

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



TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

July 31, 2019

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

Re: Investigation Request at:
Blue Ridge Landfill, 2200 FM 521 Rd., Fresno (Fort Bend County), Texas
TCEQ MSW Permit No.: 1505A
Investigation No.: 1579097

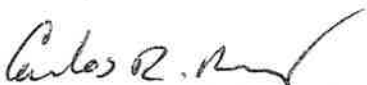
Dear Mr. Telepak:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on June 28, 2019 and July 1, 6, 7 and 8, 2019, requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Naomi Hall, Ms. Eresha DeSilva and Ms. Nadine Balmaceda of this office conducted an investigation on July 8, 2019. No violations are being alleged as a result of the investigation.

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 assistance in this matter and your interest in protecting the quality of our environment. If you have any questions concerning these findings, or if we can be of further assistance, please contact Ms. Naomi Hall at this office (713) 767-3702.

Sincerely,


Carlos R. Romo, Team Leader
Waste Section
Houston Region Office

CRR/NGH/na

MSW PA_1505A_CP_20190708_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: Blue Ridge Landfill TX, LP
Customer Number: CN602820599

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1579097

Incident Numbers

315711	315724
313499	315706
313367	315713
313490	315707
315722	313368
315716	314672
315708	313500
313498	313493
314664	315704
314675	313503
315709	313489
315723	314679
314607	314668

Investigator: NAOMI HALL

Site Classification

Conducted: 07/08/2019 -- 07/08/2019

NAIC Code: 562212

NAIC Code: 486210

SIC Code: 1521

SIC Code: 4922

SIC Code: 4953

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

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

BLUE RIDGE LANDFILL - FRESNO

7/8/2019 Inv. # - 1579097

Page 2 of 4

Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL MANAGER	MR TIM TELEPAK	Work (281) 835-6142
PARTICIPATED IN	OPERATIONS MANAGER	ZACHARY PEDERSON	
PARTICIPATED IN	DIVISION MANAGER	CLINT DICKERSON	Phone (817) 354-2311

Other Staff Member(s):

Role	Name
QA Reviewer	NADINE BALMACEDA
Investigator	ERESHA DESILVA
Investigator	NADINE BALMACEDA
Supervisor	CARLOS ROMO

Associated Check List

<u>Checklist Name</u>	<u>Unit Name</u>
MSW COMPLAINT INVESTIGATION	1505A

Investigation Comments:**INTRODUCTION**

On June 28, 2019, July 1, 6, 7, & 8, 2019, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 26 complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521 Road, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on June 27, 28, 29, and 30, 2019; and July 6, 7, and 8, 2019.

On July 8, 2019, Ms. Eresha DeSilva and Ms. Nadine Balmaceda, Environmental Investigators of the TCEQ Houston Region Office Waste Section, conducted an odor survey of the area surrounding the landfill. On July 8, 2019, Ms. Naomi Hall, Environmental Investigator, Ms. DeSilva and Ms. Balmaceda conducted an unannounced on-site Odor Complaint Investigation at Blue Ridge Landfill.

BACKGROUND

A Notice of Enforcement was issued to BRL on October 21, 2016 for failure to prevent nuisance odor conditions. On July 12, 2017, Agreed Order Docket No. 2016-1923-AIR-E was signed by the TCEQ. By letter dated April 10, 2018, the TCEQ Enforcement Division approved BRL Odor Control Plan, thus requiring BRL to implement all provisions of the plan in accordance with the approved schedule.

GENERAL FACILITY AND PROCESS INFORMATION

BRL is a Type I landfill which is authorized to operate by TCEQ Municipal Solid Waste (MSW) Permit No. 1505A.

The landfill is authorized to dispose of MSW including household solid waste, commercial solid waste, construction and demolition waste, and yard waste; Class 1, Class 2, and Class 3 non-hazardous industrial solid waste; and certain special wastes. Liquid waste will be accepted at the Liquid Waste Bulking Facility for stabilization and subsequent disposal. BRL may not accept regulated hazardous waste, prohibited polychlorinated biphenyls, or untreated medical waste.

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

Complainant Information:

TCEQ Incident Nos. 313489, 313490, 313493, 313498, 313499, 313500, 313503, 313367, 313368; 314664, 314672, 314675, 314668, 314679; 314607, 315704, 315706, 315707, 315708, 315709, 315711, 315713, 315716, 315722, 315723, and 315724.

Description of Alleged Effects:

Nausea/ sick feeling, eyes and nose irritation, and headache symptoms were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: July 8, 2019

Wind Direction: south-southwest

Wind Speed: average 12.0 mph

Outdoor Temperature: 93 °F

Meteorological data taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station (Attachment 1).

Odor Survey (OS):

Ms. DeSilva conducted OS point No. 3 at 8:00 a.m., located at the 2400 block of Lost Bridge Lane in Pearland. Meteorological data indicated a southwest wind direction downwind of BRL. Garbage/ waste odors were intermittently detected during three (3) of the 60 minutes spent at OS No. 3, with a weighted average of a very light intensity.

Ms. Balmaceda conducted OS point No. 2 at 8:05 a.m., located near the intersection of Vintage View Lane and Shadow Grove Lane in Pearland. Meteorological data indicated a southwest wind direction crosswind of BRL. No odors were detected during the 60 minutes spent at OS No. 2.

Ms. DeSilva conducted OS point No. 5 at 9:07 a.m., located at the 1900 block of Cayman Bend Lane in Pearland. Meteorological data indicated a southwest wind direction downwind of BRL. Garbage/ waste odors were intermittently detected during 15 the 60 minutes spent at OS No. 5, with a weighted average of a very light intensity.

Ms. Balmaceda conducted OS point No. 4, at 9:10 a.m., located near the intersection of Trinity Bay Drive and Biscayne Bay Drive in Pearland. Meteorological data indicated a southwest wind direction downwind of BRL. No odors were detected during the 60 minutes spent at OS No. 4.

Ms. DeSilva and Ms. Balmaceda conducted OS point No. 1 at 10:25 a.m. located near the intersection of 16800 Amy Ridge Road and 4900 Lazy Ridge Drive in Houston. Meteorological data indicated a southwest wind direction during the 60 minutes timeframe at this location, which is crosswind of BRL. No odors were detected during the 60 minutes spent at OS No. 1.

An aerial view map of the OS location and the OS log are included in Attachment 1.

Summary of the on-site investigation:

On July 8, 2019, Ms. Hall, Ms. DeSilva and Ms. Balmaceda arrived at BRL and met with Mr. Tim Telepak, Environmental Manager, Mr. Clint Dickerson, Division Manager, and Mr. Zachary Pedersen, Operations Manager, to whom the purpose and scope of the investigation were explained.

During the investigation, the BRL facility representatives drove the investigators to the MSW working face and the Class 1 working face. The investigators observed normal landfill operations in progress. A daily cover of soil is required to limit the amount of refuse exposed to the ambient air. Piles of soil were observed at each working face. The investigators obtained a copy of the MSW and Class 1 cover logs for the time period of June 1 to 30, 2019, and July 1 through 6, 2019 (Attachment 2). The cover logs indicate that six (6) inches of soil was applied at the end of each operating day to the Class 1 working face and MSW working face as required. The investigators observed the solidification pit area and noted that the pits were covered, and no materials were being added, mixed or removed from the units at the time of the investigation. The odor control/odor neutralizing systems located at the MSW working face, Class 1 working face and the solidification pit were observed in operation.

Description of Odor:

Garbage, waste odors were detected during the odor survey.

Description of the Effects on the Investigator:

No health effects were experienced by the investigators.

Description of the Terrain Features of the Area:
Terrain is flat with residences and businesses.

Location of the Source of the Odor:

While off-site, the investigator detected garbage/ waste odors downwind of BRL at OS No. 3; and garbage/ waste odors were detected downwind of BRL at OS No. 5.

Odor Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:

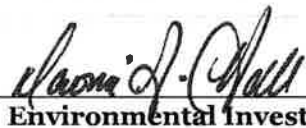
The TCEQ Odor Complaint Investigation Procedures FIDO Chart is a method used to provide consistent nuisance determinations and assist in description of odors. The character of an odor is a unique, innate quality of an odor that does not vary with intensity. The FIDO chart characterizes the odor of landfill garbage/waste as "offensive." Landfill garbage/waste odors from BRL were previously detected on June 6, 2019. The frequency of odors as documented during the investigation is a monthly occurrence.

CONCLUSION

During the survey, odors were detected in the area, but not of sufficient frequency, intensity, duration and offensiveness to confirm a nuisance condition. As a result of the investigation conducted on July 8, 2019, a nuisance condition was not confirmed.

No Violations Associated to this Investigation

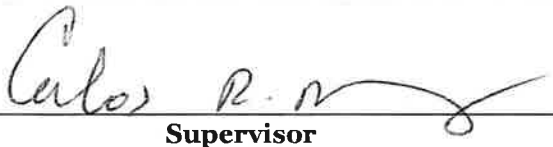
Signed


Environmental Investigator

Date

7/31/2019

Signed


Supervisor

Date

7/31/2019

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

✓ Other (specify) :

2 - Attachments

**Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on July 8, 2019**

List of Attachments

- Attachment 1:** Meteorological Information, Map of Odor Survey locations, Odor Odor Logs
- Attachment 2:** Cover Logs for June 1 - 30, 2019 & July 1 - 6, 2019

ATTACHMENT 1

[Questions or Comments >>](#)[TCEQ Home](#)[Air Quality Maps](#)[Data Reports](#)[AutoGC](#)[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.

Find Site: CAMS AQS Description
 CAMS 84 Manvel Croix Park C84 ▼ Select a different site

Month: Day: Year: Time Format:

July ▼ 8 ▼ 2019 ▼ 24 Hour ▼

☒ 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 **Monday, July 8, 2019**. All times shown are in CST.

Parameter Measured	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700
Nitric Oxide	-0.1	0.0	0.4	-0.1	-0.2	0.3	<u>8.8</u>	1.6	-0.1	-0.2	-0.2	<u>-0.3</u>	-0.1	-0.2	-0.1	-0.1	0.2	0.2
Nitrogen Dioxide	3.2	3.5	3.6	3.7	2.9	3.4	<u>6.3</u>	3.1	<u>0.8</u>	1.1	0.9	1.1	1.1	0.9	1.0	1.4	2.6	2.4
Oxides of Nitrogen	3.1	3.5	3.9	3.6	2.7	3.6	<u>15.0</u>	4.7	0.8	0.9	<u>0.7</u>	0.7	1.0	0.7	0.9	1.3	2.8	2.6
Ozone	13	11	<u>10</u>	11	13	11	10	17	20	23	26	28	<u>30</u>	30	24	22	20	17
Wind Speed	2.0	1.6	1.5	1.8	2.2	<u>1.3</u>	1.9	4.6	5.0	5.4	6.4	4.7	4.8	5.6	5.7	7.1	6.7	6.9
Resultant Wind Speed	2.0	1.6	1.4	1.7	2.1	<u>1.3</u>	1.8	4.3	4.5	4.9	5.7	4.1	4.3	5.0	4.8	6.8	6.5	6.6
Resultant Wind Direction	181	166	150	201	<u>226</u>	175	205	211	225	216	207	223	195	203	192	166	<u>139</u>	170
Maximum Wind Gust	4.1	2.9	<u>2.5</u>	3.5	3.7	2.5	5.5	9.9	10.6	13.0	13.0	11.4	10.9	12.7	12.8	<u>17.6</u>	16.0	13.4
Std. Dev. Wind Direction	15	12	16	20	17	15	21	20	23	24	26	30	27	27	<u>31</u>	16	16	17
Outdoor Temperature	78.4	77.4	76.9	<u>76.7</u>	76.8	76.8	81.0	87.9	90.5	93.0	95.4	97.1	97.4	99.1	<u>101.5</u>	93.1	88.9	91.4
Parameter Measured	0000	0100	0200	0300	0400	0500	0600	0700	0800	0900	1000	1100	1200	1300	1400	1500	1600	1700
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.																		

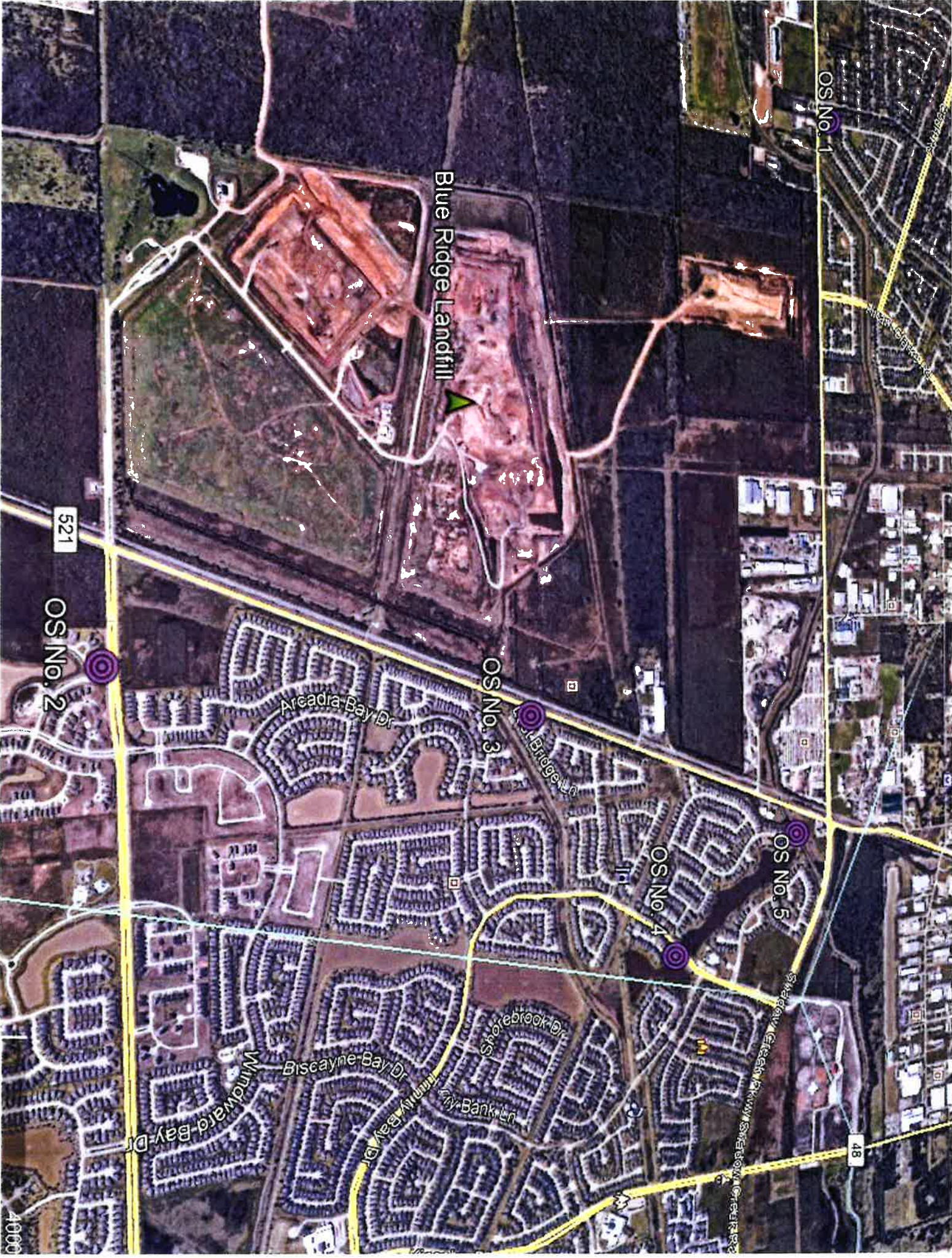
PLEASE NOTE: This data has not been verified by the TCEQ and may change. This is the most current data, but it is not official until it has been certified by our technical staff. Data is collected from TCEQ ambient monitoring sites and may include data collected by other outside agencies. This data is 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, 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.

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Last Modified Tuesday, 30 Jan 2018



OS No. 1

Blue Ridge Landfill

OS No. 3

St. Bridge Ln

OS No. 4

OS No. 5

Arcadia Bay Dr

Biscayne Bay Dr

Shorebrook Dr

City Bank Ln

Windward Bay Dr

521

OS No. 2

48

4000

Supplemental Investigator's Odor Intensity Time Log

Investigator: Eresha DeSilva
Date of Investigation: 7/8/2019

Location: 2417 Lost Bridge Lane
Start Time: 8:00 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	No Odor
4	VL
5	No Odor
6	No Odor
7	No Odor
8	No Odor
9	No Odor
10	No Odor
11	No Odor
12	VL
13	No Odor
14	No Odor
15	No Odor
16	No Odor
17	No Odor
18	No Odor
19	No Odor
20	No Odor
21	No Odor
22	No Odor
23	No Odor
24	No Odor
25	No Odor
26	No Odor
27	No Odor
28	No Odor
29	No Odor
30	VL

Minutes	Odor Intensity VL, L, M, S, VS
31 min	No Odor
32	No Odor
33	No Odor
34	No Odor
35	No Odor
36	No Odor
37	No Odor
38	No Odor
39	No Odor
40	No Odor
41	No Odor
42	No Odor
43	No Odor
44	No Odor
45	No Odor
46	No Odor
47	No Odor
48	No Odor
49	No Odor
50	No Odor
51	No Odor
52	No Odor
53	No Odor
54	No Odor
55	No Odor
56	No Odor
57	No Odor
58	No Odor
59	No Odor
60	No Odor

Odor Description: landfill garbage/waste

Offensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Supplemental Investigator's Odor Intensity Time Log

05-2



Investigator: N. Balmaeda Location: Vintage View lane, 7 Shadow Grove lane

Date of Investigation: 07.08.19

Start Time: 8:05 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No odor
2	No odor
3	No odor
4	No odor
5	No odor
6	No odor
7	No odor
8	No odor
9	No odor
10	No odor
11	No odor
12	No odor
13	No odor
14	No odor
15	No odor
16	No odor
17	No odor
18	No odor
19	No odor
20	No odor
21	No odor
22	No odor
23	No odor
24	No odor
25	No odor
26	No odor
27	No odor
28	No odor
29	No odor
30	No odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	No odor
32	No odor
33	No odor
34	No odor
35	No odor
36	No odor
37	No odor
38	No odor
39	No odor
40	No odor
41	No odor
42	No odor
43	No odor
44	No odor
45	No odor
46	No odor
47	No odor
48	No odor
49	No odor
50	No odor
51	No odor
52	No odor
53	No odor
54	No odor
55	No odor
56	No odor
57	No odor
58	No odor
59	No odor
60	No odor

Odor Description: No odors detected

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Dominant Odor Intensity For:

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

05-6



Supplemental Investigator's Odor Intensity Time Log

Investigator: Eresha DeSilvaLocation: 1905 Caymen Bend Ln. ~~(1000)~~Date of Investigation: 7/8/2019Start Time: 9:07 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	L
4	No Odor
5	No Odor
6	M
7	S
8	VL
9	No Odor
10	No Odor
11	No Odor
12	No Odor
13	No Odor
14	No Odor
15	No Odor
16	No Odor
17	No Odor
18	No Odor
19	No Odor
20	No Odor
21	No Odor
22	No Odor
23	No Odor
24	No Odor
25	No Odor
26	No Odor
27	No Odor
28	L
29	No odor
30	No Odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	M
32	M
33	L
34	L
35	No Odor
36	VL
37	M
38	L
39	VL
40	No Odor
41	No Odor
42	No Odor
43	No Odor
44	No Odor
45	No Odor
46	No Odor
47	No Odor
48	No Odor
49	VL
50	VL
51	No Odor
52	No Odor
53	No Odor
54	No Odor
55	No Odor
56	No Odor
57	No Odor
58	No Odor
59	No Odor
60	No Odor


(225 deg)
Wind
Dir =
SW
(30°C)
90°F
5.0 mph

Odor Description: landfill garbage/wasteOffensiveness: Highly _____ Offensive ☒ Unpleasant _____ Not Unpleasant _____Weighted Average Intensity: 0.52

	VS	S	M	L	VL	No Odor
1 Min						
10 Min						
1 Hour		I = 1	IIII = 4	IIII = 5	IIII = 5	45 min.

weighted avg.
[4(1)+3(4)+2(5)+1(5)]/60
0.52

Supplemental Investigator's Odor Intensity Time Log

OS-4 

Investigator: N. Belmaceda Location: Trinity Bay drive & Biscayne Bay Drive

Date of Investigation: 07.08.19

Start Time: 9:10 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	NO odor
2	NO odor
3	NO odor
4	NO odor
5	NO odor
6	NO odor
7	NO odor
8	NO odor
9	NO odor
10	NO odor
11	NO odor
12	NO odor
13	NO odor
14	NO odor
15	NO odor
16	NO odor
17	NO odor
18	NO odor
19	NO odor
20	NO odor
21	NO odor
22	NO odor
23	NO odor
24	NO odor
25	NO odor
26	NO odor
27	NO odor
28	NO odor
29	NO odor
30	NO odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	NO odor
32	NO odor
33	NO odor
34	NO odor
35	NO odor
36	NO odor
37	NO odor
38	NO odor
39	NO odor
40	NO odor
41	NO odor
42	NO odor
43	NO odor
44	NO odor
45	NO odor
46	NO odor
47	NO odor
48	NO odor
49	NO odor
50	NO odor
51	NO odor
52	NO odor
53	NO odor
54	NO odor
55	NO odor
56	NO odor
57	NO odor
58	NO odor
59	NO odor
60	NO odor

Odor Description: NO odors detected

Offensiveness: Highly Offensive Unpleasant Not Unpleasant

Dominant Odor Intensity For:

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

OS-1

Supplemental Investigator's Odor Intensity Time Log

Investigator: Fresha DeSilva
Nadine Balmaceda
 Date of Investigation: 7/8/2019

Location: block of 4900 block of 11800
Lazy Ridge + Amy Ridge (OS No. 1)
 Start Time: 10:25 AM

Minutes	Odor Intensity VL, L, M, S, VS
1 min	No Odor
2	No Odor
3	No Odor
4	No Odor
5	No Odor
6	No Odor
7	No Odor
8	No Odor
9	No Odor
10	No Odor
11	No Odor
12	No Odor
13	No Odor
14	No Odor
15	No Odor
16	No Odor
17	No Odor
18	No Odor
19	No Odor
20	No Odor
21	No Odor
22	No Odor
23	No Odor
24	No Odor
25	No Odor
26	No Odor
27	No Odor
28	No Odor
29	No Odor
30	No Odor

Minutes	Odor Intensity VL, L, M, S, VS
31 min	No Odor
32	No Odor
33	No Odor
34	No Odor
35	No Odor
36	No Odor
37	No Odor
38	No Odor
39	No Odor
40	No Odor
41	No Odor
42	No Odor
43	No Odor
44	No Odor
45	No Odor
46	No Odor
47	No Odor
48	No Odor
49	No Odor
50	No Odor
51	No Odor
52	No Odor
53	No Odor
54	No Odor
55	No Odor
56	No Odor
57	No Odor
58	No Odor
59	No Odor
60	No Odor

Odor Description: None

Offensiveness: Highly _____ Offensive ✓ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

Naomi Hall

From: Heather Wylie
Sent: Monday, July 8, 2019 9:23 AM
To: R12COMP
Cc: Weslee Copeland; Melanie Hotchkiss; Heather Wylie
Subject: Pearland Weather Forecast for Mon 7/8 - Sun 7/14
Attachments: Sfc Inversion KHOU-20190708_06Z.xlsx

Follow Up Flag: Follow up
Flag Status: Flagged

Good morning,

Here is the weather forecast for Monday 07/08/2019 – Sunday 07/14/2019. An updated forecast will be provided on Thursday 07/11/2019.

Mon 7/8

- Highs in the mid-90s; SW winds at 5-10 mph; mostly sunny skies; slight chance for daytime thundershower or two.
- No inversion expected.

Tue 7/9

- Lows in the upper 70s, highs in the mid-90s; SW winds at 5-10 mph becoming S in the afternoon; mostly sunny skies; no precipitation expected.
- No inversion expected.

Wed 7/10

- Lows in the mid-70s, highs in the mid-90s; light SW winds <5 mph becoming S at 5-10 mph in the late afternoon; mostly sunny skies; no precipitation expected.
- No inversion expected.

Thu 7/11

- Lows in the upper 70s, highs in the mid-90s; winds NW around 5 mph in the morning, shifting NE and becoming light (<5 mph) in the afternoon; skies partly sunny; chances for showers and thunderstorms in the latter half of the day.
- No inversion expected.

Fri 7/12

- Lows in the around 80, highs in the mid-90s; winds N to NE at 5-10 mph; skies partly sunny; ongoing chances for showers and thunderstorms.
- No inversion expected.

Sat 7/13

- Lows in the upper 70s, highs in the lower 90s; winds NE around 10 mph, decreasing in speeds through the afternoon and shifting in the early evening to become light out of the SW; skies mostly cloudy; showers and thunderstorms likely.
- No inversion expected.

Sun 7/14

- Lows in the upper 70s, highs in the lower 90s; S winds around 10 mph; skies mostly cloudy; ongoing chances for showers and thunderstorms.
- No inversion expected.

Synopsis: The forecast period will start relatively quiet, with the main story this week will being the possibility for tropical development in the gulf towards the weekend. However, this will be associated with moderate winds and good chances for showers and thunderstorms which will preclude the opportunity for odor/air stagnation.

Please see the attached excel spreadsheet for additional information. On the "inversion" tab, if the green line dips below the red (zero) line, an inversion should be present. Please see the "Wind" tab for detailed information regarding wind speed and direction. Please note this data is derived from the GFS model run for KHOU.

Heather K. Wylie

Meteorologist

Data Management Section | Monitoring Division
Texas Commission on Environmental Quality
(512) 239-1624

ATTACHMENT 2

Daily Cover		Approved Alternate Daily Cover		Elevation MSL	Inspection Date of Only Cover ¹	Erosion or Leakage Detected ²	Date Erosion or Leakage Corrected ²	Corrective Action ³	Soil Stability Required ⁴ (yd ³)	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Intermediate Cover 12" Soil		Final Cover Per Final Closure Plan		Inspection Date of Intermediate & Final Cover ⁵	Erosion ≥ 4"	Date Erosion Corrected ⁶	Corrective Action ⁷	Final Cover Certification Report Reference	Supervisor Signature ⁸
AMT ¹	Grid Area T ²	Method ²	Grid Area T ²									AMT ⁴	Grid Area T ⁴	Method ⁴	Grid Area T ⁴						
1	750	6" B	—	100-101	✓	✓	—	—	—	0.64	✓	—	—	—	—	✓	✓	—	—	—	—
2	750	6" B	—	82-90	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3	750	6" B	—	90-97	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4	500	6" B	—	97-102	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	750	6" B	—	102-110	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	500	6" B	—	82-86	✓	✓	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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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 100 ft of the Regulated Asbestos-Containing Material (RACM) disposal area.

Signature certifies work accomplished as stated in the Cover Application Log.

Class 1

Month / Year: July 2019

Daily Cover	Approved Alternate Daily Cover				Elevation MSL	Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected ²	Corrective Action ³	Soil Stockpile Required ⁴ (yd ³)	Rain (inches) ≥ 0.5"	Intermediate Cover			Final Cover			Corrective Action ⁵	Erosion 2-4" Detected	Late Erosion Corrected ⁶	Final Cover Certification Report Reference	Supervisor Signature ⁷
	AMT ¹	Grid Area	T ²	Method ²							AMT ¹	Grid Area	T ²	Method ²	Grid Area	T ²					
1	500	B-31	6"	B	60'	✓															
2	500	C-31	6"	B	57'	✓															
3	500	C-31	6"	B	60'	✓															
4	500	C-30	6"	B	56'	✓															
5	500	C-30	6"	B	60'	✓															
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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 7.7.4 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

Month / Year: JUNE 2017

Daily Cover		Approved Alternative Daily Cover				Elevation	Inspection Date of Daily Cover ¹	Erosion or Leachate Seep Detected	Corrective Action ²	Soil Stockpile Required (yd) ³	Rain (inches) 2.0 S ⁴	Intermediate Cover				Final Cover			Inspection Date of Intermediate Cover ⁵	Erosion or Leachate Seep Detected	Corrective Action ²	Final Cover Certification Report Reference	Supervisor Signature ⁶	
AMT ¹	Grid Area	T ²	Method ³	Grid Area	T ²	Method ³	MSL	Yes/No	Yes/No	Yes/No	Yes/No	Grid Area	T ²	Method ³	Grid Area	T ²	Method ³	Grid Area	T ²	Method ³	Yes/No	Yes/No	Yes/No	
1	500	50-58	B	-	-	-	116-118	✓												✓				<i>[Signature]</i>
2																								
3	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
4	750	50-58	B	-	-	-	90-98	✓																<i>[Signature]</i>
5	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
6	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
7	750	50-58	B	-	-	-	90-98	✓																<i>[Signature]</i>
8	500	50-58	B	-	-	-	90-92	✓																<i>[Signature]</i>
9																								
10	750	50-58	B	-	-	-	102-110	✓																<i>[Signature]</i>
11	750	50-58	B	-	-	-	110-118	✓																<i>[Signature]</i>
12	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
13	750	50-58	B	-	-	-	90-98	✓																<i>[Signature]</i>
14	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
15	500	50-58	B	-	-	-	90-92	✓																<i>[Signature]</i>
16																								
17	750	50-58	B	-	-	-	92-97	✓																<i>[Signature]</i>
18	750	50-58	B	-	-	-	97-105	✓																<i>[Signature]</i>
19	750	50-58	B	-	-	-	105-110	✓																<i>[Signature]</i>
20	750	50-58	B	-	-	-	85-92	✓																<i>[Signature]</i>
21	750	50-58	B	-	-	-	92-100	✓																<i>[Signature]</i>
22	500	50-58	B	-	-	-	100-104	✓																<i>[Signature]</i>
23																								
24	750	50-58	B	-	-	-	82-90	✓																<i>[Signature]</i>
25	750	50-58	B	-	-	-	90-98	✓																<i>[Signature]</i>
26	750	50-58	B	-	-	-	98-105	✓																<i>[Signature]</i>
27	750	50-58	B	-	-	-	105-112	✓																<i>[Signature]</i>
28	750	50-58	B	-	-	-	85-92	✓																<i>[Signature]</i>
29	500	50-58	B	-	-	-	92-98	✓																<i>[Signature]</i>
30																								
31																								

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 collection 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 allocated size of the working face. A 50 yd³ soil stockpile is required within 100 ft of the Regulated Asbestos-Containing Material (RACM) disposal area.
Signature certifies work accomplished as stated in the Cover Application Log.

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3	Graded to Repair Erosions Phase II - Eros Slope D-V/15-72
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10	Recover - graded to Repair Erosions Phase III - North Slope MM-28/54-56
11	Recover - graded to Repair Erosions Phase III - North Slope TT-21/58-60
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COVER APPLICATION LOG CLASS I NON HAZARDOUS

DATE: 11/11/11

Month / Year: 11/11

Supervisor Signature: [Signature]

Line	Daily Cover				Approved Alternate Daily Cover				Elevation	Inspection Date of Daily Cover ²	Erosion or Leachate Seep Detected	Corrective Action ⁴	Soil Stockpile Required ⁵ (yd ³)	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Intermediate Cover				Final Cover				Inspection Date of Intermediate & Final Cover ²	Erosion ≥ 4" Detected	Data Erosion Corrected ³	Corrective Action ⁶	Final Cover Certification Report Reference	Supervisor Signature ⁷			
	6" Scl		8" Scl		Spray-On or Tarps		Method ²	MSL								Grid Area	T ²	Method ²	Grid Area	T ²	Method ²	Grid Area	T ²							Method ²	Grid Area	T ²
	AMT ¹	Grid Area	T ²	Method ²	AMT ¹	Grid Area																										
1																																
2																																
3	500	A-29	6"	B					43'																							
4	500	A-29	6"	B					47'																							
5	500	A-29	6"	B					50'																							
6	500	A-29	6"	B					52'																							
7	500	A-30	6"	B					44'																							
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10	500	A-30	6"	B					48'																							
11	500	A-30	6"	B					50'																							
12	500	A-28	6"	B					42'																							
13	500	A-28	6"	B					45'																							
14	500	A-28	6"	B					48'																							
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17	500	A-28	6"	B					50'																							
18	500	A-28	6"	B					52'																							
19	500	A-27	6"	B					43'																							
20	500	A-27	6"	B					46'																							
21	500	A-27	6"	B					44'																							
22																																
23																																
24	500	A-28	6"	B					50'																							
25	500	A-28	6"	B					53'																							
26	500	A-28	6"	B					57'																							
27	500	A-23	6"	B					60'																							
28	500	A-30	6"	B					58'																							
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30																																
31																																

AMT = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

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

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