOR	MS MICHELLE RUCKSTUHL	Fax Phone	(281) 587-5999 (281) 587-5950
REGULATED ENTITY CONTACT	SENIOR INSPECTION AUDITOR	MS MICHELLE RUCKSTUHL	Phone Fax	(281) 587-5950 (281) 587-5999
REGULATED ENTITY MAIL CONTACT	CEO	MS KATHY BRITTON	Work	Redacted

Other Staff Member(s):

Role	Name
QA Reviewer	JACK COLEMAN
Supervisor	KIMBERLY RHODES

Associated Check List

Checklist Name	Unit Name
WQ COMPLAINT INVESTIGATION	#1
WATER EQUIPMENT	Equipment

Investigation Comments:

INTRODUCTION:

On October 23, 2019, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received a complaint (Incident No. 323524) alleging issues with Best Management Practices (BMPs) and flooding at a construction site. The alleged complaint was against Woodridge Village located approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365.

On October 25, 2019, Ms. Nicole Morris, Environmental Investigator with the Texas Commission on Environmental Quality (TCEQ) Houston Region Office, conducted a stormwater complaint investigation at Woodridge Village ("Woodridge") located approximately 500 yards southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365, to determine compliance with applicable stormwater regulations. This investigation was conducted as a result of a complaint; therefore, no notice of the investigation was given.

A copy of a TCEQ Exit Interview Form was received by Mr. Taylor Gunn, Professional Engineer with Perry Homes (Customer Number (CN) 603310517), operator/developer at the site, and Ms. Michelle Ruckstuhl, Senior Inspection Auditor with Storm Water Solutions (CN602574642) working on behalf of Figure Four Partners LTD (CN603783838) via email on November 1, 2019 (Attachment 1: Exit interview sent November 1, 2019). Based on the findings of this investigation, a Notice of Violation letter was issued to facilitate compliance.

GENERAL FACILITY AND PROCESS INFORMATION:

This site is located just north of the dividing line between Harris and Montgomery County and approximately two miles east of the Eastex Freeway near Porter (Montgomery County), Texas 77339 (Attachment 2: Overview map). Coverage for this operator is under Construction General Permit (CGP) No. TXR15387Q began on July 26, 2018 (Attachment 3: Permit information). Per the Notice of Intent provided by Figure Four Partners LTD, Figure Four Partners LTD disturbs 260 acres. The Woodridge construction site is considered a large common plan of development.

Stormwater from the site flows to Taylor Gully, thence to the confluence of White Oak Creek, Segment 1010B; Caney Creek, Segment 1010; and Lake Houston, Segment 1002.

BACKGROUND:

A TCEQ Consolidated Compliance and Enforcement Data System (CCEDS) search and database review was conducted pursuant to this investigation. There are several other operators at the site: D & J Construction Inc. (Customer Number (CN) 603783226), Rebel Contractors Inc. (CN600576276), Texasite LLC (CN605429869), and Double Oak Construction Inc. (CN600555734). Several other investigations at this site were conducted concurrent to the current investigation. D & J Construction Inc. was investigated under CCEDS investigation number 1604741. Rebel Contractors Inc. was investigated under CCEDS investigation number 1604738. Double Oak Construction Inc. was investigated under CCEDS investigation number 1604735.

One previous investigation of Figure Four Partners LTD at Woodridge has been conducted by the TCEQ prior to the date of this investigation. Investigation number 1571093 was conducted from June 17 to June 18, 2019. One violation was cited and referred to the Enforcement Division of the TCEQ (Enforcement Case No. 58369): failure to implement and maintain effective Best Management Practices (BMPs).

ON-SITE INVESTIGATION:

On October 25, 2019, Environmental Investigator Ms. Nicole Morris conducted a site investigation. The entrance, outfalls, and several ditches on site were observed as well as Taylor Gully and the Elm Grove subdivision area

(Attachment 2: Overview map).

The investigator traveled to the Woodridge site. On site the investigator observed that the front of the facility had a stabilized rock entrance, a posted large construction site notice for Figure Four Partners LTD (CN603783838), and a posted Notice of Intent for D & J Construction (CN603783226) (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 1-3). Silt fence was noted around the perimeter of the disturbed area observed by the investigator (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 4).

At the southeast corner of the site a double-barrel concrete box culvert was observed (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 5). The silt fence continued over the top of the culvert while light-brown colored water with high turbidity discharged from the site through the culvert into Taylor Gully (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 5). A rock check dam was observed on the upstream side of the double-barrel concrete box culvert (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 5). The rock check dam appeared to be fully intact. Additionally, silt fence was observed installed in the channel on the downstream side of the double-barrel concrete box culvert (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 5). However, the two pollution prevention measures did not appear to be effecting any color change in the discharge and light-brown water continued to discharge through the double-barrel concrete box culvert despite the rock check dam and subsequent silt fence. The culvert was confirmed to be one of two facility outfalls as noted on the Stormwater Pollution Prevention Plan for Figure Four Partners LTD (CN603783838) (Attachment 5: Figure Four Partners LTD Stormwater Pollution Prevention Plan map).

During the investigation conducted from June 17 to June 18, 2019 (CCEDS Investigation No. 1579655) it was noted that an additional rock check dam existed upstream of one of the flows (Attachment 6: June 17 to June 18, 2019 map of flow; Rock Check Dam). During the latest, October 25, 2019, investigation that rock check dam was not observed (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 6). Flow appeared to continue unimpeded towards the south. The water from this channel discharges into Taylor Gully from a pipe located downstream of the double-barrel concrete box culvert (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 7 and Attachment 7: October 25, 2019 map of flow; Flow Path 2 & Flow Path 3 and Attachment 6: June 17 to June 18, 2019 map of flow; Path of Water 1).

On October 25, 2019 it was observed that there was significant erosion (~200 square feet) between the disturbed area and the channel upstream of the previously present rock check dam (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 8 and Attachment 7: October 25, 2019 map of flow; Flow Path 3).

The investigator also observed the northern portion of the construction site (Attachment 2: Overview map). A drainage channel that is connected to Taylor Gully at its southern end contains water which flows around and through the northern portion of the construction site (Attachment 7: October 25, 2019 map of flow). At the southeast corner of this portion of the site water from the site flowed into the drainage channel (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 9-10 and Attachment 7: October 25, 2019 map of flow; Flow Path 2). Overtopped silt fence was observed in this area (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 9-10). Further upstream, to the northwest, another discharge was observed from the site which entered the drainage channel. In this area, the discharge passed first through an intact rock check dam (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 11 and Attachment 7: October 25, 2019 map of flow; Flow Path 1 and Active Rock Check Dam). However, this pollution prevention measure did not appear sufficient to prevent sediment-laden discharge and light-brown water from entering into the drainage channel (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 11). In contrast, the color of the unimpacted stormwater was observed where a large stormwater drainage pipe discharged into the drainage channel (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 12-13 and Attachment 7: October 25, 2019 map of flow; Stormwater Drainage Pipe).

The investigator then observed the Elm Grove Subdivision area for downstream impacts. Downstream of the Woodridge site, at Taylor Gully, in the Elm Grove Subdivision area, unimpacted stormwater was observed discharging from the Elm Grove subdivision into Taylor Gully. The discharged stormwater had a medium brown color with moderate turbidity, whereas the water in Taylor Gully was the same color as the discharge from the Woodridge site: light-brown colored water with high turbidity (Attachment 4: Photographic evidence taken October 25, 2019; Photograph 14). Further downstream, at the farthest observable point of Taylor Gully before Taylor Gully reaches the confluence with White Oak Creek, Segment 1010B, the water in Taylor Gully was light-brown colored with high turbidity (Attachment 4: Photographic evidence taken October 25, 2019;

Photograph 15).

Sample Results

During the course of the investigation samples were taken for Total Suspended Solids and Total Dissolved Solids at five locations in the area (Attachment 8: Samples taken October 25, 2019 and sample map). Sample 1 (W012323-02) was taken at a point in a ditch adjacent to Taylor Gully. Sample 2 (W012323-01) was taken at the point where the double-barrel concrete box culvert discharges to Taylor Gully. Sample 3 (W012323-03) was taken downstream in Taylor Gully. Sample 4 (W012323-04) was taken at a point upstream of the Woodridge outfalls. Sample 5 (W012323-05) was taken after the confluence of flows from the double-barrel concrete box culvert and the flow from upstream (including flow from the northern drainage channel). See attachments for Total Suspended Solids (TSS) and Total Dissolved Solids (TDS) values (Attachment 8: Samples taken October 25, 2019 and sample map). TSS and TDS values were higher downstream than upstream or in the adjacent ditch, indicating that the downstream portion had been impacted by TSS and TDS.

The approximate distance of the observed color change in Taylor Gully from medium brown color with moderate turbidity to light-brown colored water with high turbidity was approximately 2.5 miles (4.05 kilometers), as measured from the Woodridge outfall to the furthest observable point before Taylor Gully discharges into White Oak Creek. This is further discussed in the Summary of Investigations findings section of this report.

ADDITIONAL INFORMATION:

During the investigation the facility-submitted Notice of Intent was also reviewed for accuracy, and the SWP3 was reviewed.

CONCLUSION:

As a result of this investigation the complaint was partially confirmed. One alleged violation is continuing for failure to implement and maintain effective Best Management Practices (BMPs) to prevent the discharge of sediment-laden water which could contribute to pollution in waters of the state of Texas.

SUMMARY OF INVESTIGATION FINDINGS:

OUTSTANDING ALLEGED VIOLATION(S)

Track Number: 726658 **Compliance Due Date: To Be Determined**

Violation Start Date: Unknown

30 TAC Chapter 281.25(a)(4)
30 TAC Chapter 305.125(1)

PERMIT TXR15387Q, Permit Provisions III.G.1 and III.G.4

Alleged Violation:

Investigation: 1571093 Comment Date: 08/29/2019

Failed to implement and maintain effective Best Management Practices (BMPs). Specifically, color change caused by sediment-laden discharge from the Woodridge construction site was confirmed to have affected approximately 2.5 miles (4.05 kilometers) of Taylor Gully.

Appropriate controls must be used to minimize the offsite transport of suspended sediments and other pollutants if it is necessary to pump or channel standing water from the site. Discharge of the pollutant: i.e. sediment laden stormwater, must be minimized.

Investigation: 1604733 Comment Date: 12/12/2019

This alleged violation was formally sent to the Enforcement Division of the TCEQ during investigation number

1571093 and was continuing based on investigation number 1604733 (this investigation).

Recommended Corrective Action: The facility is required to install sediment controls on all areas under their operational control at Woodridge. There must be adequate structural controls to minimize sediment discharges from the site.

Signed _____ **Date** 01/29/2020

Environmental Investigator

Signed _____ **Date** 1/29/20

Supervisor

Attachments: (in order of final report submittal)

____Enforcement Action Request (EAR)

____Letter to Facility (specify type) : _____

Investigation Report

____Sample Analysis Results

____Manifests

____Notice of Registration

____Maps, Plans, Sketches

____Photographs

____Correspondence from the facility

__X__Other (specify) :

See List of Attachments

List of Attached files
Attachments.pdf

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Conducted on October 25, 2019

LIST OF ATTACHMENTS

ATTACHMENT 1 Exit interview sent November 1, 2019

ATTACHMENT 2 Overview map

ATTACHMENT 3 Permit information

ATTACHMENT 4 Photographic evidence taken October 25, 2019

ATTACHMENT 5 Figure Four Partners LTD Stormwater Pollution Prevention Plan map

ATTACHMENT 6 June 17 to June 18, 2019 map of flow

ATTACHMENT 7 October 25, 2019 map of flow

ATTACHMENT 8 Samples taken October 25, 2019 and sample map

Attachment 1

Nicole Morris

From: Nicole Morris
Sent: Friday, November 1, 2019 2:36 PM
To: [redacted]
Cc: Michelle Ruckstuhl
Subject: Exit Interview
Attachments: Exit Interview Form.pdf; TCEQ Has Inspected Your Business RG-344.pdf

Mr. Taylor Gunn,
The following are being provided as attachments to this e-mail:

- TCEQ Exit Interview Form: Potential Violations and/or Records Request
- The TCEQ Has Inspected Your Business – Publication

The Exit Interview Form: Potential Violations and/ or Records Request, is provided as an attachment to this email to ensure that the issues are communicated regarding the compliance evaluation investigation conducted on October 25, 2019 at the Woodridge Village construction site with the Stormwater Permit number of TXR15387Q. Please note that the facility is still under investigation and changes can still be made. If there are questions about the information contained in the form, contact me as soon as possible.

Please reply to this email, to indicate your receipt.

Please note your enforcement coordinator should be your first point of contact; however, If you have any comments, concerns, or questions, please feel free to contact me at Nicole.Morris@tceq.texas.gov or by phone at 713-767-3716 and I can either answer your comments, concerns, or questions or direct you to someone who may be able to help you further.

Respectfully Sent,

Nicole Morris
Pretreatment Coordinator
Region 12 • Water Section (Wastewater)
5425 Polk Ave • Suite H • Houston TX 77023
Phone: **713-767-3716** • Fax: **713-767-3691**

TCEQ EXIT INTERVIEW FORM: Potential Violations and/or Records Request

Regulated Entity/Site Name	Woodridge Village				**TCEQ Add. ID No. RN No (optional)**	RN110463163	
Investigation Type	Cmpl	**Contact Made In-House (Y/N)**	N	**Purpose of Investigation**	Compliance		
Regulated Entity Contact	Taylor Gunn, P.E.			**Telephone No.**		**Date Contacted**	6/18/2019 & 10/25/2019
	Signatory Authority			**FAX #/Email address**		**FAX/Email date**	7/18/2019 & 11/1/2019

NOTICE: The information provided in this form is intended to provide clarity to issues that have arisen during the investigation process between the TCEQ and the regulated entity named above and *does not represent final TCEQ findings related to violations*. Any potential or alleged violations discovered after the date on this form will be communicated to the regulated entity representative prior to the issuance of a notice of violation or enforcement. Conclusions drawn from this investigation, including additional violations or potential violations discovered (if any) during the course of this investigation, will be documented in a final investigation report.

Issue		**For Records Request, identify the necessary records, the company contact and date due to the agency. For Alleged and Potential Violation issues, include the rule in question with the clearly described potential problem. Other type of issues: fully describe.**	
No.	**Type[1]**	**Rule Citation (if known)**	**Description of Issue**
1	AV (6/18/2019) PV (10/25/2019)	281.25(a)(4) Permit Provisions III.G.1 and III.G.4	Failed to implement and maintain effective Best Management Practices (BMPs)

Note 1: Issue Type Can Be One or More of: AV (Alleged Violation), PV (Potential Violation), O (Other), or RR (Records Request)

Did the TCEQ document the regulated entity named above operating without proper authorization?	☐ **Yes**	Ξ **No**
Did the investigator advise the regulated entity representative that continued operation is not authorized?	☐ **Yes**	Ξ **No**

Document Acknowledgment. Signature on this document establishes only that the regulated entity (RE) representative received a copy of this document and associated continuation pages on the date noted. If contact was made by telephone, the document will be sent via FAX or Email to RE; therefore, the RE signature is not required.

Nicole Morris	11/1/2019		
Investigator Name (Signed &Printed)	**Date**	**Regulated Entity Representative Name (Signed & Printed)**	**Date**

If you have questions about any information on this form, please contact your local TCEQ Regional Office.
Individuals are entitled to request and review their personal information that the agency gathers on its forms. They may also have any errors in their information corrected. To review such information, call 512/239-3282.

White Copy: Regulated Entity Representative **Yellow Copy: TCEQ**
TCEQ 20085 (4/08)

(Note: use additional pages as necessary) **Page _____ of _____**

Attachment 2

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Overview Map

Attachment 3

Water Quality General Permits and Registration Search

Summary of Authorization TXR15387Q

Permit/Registration Number: TXR15387Q
Authorization Status: ACTIVE
Date Coverage Began: 07/26/2018
Date Coverage Ended:
Replaced Permit Number:

Authorization Details

Site Name on Permit/Registration: WOODRIDGE VILLAGE
Authorization Type: CONSTRUCTION
Primary SIC Code: 6552
Area Disturbed (In Acres) : 260
Common Plan Of Development : Y
Estimated Project End Date : 03/05/2023
Estimated Project Start Date : 07/31/2018
Impaired Water Body : WHITE OAK CREEK
MS4 Operator : MONTGOMERY COUNTY
Receiving Water Body : WHITE OAK CREEK
Segment Number : 1010

Permittee or Registrant Information

Operator: CN603783838 - Figure Four Partners, Ltd.
Address: 900 GULF FWY HOUSTON TX 77017
Annual Fee Billing Address: NOT FOUND OR NOT APPLICABLE

Permitted Site Information

RN: RN110463163
RE Name: WOODRIDGE VILLAGE
Site Location: APPROX. 500 YARDS SOUTHEAST OF THE INTERSECTION OF FORD RD. & WEBB ST. PORTER 77365
County: MONTGOMERY
TCEQ Region: REGION 12 - HOUSTON
Latitude: 30.091144
Longitude: -95.20695

Regulated Entity Site Information

RE Name: WOODRIDGE VILLAGE
Site Location: APPROX. 500 YARDS SOUTHEAST OF THE INTERSECTION OF FORD RD. & WEBB ST. PORTER 77365
County: MONTGOMERY
TCEQ Region: REGION 12 - HOUSTON
Latitude: 30.091144
Longitude: -95.20695

Application History for this Authorization

Application Type	Status	Received Date	Final Action Date
NOTICE OF INTENT	APPROVED	07/26/2018	07/26/2018

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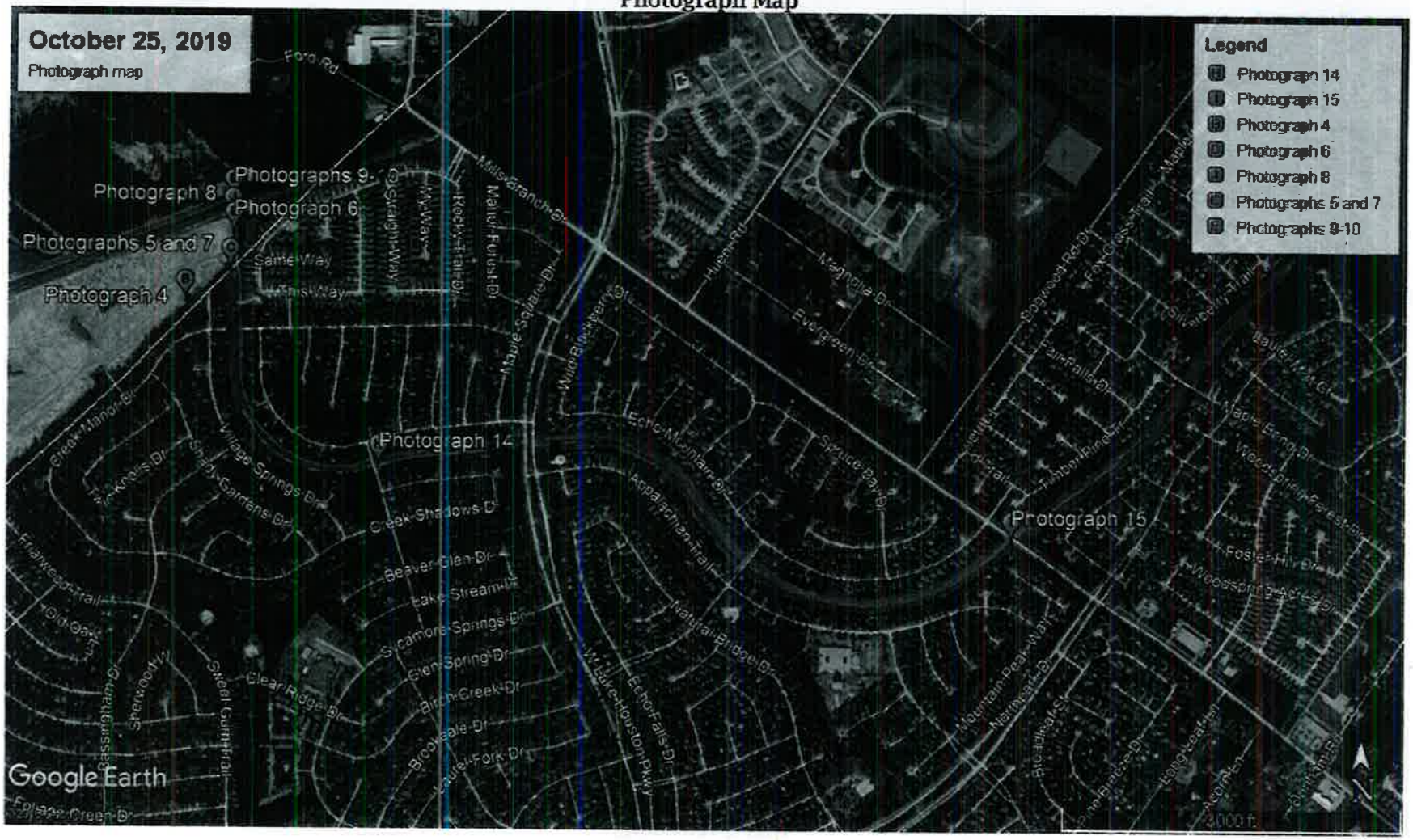
Attachment 4

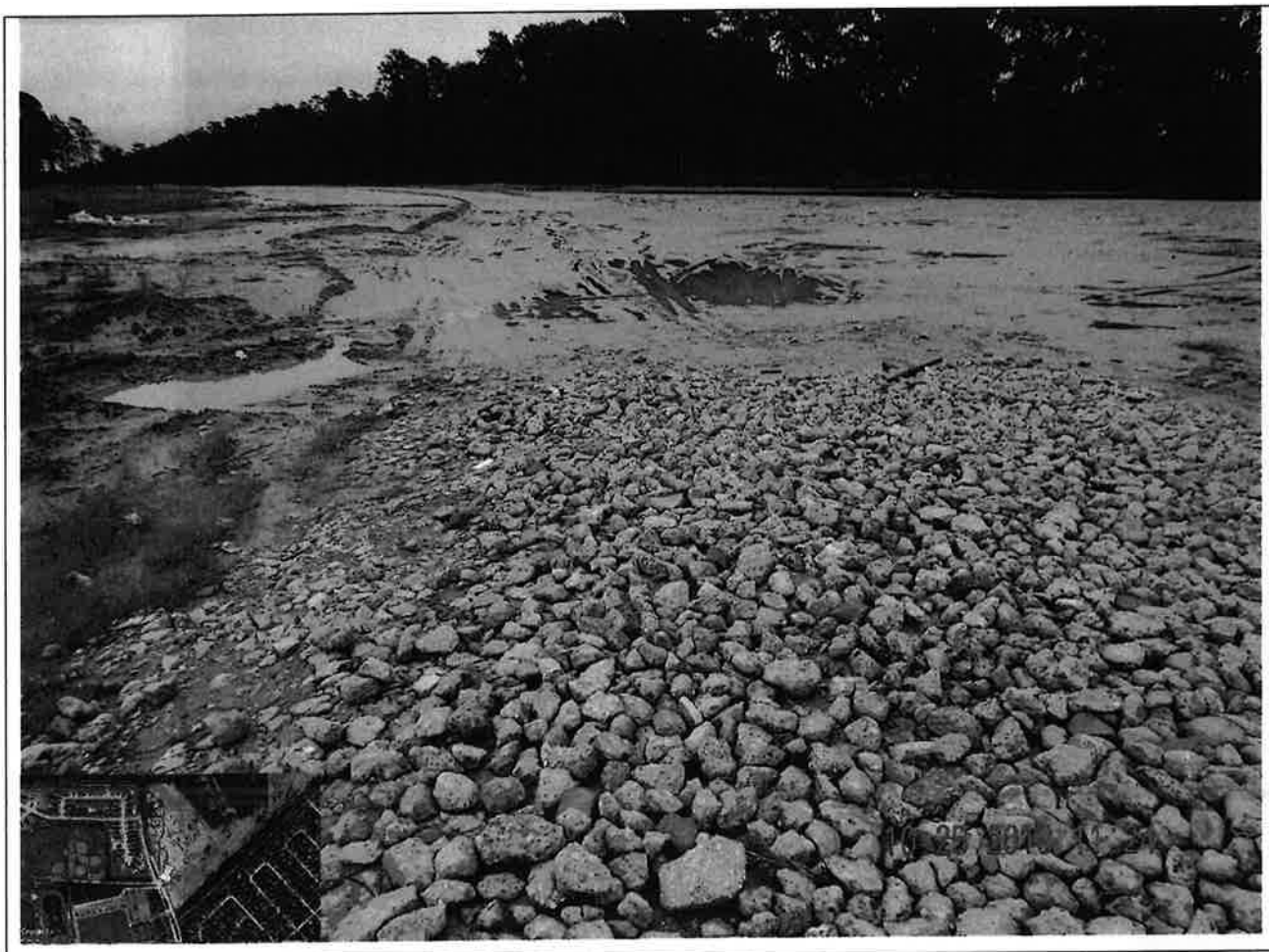
Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Photograph Map

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Photograph Map



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY
WATER QUALITY REPORT

Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

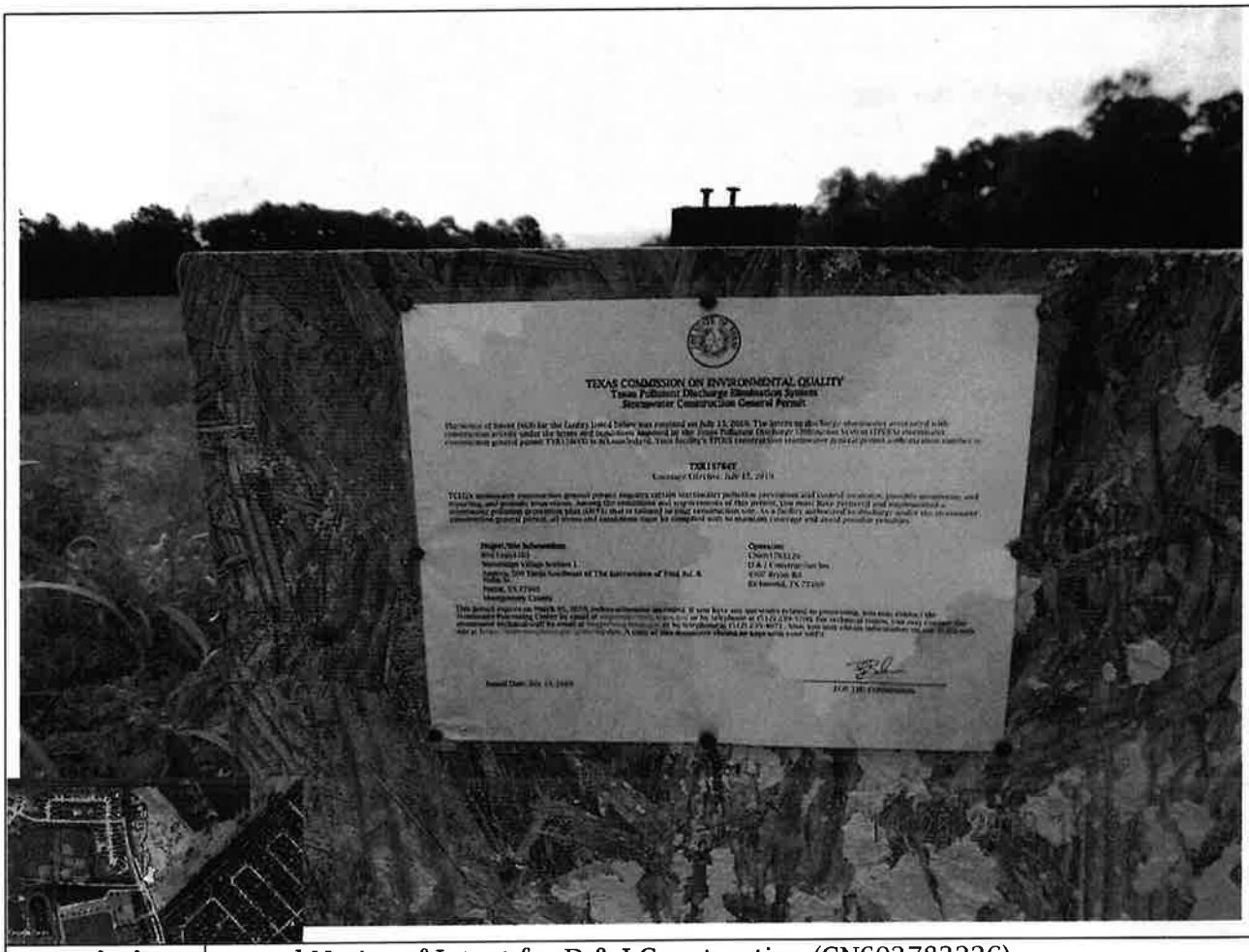


Description:	Stabilized construction entrance.	1

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

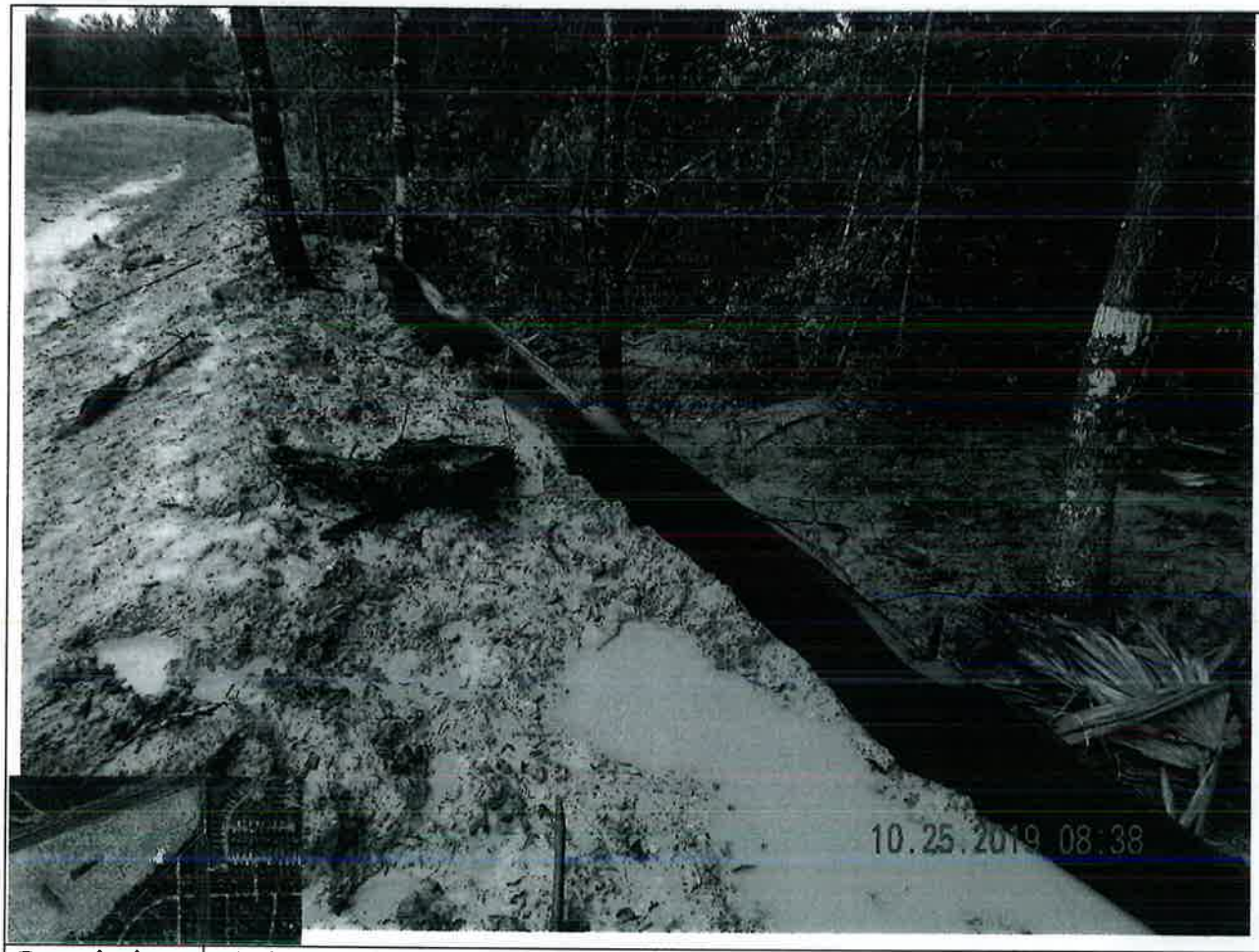
Description:	Posted site notice for Figure Four Partners LTD (CN603783838).	2

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



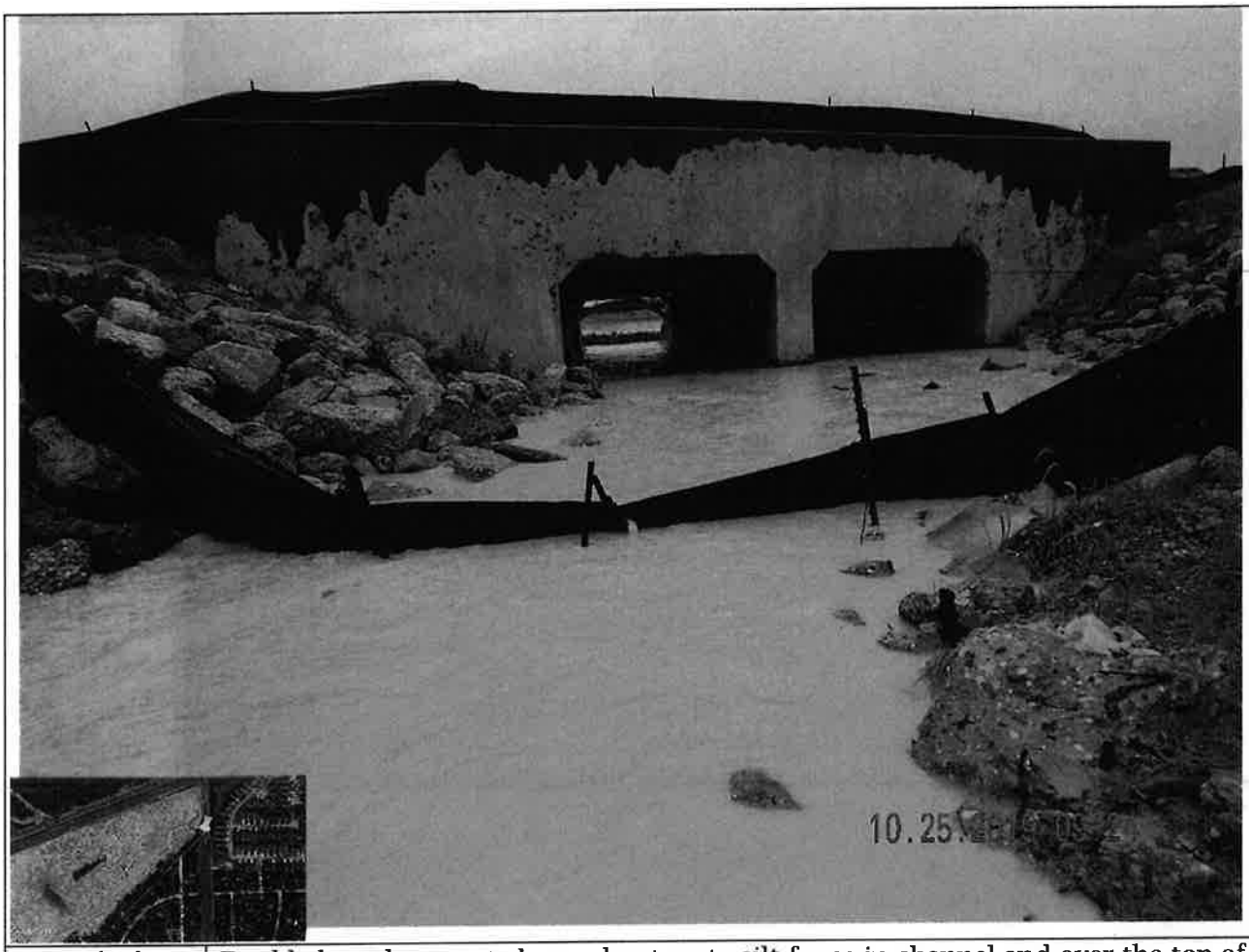
Description:	Posted Notice of Intent for D & J Construction (CN603783226).	3

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



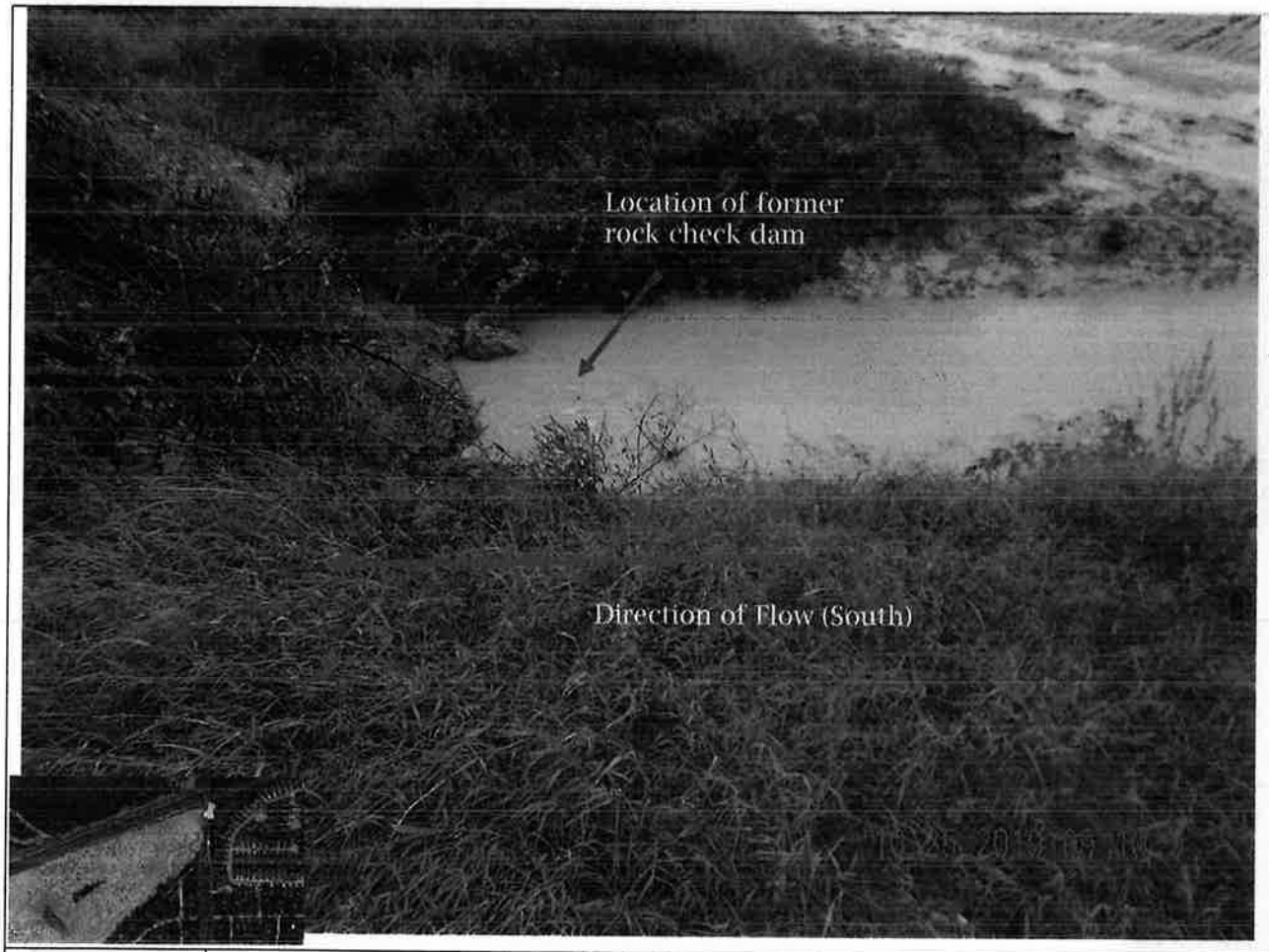
Description:	Silt fence observed.	4

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



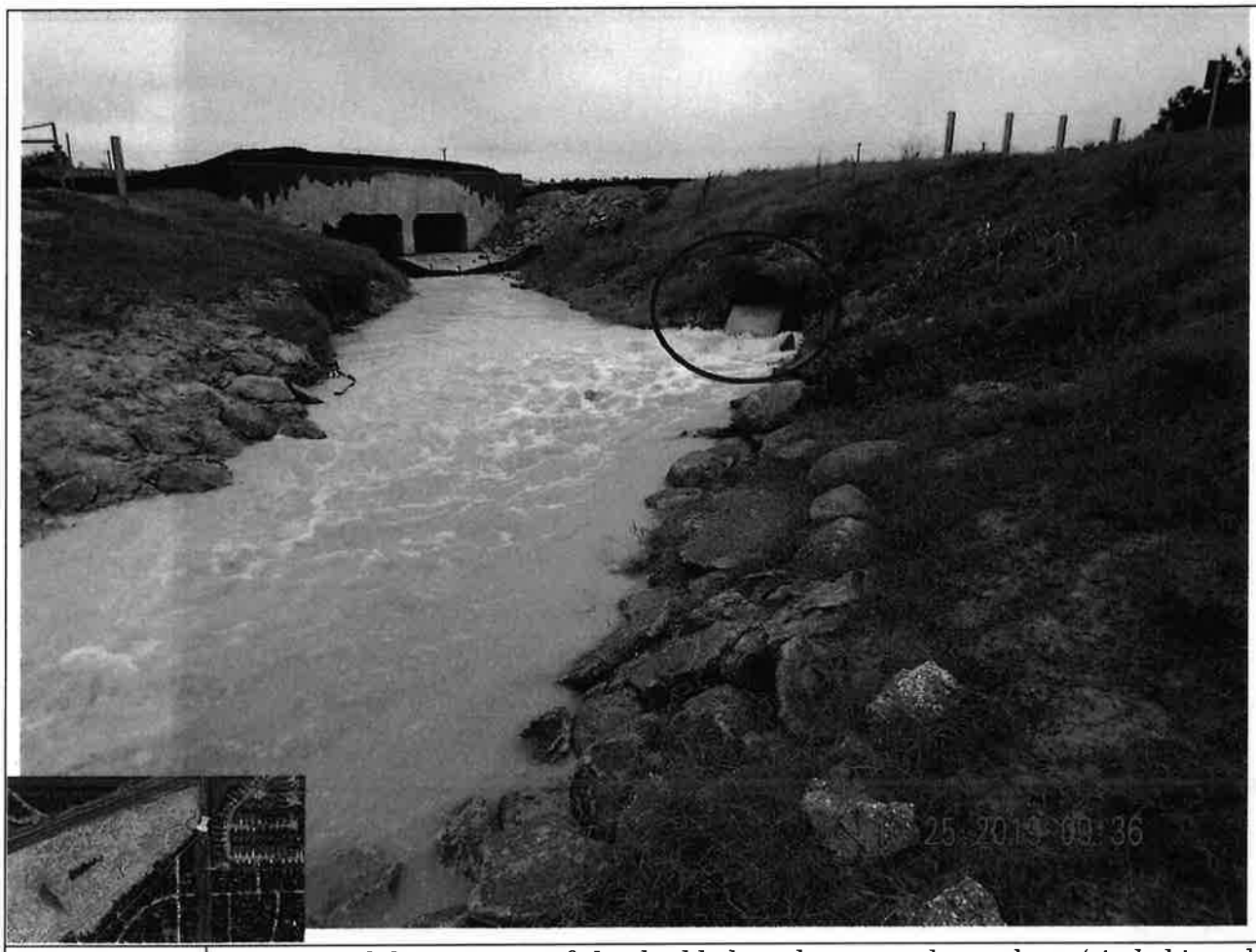
Description:	Double-barrel concrete box culvert, note silt fence in channel and over the top of the culvert, and rock check dam on upstream side of culvert (circled in red, photograph taken facing upstream).	5

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



Description:	Previous location of a rock check dam.	6

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

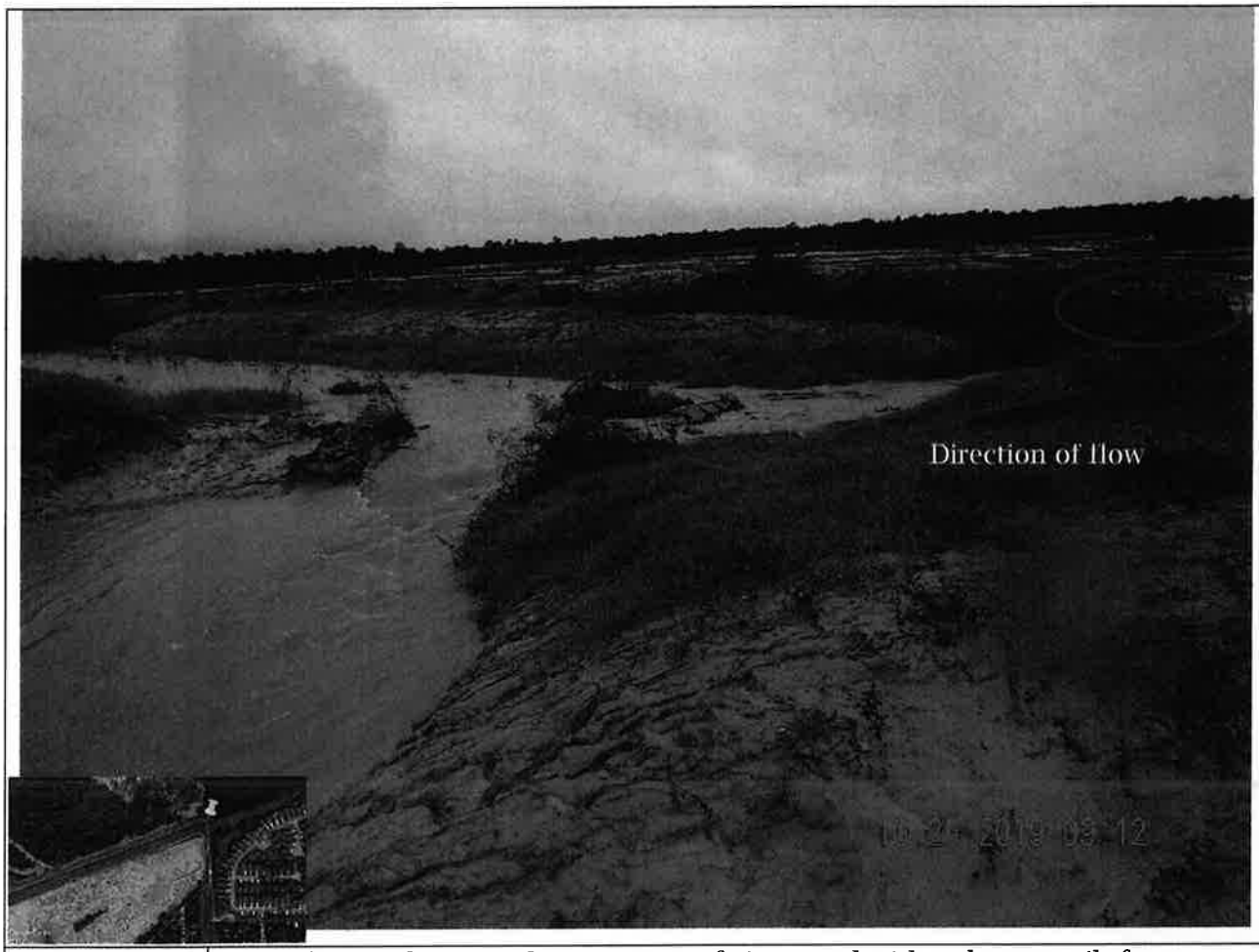


Description:	Pipe located downstream of the double-barrel concrete box culvert (circled in red).	7

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

Description:	Erosion noted between disturbed area and the channel, located upstream of Photograph 6.	8

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



Description:	Flow of water from northern portion of site noted with red arrow, silt fence circled in red.	9

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

Description:	Flow of water from northern portion of site, close-up of silt fence (circled in red).	10

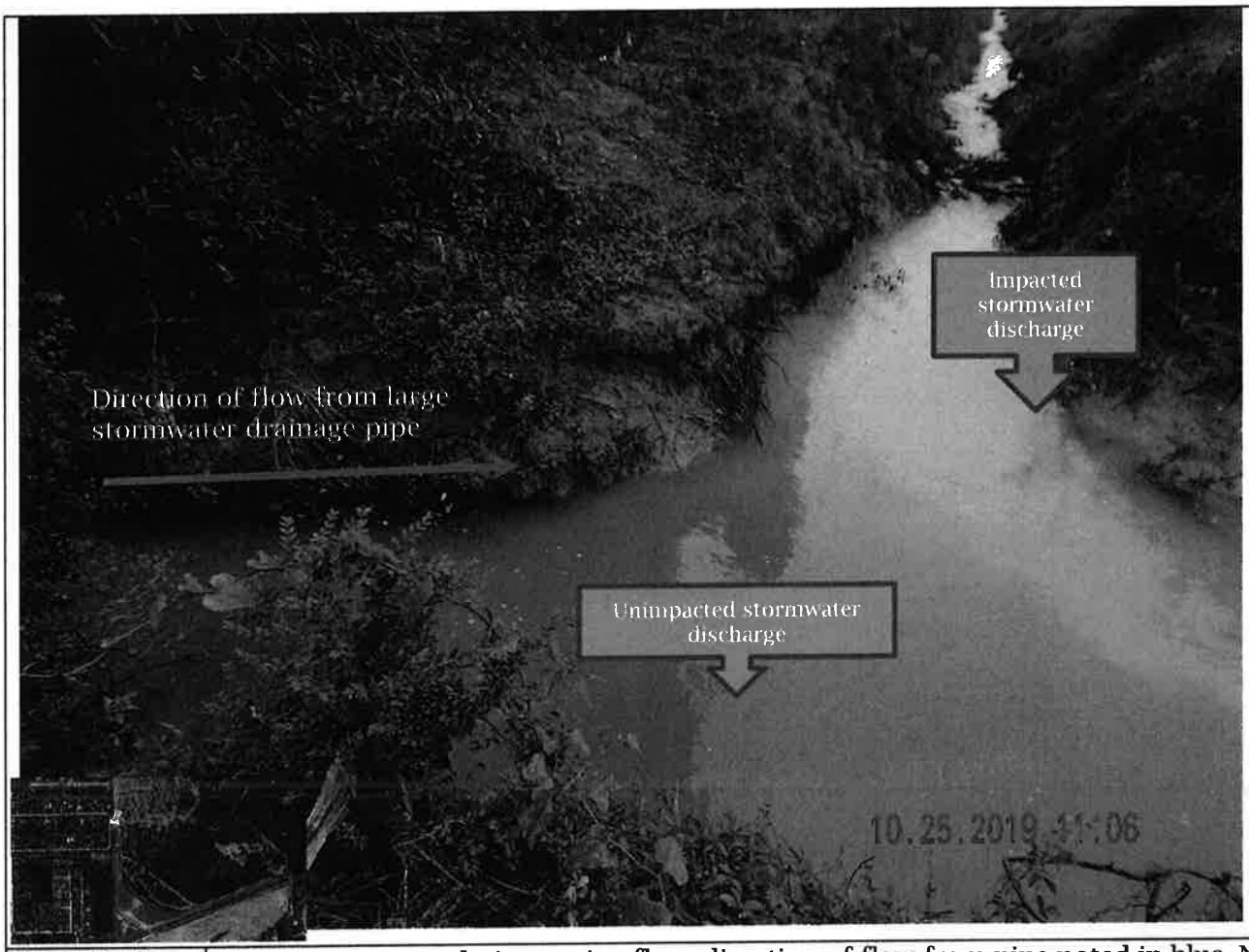
TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

Description:	Flow of water from northern portion of site, northwest discharge; rock check dam circled in red.	11

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

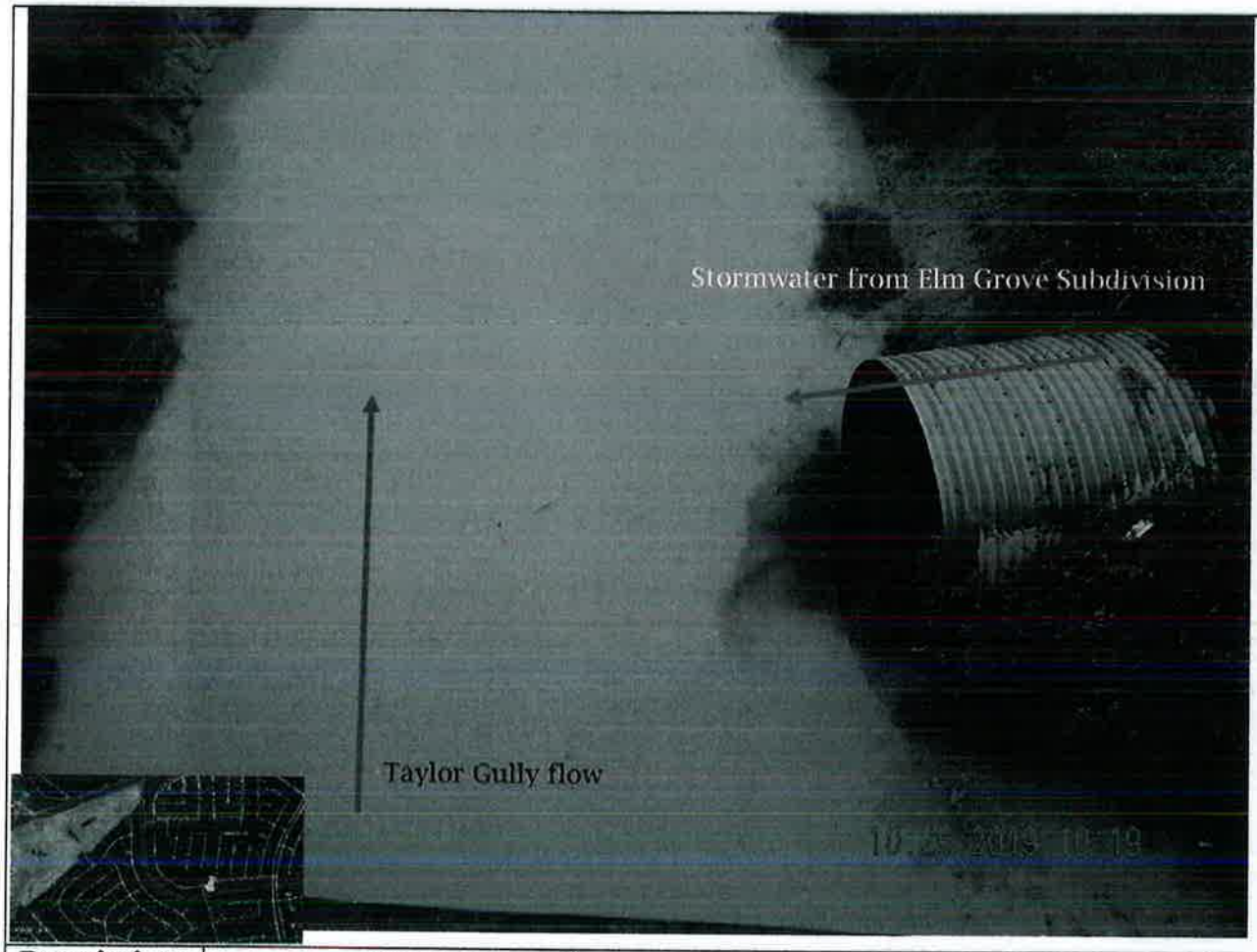
Description:	Large stormwater drainage pipe, direction of flow from pipe noted in blue. Note water color from pipe.	12

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		



Description:	Large stormwater drainage pipe flow, direction of flow from pipe noted in blue. Note water color from pipe.	13

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

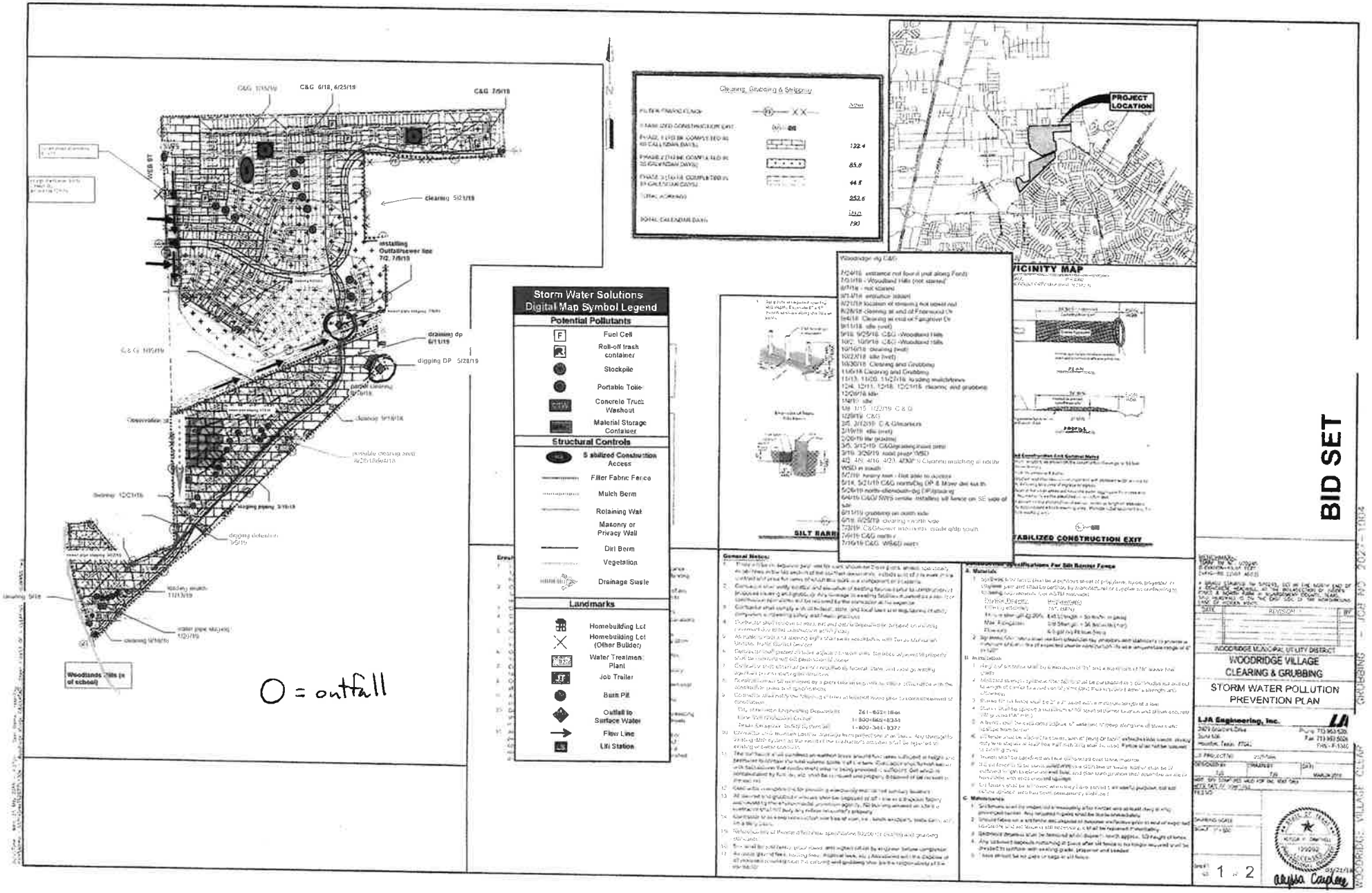


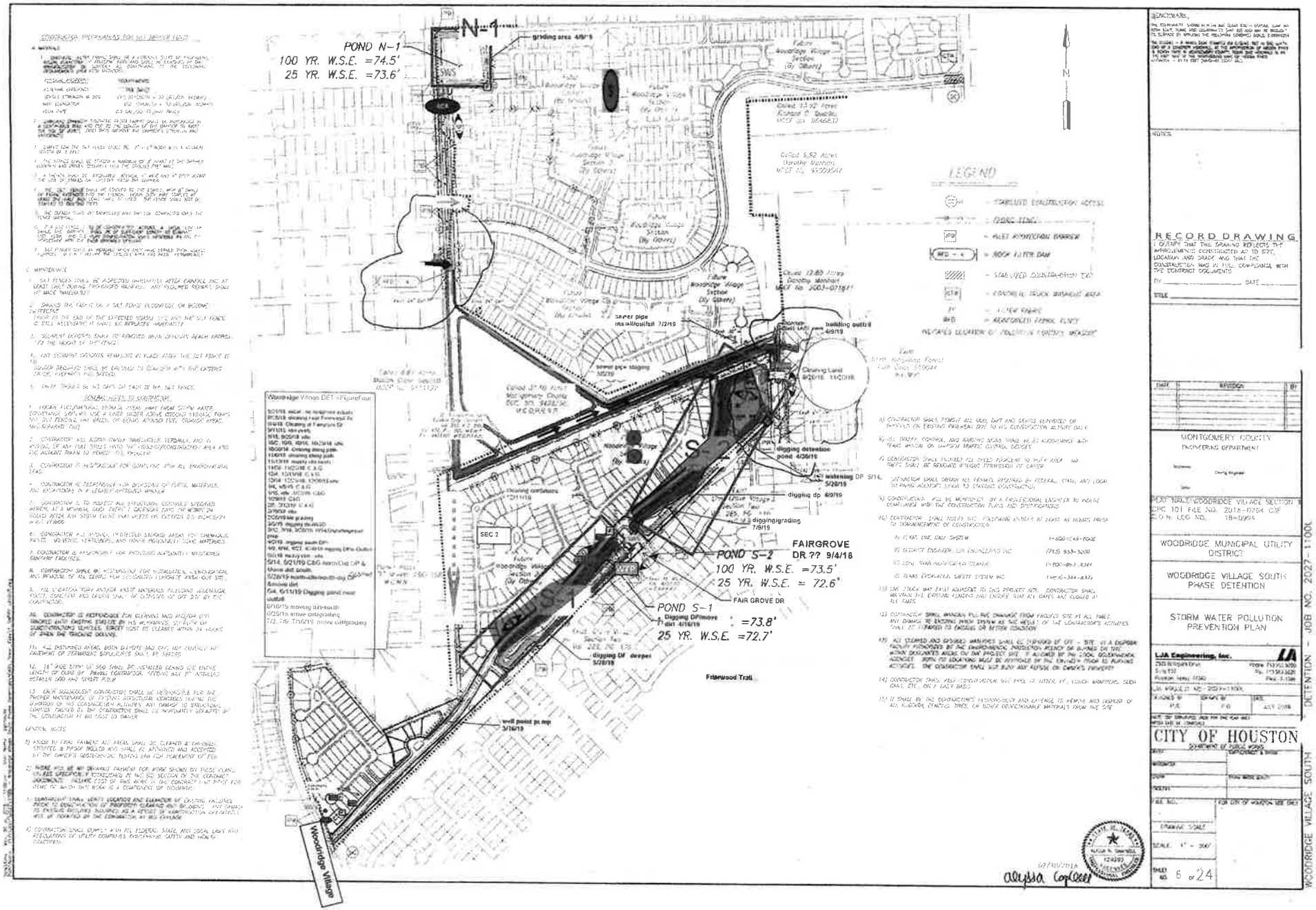
Description:	Stormwater discharge pipe from subdivision, discharges into Taylor Gully. Note color difference between Taylor Gully and stormwater discharge from pipe.	14

TEXAS COMMISSION ON ENVIRONMENTAL QUALITY WATER QUALITY REPORT			
Facility Permit/ID No.	TXR15387Q	**Facility/System Name:**	Woodridge Village
Date Photographed	10/25/2019	**Taken by Investigator:**	Nicole Morris
Regulated Entity No.:	RN110463163	**Address:**	Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
Investigation No.:	1604733		

Description:	Downstream at Taylor Gully.	15

Attachment 5


C&G 6/18, 6/25/19
C&G 7/5/19
clearing 5/21/19
installing Outfall/sewer line 7/2, 7/8/19
draining dp 6/11/19
digging DP 5/28/19
digging detention 7/5/19
Woodlands Hills (x of school)
O = outfall
Clearing, Grubbing & Stripping
PROJECT LOCATION
VICINITY MAP
Storm Water Solutions
Digital Map Symbol Legend
Potential Pollutants
Fuel Cell
Roll-off trash container
Stockpile
Portable Toilet
Concrete Truck Washout
Material Storage Container
Structural Controls
Stabilized Construction Access
Filter Fabric Fence
Mulch Berm
Retaining Wall
Masonry or Privacy Wall
Dirt Berm
Vegetation
Drainage Swale
Landmarks
Homebuilding Lot
Homebuilding Lot (Other Builder)
Water Treatment Plant
Job Trailer
Burn Pit
Outfall to Surface Water
Flow Line
Lift Station
SILT FARR
STABILIZED CONSTRUCTION EXIT
BID SET
WOODRIDGE MUNICIPAL UTILITY DISTRICT
WOODRIDGE VILLAGE
CLEARING & GRUBBING
STORM WATER POLLUTION PREVENTION PLAN
LJA Engineering, Inc.
1 of 2



CONSTRUCTION SPECIFICATIONS FOR SILT BARRIER FENCE

A. MATERIALS

1. SYNTHETIC FILTER FABRIC SHALL BE A WOVEN CLOTH OF POLYPROPYLENE, POLYESTER, POLYETHYLENE, NYLON, OR POLYVINYLIDENE CHLORIDE, CONFORMING TO THE FOLLOWING REQUIREMENTS WITH PROPERTIES:

PROPERTY	REQUIREMENT
FILTERING EFFICIENCY	75% MIN.
TENSILE STRENGTH @ 20% MAX. ELONGATION	270 LB/LINEAR IN. MIN. IF < 50 LB/LINEAR IN. MIN. USE WITH WIRE BACKING
FLOW RATE	0.3 GAL/SQ. FT./MIN. MAX.

2. SUPPORT POSTS SHALL BE STEEL WITH A MINIMUM WEIGHT OF 1 LB/LF.

3. THE STAKES SHALL BE SPACED A MAXIMUM OF 8' APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND (4'MIN.).

4. A TRENCH SHALL BE EXCAVATED APPROX. 4" WIDE AND 4" DEEP ALONG THE LINE OF STAKES ON UPSLOPE FROM THE BARRIER.

5. THE SILT FENCE SHALL BE STAPLED TO THE STAKES, WIRE OR SIMILAR IN FLUSH ALIGNMENT WITH THE TRENCH. WOVEN CLOTH FENCE STAPLES AT SPACES NOT MORE THAN 3 FEET APART. THE FENCE SHALL NOT BE STAPLED TO EXISTING TREES.

6. THE BOTTOM EDGE OF EMBEDDED AND SHALL BE COMPACTED OVER THE FENCE MATERIAL.

7. A SILT FENCE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED. SILT SHALL BE REMOVED FROM BEHIND THE FENCE WHEN IT REACHES HALF THE HEIGHT OF THE FENCE.

8. SILT FENCE SHALL BE REMOVED WHEN DISTURBED AREA HAS BEEN PROPERLY STABILIZED. SEDIMENT DEPOSITS SHALL BE REMOVED AND PLACED WITHIN THE SILT FENCE IN SUCH A MANNER THAT THE EROSION BY WATER WILL BE PREVENTED.

B. MAINTENANCE

1. SILT FENCES SHALL BE INSPECTED IMMEDIATELY AFTER EVERY RAIN, BUT AT LEAST DAILY DURING PROLONGED RAINFALL. ANY REQUIRED REPAIRS SHALL BE MADE IMMEDIATELY.

2. REMOVE THE FENCE WHEN A SILT FENCE BECOMES OR BECOME INEFFECTIVE DUE TO THE END OF THE EXPECTED USABLE LIFE AND THE SILT FENCE IS STILL NECESSARY, IT SHALL BE REPLACED IMMEDIATELY.

3. SEDIMENT DEPOSITS SHALL BE REMOVED WHEN DEPOSIT REACH APPROX. 1/2 THE HEIGHT OF THE FENCE.

4. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE SILT FENCE IS NO LONGER REQUIRED SHALL BE GRADED TO CONFORM WITH THE EXISTING GRADE, PREPARED AND SEEDED.

5. INSPECT TREES ON THE EDGE OF EACH OF THE SILT FENCE.

GENERAL NOTES TO CONTRACTOR:

1. LOCATE FIELD/TEMPORARY STAGING AREAS, WASTE AREAS, WASH AREAS, CONCRETE WASHOUT, USE & LIMITS AND/OR STORAGE AREAS FOR ALL EQUIPMENT AND MATERIALS THAT SHALL OR MAY BE USED OR STORED IN THE CONSTRUCTION OF THIS PROJECT. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO, THE AREAS, OR AREAS, APPROVED FOR STORAGE, WASTE, STAGING, ETC. AND ANY OTHER AREAS REQUIRED FOR CONSTRUCTION. ALL AREAS SHALL BE SHOWN ON A SEPARATE PLAN.

2. CONTRACTOR SHALL ASSUME OVERALL RESPONSIBILITY FOR SAFETY, AND IS SOLELY RESPONSIBLE FOR ANY AND ALL COSTS INCURRED DUE TO VIOLATIONS/NONCOMPLIANCE OF ANY AND ALL RULES, REGULATIONS, AND LAWS PERTAINING TO SAFETY AND THE WORK PERFORMED ON THE PROJECT.

3. CONTRACTOR IS RESPONSIBLE FOR QUANTITIES AND ALL ENVIRONMENTAL ITEMS.

4. CONTRACTOR IS RESPONSIBLE FOR DISPOSING OF EXCESS MATERIALS, AND EXCAVATIONS IN A LEGALLY APPROVED MANNER.

5. CONTRACTOR IS TO PROTECT AND STRUCTURALLY SUPPORT ALL UTILITIES ENCOUNTERED WHETHER SHOWN ON THE PLANS OR NOT. ANY DAMAGE DONE TO UTILITIES DURING CONSTRUCTION SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.

6. CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

7. CONTRACTOR SHALL COORDINATE WITH OWNER'S REPRESENTATIVE FOR ACCESS TO THE SITE AND STAGING AREAS.

8. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY TOILET FACILITIES.

9. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING TEMPORARY SANITARY FACILITIES.

10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION SIGNAGE AND BARRICADES AS REQUIRED BY THE CITY OF HOUSTON.

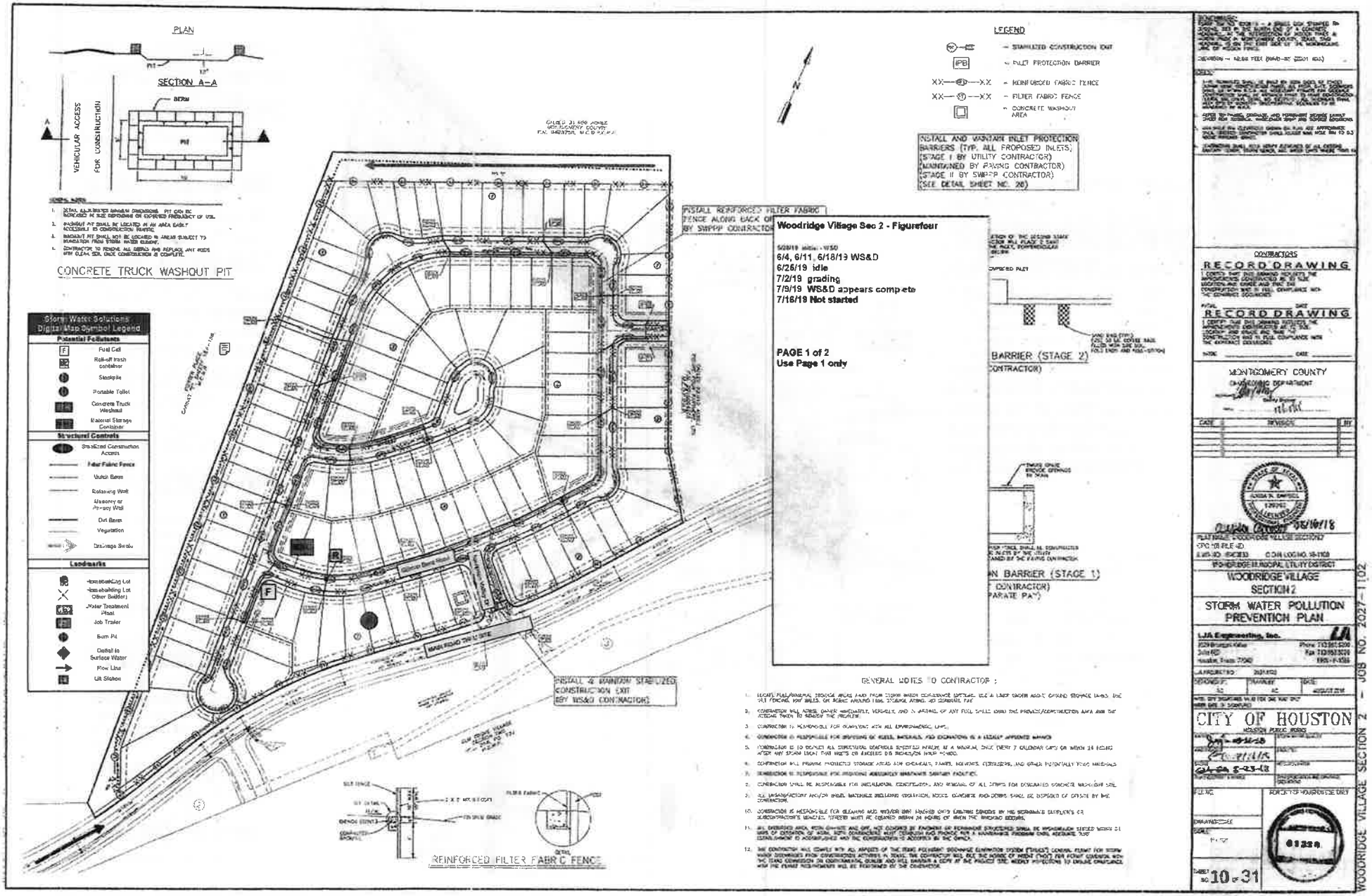
11. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION.

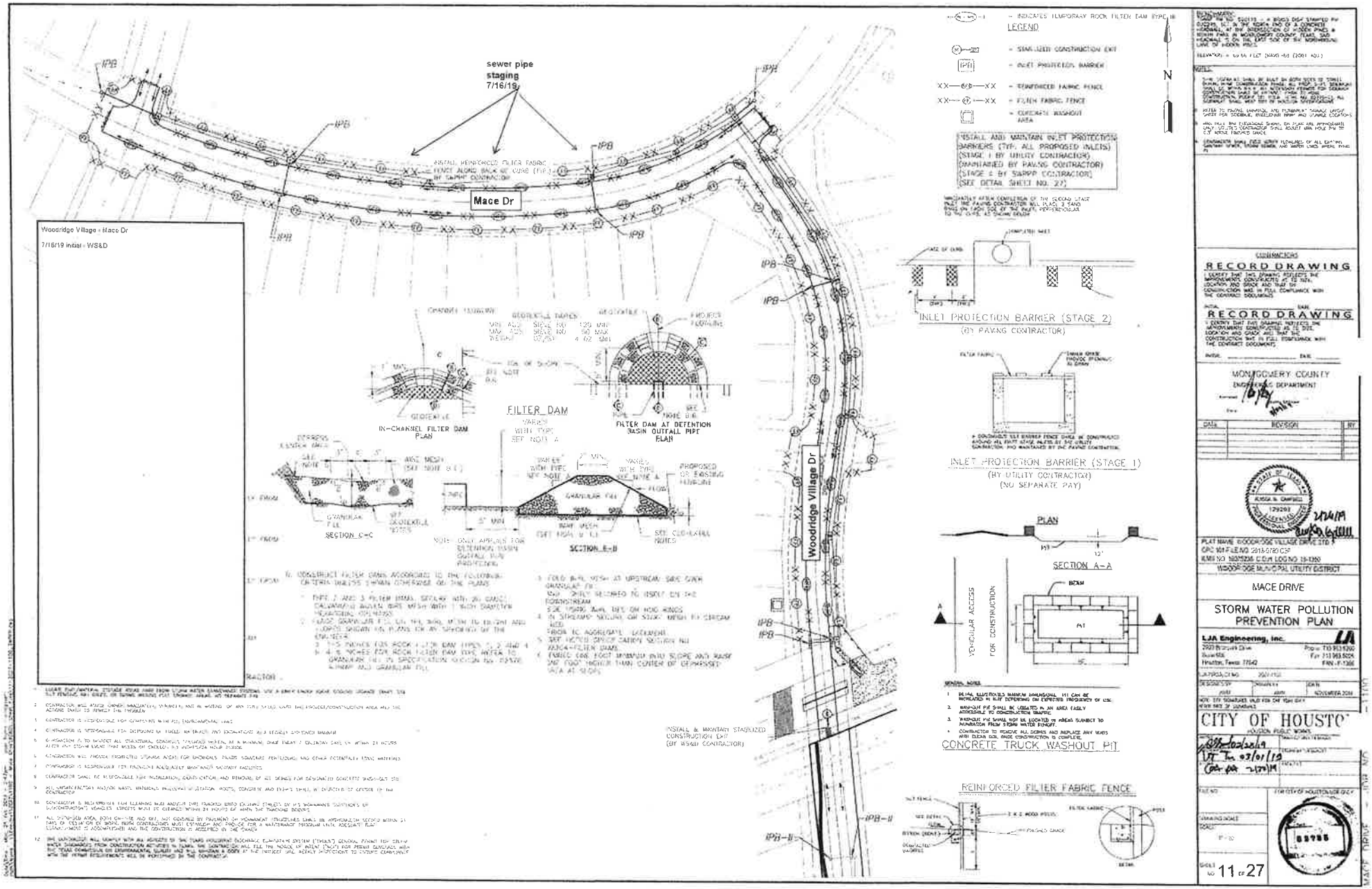
12. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AGENCIES FOR THE CONSTRUCTION OF THIS PROJECT.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION.

14. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION.

15. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TRAFFIC CONTROL DURING CONSTRUCTION.


PLAN
SECTION A–A
VEHICULAR ACCESS
FOR CONSTRUCTION
CONCRETE TRUCK WASHOUT PIT
LEGEND
– STABILIZED CONSTRUCTION EXIT
IPB – INLET PROTECTION BARRIER
– REINFORCED FABRIC FENCE
– FILTER FABRIC FENCE
– CONCRETE WASHOUT AREA
INSTALL AND MAINTAIN INLET PROTECTION BARRIERS (TYP. ALL PROPOSED INLETS, (STAGE I BY UTILITY CONTRACTOR) (MAINTAINED BY PAVING CONTRACTOR) (STAGE II BY SWPPP CONTRACTOR) (SEE DETAIL SHEET NO. 28)
INSTALL REINFORCED FILTER FABRIC FENCE ALONG BACK OF BY SWPPP CONTRACTOR
Woodridge Village Sec 2 - Figurefour
5/3/19 Initial WSD
6/4, 6/11, 6/18/19 WS&D
6/26/19 idle
7/2/19 grading
7/9/19 WS&D appears complete
7/16/19 Not started
PAGE 1 of 2
Use Page 1 only
BARRIER (STAGE 2)
CONTRACTOR)
N BARRIER (STAGE 1)
CONTRACTOR)
PARATE PAY)
INSTALL & MAINTAIN STABILIZED CONSTRUCTION EXIT BY WS&D CONTRACTOR)
REINFORCED FILTER FABRIC FENCE
Storm Water Solutions Digital Map Symbol Legend
Potential Pollutants
Fuel Cell
Roll-off trash container
Stockpile
Portable Toilet
Concrete Truck Washout
Material Storage Container
Structural Controls
Stabilized Construction Access
Filter Fabric Fence
Vertical Berm
Retaining Wall
Masonry or Privacy Wall
Curb Berm
Vegetation
Drainage Swale
Landmarks
Construction Exit
Inspection Point
Water Treatment Plant
Job Trailer
Burn Pit
Outfall to Surface Water
Flow Line
Lift Station
GENERAL NOTES TO CONTRACTOR :
CONTRACTOR
RECORD DRAWING
RECORD DRAWING
MONTGOMERY COUNTY
ENGINEERING DEPARTMENT
DATE
REVISIONS
BY
PLAT NAME: WOODRIDGE VILLAGE SECTION 2
WOODRIDGE VILLAGE
SECTION 2
STORM WATER POLLUTION PREVENTION PLAN
LJA Engineering, Inc.
CITY OF HOUSTON
HOUSTON PUBLIC WORKS
WOODRIDGE VILLAGE SECTION 2 – JOB NO. 2027-1102
SHEET NO. 10 OF 31



Woodridge Village - Mace Dr

7/16/19 initial - WS&D

BENCHMARK:
USED TBM NO. 5001135 - A BRASS DISK STAMPED PW 5001135, SET IN THE NORTH END OF A CONCRETE HEADWALL AT THE INTERSECTION OF MOSSY OAKS & MOSSY PINES IN WOODRIDGE COUNTY HOMES SUBDIVISION, PHASE 1, SECTION 2, ON THE EAST SIDE OF THE NORTHBOUND LANE OF MOSSY PINES.
ELEVATION = 53.66 FEET (NAVD 88) (2001 ADJ.)

NOTES:
1. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR ALL SAFETY PRECAUTIONS AND PROGRAMS IN CONNECTION WITH THE WORK. THESE RESPONSIBILITIES SHALL INCLUDE, BUT NOT BE LIMITED TO, COMPLIANCE WITH ALL APPLICABLE REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT (OSHA) AND THE CONSTRUCTION SAFETY ACT (CSA). THE CONTRACTOR SHALL HOLD THE OWNER AND THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE ENGINEER.
2. REFER TO PAVING, DRAINAGE, AND PLUMBING TRAFFIC LAYOUT SHEET FOR DOUBLE, RIDGE/CROWN, RAMP AND CHANGE LOCATIONS.
3. ANY FILL AND EXCAVATION SHOWN ON PLANS ARE APPROXIMATE ONLY. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO FIELD VERIFY EXISTING GRADES.
4. CONTRACTOR SHALL FIELD VERIFY ELEVATIONS OF ALL EXISTING UTILITIES, STORM SEWERS, AND WATER LINES BEFORE TYING IN.

COMMENTS
RECORD DRAWING
I HEREBY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AT THE SITE, LOCATION AND GRADE AND THAT SAID CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
INITIAL _____ DATE _____
RECORD DRAWING
I HEREBY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AT THE SITE, LOCATION AND GRADE AND THAT THE CONSTRUCTION WAS IN FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
INITIAL _____ DATE _____

MONTGOMERY COUNTY
ENGINEERING DEPARTMENT
Approved 10/19
By _____
Date _____

DATE	REVISION	BY

STATE OF TEXAS
ALYSSA B. CAMPBELL
129293
LICENSED PROFESSIONAL ENGINEER
2/24/19

PLAT NAME WOODRIDGE VILLAGE DRIVE STD 2
OPC NO F-LEVQ 2018-0780 CSP
JOBS NO 1835236 COM LOG NO 19-1200
WOODRIDGE MUNICIPAL UTILITY DISTRICT

MACE DRIVE

STORM WATER POLLUTION PREVENTION PLAN

LJA Engineering, Inc.
2929 Briarpark Drive, Suite 600
Houston, Texas 77042
Phone 713 953 5200
Fax 713 953 5026
FIRM # T-1386

DESIGNED BY	PROJECT #	DATE
JMH	4011	NOVEMBER 2018

NOTE: CITY SIGNATURES VALID FOR ONE YEAR ONLY
REVISIONS OR ADDENDUMS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

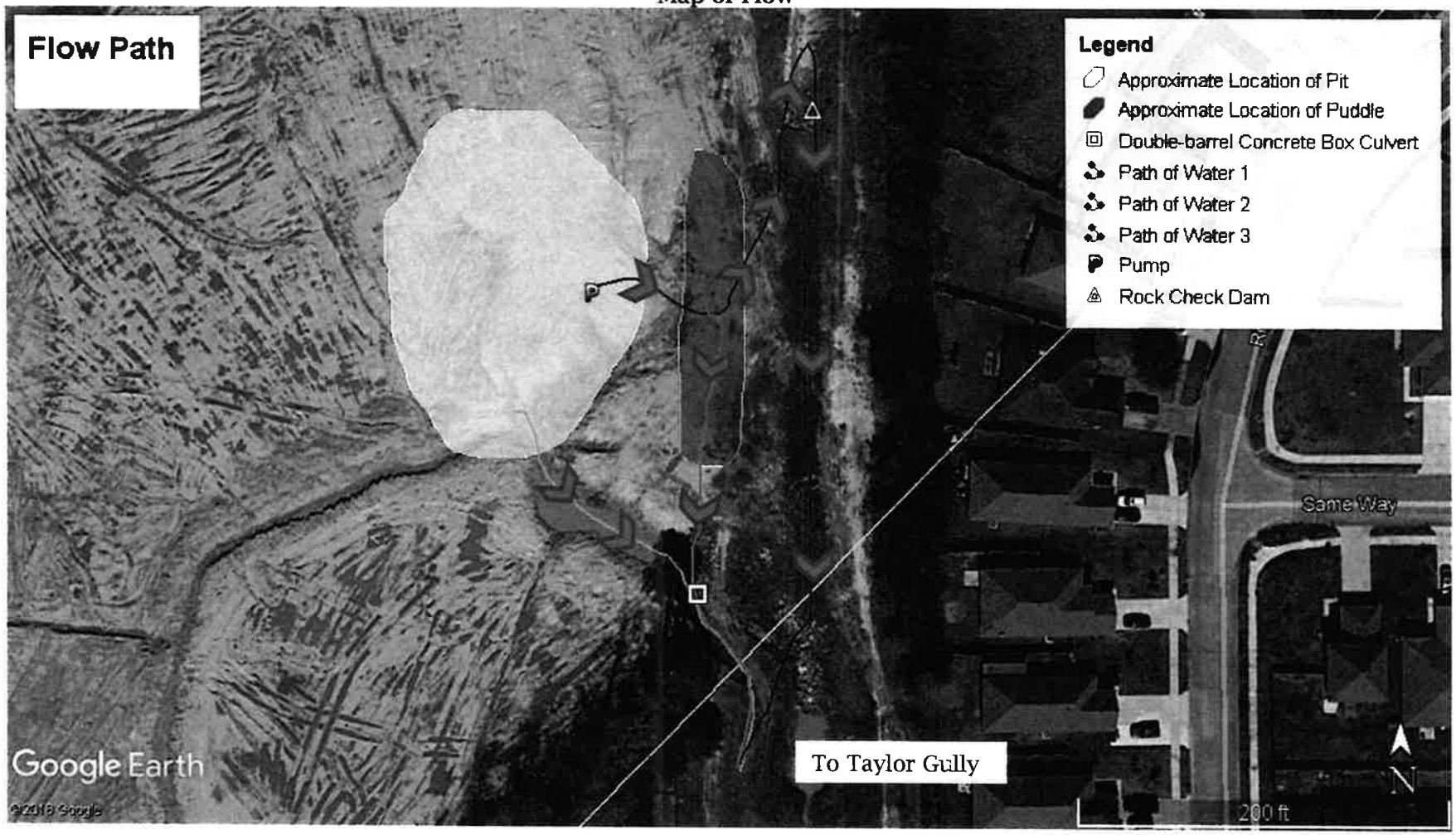
Approved 02/01/19
Date
Approved 2-27-19
Date

FILE NO.
DRAWING SCALE
1" = 20'
SHEET NO. 11 OF 27

FOR CITY OF HOUSTON USE ONLY
83785

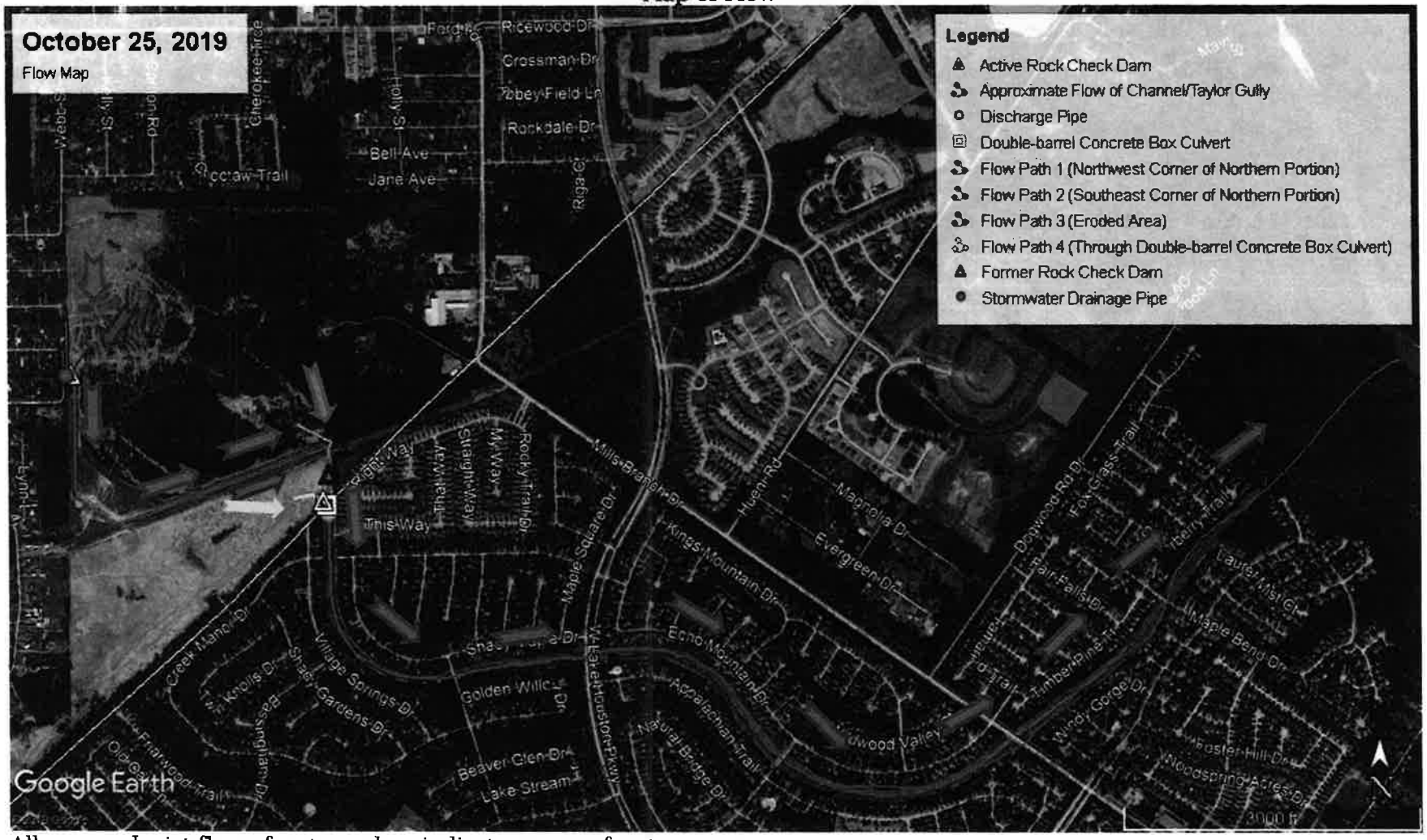
Attachment 6

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Map of Flow



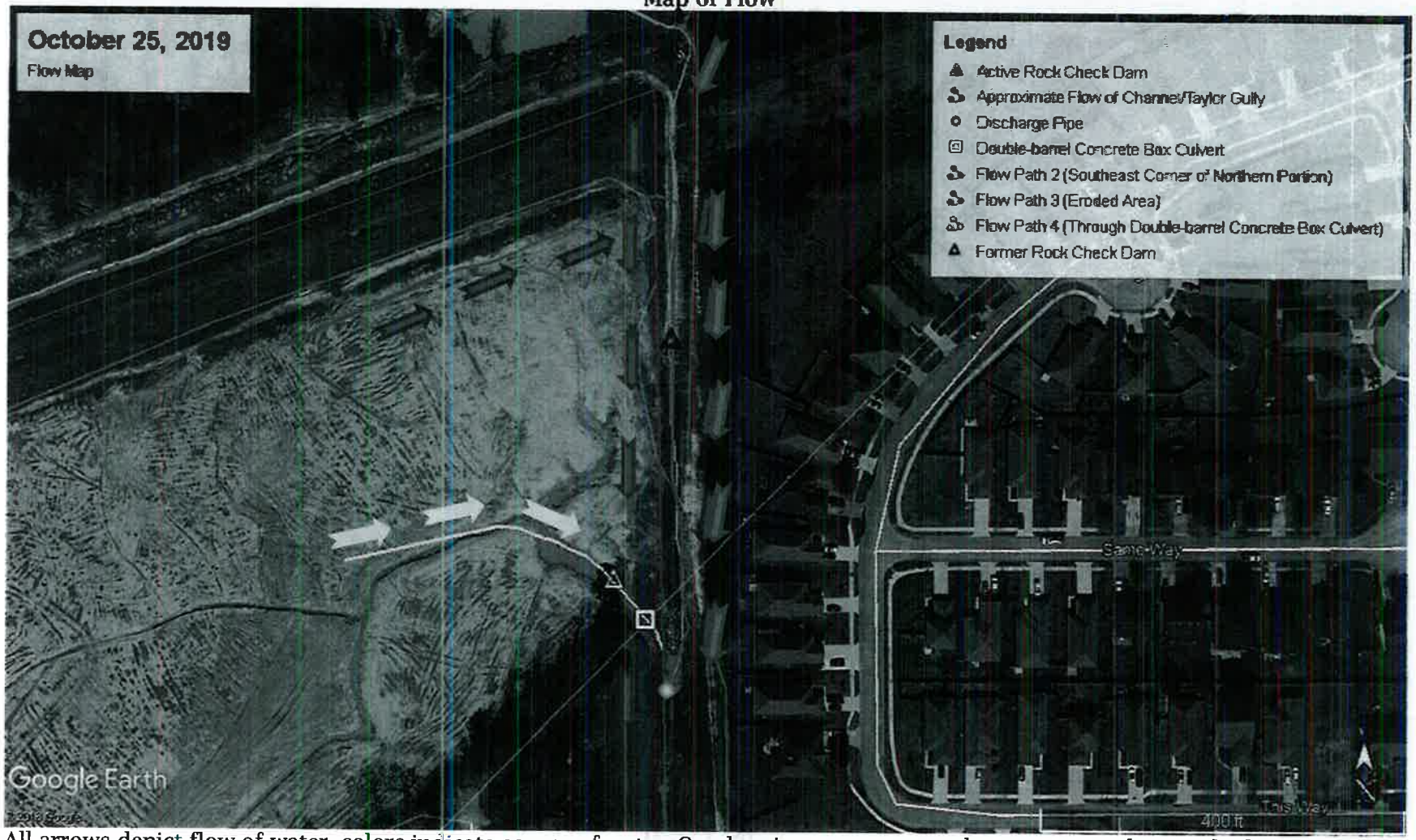
Attachment 7

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Map of Flow



All arrows depict flow of water, colors indicate source of water.

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Map of Flow



All arrows depict flow of water, colors indicate source of water. Overlapping arrows mean the sources combine and take the same path of flow.

Attachment 8

Texas Commission on Environmental Quality Investigation Report
Stormwater Complaint Investigation
Woodridge Village
Approximately 500 yard southeast of the Intersection of Ford Road and Webb Street, Porter (Montgomery County), Texas 77365
CN Number: 603783838
RN Number: 110463163
Samples Collected October 25, 2019

Sample ID	Time Collected	Location	Approximate Lat/Long	Total Suspended Solids (TSS) mg/l	Total Dissolved Solids (TDS) mg/l
W012323-01	10:15am	Adjacent Ditch	30.083413, -95.200659	123.6	116.0
W012323-02	10:24am	Outfall (Channel)	30.083337, -95.200254	1098.0	2242.8
W012323-03	11:31am	Downstream	30.083612, -95.170588	270.0	425.0
W012323-04	11:57am	Upstream	30.086313, -95.208665	130.0	61.2
W012323-05	10:37am	Outfall (After Confluence)	30.083123, -95.200397	180.0	258.8

Texas Commission on Environmental Quality Investigation Report
Woodridge Village Clearing & Grubbing
East of Joseph Road and West of Ford Road in Porter (Montgomery County), Texas 77339
CN Number: 600555734
RN Number: 110478583
Map of Sample Locations

Texas Commission on Environmental Quality Investigation Report
Woodridge Village Clearing & Grubbing
East of Joseph Road and West of Ford Road in Porter (Montgomery County), Texas 77339
CN Number: 600555734
RN Number: 110478583
Map of Sample Locations

Laboratory Analysis Report

Total Number of Pages: 12

Job ID : 19102077

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
W012323 / Reg. 12, Program: Water Quality

Report To :

Client Name: TCEQ
Attn: Nicole Morris
Client Address: 5425 Polk Ave Suite H
City, State, Zip: Houston, Texas, 77023-1483

P.O.#.:
Sample Collected By: Nicole Morris
Date Collected: 10/25/19

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
W012323-01	Liquid	19102077.01
W012323-02	Liquid	19102077.02
W012323-03	Liquid	19102077.03
W012323-04	Liquid	19102077.04
W012323-05	Liquid	19102077.05

Released By: Senthilkumar Sevukan
Title: Assistant Lab Manager
Date: 11/1/2019

This Laboratory is NELAP (T104704213-19-21) accredited. Effective: 08/26/2019; Expires: 3/31/2020
Scope: Non-Potable Water, Drinking Water, Air, Solid, Biological Tissue, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

This report cannot be reproduced, except in full, without prior written permission of A&B Labs. Results shown relate only to the items tested. Samples are assumed to be in acceptable condition unless otherwise noted. Blank correction is not made unless otherwise noted. Air concentrations reported are based on field sampling information provided by client. Soil samples are reported on a wet weight basis unless otherwise noted. Uncertainty estimates are available on request.

Date Received : 10/25/2019 14:25

Report Number: RPT191101014

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 19102077

Date: 11/1/2019

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference-
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count
J	Estimation. Below calibration range but above MDL		

Qualifier Definition

LABORATORY TEST RESULTS

Job ID : 19102077

Date 11/1/2019

Client Name: TCEQ

Attn: Nicole Morris

Project Name: W012323 / Reg. 12, Program: Water Quality

Client Sample ID: W012323-01
Date Collected: 10/25/19
Time Collected: 10:15
Other Information:

Job Sample ID: 19102077.01
Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	116.0	mg/L	1	10			10/28/19 11:30	CO
SM 2540D	Total Suspended Solids								
	TSS	123.6	mg/L	2.00	5.00			10/28/19 13:30	CO

LABORATORY TEST RESULTS

Job ID : 19102077

Date 11/1/2019

Client Name: TCEQ

Attn: Nicole Morris

Project Name: W012323 / Reg. 12, Program: Water Quality

Client Sample ID: W012323-02
Date Collected: 10/25/19
Time Collected: 10:24
Other Information:

Job Sample ID: 19102077.02
Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	1098.0	mg/L	1	10			10/28/19 11:30	CO
SM 2540D	Total Suspended Solids								
	TSS	2242.8	mg/L	4.00	10			10/28/19 13:30	CO

LABORATORY TEST RESULTS

Job ID : 19102077

Date 11/1/2019

Client Name: TCEQ

Attn: Nicole Morris

Project Name: W012323 / Reg. 12, Program: Water Quality

Client Sample ID: W012323-03
Date Collected: 10/25/19
Time Collected: 11:31
Other Information:

Job Sample ID: 19102077.03
Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	270.0	mg/L	1	10			10/28/19 11:30	CO
SM 2540D	Total Suspended Solids								
	TSS	425.0	mg/L	10	25			10/28/19 13:30	CO

LABORATORY TEST RESULTS

Job ID : 19102077

Date 11/1/2019

Client Name: TCEQ

Attn: Nicole Morris

Project Name: W012323 / Reg. 12, Program: Water Quality

Client Sample ID: W012323-04
Date Collected: 10/25/19
Time Collected: 11:57
Other Information:

Job Sample ID: 19102077.04
Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	130.0	mg/L	1	10			10/28/19 11:30	CO
SM 2540D	Total Suspended Solids								
	TSS	61.2	mg/L	2.00	5.00			10/28/19 13:30	CO

LABORATORY TEST RESULTS

Job ID : 19102077

Date 11/1/2019

Client Name: TCEQ

Attn: Nicole Morris

Project Name: W012323 / Reg. 12, Program: Water Quality

Client Sample ID: W012323-05
Date Collected: 10/25/19
Time Collected: 10:37
Other Information:

Job Sample ID: 19102077.05
Sample Matrix Liquid

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SM 2540C	Total Dissolved Solids								
	TDS	180.0	mg/L	1	10			10/28/19 11:30	CO
SM 2540D	Total Suspended Solids								
	TSS	258.8	mg/L	4.00	10			10/28/19 13:30	CO

QUALITY CONTROL CERTIFICATE

Job ID : 19102077 **Date :** 11/1/2019

Analysis : Total Dissolved Solids **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb19102821 **Created Date :** 10/28/19 **Created By :** CObuekwe

Samples in This QC Batch : 19102077.01,02

Sample Preparation : PB19102824 **Prep Method :** SM 2540C **Prep Date :** 10/28/19 10:53 **Prep By :** CObuekwe

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	Rptl Imit		Qual
TDS		BRL	mg/L	1	10		

QC Type: Duplicate

QC Sample ID: 19102035.09

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TDS	2570.0	2600.0	mg/L	1.2	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	460.0	92						80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 19102077 **Date :** 11/1/2019

Analysis : Total Dissolved Solids **Method :** SM 2540C **Reporting Units :** mg/L

QC Batch ID : Qb19102822 **Created Date :** 10/28/19 **Created By :** CObuekwe

Samples in This QC Batch : 19102077.03,04,05

Sample Preparation : PB19102824 **Prep Method :** SM 2540C **Prep Date :** 10/28/19 10:53 **Prep By :** CObuekwe

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TDS		BRL	mg/L	1	10		

QC Type: Duplicate

QC Sample ID: 19102077.03

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TDS	282.0	270.0	mg/L	4.4	5		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TDS	500	460.0	92						80-120	

Refer to the Definition page for terms.

QUALITY CONTROL CERTIFICATE

Job ID : 19102077 **Date :** 11/1/2019

Analysis : Total Suspended Solids **Method :** SM 2540D **Reporting Units :** mg/L

QC Batch ID : Qb19102847 **Created Date :** 10/28/19 **Created By :** CObuekwe

Samples in This QC Batch : 19102077.01,02,03,04,05

Sample Preparation : PB19102860 **Prep Method :** SM 2540D **Prep Date :** 10/28/19 12:48 **Prep By :** CObuekwe

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
TSS		BRL	mg/L	1	2.50		

QC Type: Duplicate

QC Sample ID: 19102068.02

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
TSS	37.0	31.0	mg/L	17.6	20		

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
TSS	500	400.0	80						72-108	

Refer to the Definition page for terms.

Chain of Custody Record

W 012323

TCEQ

Send to:
☐ Houston Laboratory
Phone: 281-457-5229
☒ axb lab

Region: 12 Organization #: _____ PCA Code: _____ Program: Water Quality

Sampler Name: Nicole Morris (print) Sampler Signature: Nicole Morris

Sampler phone number: 713-767-3716 E-Mail ID: Nicole.Morris@tceq.texas.gov

LAB USE ONLY	Sample ID	Sampling Date	Sampling Time	Comp	Grab	Matrix (L = Liquid, S = Solid)	No. of Containers	Containers*	Preservatives**	Analyses Requested	BOD	CBOD	TSS	NH_3-N	E. Coli	TDS	Remarks
								P	1							P 1	
19102077.01	-01	10/25/19	1015		X	L	2						X			X	
.02	-02	10/25/19	1024		X	L	2						X			X	
.03	-03	10/25/19	1131		X	L	2						X			X	
.04	-04	10/25/19	1157		X	L	2						X			X	
.05	-05	10/25/19	1037		X	L	2						X			X	
	-06																
	-07																
	-08																

RELINQUISHED BY	DATE	TIME	RECEIVED BY	DATE	TIME
Nicole Morris	10/25/19	1425		10/25/19	1425

Shipper Name: _____ Shipper Number: _____

*Containers: P = Plastic G = Clear Glass A = Amber Glass V = VOA Vials O = Other _____

**Preservatives: 1 = Ice 2 = H_2SO_4 3 = HCl 4 = HNO_3 5 = $Na_2S_2O_3$ 6 = Other _____

FOR LAB USE ONLY

Received on Ice: ☑ Y ☐ N

Temperature: 1.7-0.5 = 1.2 °C 1.2 °C 17071220

Preserved: ☐ Y ☐ N

COC Seal: ☑ Y ☐ N

Seals Intact: ☑ Y ☐ N

Sample Condition Checklist

A&B JobID : **19102077**	Date Received : **10/25/2019**	Time Received : **2:25PM**
Client Name : **TCEQ**		
Temperature : **1.7-0.5cf=1.2°C**	Sample pH : **N/A**	
Thermometer ID : **1707629**	pH Paper ID : **N/A**	

	Check Points	Yes	No	N/A
1.	**Cooler seal present and signed.**	X		
2.	**Sample(s) in a cooler.**	X		
3.	**If yes, ice in cooler.**	X		
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If no comment).**	X		
8.	**Matrix :** **Water** ☑ **Soil** ☐ **Liquid** ☐ **Sludge** ☐ **Solid** ☐ **Cassette** ☐ **Tube** ☐ **Bulk** ☐ **Badge** ☐ **Food** ☐ **Other** ☐			
9.	**Sample(s) were received in appropriate container(s).**	X		
10.	**Sample(s) were received with proper preservative**			X
11.	**All samples were logged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received within the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		
18	**Has client been contacted about sub-out**			X

Comments : Include actions taken to resolve discrepancies/problem:

Received by : JMontemayor

Check in by/date : JMontemayor / 10/25/2019