

MWD_WQ0010134008_RP_20171019_Reports
Texas Commission on Environmental Quality
Investigation Report

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Customer: City of Pearland
Customer Number: CN600595052

Regulated Entity Name: CITY OF PEARLAND
Regulated Entity Number: RN101920007

Investigation # 1448201

Incident Numbers

273645

Investigator: NICHOLE NUNES

Site Classification DOMESTIC MAJOR

Conducted: 10/19/2017 -- 10/19/2017

NAIC Code: 221320

SIC Code: 4952

Program(s): WASTEWATER

Investigation Type: Compliance Investigation

Location: LOCATED APPROX 1000 FT N OF
MCHARD RD APPROX 1.25 MI W OF THE INTERX
OF MCHARD RD AND SH 288 IN BRAZORIA
COUNTY

Additional ID(s): TX0117501
WQ0010134008

Address: ,
, ,

Local Unit: REGION 12 - HOUSTON

Activity Type(s): WWC MPL - WW Complaint
WWLSTMAJFC - Lift Station
Maintenance/Major Focused
WWRECONMAJ - WW Major Recon

Principal(s):

Role

Name

RESPONDENT

CITY OF PEARLAND

Contact(s):

Role

Title

Name

Phone

REGULATED
ENTITY MAIL
CONTACT

MAYOR

HON TOM REED

Work (281) 652-1600

REGULATED
ENTITY
CONTACT

WASTEWATER
TREATMENT
SUPERINTENDENT

MR MARK
WAHLSTROM

Work (281) 652-1778
Cell (713) 775-4082

Other Staff Member(s):

Role

Name

Supervisor
Investigator
QA Reviewer

WESTIN MASSEY
ISIAAH LONGORIA
ISIAAH LONGORIA

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
WQ COMPLIANCE CHECK/RECONNAISSANCE INVESTIGATION	Recon
WQ COMPLAINT INVESTIGATION	Complaint

Investigation Comments:**INTRODUCTION**

On October 7, 8 and 18, 2017, the Texas Commission on Environmental Quality (TCEQ) Houston Region Water Section received a several complaints (TCEQ Consolidated Compliance and Enforcement Data System (CCEDS) Incident No. 2763645A, 2763645B, and 2763645C) alleging an extremely pungent rotten egg/sewage/garbage odor in their home, a strong sulfur odor in the area, and a strong sewage smell during the early hours of the morning, respectively.

On October 19, 2017, investigators Ms. Nichole Nunes, Mr. Gary Ackerman, and Ms. Nicole Morris of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted a focused odor survey investigation in the City of Pearland, and in Fort Bend, Brazoria, and Harris counties in the west Pearland area. The purpose of this investigation was to conduct odor surveys to determine if odors were present in the area and identify potential sources.

INVESTIGATION

The investigation took place on October 19, 2017. The surrounding land use is a mix of residential, industrial, and commercial areas. The terrain is flat with sporadic forest. Meteorological conditions were as follows: Cloud Cover: Cloudy; Temperature: 71-82° Fahrenheit; Wind Direction: East-Northeast; Wind Speed: Approximately 7-9 miles per hour; Precipitation: 0.0 inches; Source of Meteorological Conditions: Weather Underground (KAXH) (Attachment 1). The primary odor survey activities were conducted in zip code 77584, some portions of the odor survey activities may have also included portions of zip codes 77053, 77545, 77583 and 77047. A summary for all survey locations can be found in Attachment One along with an aerial view of the survey area.

The investigators arrived at Nail Road at 9:29 am and surveyed the southwestern side of the Blue Ridge Landfill. The investigators conducted a 15 minute odor survey. No odors were detected (Attachment 2). The investigators left at 9:34 am.

The investigators arrived at McHard Road at 9:59 am and surveyed the southwestern side of the Akzo Noble Surface Chemistry. The investigators conducted a 15 minute odor survey (Attachment 3). No odors were detected. The investigators left the area at 10:14 am.

The investigators arrived at Hiram Clarke Road at 10:21 am and surveyed the southwestern side of the Lonestar Recycling and Disposal Facility. The investigators conducted a 19 minute odor survey. The investigators detected a time weighted average of a very light unpleasant odor (Attachment 4). The investigators left the area at 11:40 am.

The investigators arrived at the intersection of Almeda School Road at 10:53 am and surveyed the southwestern side of Syntech Chemicals and Brenntag Southwest. The investigators conducted a 15 minute odor survey. No odors were detected (Attachment 5). The investigators left the area at 11:08 am.

The investigators arrived at the intersection at Biscayne Bay Drive at 11:23 am and surveyed the western side of the Biscayne Bay lift station. The investigators conducted a 15 minute odor survey. The investigators detected a time weighted average of a very light unpleasant odor (Attachment 6). The investigators attempted to contact the collection system operators. No answer was received. The investigators left at 11:38 am.

The investigators arrived at Reflection Bay at 12:13 pm and surveyed the western side of the Reflection Bay Wastewater Treatment Plant (WWTP). The investigators conducted a 15 minute odor survey. The investigators detected a time weighted average of a very light unpleasant odor (Attachment 7). While onsite, the investigators observed the outfall for the WWTP. The outfall appeared to be clear, and aquatic life and water fowl were observed near the area. The investigators left the area at 12:28 pm.

The investigators arrived at FM 521 at 12:45 pm and surveyed the western side of the Energy Transfer Pipeline Odorizing Station. The investigators conducted a 15 minute odor survey. No odors were detected (Attachment 8). The investigators left the area at 1:00 pm.

Immediately after completion of the odor survey, investigators returned to the lift station on Biscayne Bay to verify the deodorizing station was working. The investigators successfully contacted the collection system operator, Mr. Mark Wahlstorm, Wastewater Treatment Superintendent for the City of Pearland. Mr. Wahlstorm met the investigators onsite of the Biscayne Bay Lift station. He informed the investigators that the onsite deodorizer had run out of material, but it was on order. The order should arrive within two weeks. See Attachment 9 for Facility Correspondence.

CONCLUSION

One type of odor was detected during the odor surveys: a wastewater-related odor; emanating from the lift station located on Biscayne Bay and the Wastewater Treatment Facility on Reflection Bay. According to the TCEQ Frequency, Intensity, Duration, and Offensiveness (FIDO) chart, the wastewater related odor is characterized as unpleasant. The intensity of odors emanating from the lift station varied from non-detectable to moderate. The intensity of odors emanating from the WWTF varied from non-detectable to light.

ADDITIONAL INFORMATION

The Frequency, Intensity, Duration and Offensiveness (FIDO) chart categorizes the wastewater odor as unpleasant. In order to constitute a nuisance, a highly offensive odor has to last one hour with a very strong intensity as a single occurrence. An unpleasant odor has to last more than four hours on single occurrence to constitute a nuisance. The investigators documented an unpleasant odor with a time weighted average of very light present for 19 minutes from the lift station on Biscayne Bay.

COMPLAINTS

Based on a review of CCEDS and regional office files, there have been hundreds of odor complaints received from within the survey area and numerous investigations related to odors. At the time of the review, multiple related investigations were being conducted by the Region 12 Office.

ADDITIONAL ISSUES

No additional issues were noted during this investigation.

No Violations Associated to this Investigation

Signed _____

Environmental Investigator

Date _____

Signed  _____

Supervisor

Date 12/13/17

Attachments: (in order of final report submittal)

___ Enforcement Action Request (EAR)

☒ Letter to Facility (specify type) : 6C

___ Investigation Report

___ Sample Analysis Results

___ Manifests

___ Notice of Registration

___ Maps, Plans, Sketches

___ Photographs

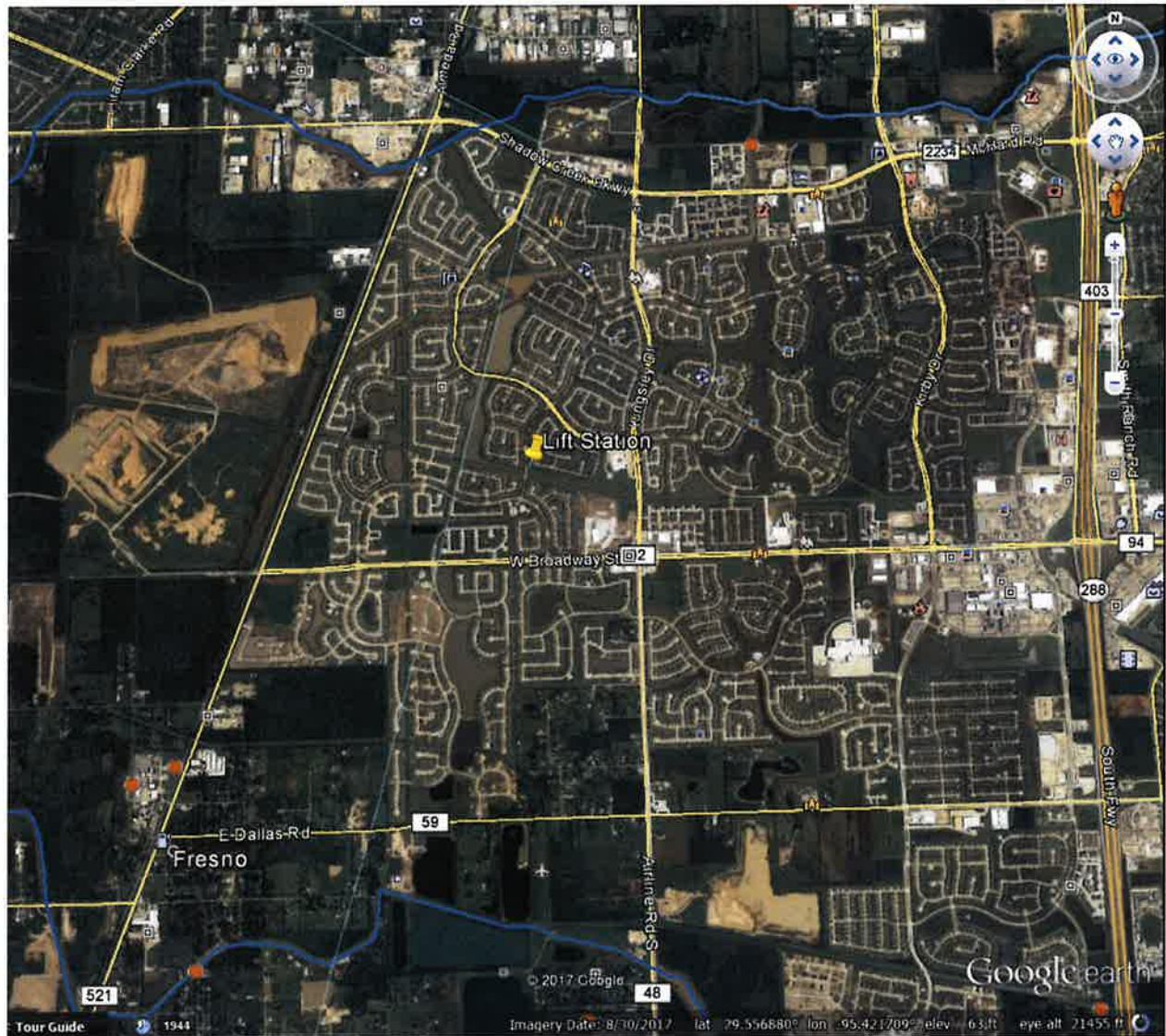
___ Correspondence from the facility

☒ Other (specify) :

See list of Attachments

Attachment 1

**Texas Commission on Environmental Quality
Investigation Report
City of Pearland
Fort Bend County, Brazoria County, and Harris County, Texas
Wastewater Permit Number WQ0010134008
Water Quality Comprehensive Compliance Investigation number 1448201
Conducted October 19, 2017**



Clover

© 3:04 PM CDT on October 26, 2017 (GMT -0500)

October

19

2017

View

Thursday, October 19, 2017

Daily	Weekly	Monthly	Custom	
			Actual	Average (KEFD)Record (KEFD)
Temperature				
Mean Temperature			75 °F	-
Max Temperature			84 °F	78 °F93 °F (2004)
Min Temperature			66 °F	61 °F51 °F (1999)
Cooling Degree Days			10	
Growing Degree Days			25 (Base 50)	
Moisture				
Dew Point			62 °F	
Average Humidity			66	

Search for Another Location

Airport or City:

KLVJ

Submit

Trip Planner

Search our weather history database for the weather conditions in past years. The results will help you decide how hot, cold, wet, or windy it might be!

Date:

October

19

Submit

Astronomy

Oct. 19, 2017	Rise	Set
Actual Time	7:25 AM CDT	6:46 PM CDT
Civil Twilight	7:01 AM CDT	7:10 PM CDT
Nautical Twilight	6:33 AM CDT	7:37 PM CDT
Astronomical Twilight	6:05 AM CDT	8:05 PM CDT
Moon	7:10 AM CDT (10/19)	7:05 PM CDT (10/19)
Length of Visible Light	12h 08m	
Length of Day	11h 20m	

Waning Crescent, 0% of the Moon is Illuminated

Oct 19	Oct 19	Oct 27	Nov 4	Nov 10
Waning Crescent	New	First Quarter	Full	Last Quarter

Hourly Weather History & Observations

Time (CDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Cond
12:53 AM	69.1 °F	-	62.1 °F	78%	30.12 in	10.0 mi	Calm	Calm	-	N/A		Clear

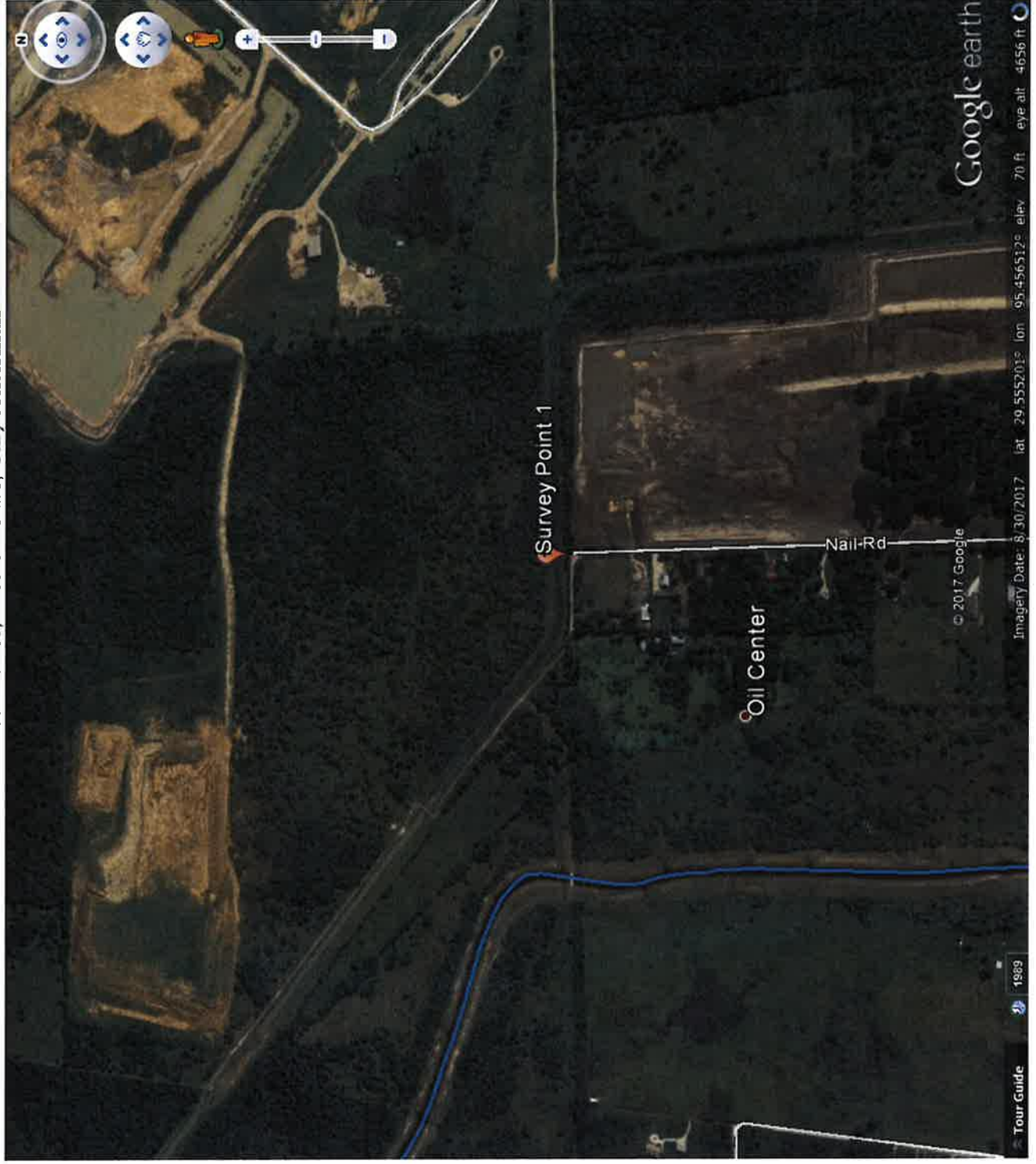
Time (CDT)	Temp.	Heat Index	Dew Point	Humidity	Pressure	Visibility	Wind Dir	Wind Speed	Gust Speed	Precip	Events	Cond
10:53 PM	75.0 °F	-	64.9 °F	71%	30.12 in	10.0 mi	NE	3.5 mph	-	N/A		Clear
11:53 PM	75.0 °F	-	64.0 °F	69%	30.11 in	10.0 mi	NE	5.8 mph	-	N/A		Mostly Cloud

Odor Log Summary

[illegible][illegible][illegible][illegible][illegible]

Attachment 2

Odor Survey Point 1
09/13/2017
Nichole Batista Nunes, Nicole Morris, Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: Nichole Batista Nunes Location: (29.553919, -95.459126)
 Date of Investigation: 10/19/17 Start Time: 9:29a

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

71°F
 partly
 cloudy
 0.00 in
 68% Hum
 8 mph NE

Odor Description: No odor

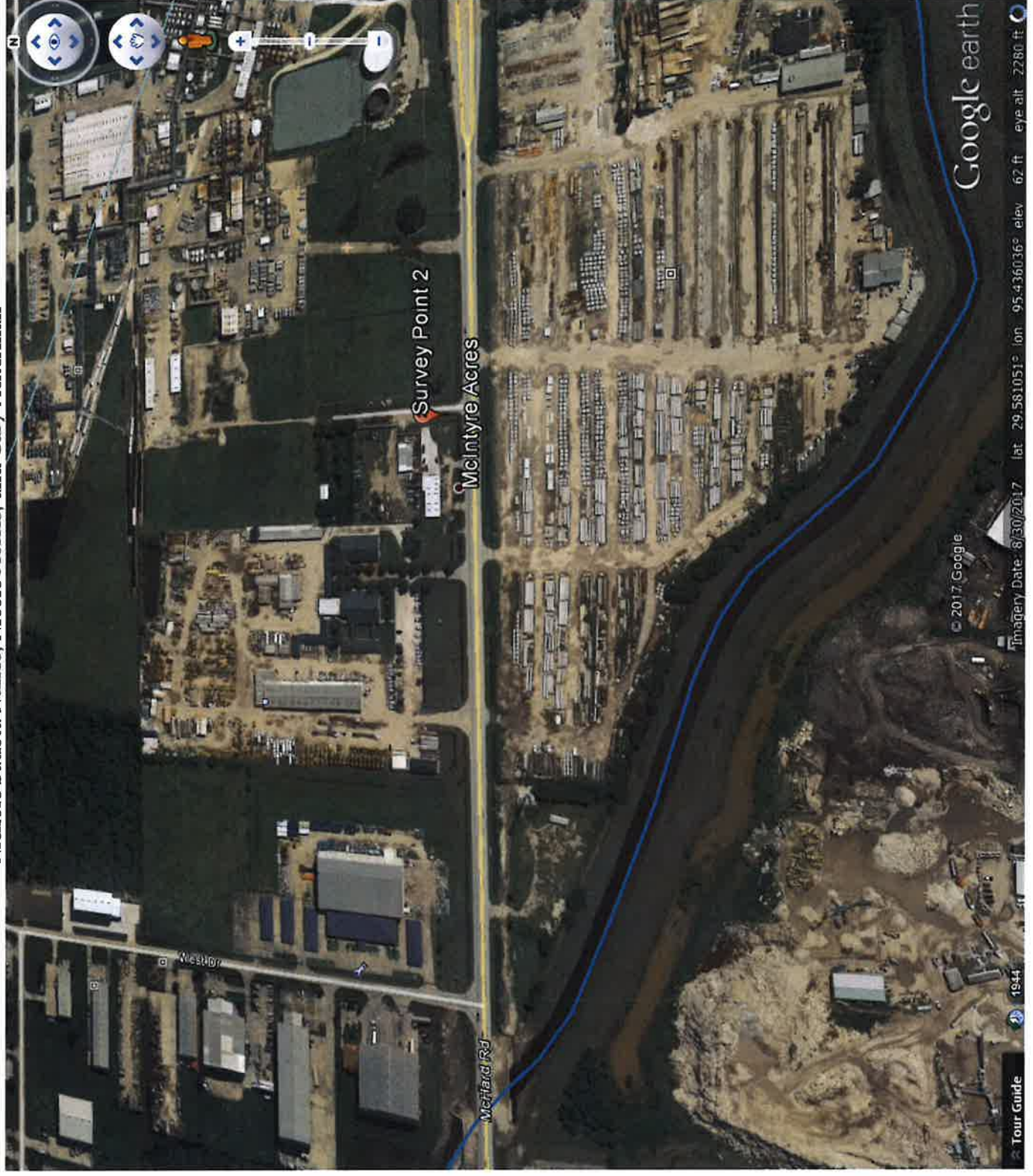
Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						✓
1 Hour						

Attachment 3

Odor Survey Point 2
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: 10/19/17

Location: (29.581744, -95.435938)

Date of Investigation: Nichole Batista

Start Time: 9:59a

Nines

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

75°F
0.00 in
64% Hum
7 mph NE
partly
cloudy

Odor Description: No odor

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						✓
1 Hour						

Attachment 4

Odor Survey Point 3
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman

09/13/2017

Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: Nichole Batista Nunes

Location: (29.591260, -95.447062)

Date of Investigation: 10/19/17

Start Time: 10:21a

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	L
3	VL
4	VL
5	ND
6	VL
7	L
8	VL
9	L
10	ND
11	ND
12	L
13	VL
14	VL
15	ND
16	ND
17	ND
18	ND
19	VL
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

77°F
mostly
cloudy
0.0 in
58% Hum
Emph NE

Odor Description: garbage like, rotten eggs

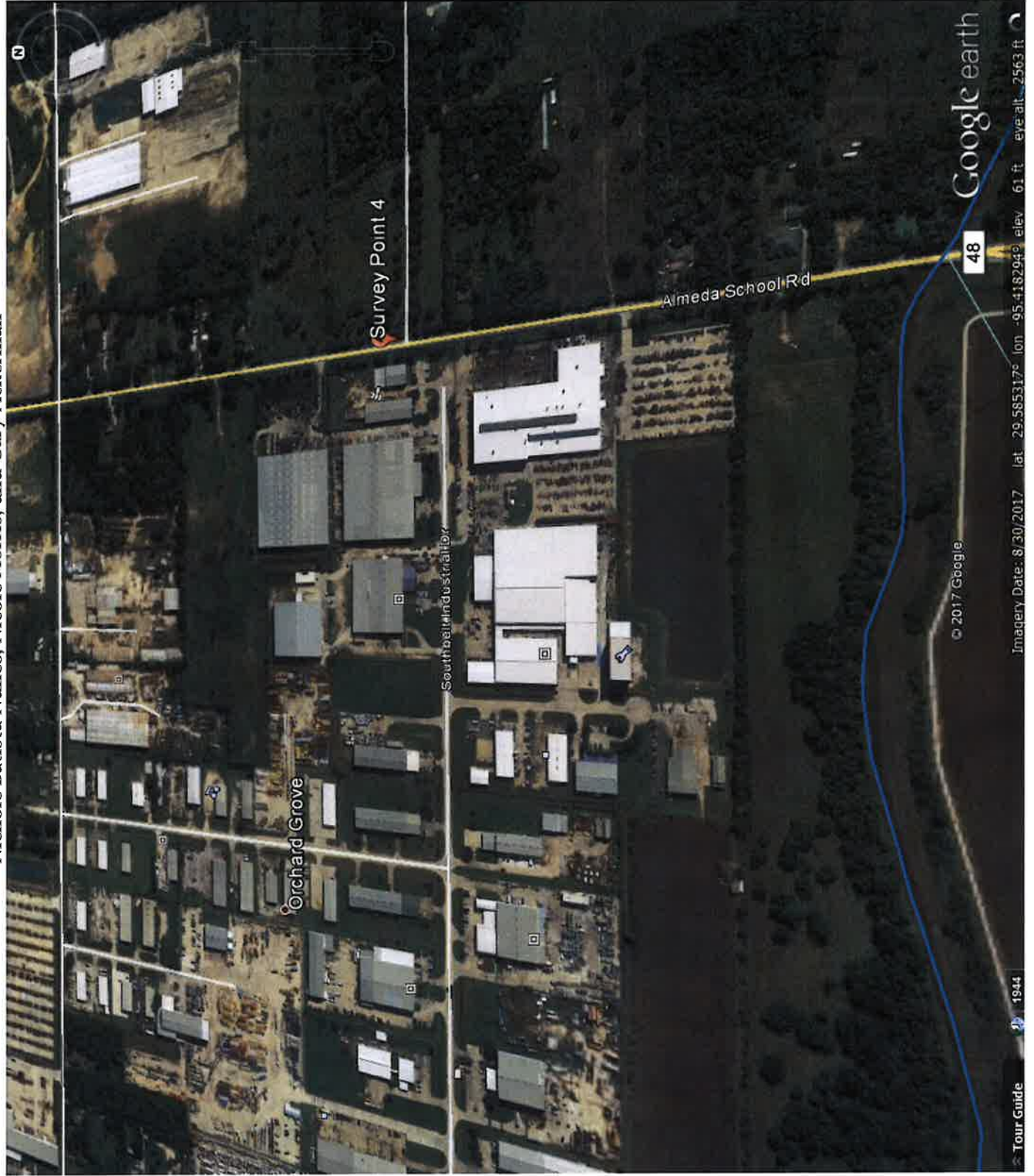
Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Attachment 5

Odor Survey Point 4
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: Nichole Batista Nunes

Location: (29.587456, -95.417124)

Date of Investigation: 10/19/17

Start Time: 10:53a

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
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40	
41	
42	
43	
44	
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47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

77°F
Mostly
cloudy
0.00 in
58% Hum
8 mph NE

Odor Description: no odor

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						✓
1 Hour						

ATTACHMENT 6

Odor Survey Point 5
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman

09/13/2017

Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: 10/19/17

Location: (29.560441, -95.425010)

Date of Investigation: 10/19/17

Start Time: 11:23a

Minutes	Odor Intensity VL, L, M, S, VS
1 min	L
2	L
3	ND
4	ND
5	VL
6	ND
7	M
8	L
9	ND
10	VL
11	ND
12	ND
13	ND
14	ND
15	ND
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

80°F
mostly
clouds
0.00 in
52% Hum
9mph E

Odor Description: wastewater

Offensiveness: Highly _____ Offensive ☒ Unpleasant ☒ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Attachment 7

Odor Survey Point 6
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: Nichole Batista Nunes

Location: (29.579892 - 95.409337)

Date of Investigation: 10/19/17

Start Time: 12:13 p

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	VL
3	ND
4	ND
5	ND
6	ND
7	VL
8	VL
9	ND
10	ND
11	ND
12	ND
13	VL
14	VL
15	ND
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	
26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
36	
37	
38	
39	
40	
41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

80°F
mostly
cloudy
0.00 in
52% Hum
9 mph E

Odor Description: wastewater

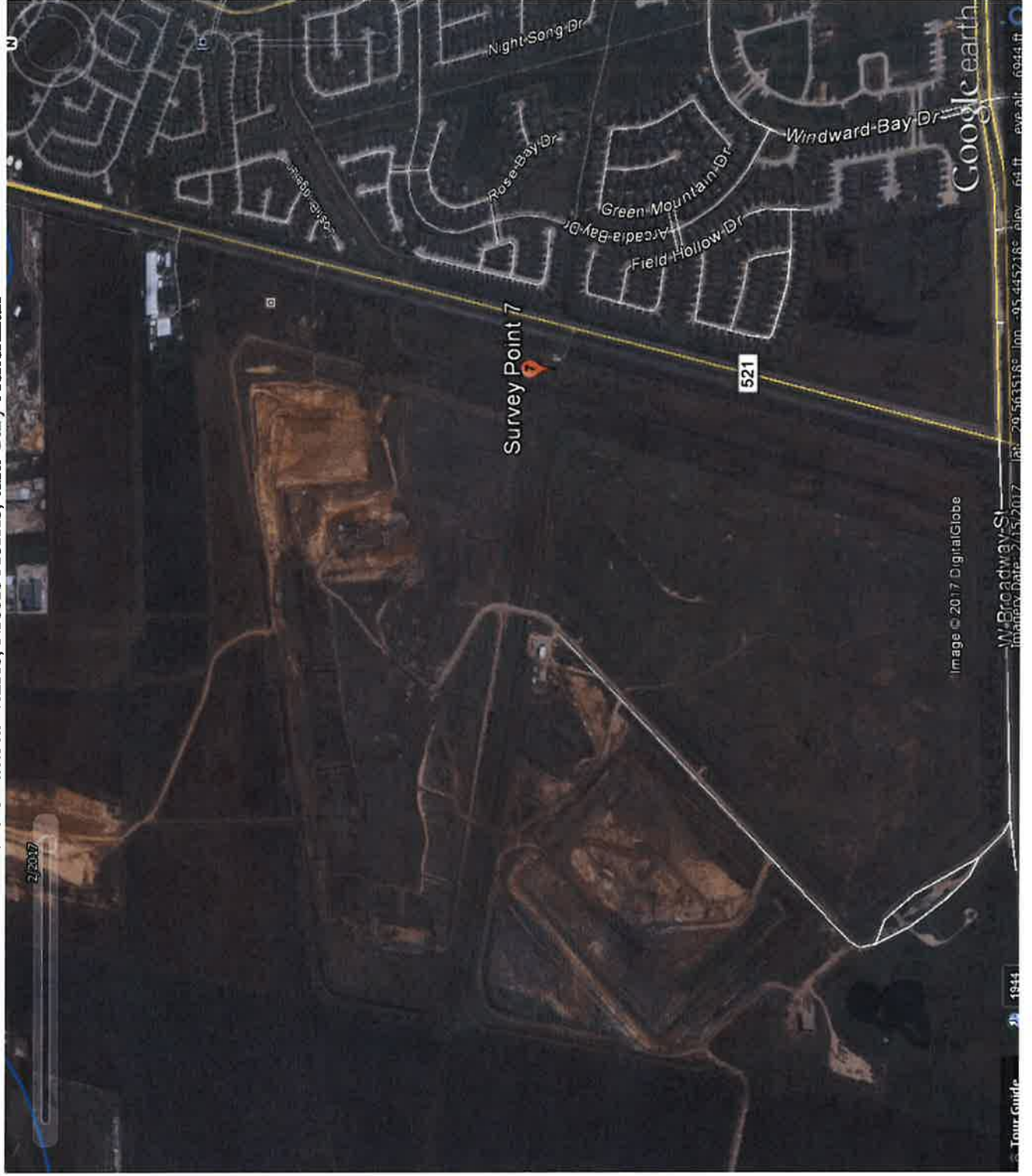
Offensiveness: Highly _____ Offensive ☒ Unpleasant ☒ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Attachment 8

Odor Survey Point 7
09/13/2017
Nichole Batista Nunes, Nicole Morris, and Gary Ackerman



Supplemental Investigator's Odor Intensity Time Log

Investigator: Nicolas Batista Nunez Location: (29.562592, -95.440226)
 Date of Investigation: 10/19/17 Start Time: 12:45p

Minutes	Odor Intensity VL, L, M, S, VS
1 min	ND
2	ND
3	ND
4	ND
5	ND
6	ND
7	ND
8	ND
9	ND
10	ND
11	ND
12	ND
13	ND
14	ND
15	ND
16	
17	
18	
19	
20	
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26	
27	
28	
29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	
33	
34	
35	
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41	
42	
43	
44	
45	
46	
47	
48	
49	
50	
51	
52	
53	
54	
55	
56	
57	
58	
59	
60	

82°F
 mostly
 cloudy
 0.00 in
 45% Hum
 9 mph E

Odor Description: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour						

Attachment 9

**Bill To**

Accounts Payable
P.O. Box 2719
Pearland, TX 77588-2719

Ship To

3501 East Orange St
PEARLAND, TX 77581

City of Pearland**Reprint Purchase Order**

No. 2018-00000310

10/18/17

Vendor Environmental Improvements, Inc

Vendor No. 10057

Contact

Jeff Houston
PO Box 79266
Houston, TX 77279

Deliver by**Ship Via****Freight Terms****Originator**

Kimberly Hall

Resolution Number**Special Instructions**

Quantity	U/M	Description	Unit Cost	Total Cost
1.0000	EACH	Miscellaneous Materials/Supplies	\$6,825.0000	\$6,825.00
Item Description ODOR CONTROL MEDIA @ SHADOW CREEK LIFT STATION				
G/L Account		Project	Amount	Percent
600-305-350.5300.105 (Repair & Maintenance Sewer Plants & Lift Stations)		PWLS.SCLS.CHEM (Lift Stations, Shadow Creek Lift Station (2753 Biscayne Drive), Chemicals)		100.00%

Total Due \$6,825.00

RECEIVED

OCT 19 2017

REGION 12

12. Patents: Upon acceptance of this order, Vendor agrees to protect the city from any claim involving patent right infringements, copyrights, or sale franchises.

13. Shipping: All prices must be F.O.B. destination. No boxing or packing charges will be allowed by city unless specifically authorized on the face of this order.

14. Risk of Loss: Risk of loss, damage, or destruction of materials covered by this order, regardless of F.O.B. point, shall be and remain with the Vendor until the goods are delivered to the destination set out in the order and accepted by the city or city's nominee.

15. Deliveries: Delivery shall not be made to any place other than the destination indicated on this Purchase Order, except as subsequently stated in writing by authorized City Purchasing personnel, on a date prior to shipment by the Vendor.

16. Cancellations: The city reserves the right to cancel purchase orders for failure on the part of the Vendor to deliver as promised, or within a reasonable time if no delivery commitment is made, unless acceptable notification of delay is given to the city by the Vendor.

17. Liability: Any person, firm or corporation performing services pursuant to this Purchase Order shall be liable for all damages incurred while in performance of such services. Vendor assumes full responsibility for the work to be performed hereunder, and hereby releases, relinquishes, and discharges the city, its officers, agents, and employees, from all claims, demands, and causes of action of every kind and character including the cost of defense thereof, for any injury to, including death of, any person whether that person be a third person, vendor, or an employee of either parties hereto, and any loss of or damage to property, whether the same be that of either of the parties hereto or of third parties, caused by or alleged to be caused by, arising out of or in connection with the issuance of this order to vendor, whether or not said claims, demands and causes of action in whole or in part are covered by insurance. Certificate of Insurance may be required for but not limited to Commercial General Liability, Commercial Auto Liability, Workers Compensation, and Professional Liability Insurance.

18. Personal Interest in City Contracts: Vendor agrees to comply with the Personal Interest In City Contracts provision of the Pearland City Charter, Section 10.07 latest amendment which states "Personal interest in city contracts or any other actual or potential conflicts of interest shall be governed by applicable state law, including Texas Local Government Code Chapter 171." Vendor agrees to maintain current, updated disclosure of information on file with the City Purchasing Department as appropriate throughout the term of this contract.

19. Conflict of Interest (Chapter 176 of Texas Local Government Code): By doing business or seeking to do business with the city, Vendor acknowledges that they understand and accept the requirements of Chapter 176 of the Texas Local Government Code and that they are solely responsible for compliance. Vendor may register and post their Conflict of Interest questionnaires online by visiting the Supplier Registration page located on the City of Pearland's website, <http://pearlandtx.gov/>

20. Applicable Law: This Purchase Order shall be interpreted and enforced according to the provisions of the State of Texas Law, and Vendor shall abide by, and be in compliance with, all applicable laws, statutes, ordinances, and regulations.

21. Venue: Both parties agree that venue for any litigation arising from this contract shall lie in Pearland, Brazoria County, Texas.

22. Arrears in Taxes: City shall be entitled to counterclaim and offset against any debt, claim, demand or account owed by the City to any person, firm or corporation who is in arrears to the City of Pearland for taxes, in the amount of taxes so in arrears, and no assignment or transfer of such debt, claim, demand or account after the said taxes are due shall affect the right of the City to offset the said taxes against the same.