

MSW PA_1505A_CO_20161116_Investigation Report
Texas Commission on Environmental Quality
Investigation Report

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Customer: Blue Ridge Landfill TX, LP
Customer Number: CN602820599

INFORMATION COPY
FOR R12 FILE ROOM

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1376355

Incident Numbers

247189	247370
247258	247210
246687	247197
247469	247472
247493	247214
247251	247179
247173	247365
247496	246682
247211	247358
247177	247194
246680	247470
247180	247200
247196	247217
247471	247191
247219	247256
247222	247175
246685	247449
247188	247369
246678	247464
247209	247475
247507	247216
247364	247257
247220	247458
247492	247461
246681	247184

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 11/16/2016 -- 02/25/2017

NAIC Code: 562212

SIC Code: 4953

SIC Code: 1521

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Compliance Investigation

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

**Address: 2200 FM 521 RD,
FRESNO, TX , 77545**

Local Unit: REGION 12 - HOUSTON

Activity Type(s): MSWC MPL - Investigation of MSW
complaint
MSWCSE - On-site followup
investigation

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

BLUE RIDGE LANDFILL - FRESNO

11/16/2016 to 2/25/2017 Inv. # - 1376355

Page 2 of 6

Role	Title	Name	Phone
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (713) 676-7664
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669

Other Staff Member(s):

Role	Name
QA Reviewer	CARLOS GRIGGS
Supervisor	ALMA JEFFERSON

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	complaint

Investigation Comments:**INTRODUCTION**

On November 4, 7, 14, 15, 16, 17 and 18, 2016, the Texas Commission on Environmental Quality Houston Region Office (TCEQ Houston) Waste Section received 80 complaints against Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. Most of the complaints were for odors that were alleged to have occurred on October 27, November 3, 4, 10, 11, 12, 15 and 16, 2016. Two of the complaints alleged the burning of trash and the use of floodlights.

On November 16, 2016, Mr. Richard Blackney, Environmental Investigator of TCEQ Houston, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it. An On-Site Follow-up Investigation was also conducted to determine the status of an outstanding violation at BRL for erosion of cover.

BACKGROUND

On December 18, 2015, an alleged violation for erosion of cover was noted at BRL (TCEQ Consolidated Compliance and Enforcement Data System [CCEDS] Investigation No. 1300533). This alleged violation was subsequently resolved based on observation of site conditions and documentation submitted by the facility.

On October 18, 2016 through November 10, 2016, a Surface Emissions Monitoring (SEM) Investigation (CCEDS Investigation No. 1370033) was conducted by the TCEQ Houston Air Section. On November 10, 2016, the Air Section investigators observed several wet areas where gas and liquid were bubbling on the landfill cover.

During a Waste Section Investigation begun on October 18, 2016, (CCEDS Investigation No. 1376757), an alleged violation was noted for failure to document repair to cover on the November 2016 cover log following the bubbling that was observed on November 10, 2016. This violation remains outstanding.

GENERAL FACILITY AND PROCESS INFORMATION

BRL's authorization numbers from the TCEQ Central Registry database are included in Attachment 1. BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

BLUE RIDGE LANDFILL - FRESNO

11/16/2016 to 2/25/2017 Inv. # - 1376355

Page 3 of 6

The landfill is authorized to accept municipal solid waste including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2 and Class 3 non-hazardous industrial waste; and liquid wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. Liquid wastes are sent to a bulking facility/solidification basin prior to disposal in the landfill. Hazardous waste may not be accepted for disposal.

The waste acceptance hours are Monday through Friday, 4:00 am to 5:00 pm, and Saturdays from 5:30 am to 12:00 pm. The surrounding land use includes industrial facilities and residential subdivisions.

Complainant Information:

See confidential files (TCEQ Incident Nos. 246678, 246680, 246681, 246682, 246685, 246687, 247173, 247175, 247177, 247179, 247180, 247184, 247188, 247189, 247191, 247194, 247196, 247197, 247200, 247209, 247210, 247211, 247214, 247216, 247217, 247219, 247220, 247222, 247251, 247256, 247257, 247258, 247358, 247364, 247365, 247369, 247370, 247449, 247458, 247461, 247464, 247469, 247470, 247471, 247472, 247475, 247492, 247493, 247496, 247507, 247509, 247511, 247514, 247516, 247517, 247539, 247540, 247541, 247544, 247545, 247546, 247549, 247557, 247560, 247565, 247567, 247572, 247585, 247586, 247591, 247592, 247594, 247662, 247663, 247668, 247670, 247672, 247674, 247675 and 247686).

Description of Alleged Effects:

Breathing difficulty, nausea, burning and watering of the eyes, headache, light-headedness and nasal irritation were described.

Meteorological data at the time of the odor survey:

Wind direction: SSE

Wind Speed: 7.6 mph

Temperature: 81.7°F

Meteorological data taken from TCEQ's continuous air monitoring stations (Attachment 2).

Odor Survey:

The investigator arrived at the first survey point located at the 16600 block of Sidonie Drive in Houston. Odor Survey (OS) no. 1 took place downwind of BRL and was conducted at 12:55 p.m. Very Light odors typical of landfill garbage were detected during 1 of the 15 minutes spent at OS site no. 1.

The investigator went to OS site no. 2 located at the 4600 block of Ripple Ridge Drive in Houston. OS No. 2 took place downwind of BRL and was conducted at 1:14 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 2.

The investigator then went to OS Site no. 3 located at the intersection of McHard Rd and S Post Oak Rd in Houston. OS No. 3 took place downwind of BRL and was conducted at 1:32 p.m. No landfill odors were detected during the 15 minutes spent at OS site no. 3.

Aerial view maps of the OS locations and the OS logs are included in Attachment 2.

Summary of on-site investigation:

Following the odor survey, the investigator arrived at BRL, and met with Mr. Burgess Stengl, Environmental Manager; and Mr. Matt Montagna, Landfill Operations Manager, to whom the purpose and scope of the investigation were explained.

BRL receives Class I waste in its Class 1 disposal cell Monday through Friday, and receives MSW in the MSW cell Monday through Saturday. Six inches of soil is applied to the Class 1 cell and MSW cell at the end of each operating day. The investigator viewed the MSW and Class 1 working faces, by which piles of soil were observed. There was no evidence of burned trash. Concerning the floodlights, Mr. Stengl stated that the landfill uses a mobile light tower to allow for operations in the early morning.

On the slopes of the landfill, the investigator observed that soil had been laid as part of BRL's effort to address all areas of erosion. New grass was observed to be growing on the soil. New letdown structures had been installed to channel rainwater. The investigator did not observe any erosion of cover on the landfill. No bubbling was apparent at the time. Mr. Montagna stated that additional soil had been applied to the landfill following the SEM

BLUE RIDGE LANDFILL - FRESNO

11/16/2016 to 2/25/2017 Inv. # - 1376355

Page 4 of 6

investigation. The investigator obtained copies of the cover logs for November 2016 (Attachment 3). The cover logs indicate that soil is applied to the working faces at the end of each operating day as required. The MSW cover log indicated that clay was placed on the slopes of the landfill on November 5, 2016 and that the slopes were seeded on November 8, 2016. However, the MSW cover log did not indicate that corrective action had been taken on the landfill cover between the bubbling on the landfill cover being observed during the SEM investigation on November 10, 2016 and the time that no bubbling was observed on November 16, 2016. See the Summary of Investigation Findings for more on the cover log.

BRL has a system of misters for the purpose of neutralizing odors. The investigator viewed the misting system in operation. At the time of the investigation, work was being done to install a new vapor odor control system, but the vapor system was not operational at the time.

Description of Odor:

Odors typical of landfill garbage were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigator.

Description of the Terrain Features of the Area:

Terrain is flat with residences and businesses.

Location of the Source of the Odor:

The alleged source of the odor is BRL.

ODOR FIDO CHART EVALUATION:

According to the Frequency, Intensity, Duration, and Offensiveness (FIDO) protocol, the odor of landfill garbage is characterized as "offensive". As landfill odors were detected previously during an investigation conducted on October 31, 2016 (Investigation No. 1371383), the frequency of odors documented by the Waste Section investigator is a "monthly occurrence".

Physical Effects Experienced by the Investigator which are Indicative of Adverse Effects upon Health:

The investigator did not experience any physical effects during the investigation.

Normal use of Property Affected by the Odor and the Manner in which such Odor could Reasonably be Expected to Interfere with this Use:

According to FIDO protocol, a nuisance condition was not confirmed.

ADDITIONAL INFORMATION

The previously noted alleged violation for erosion of cover was resolved based on site conditions as observed by the investigator on November 16, 2016.

SUMMARY OF INVESTIGATION FINDINGS

OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted, and remains outstanding:

Site Operating Plan 4.18.5 / 30 Texas Administrative Code §330.121(a) – General (Category C3)

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

Bubbling on the landfill cover was observed during the Surface Emissions Monitoring Investigation conducted at Blue Ridge Landfill on November 10, 2016. During a November 16, 2016 on-site visit, the facility representative stated that additional soil had been applied to the landfill following the November 10, 2016 observation of bubbling. However, neither the date of detection of the issue nor the date of completion of repair were documented in the cover log.

BLUE RIDGE LANDFILL - FRESNO

11/16/2016 to 2/25/2017 Inv. # - 1376355

Page 5 of 6

Blue Ridge Landfill is requested to amend the November 2016 MSW cover log, and have the amendments signed by the Landfill Manager or his designee. To verify compliance, Blue Ridge Landfill is requested to submit the amended November 2016 MSW cover log to the TCEQ Houston Region Office, along with the supporting documentation that serves as a basis for the amendment.

OUTSTANDING ALLEGED VIOLATION(S)

Track Number: 633990

Compliance Due Date: To Be Determined

Violation Start Date: Unknown

30 TAC Chapter 330.121(a)

PERMIT 1505A, Site Operating Plan 4.18.5

Repairs will be documented in the cover log.

Alleged Violation:

Investigation: 1376757

Comment Date: 03/06/2017

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

Bubbling on the landfill cover was observed during the Surface Emissions Monitoring Investigation conducted at Blue Ridge Landfill on November 10, 2016. During a November 16, 2016 on-site visit, the facility representative stated that additional soil had been applied to the landfill following the November 10, 2016 observation of bubbling. However, neither the date of detection of the issue nor the date of completion of repair were documented in the cover log.

Investigation: 1376355

Comment Date: 03/30/2017

Compliance with this regulation was evaluated during the investigation conducted on November 16, 2016.

Recommended Corrective Action: Blue Ridge Landfill is requested to amend the November 2016 MSW cover log, and have the amendments signed by the Landfill Manager or his designee. To verify compliance, Blue Ridge Landfill is requested to submit the amended November 2016 MSW cover log to the TCEQ Houston Region Office, along with the supporting documentation that serves as a basis for the amendment.

Signed Richard Blacking
Environmental Investigator

Date 04/06/2017

Signed Alma L. Jefferson
Supervisor

Date 04/06/2017

Attachments: (in order of final report submittal)

☐ Enforcement Action Request (EAR)
☒ Letter to Facility (specify type): compliance request
☐ Investigation Report
☐ Sample Analysis Results
☐ Manifests
☐ Notice of Registration

☐ Maps, Plans, Sketches
☐ Photographs
☐ Correspondence from the facility
☒ Other (specify): See list of attachments

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Customer: Blue Ridge Landfill TX, LP
Customer Number: CN602820599

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

INFORMATION COPY
FOR R12 FILE ROOM

Investigation # 1377256

Incident Numbers

247572	247567
247592	247663
247686	247540
247594	247565
247675	247549
247544	247670
247546	247557
247509	247511
247591	247516
247586	247539
247672	247545
247517	247514
247541	247662
247560	247674
247668	247585

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 11/16/2016 -- 02/25/2017

NAIC Code: 562212

SIC Code: 4953

SIC Code: 1521

Program(s): MUNICIPAL SOLID WASTE DISPOSAL

Investigation Type: Data Maintenance File Review

Location: LOCATED ON 2200 FM 521

Additional ID(s): 1505A

Address: 2200 FM 521 RD,
FRESNO, TX , 77545

Local Unit:

Activity Type(s):

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

BLUE RIDGE LANDFILL - FRESNO

11/16/2016 to 2/25/2017 Inv. # - 1377256

Page 2 of 2

Role	Title	Name	Phone
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	LANDFILL OPERATIONS MANAGER	MR MATT MONTAGNA	Work (713) 676-7664
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669

Other Staff Member(s):

Role	Name
QA Reviewer	CARLOS GRIGGS
Supervisor	ALMA JEFFERSON

Associated Check ListChecklist NameUnit Name**Investigation Comments:**

This Data Maintenance File Review was created to associate additional incidents for Investigation No. 1376355.

No Violations Associated to this Investigation

Signed Richard Blalock
Environmental Investigator

Date 04/06/2017

Signed Alma L. Jefferson
Supervisor

Date 04/06/2017

Bryan W. Shaw, Ph.D., P.E., *Chairman*
Toby Baker, *Commissioner*
Jon Niermann, *Commissioner*
Richard A. Hyde, P.E., *Executive Director*



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

April 7, 2017

CERTIFIED MAIL #7014 0510 0001 2634 2286
RETURN RECEIPT REQUESTED

Mr. Burgess Stengl, Environmental Manager
Blue Ridge Landfill TX, LP
P.O. Box 879
Fresno, Texas 77545

Re: Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas 77545
TCEQ Municipal Solid Waste Permit No.: 1505A

Dear Mr. Stengl:

On November 16, 2016, Mr. Richard Blackney of the Texas Commission on Environmental Quality (TCEQ) Houston Region Office conducted an investigation of the above-referenced regulated entity to evaluate compliance with applicable requirements for municipal solid waste. Enclosed is a summary which lists the investigation findings.

By letter dated March 30, 2017, the TCEQ Houston Region Office requested that you submit information to us within 30 days of its receipt verifying that the outstanding alleged violation referenced in the enclosed summary has been corrected.

The TCEQ appreciates your assistance in this matter and looks forward to receiving your response. If you or members of your staff have any questions regarding these matters, please feel free to contact Mr. Blackney in the Houston Region Office at (713) 767-3718.

Sincerely,

A handwritten signature in cursive script that reads "Alma L. Jefferson".

Alma L. Jefferson, Team Leader
Waste Section
Houston Region Office

ALJ/RLB/rsv

Enclosure: Summary of Investigation Findings

cc: Mr. Matt Montagna, Operations Manager, 2200 FM 521, Fresno, TX 77545

SUMMARY OF INVESTIGATION FINDINGS

**Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on November 16, 2016**

OUTSTANDING ALLEGED VIOLATION

The following alleged violation was noted, and remains outstanding:

Site Operating Plan 4.18.5 / 30 Texas Administrative Code §330.121(a) – General

Repairs to cover are required to be documented in the cover log. The date of detection of erosion, or other repair issue, and the date of completion of repair (including any reasons for delays) will be included.

Bubbling on the landfill cover was observed during the Surface Emissions Monitoring Investigation conducted at Blue Ridge Landfill on November 10, 2016. During a November 16, 2016 on-site visit, the facility representative stated that additional soil had been applied to the landfill following the November 10, 2016 observation of bubbling. However, neither the date of detection of the issue nor the date of completion of repair were documented in the cover log.

Blue Ridge Landfill is requested to amend the November 2016 MSW cover log, and have the amendments signed by the Landfill Manager or his designee. To verify compliance, Blue Ridge Landfill is requested to submit the amended November 2016 MSW cover log to the TCEQ Houston Region Office, along with the supporting documentation that serves as a basis for the amendment.

Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on November 16, 2016

List of Attachments

Attachment 1	Central Registry Information for Blue Ridge Landfill
Attachment 2	Map of Odor Survey locations and Odor Logs
Attachment 3	November 2016 Cover Logs

ATTACHMENT 1

[Questions or Comments >>](#)[Query Home](#)[Customer Search](#)[RE Search](#)[ID Search](#)[Document Search](#)[TCEQ Home](#)

Central Registry Query - Regulated Entity Information

Regulated Entity Information

RN Number: RN102610102**Name:** BLUE RIDGE LANDFILL**Primary Business:** MUNICIPAL SOLID WASTE LANDFILL**Street Address:** 2200 FM 521 RD, FRESNO TX 77545 8214**County:** FORT BEND**Nearest City:** FRESNO**State:** TX**Near ZIP Code:** 77545**Physical Location:** LOCATED ON 2200 FM 521

Affiliated Customers - Current

Your Search Returned **5** Current Affiliation Records ([View Affiliation History](#))

The Customer Name displayed may be different than the Customer Name associated to the Additional IDs related to the customer. This name may be different due to ownership changes, legal name changes, or other administrative changes.

1-5 of 5 Records

CN Number ▲	Customer Name	Customer Role(s)	Details
CN600343826	BFI WASTE SYSTEMS OF NORTH AMERICA INC	OWNER OPERATOR	
CN601527963	BFI WASTE SERVICES OF TEXAS LP	OWNER	
CN601721657	LONGHORN EXCAVATORS INC	OPERATOR	
CN602820599	BLUE RIDGE LANDFILL TX LP	OWNER OPERATOR	
CN603713595	GRISHAM & JHA GROUP LLC	OPERATOR	

Industry Type Codes

Code	Classification	Name
562212	NAICS	Solid Waste Landfill
1521	SIC	General Contractors-Single-Family Houses
1629	SIC	Heavy Construction
1794	SIC	Excavation Work
4953	SIC	Refuse Systems

Permits, Registrations, or Other Authorizations

There are a total of **21** programs and IDs for this regulated entity. Click on a column name to change the sort order.

1-21 of 21 Records

Program ▲	ID Type	ID Number	ID Status

AIR EMISSIONS INVENTORY	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR NEW SOURCE PERMITS	AFS NUM	4815700111	ACTIVE
AIR NEW SOURCE PERMITS	REGISTRATION	32691	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	51882	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	55939	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77271	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	77703	CANCELLED
AIR NEW SOURCE PERMITS	REGISTRATION	81004	ACTIVE
AIR OPERATING PERMITS	ACCOUNT NUMBER	FG0536E	ACTIVE
AIR OPERATING PERMITS	PERMIT	1472	ACTIVE
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	ACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505A	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE
PETROLEUM STORAGE TANK STAGE II			
STORMWATER	PERMIT	TXR05N415	CANCELLED
STORMWATER	PERMIT	TXR05S302	ACTIVE
STORMWATER	PERMIT	TXR15NZ96	CANCELLED
STORMWATER	PERMIT	TXR15QJ54	EXPIRED
STORMWATER	PERMIT	TXR15RD60	EXPIRED

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ATTACHMENT 2


**TEXAS COMMISSION
ON ENVIRONMENTAL QUALITY**
[Air Quality Maps](#) [Data Reports](#) [AutoQC](#) [Water Data](#) [Site Info](#)

Manvel Croix Park C84 Data by Site by Date (all parameters)

Use this form to retrieve hourly data collected at Manvel Croix Park C84. Although this is the most current data, it is not considered official until it has been certified by the technical staff. This information is updated hourly.

This web page provides the most current hourly averaged data available. Our convention for time-tagging data is the beginning of each hour. For example, values shown for the noon hour are based on measurements taken from noon to 1:00 p.m. The noon average will not be calculated until after 1:00 p.m. The noon average will then be available on our external server from 1:15 p.m. to 1:30 p.m. This results in an apparent one-hour time lag in the data. We also present our data in Local Standard Time for each measuring site. For most of Texas this is Central Standard Time. During Daylight Savings, this introduces another apparent one-hour time lag in the data.

Use the controls below to select a different date or time format. Click on the Generate Report button once you have made your selections.

Click on the Plot Data button once the tabular report has been generated to open a separate window containing data plots.

CAMS 84 Manvel Croix Park C84 [Select a different site](#)

Month: Day: Year: Time Format:

November 16 2016 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

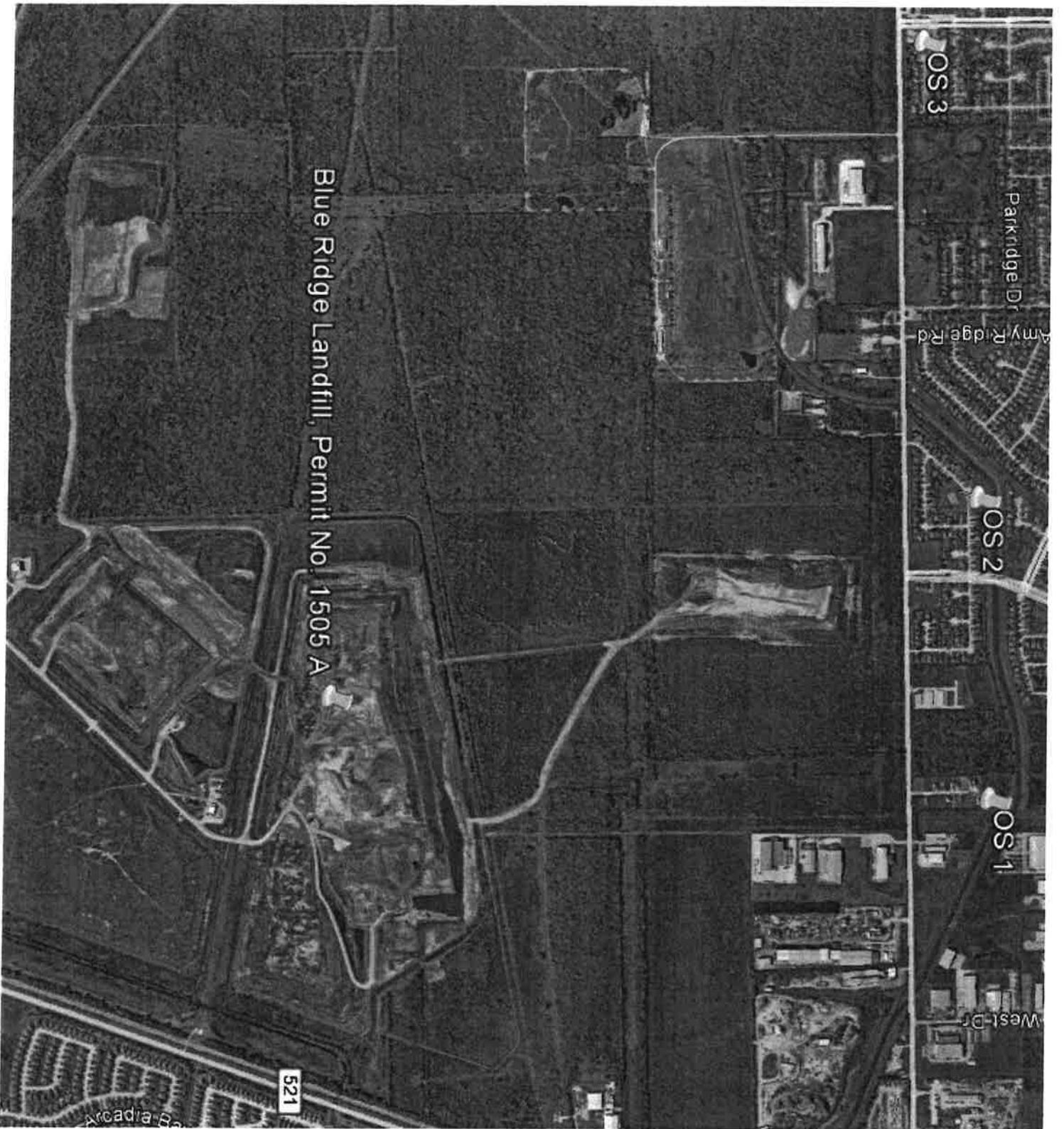
Green underline for validated data

The table below contains hourly averages for all the pollutants and meteorological conditions measured at Manvel Croix Park C84 for **Wednesday, November 16, 2016**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												Parameter Measured	
	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00		
Nitric Oxide	8.8	11.2	28.2	32.3	18.3	21.0	<u>49.1</u>	17.3	6.1	9.5	QAS	QAS	QAS	QAS	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.2	0.4	Nitric Oxide	
Nitrogen Dioxide	25.7	21.9	12.9	12.5	15.1	15.8	18.0	10.6	14.9	23.2	QAS	QAS	QAS	QAS	3.1	4.7	6.0	11.3	14.5	11.8	12.3	9.7	6.5	5.4	Nitrogen Dioxide	
Oxides of Nitrogen	34.5	33.2	41.3	44.9	33.5	36.9	<u>67.3</u>	27.9	21.0	32.8	QAS	QAS	QAS	QAS	3.7	5.3	6.6	11.9	15.0	12.3	12.8	10.2	6.8	5.9	Oxides of Nitrogen	
Ozone	0	0	0	0	0	0	0	1	15	21	QAS	QAS	58	PMA	59	60	<u>61</u>	49	41	38	30	28	28	29	Ozone	
Wind Speed	1.0	1.2	2.1	1.9	1.0	1.5	1.9	1.1	1.1	2.9	QAS	QAS	QAS	7.6	9.7	11.5	10.5	6.4	4.8	3.7	3.3	3.7	4.6	2.8	Wind Speed	
Resultant Wind Speed	0.9	1.0	2.1	1.8	0.7	1.2	0.8	1.0	0.7	2.6	QAS	QAS	QAS	7.1	9.3	11.2	10.3	6.3	4.8	3.7	3.3	3.6	4.6	2.7	Resultant Wind Speed	
Resultant Wind Direction	207	217	180	198	190	143	249	<u>267</u>	149	179	QAS	QAS	QAS	160	150	152	153	147	143	137	139	142	132	125	Resultant Wind Direction	
Maximum Wind Gust	1.8	2.4	3.1	3.0	2.2	3.1	5.5	2.4	2.8	6.3	QAS	QAS	QAS	13.8	17.2	17.9	17.0	11.0	7.8	6.1	5.2	6.9	7.3	5.8	Maximum Wind Gust	
Std. Dev. Wind Direction	32	32	7	15	40	31	<u>60</u>	28	50	27	QAS	QAS	QAS	21	17	13	10	8	9	8	8	11	10	12	Std. Dev. Wind Direction	
Outdoor Temperature	59.6	58.8	57.6	57.7	57.4	57.7	56.8	57.2	63.2	70.4	QAS	QAS	QAS	81.7	81.4	79.6	76.5	72.1	68.5	66.2	64.6	63.6	63.1	63.0	Outdoor Temperature	
Parameter Measured	Mid	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Noon	1:00	2:00	3:00	4:00	5:00	6:00	7:00	8:00	9:00	10:00	11:00	Parameter Measured	
Morning													Afternoon													
x.xx Indicates the data has been validated.																										
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																										
R - Data from this instrument meets EPA quality assurance criteria for regulatory purposes.																										

PLEASE NOTE: This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is updated hourly. All times shown are in local standard time unless otherwise indicated.

Following EPA reporting guidelines, negative values may be displayed in our hourly criteria air quality data beginning 1/1/2013, down to the negative of the EPA listed Method Detection Limit (MDL) for the particular instrument that made the measurements. The reported concentrations can be negative due to zero drift in the electronic instrument output, data logger channel, or calibration adjustments to the data. Prior to 1/1/2013, slightly negative values were automatically set to zero.



OS 1

16600 block of Sidonie

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 11-16-16 Start Time: 12:55

Minutes	Odor Intensity VL, L, M, S, VS
1 min	no odor
2	" "
3	" "
4	" "
5	" "
6	" "
7	VL
8	no odor
9	no odor
10	
11	
12	
13	
14	
15	
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	no odor
56	" "
57	" "
58	" "
59	" "
60	" "

Offensiveness: Highly _____ Offensive X Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

	VS	S	M	L	VL	No Odor
1 Min					<u>X</u>	
10 Min					<u>X</u>	
1 Hour						

OS2

~~16600~~ block of Ripple Ridge

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 11-16-16 Start Time: 1:14

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
14	no odor
15	" "
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	
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42	
43	
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58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

053

McHardy Rd S Post Oak Rd

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: _____ Start Time: 1:32

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
10	
11	
12	
13	
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27	
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29	
30	

Minutes	Odor Intensity VL, L, M, S, VS
31 min	
32	no odor
33	" "
34	" "
35	" "
36	" "
37	" "
38	" "
39	" "
40	" "
41	" "
42	" "
43	" "
44	" "
45	" "
46	" "
47	
48	
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59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

ATTACHMENT 3

Daily Cover										Approved Alternate Daily Cover										Elevation		Inspection Date of Daily Cover ¹		Erosion or Leachate Seep Detected		Corrective Action ²		Soil Stockpile Required ³ (yd ³)		Rain (inches)		Rain (inches) ≥ 0.5"		Intermediate Cover				Final Cover				Inspection Date of Intermediate & Final Cover ⁴		Erosion ≥ 4" Detected		Date Erosion Corrected ⁵		Corrective Action ⁶		Final Cover Certification Report Reference		Month / Year		Supervisor Signature ⁷																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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AMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

T = Thickness in inches

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Inspect areas with daily cover or alternate daily cover each day the site is in operation and areas with intermediate and final cover weekly or within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form.

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 5 days of detection unless approved by TCEQ Regional Office. If not corrected within 5 days, attach documentation stating reasons for delay

Corrective Action: R = Restoring cover material; G = Grading, M = Compacting; S = Seeding

SOP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft. of the working face. The amount of soil required is dependent upon the maximum anticipated size of the working face. A 50 yd³ soil stockpile is required within 100ft of the Regulated Asbestos-Containing Material (RACM) disposal area. Signature certifies work accomplished as stated in the Cover Application Log.

Third Party Re-inspection Reviewing Phase 3 During November 2016

Third Party Playing Clay and Slope 3 Intermediate Court

Yarded Slopes on Phase 3

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REPUBLIC
SERVICES

AMT = Amount of cover (soil) in yd^2 or alternate daily cover in bags or tarp area

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

Methods: A = Tarp Machine, B = Soil by Heavy Equipment, S = Spray-On

inspect areas with daily cover or alternate daily cover each day the site is

Erosion of daily cover must be corrected within 24 hours after the area is accessible. Erosion of intermediate or final cover must be corrected within 72 hours of a rainfall event of 0.5" or more. Inspect all areas in accordance with Site Operating Plan Section 4.18. Additional documentation area on back of form

Corrective Action; R = Restoring cover material; G = Grading; M = Compaction; S = Seeding
 * If the cause of the problem is not obvious, please call the TCEQ Regional Office for assistance.
 * If the problem is not corrected within 5 days, attach documentation stating reasons for delay.

OP Section 7.74 requires a soil stockpile to be maintained within 1,000 ft of the working face. The amount of soil stockpiled at the

signature certifies work accomplished as stated in the Cover Application. I, _____, certify that the above information is true and correct to the best of my knowledge and belief. The amount of soil required is dependent upon the maximum alclad size of the working face. A 50-yd³ soil pile is required within 100 ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

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