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TEXAS COMMISSION ON ENVIRONMENTAL QUALITY

Protecting Texas by Reducing and Preventing Pollution

December 19, 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.: 1610065

Dear Mr. Telepak:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on October 28, 2019 and November 4, 5, and 7, 2019, requests for assistance regarding the odor at the above-referenced facility. In response to this request, Ms. Naomi Hall, Ms. Nicole Weist and Ms. Katie Phillips of this office conducted an investigation on November 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,

A handwritten signature in black ink, appearing to read "Carlos R. Romo".

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

CRR/NGH/na

MSW PA_1505A_CP_20190816_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

COPY

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1610065

Incident Numbers

323668	324135
323693	323683
324476	324136
323670	323685
323675	323691
324473	323665
323671	323687
323692	323696
323672	323717
324138	324139
323666	324475
324140	323676
323689	323690
323674	

Investigator: NAOMI HALL

Site Classification TYPE 1
MSW LANDFILL

Conducted: 11/08/2019 -- 11/08/2019

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): MSWCMPL - Investigation of MSW
complaint

Principal(s):

Role

Name

RESPONDENT

BLUE RIDGE LANDFILL TX LP

Contact(s):

BLUE RIDGE LANDFILL - FRESNO**11/8/2019 Inv. # - 1610065****Page 2 of 4**

Role	Title	Name	Phone
PARTICIPATED IN	ENVIRONMENTAL SPECIALIST	MS AMY KUBINSKI	Phone (281) 835-6142 Phone (346) 269-2946 Work (281) 668-9745
PARTICIPATED IN	OPERATIONS MANAGER	MR ZACHARY PEDERSON	
REGULATED ENTITY MAIL CONTACT	ENVIRONMENTAL MANAGER	MR TIM TELEPAK	Work (281) 835-6142

Other Staff Member(s):

Role	Name
QA Reviewer	NADINE BALMACEDA
Supervisor	CARLOS ROMO
Investigator	MARIOL GEFERS
Investigator	MATTHEW FURMAN

Associated Check List

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

Investigation Comments:**INTRODUCTION**

On October 28, 2019, November 4, 5, and 7, 2019, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office Waste Section received 27 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 October 25, 26, 27, 2019; and November 2, 3, 4, 5, and 7, 2019.

On November 8, 2019, Ms. Nicole Weist and Ms. Katie Phillips, Environmental Investigators of the TCEQ Houston Region Office Waste Section, conducted an odor survey of the area surrounding the landfill. On November 8, 2019, Ms. Hall, 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.: 323665, 323666, 323668, 323670, 323671, 323672, 323674, 323675, 323676, 323683, 323685, 323687, 323689, 323690, 323691, 323692, 323693, 323696, 323717, 324135, 324136, 324138, 324139,

BLUE RIDGE LANDFILL - FRESNO

11/8/2019 Inv. # - 1610065

Page 3 of 4

324140, 324473, 324475, 324476

Description of Alleged Effects:

Headaches, migraines, breathing difficulty, nausea, nasal irritation, and throat irritation symptoms were described as occurring because of the odors.

Meteorological data at the time of the odor survey:

Date: November 8, 2019

Wind Direction: North

Wind Speed: average 10 mph

Outdoor Temperature: 48 °F

Meteorological data was taken from TCEQ's continuous air monitoring station Manvel Croix Park C84 weather station and the National Oceanic and Atmospheric Administration (NOAA) National Weather Service, weather conditions for Pearland, Texas (Attachment 1).

Odor Survey (OS):

Ms. Phillips and Ms. Weist conducted OS No. 1 at 1:20 p.m., downwind of BRL at Vintage View Lane in Pearland, Texas. No odors were detected during 60 minutes spent at OS No. 1.

Ms. Weist conducted OS No. 2 at 2:30 p.m., downwind of BRL at Rocky Isle Drive (near Arcadia Bay Drive) in Pearland, Texas. No odors were detected during the 60 minutes spent at OS No. 2.

Ms. Phillips conducted OS No. 3 at 2:32 p.m., approximately three miles east of BRL at Regents Bay Drive (near Kingsley Drive) in Pearland, Texas. Meteorological data indicated a north wind direction. No odors were detected during the 60 minutes spent at OS No. 3.

Ms. Weist conducted OS No. 4 at 3:40 p.m., upwind of BRL at 1900 Cayman Bend Lane in Pearland, Texas. No odors were detected during the 60 minutes spent at OS No. 4.

Ms. Phillips conducted OS No. 5 at 3:42 p.m., upwind of BRL at Amy Ridge Road and South Lazy Ridge Drive, Houston, Texas. No odors were detected during the 60 minutes spent at OS No. 5.

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

Summary of the on-site investigation:

On November 8, 2019, Ms. Hall, arrived at BRL and met with Ms. Amy Kubinski, Environmental Specialist, Mr. Zachary Pedersen, Operations Manager, and Mr. Tim Telepak, Environmental Manager, to whom the purpose and scope of the investigation were explained.

During the investigation, the BRL facility representatives drove the investigator to the MSW working face and the Class 1 working face. The investigator 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. No ponded water was found at the working face. The investigator obtained a copy of the MSW and Class 1 cover logs for the time period of October 1 to 31, 2019, and November 1 through 7, 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 the MSW working face as required. The investigator 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, the Class 1 working face and the solidification pit were observed in operation. The wind fences were in place and located downwind of the working face.

Description of Odor:

No odors were detected during the odor survey.

Description of the Effects on the Investigator(s):

BLUE RIDGE LANDFILL - FRESNO

11/8/2019 Inv. # - 1610065

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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:
No odors were detected off-site by the investigators.

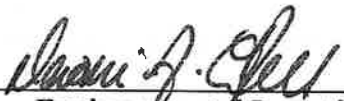
Odor Frequency, Intensity, Duration and Offensiveness (FIDO) Chart Evaluation:
The TCEQ Odor Complaint Investigation Procedures FIDO Chart is a method used to provide consistent nuisance determinations and assist in description of odors. The character of an odor is a unique, innate quality of an odor that does not vary with intensity. The FIDO chart characterizes the odor of landfill garbage/waste as "offensive." Landfill garbage/waste odors were previously detected on October 15, 2019.

CONCLUSION

During the survey conducted on November 8, 2019, odors were not detected in the area. According to FIDO protocol, nuisance odor conditions were not confirmed during the investigation.

No Violations Associated to this Investigation

Signed

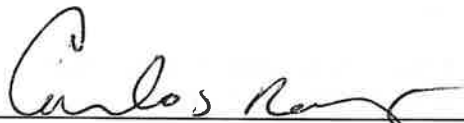


Environmental Investigator

Date

12/6/2019

Signed



Supervisor

Date

12/19/19

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) :

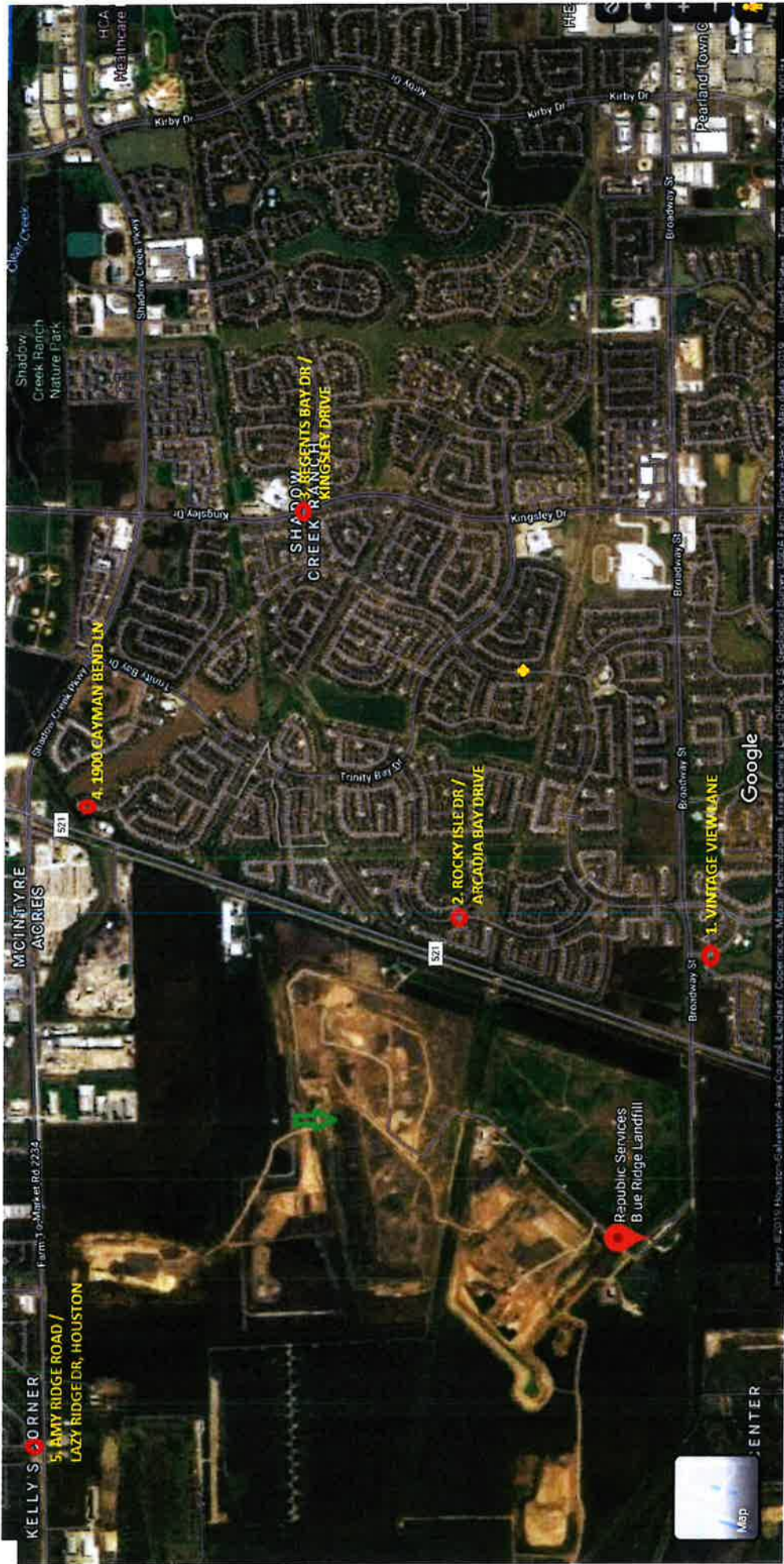
2 - ATTACHMENTS

**Blue Ridge Landfill
2200 F.M. 521, Fresno (Fort Bend County), TX 77545
Municipal Solid Waste Permit No. 1505A
MSW Complaint Investigation
Conducted on November 08, 2019**

List of Attachments

- Attachment 1:** Meteorological Information, Map of Odor Survey locations, Odor Odor Logs
- Attachment 2:** Cover Logs for October 2019; November 1 - 7, 2019

ATTACHMENT 1



OS No.
1

Supplemental Investigator's Odor Intensity Time Log

Investigator: Kate Phillips
Date of Investigation: 11/8/19

Location: 29. 553948, -95.439293
Start Time: 1:20 PM

Vintage View
Ln.,
Pearland

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: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

#2

Supplemental Investigator's Odor Intensity Time Log

Investigator: Nicole Weist
 Date of Investigation: 11/8/19

Location: Rocky Isle Drive (Near Meador Bldg)
 Start Time: 1430

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: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS No. 2
#3

Supplemental Investigator's Odor Intensity Time Log

Investigator: Katie Phillips
Date of Investigation: 11/8/19

Location: 29.57 N 505, -95.4175 W
Start Time: 2:32 PM

Regent Bay
Dr. &
Kingsley
Dr. &
Pearland

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: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

#4 - Odor
Survey

Supplemental Investigator's Odor Intensity Time Log

Investigator: Nicole Weist
Date of Investigation: 11/8/19

Location: 1900 Black Canyon Bend Ln
Start Time: 1540

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: _____

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

OS No. 3

Supplemental Investigator's Odor Intensity Time Log

Investigator: Kate Phillips
Date of Investigation: 11/8/19

Location: 29-581403, - 95.461547
Start Time: 3:42 PM

Amy Ridge Rd. & S. Lazy Ridge Dr. Paddock

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

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

Odor Description: _____
Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

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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: CAM3 AQ3 Description
 CAMS 84 Manvel Croix Park C84 [Select a different site](#)

Month: Day: Year: Time Format:

November 8 2019 12 Hour (AM/PM)

☒ 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 **Friday, November 8, 2019**. All times shown are in CST.

Parameter Measured	Morning												Afternoon											
	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	-0.2	-0.2	0.2	0.2	0.2	0.0	0.4	1.8	1.9	1.3	1.5	1.4	1.3	1.8	1.5	1.3	1.1	0.1	0.2	0.0	-0.1	-0.1	-0.1	-0.1
Nitrogen Dioxide	3.3	2.9	2.9	3.1	3.1	4.7	6.5	7.5	7.5	6.4	7.0	7.1	5.5	7.9	8.2	9.1	10.0	9.0	13.2	9.1	8.8	10.2	12.2	12.9
Oxides of Nitrogen	3.1	2.6	2.6	2.9	2.9	4.7	6.8	9.2	9.3	7.7	8.4	8.5	6.8	9.5	9.7	10.4	11.0	9.0	13.3	9.1	8.6	10.0	12.0	12.7
Ozone	9	10	9	8	7	5	3	3	7	12	11	11	13	13	12	11	11	12	8	13	13	10	7	6
Wind Speed	11.2	11.3	11.2	10.3	10.7	10.5	9.8	9.8	10.8	9.8	10.0	10.6	10.6	9.4	8.9	8.7	8.1	7.1	7.1	8.4	7.6	6.8	5.6	5.2
Resultant Wind Speed	10.4	10.4	10.3	9.6	10.0	9.7	9.2	9.1	10.2	9.3	9.4	9.8	9.7	8.7	8.3	8.2	7.6	6.7	6.7	8.0	7.3	6.5	5.3	4.9
Resultant Wind Direction	2	358	5	3	9	12	11	15	20	23	18	8	1	7	7	17	13	6	19	17	19	20	17	20
Maximum Wind Gust	21.5	20.8	22.7	19.6	20.7	18.9	18.2	17.6	20.3	18.1	17.7	18.9	19.8	18.9	17.3	16.6	15.2	15.7	14.2	15.1	14.3	14.0	12.4	9.5
Std. Dev. Wind Direction	22	23	23	22	20	22	19	21	19	19	19	22	23	21	20	20	19	20	19	18	17	17	18	17
Outdoor Temperature	53.1	51.8	51.2	51.2	51.1	51.5	52.3	53.2	52.5	52.5	52.1	51.6	51.0	51.4	52.0	52.2	52.7	52.9	53.0	52.5	51.7	50.8	49.8	48.9
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	Afternoon											
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



XML

[Permalink](#)[2 Days](#)[Raw Observations](#)[5 Minute Observations](#)[Int. Units](#)[Cloud Column Decoder](#)[FAQ/Data Issues](#)

Weather Conditions For:

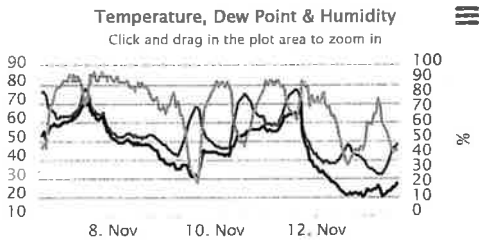
Houston, Pearland Regional Airport, TX. [KLVJ](#) (NWS/FAA - HGX)

Elev: 43 ft.; Lat/Lon: 29.52111/-95.24194

Current Time: Nov 13 2:37 pm CST

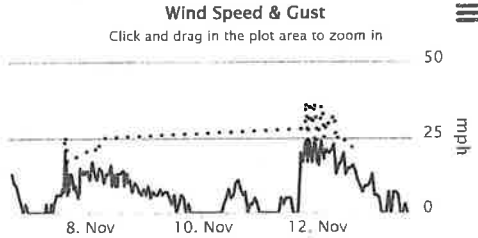
[Get Yearly Precip Total \(non QA/QC'd data\)](#)[Get Water Year Precip Total \(non QA/QC'd data\)](#)

← swipe



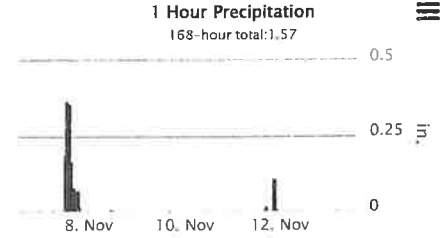
(Click to hide)

— Temperature — Dewpoint — Rel Humidity



(Click to hide)

— Speed ·· Gust



(Click to hide)

■ 1 Hour Precip

Date (CST)	Temp (F)	Dew Point (F)	Relative Humidity (%)	Wind Chill (F)	Wind Direction	Wind Speed (MPH)	Visibility (miles)	Weather	Clouds	Station Pressure (inches)	Sea Level Pressure (mb)	Altimeter Setting (inches)	1 Hour Precip (inches)	3 Hour Precip (inches)	6 Hour Precip (inches)	24 Hour Precip (inches)	6 Hr Max (F)	24 Hr Min (F)	24 Hr Max (F)	24 Hr Min (F)
13 Nov 1:53 pm	48	27	44		N	CALM	10.00	FEW110		30.19	1024.0	30.24								
13 Nov 12:53 pm	46	25	43			3	10.00	CLR		30.22	1024.8	30.27								
13 Nov 11:53 am	46	25	43		N	CALM	10.00	CLR		30.26	1026.1	30.31					46	32		
13 Nov 10:53 am	42	23	46		N	CALM	10.00	CLR		30.28	1026.8	30.33								
13 Nov 9:53 am	39	23	52		NNE	6	10.00	CLR		30.30	1027.5	30.35								
13 Nov 8:53 am	36	22	56		ENE	7	10.00	CLR		30.31	1027.9	30.36								
13 Nov 7:53 am	34	21	59		NE	7	10.00	CLR		30.32	1028.2	30.37								
13 Nov 6:53 am	32	20	61		N	CALM	10.00	CLR		30.32	1028.5	30.37								
13 Nov 5:53 am	32	24	72		NNE	7	10.00	CLR		30.33	1028.5	30.38					36	31		
13 Nov 4:53 am	32	26	78		N	CALM	10.00	CLR		30.34	1028.8	30.39								
13 Nov 3:53 am	33	24	69		N	CALM	10.00	CLR		30.35	1029.3	30.40								
13 Nov 2:53 am	34	24	67		N	CALM	10.00	CLR		30.35	1029.3	30.40								
13 Nov 1:53 am	35	23	61		NNE	5	10.00	CLR		30.35	1029.5	30.40								
13 Nov 12:53 am	35	23	61		NNE	6	10.00	CLR		30.37	1030.0	30.42								
12 Nov 11:53 pm	36	24	62		NNE	6	10.00	CLR		30.37	1030.0	30.42					43	36	48	36
12 Nov 10:53 pm	39	21	48	31	NE	13	10.00	CLR		30.36	1029.7	30.41								
12 Nov 9:53 pm	40	20	44	34	NNE	10	10.00	CLR		30.36	1029.8	30.41								
12 Nov 8:53 pm	41	22	46		NNE	9	10.00	CLR		30.37	1029.8	30.42								
12 Nov 7:53 pm	42	21	43		N	9	10.00	CLR		30.36	1029.7	30.41								
12 Nov 6:53 pm	42	22	44		N	7	10.00	CLR		30.35	1029.4	30.40								
12 Nov 5:53 pm	43	22	43		N	9	10.00	CLR		30.36	1029.5	30.41					48	42		
12 Nov 4:53 pm	44	21	40		N	11	10.00	CLR		30.36	1029.6	30.41								
12 Nov 3:53 pm	47	22	37		NNW	14	10.00	CLR		30.35	1029.3	30.40								
12 Nov 2:53 pm	48	21	34		N	16G22	10.00	CLR		30.35	1029.5	30.40								
12 Nov 1:53 pm	46	21	37		NNW	15	10.00	CLR		30.37	1029.9	30.42								
12 Nov 12:53 pm	44	22	41		N	15G22	10.00	CLR		30.39	1030.7	30.44								
12 Nov 11:53 am	42	23	46		NNW	13	10.00	CLR		30.41	1031.2	30.46					42	37		
12 Nov 10:53 am	40	24	53	30	N	20G25	10.00	CLR		30.43	1031.9	30.48								
12 Nov 9:53 am	39	26	59	30	N	17G26	10.00	SCT026		30.44	1032.3	30.49								
12 Nov 9:48 am	39	26	60	30	NNW	17G26	10.00	SCT025		30.44		30.49								
12 Nov 8:53 am	38	27	64	29	N	16G26	10.00	BKN024		30.42	1031.5	30.47								
12 Nov 7:53 am	38	28	67	30	N	13G24	10.00	OVC023		30.40	1031.1	30.45								
12 Nov 6:53 am	38	28	67	27	N	23G33	10.00	OVC021		30.38	1030.2	30.43								
12 Nov 5:53 am	38	30	73	28	N	21G31	10.00	OVC018		30.35	1029.4	30.40			T	0.14	43	38		
12 Nov 4:53 am	39	31	72	29	N	20G29	10.00	OVC019		30.33	1028.7	30.38								
12 Nov 3:53 am	39	32	76	29	N	21G31	10.00	OVC016		30.31	1028.1	30.36	T							
12 Nov 3:21 am	38	33	82	28	N	20G29	10.00	Lt Rain OVC015		30.31		30.36	T							

12 Nov 2:53 am	39	33	79	29	N	21G25	10.00	Lt Rain	OVC014	30.29	1027.4	30.34	T	T		
12 Nov 2:49 am	39	34	81	30	N	18G26	10.00	Lt Rain	OVC014	30.29		30.34	T			
12 Nov 1:53 am	40	33	76	30	N	21G36	10.00		OVC015	30.27	1026.7	30.32				
12 Nov 1:42 am	40	33	76	30	N	24G36	10.00		OVC015	30.27		30.32				
12 Nov 12:53 am	41	34	76		N	21G29	10.00		OVC014	30.25	1025.9	30.30				
12 Nov 12:38 am	41	35	79		N	16G28	10.00		OVC014	30.25		30.30				
11 Nov 11:53 pm	43	36	76		N	17G24	10.00		BKN020,OVC024	30.24	1025.5	30.29			0.12	55 43 77 43
11 Nov 10:53 pm	43	36	76		N	25G37	10.00		OVC019	30.22	1024.9	30.27	0.01			
11 Nov 9:53 pm	45	39	80		N	18G30	8.00	Lt Rain	BKN020,OVC042	30.22	1024.8	30.27	0.11			
11 Nov 9:44 pm	45	39	80		N	17G29	6.00	Mod Rain	SCT022,OVC040	30.21		30.26	0.11			
11 Nov 9:15 pm	46	39	76		N	20G35	10.00		BKN021,OVC039	30.20		30.25				
11 Nov 8:53 pm	48	40	73		N	22G36	10.00		FEW018,OVC035	30.18	1023.6	30.23	T	T		
11 Nov 8:43 pm	48	40	73		N	23G37	10.00		SCT017,OVC035	30.17		30.22	T			
11 Nov 8:29 pm	49	42	77	NNW		24G32	10.00		SCT010,BKN016,OVC034	30.16		30.21	T			
11 Nov 7:53 pm	50	46	86		N	17G24	8.00	Lt Rain	OVC011	30.14	1022.1	30.19	T			
11 Nov 7:12 pm	51	47	86		N	24G37	10.00		BKN010,OVC015	30.11		30.16				
11 Nov 6:53 pm	52	48	86	NNW		23G30	10.00		BKN009,OVC012	30.10	1020.8	30.15	T			
11 Nov 5:53 pm	55	52	89	NW		17G30	4.00	Lt Rain, Mist	OVC008	30.04	1018.9	30.09	0.02		0.02	77 55
11 Nov 5:18 pm	58	55	90	NW		18G30	7.00	Lt Rain	BKN009,BKN014,OVC024	30.01		30.06	0.01			
11 Nov 5:04 pm	63	59	87	NNW		17G28	5.00	Lt Rain, Mist	SCT007,BKN015,OVC035	29.99		30.04	0.01			
11 Nov 4:58 pm	66	62	87	NNW		20G28	4.00	Mod Rain, Mist	FEW006,BKN031,OVC046	29.98		30.03	0.01			
11 Nov 4:53 pm	70	63	78	NW		17G28	7.00	Lt Rain	FEW016,BKN036,OVC046	29.97	1016.4	30.02	T			
11 Nov 3:53 pm	75	67	76	N		CALM	10.00		BKN033,OVC045	29.94	1015.3	29.99	T			
11 Nov 2:53 pm	77	64	64	N		CALM	10.00		OVC045	29.93	1015.2	29.98				
11 Nov 1:53 pm	77	65	66	N		CALM	10.00		OVC047	29.94	1015.5	29.99				
11 Nov 12:53 pm	76	65	69	S		5	10.00		OVC047	29.93	1015.1	29.98				
11 Nov 11:53 am	75	64	69	SE		5	10.00		OVC044	29.95	1015.7	30.00			75 59	
11 Nov 10:53 am	74	64	71	SSE		5	10.00		OVC045	29.96	1016.0	30.01				
11 Nov 9:53 am	71	63	76	SE		3	10.00		OVC043	29.97	1016.5	30.02				
11 Nov 8:53 am	68	63	84	SE		5	10.00		OVC044	29.97	1016.3	30.02				
11 Nov 7:53 am	64	60	87	N		CALM	10.00		OVC039	29.97	1016.6	30.02				
11 Nov 6:53 am	62	58	86	N		CALM	10.00		OVC037	29.96	1016.0	30.01				
11 Nov 5:53 am	59	56	90	N		CALM	10.00		FEW042	29.95	1015.7	30.00			60 58	
11 Nov 4:53 am	58	55	90	N		CALM	10.00		FEW037,FEW046	29.94	1015.5	29.99				
11 Nov 3:53 am	59	55	87	N		CALM	10.00		FEW044	29.94	1015.6	29.99				
11 Nov 2:53 am	58	55	90	N		CALM	10.00		CLR	29.95	1015.7	30.00				
11 Nov 1:53 am	59	56	90	N		CALM	10.00		CLR	29.95	1015.8	30.00				
11 Nov 12:53 am	59	55	87	N		CALM	10.00		CLR	29.97	1016.4	30.02				
10 Nov 11:53 pm	59	56	90	N		CALM	10.00		CLR	29.98	1016.6	30.03			67 59 75 45	
10 Nov 10:53 pm	63	58	84	SSE		3	10.00		CLR	29.99	1017.0	30.04				
10 Nov 9:53 pm	63	57	81	SE		5	10.00		CLR	29.99	1017.2	30.04				
10 Nov 8:53 pm	63	56	78	ESE		3	10.00		CLR	30.01	1017.7	30.06				
10 Nov 7:53 pm	64	56	75	SE		3	10.00		CLR	30.00	1017.6	30.05				
10 Nov 6:53 pm	66	66	70	N		CALM	10.00		CLR	30.01	1017.8	30.06				
10 Nov 5:53 pm	67	56	68	ESE		7	10.00		CLR	30.00	1017.5	30.05			75 67	
10 Nov 4:53 pm	71	56	59	SE		6	10.00		CLR	30.01	1017.8	30.06				
10 Nov 3:53 pm	72	55	55	SSE		8	10.00		CLR	30.02	1018.0	30.07				
10 Nov 2:53 pm	74	55	52	S		11	10.00		CLR	30.02	1018.2	30.07				
10 Nov 1:53 pm	75	53	46	S		10	10.00		CLR	30.03	1018.6	30.08				
10 Nov 12:53 pm	73	53	50			6	10.00		CLR	30.07	1019.8	30.12				
10 Nov 11:53 am	72	52	49	S		5	10.00		CLR	30.11	1021.1	30.16			72 45	
10 Nov 10:53 am	70	53	55	SE		8	10.00		CLR	30.14	1022.2	30.19				
10 Nov 9:53 am	65	50	58	E		5	10.00		CLR	30.16	1022.8	30.21				
10 Nov 8:53 am	60	47	62	ENE		3	10.00		CLR	30.16	1023.0	30.21				
10 Nov 7:53 am	52	47	83	N		CALM	8.00		CLR	30.15	1022.4	30.20				
10 Nov 6:53 am	46	42	86	N		CALM	10.00		CLR	30.14	1022.3	30.19				
10 Nov 5:53 am	46	43	89	N		CALM	10.00		CLR	30.13	1021.9	30.18			49 45	
10 Nov 4:53 am	46	42	86	N		CALM	10.00		CLR	30.13	1021.8	30.18				
10 Nov 3:53 am	46	43	89	N		CALM	10.00		CLR	30.13	1021.8	30.18				
10 Nov 2:53 am	46	43	89	N		CALM	10.00		CLR	30.13	1022.0	30.18				
10 Nov 1:53 am	47	43	86	N		CALM	10.00		CLR	30.15	1022.6	30.20				
10 Nov 12:53 am	47	44	90	N		CALM	10.00		CLR	30.16	1022.8	30.21				
09 Nov 11:53 pm	48	44	86	N		CALM	10.00		CLR	30.16	1023.0	30.21			59 48 68 42	
09 Nov 10:53 pm	49	44	83	N		CALM	10.00		CLR	30.17	1023.3	30.22				
09 Nov 9:53 pm	50	44	80	N		CALM	10.00		CLR	30.18	1023.4	30.23				

09 Nov 8:53 pm	51	44	77	N	CALM	10.00	CLR	30.18	1023.5	30.23			
09 Nov 7:53 pm	52	44	74	N	CALM	10.00	CLR	30.17	1023.2	30.22			
09 Nov 6:53 pm	55	45	69	N	CALM	10.00	CLR	30.16	1023.0	30.21			
09 Nov 5:53 pm	58	41	53	S	3	10.00	CLR	30.15	1022.6	30.20	68	58	
09 Nov 4:53 pm	66	34	30	N	CALM	10.00	CLR	30.15	1022.6	30.20			
09 Nov 3:53 pm	68	28	22		5	10.00	CLR	30.16	1022.8	30.21			
09 Nov 2:53 pm	68	32	26	NE	6	10.00	CLR	30.17	1023.3	30.22			
09 Nov 1:53 pm	65	31	28		3	10.00	CLR	30.18	1023.5	30.23			
09 Nov 12:53 pm	63	31	30	N	CALM	10.00	CLR	30.20	1024.3	30.25			
09 Nov 11:53 am	60	34	37		6	10.00	CLR	30.24	1025.5	30.29	60	42	
09 Nov 10:53 am	56	37	49		3	10.00	CLR	30.26	1026.4	30.31			
09 Nov 9:53 am	51	37	59	ENE	5	10.00	CLR	30.29	1027.2	30.34			
09 Nov 8:53 am	48	37	66	NE	7	10.00	CLR	30.28	1027.1	30.33			
09 Nov 7:53 am	45	35	68	NE	7	10.00	CLR	30.27	1026.6	30.32			
09 Nov 6:53 am	42	35	76	NNE	6	10.00	CLR	30.26	1026.3	30.31			
09 Nov 5:53 am	43	35	73	NNE	8	10.00	CLR	30.25	1025.9	30.30	0.01	48	43
09 Nov 4:53 am	43	38	82	NE	6	10.00	CLR	30.25	1026.0	30.30			
09 Nov 3:53 am	44	38	79	NE	6	10.00	CLR	30.25	1025.9	30.30			
09 Nov 2:53 am	45	37	74	NNE	7	10.00	CLR	30.26	1026.1	30.31			
09 Nov 1:53 am	46	38	73	NNE	5	10.00	CLR	30.26	1026.4	30.31			
09 Nov 12:53 am	48	38	68	NE	9	10.00	CLR	30.27	1026.4	30.32			
08 Nov 11:53 pm	48	40	73	NNE	6	10.00	CLR	30.27	1026.7	30.32	53	48	54
08 Nov 10:53 pm	49	40	71	NNE	8	10.00	CLR	30.27	1026.6	30.32			
08 Nov 9:53 pm	50	41	71	NNE	6	10.00	CLR	30.27	1026.6	30.32			
08 Nov 8:53 pm	51	45	79	N	7	10.00	CLR	30.26	1026.4	30.31			
08 Nov 7:53 pm	52	45	77	N	9	10.00	CLR	30.26	1026.3	30.31			
08 Nov 6:53 pm	53	46	77	N	10	10.00	CLR	30.24	1025.7	30.29			
08 Nov 5:53 pm	53	47	80	N	7	10.00	SCT120	30.23	1025.3	30.28	T	53	51
08 Nov 4:53 pm	53	48	83	N	11	9.00	BKN120	30.22	1024.8	30.27	T		
08 Nov 3:53 pm	52	48	86	N	10	10.00	FEW014,BKN095,OVC110	30.20	1024.2	30.25	T		
08 Nov 3:49 pm	52	48	87	NNE	13	10.00	Lt Rain FEW014,BKN095,OVC110	30.20		30.25	T		
08 Nov 2:53 pm	52	48	86	N	13	8.00	OVC010	30.20	1024.4	30.25	T	T	
08 Nov 2:33 pm	52	48	86	N	9	9.00	Lt Rain BKN014,BKN038,OVC049	30.21		30.26	T		
08 Nov 2:19 pm	52	48	86	N	14	9.00	Lt Rain SCT013,BKN036,BKN049	30.20		30.25	T		
08 Nov 1:53 pm	51	48	89	N	14	7.00	Lt Rain OVC012	30.21	1024.4	30.26	T		
08 Nov 12:53 pm	52	48	86	N	13	8.00	Lt Rain OVC011	30.22	1025.0	30.27	T		
08 Nov 11:53 am	52	49	89	N	13	8.00	OVC011	30.24	1025.6	30.29	0.01	54	52
08 Nov 11:45 am	52	48	87	N	9	8.00	Lt Rain OVC011	30.25		30.30	0.01		
08 Nov 11:19 am	52	48	86	N	13	8.00	OVC009	30.26		30.31	T		
08 Nov 10:53 am	53	49	86	NNE	9	8.00	Lt Rain OVC011	30.24	1025.7	30.29	T		
08 Nov 10:31 am	53	48	83	NNE	10	7.00	Lt Rain OVC010	30.25		30.30	T		
08 Nov 9:53 am	52	48	86	N	13	8.00	OVC008	30.26	1026.4	30.31			
08 Nov 9:39 am	53	49	86	N	10	9.00	OVC009	30.26		30.31			
08 Nov 9:18 am	53	49	86	N	9	10.00	OVC010	30.26		30.31			
08 Nov 8:53 am	53	49	86	NNE	16	10.00	OVC008	30.25	1026.0	30.30			
08 Nov 7:53 am	54	50	86	NNE	13	10.00	OVC008	30.25	1025.9	30.30			
08 Nov 6:53 am	54	51	90	N	13	10.00	OVC009	30.22	1024.9	30.27			
08 Nov 5:53 am	53	50	89	N	10	8.00	OVC005	30.21	1024.5	30.26	1.78	54	52
08 Nov 4:53 am	52	49	89	N	14G25	10.00	OVC006	30.20	1024.3	30.25			
08 Nov 3:53 am	52	49	89	N	15	10.00	OVC007	30.20	1024.1	30.25			
08 Nov 2:53 am	52	49	89	N	11G20	10.00	OVC006	30.19	1024.0	30.24			
08 Nov 1:53 am	52	50	93	N	13G22	10.00	OVC005	30.20	1024.1	30.25			
08 Nov 12:53 am	54	51	90	N	17	10.00	OVC006	30.18	1023.6	30.23			
07 Nov 11:53 pm	54	51	90	N	11	10.00	OVC006	30.19	1023.9	30.24	0.09	65	54
07 Nov 10:53 pm	55	53	93	N	14	10.00	OVC006	30.19	1023.8	30.24	T		
07 Nov 9:53 pm	57	55	93	NNW	13	10.00	OVC007	30.19	1023.8	30.24	T		
07 Nov 9:16 pm	58	55	90	N	14	10.00	OVC006	30.18		30.23			
07 Nov 9:06 pm	58	56	93	N	13	10.00	OVC004	30.17		30.22			
07 Nov 8:53 pm	59	57	93	NNW	13	8.00	OVC005	30.17	1023.1	30.22	0.09		
07 Nov 7:53 pm	62	60	93	N	14	9.00	BKN006,OVC016	30.15	1022.4	30.20	0.02		
07 Nov 7:46 pm	62	60	93	NNW	15	9.00	BKN006,BKN010,OVC016	30.14		30.19	0.02		
07 Nov 7:32 pm	65	63	93	N	7	6.00	Lt Rain, Mist FEW009,BKN016,OVC022	30.13		30.18	0.02		
07 Nov 6:53 pm	64	63	96	N	5	4.00	Lt Rain, Mist FEW006,BKN014,OVC070	30.13	1022.0	30.18	0.07		
07 Nov 6:47 pm	64	63	94	N	6	4.00	Lt Rain, Mist FEW006,BKN014,OVC110	30.13		30.18	0.07		
07 Nov 5:53 pm	64	62	93	N	9	5.00	Lt Rain, Mist FEW020,SCT029,OVC055	30.12	1021.4	30.17	0.03	1.69	77

07 Nov 5:34 pm	64	62	93	NNE	8	5.00	Lt Rain, Mist	FEW008,BKN018,OVC055	30.11		30.16	0.02
07 Nov 5:13 pm	64	61	90	N	8	7.00	Lt Rain	BKN016,BKN060,OVC110	30.10		30.15	0.01
07 Nov 4:53 pm	64	61	90	N	10	6.00	Lt Rain, Mist	FEW047,SCT065,OVC110	30.09	1020.4	30.14	0.08
07 Nov 4:06 pm	65	62	90	NNE	13	9.00	Lt Rain	FEW006,BKN085,OVC110	30.07		30.12	T
07 Nov 3:53 pm	65	63	93	N	13	5.00	Lt Rain, Mist	SCT006,BKN010,OVC017	30.08	1020.2	30.13	0.17
07 Nov 3:50 pm	64	63	94	N	10	4.00	Lt Rain, Mist	BKN006,BKN010,OVC015	30.08		30.13	0.17
07 Nov 3:36 pm	66	64	93	NNE	10	2.00	Mod Rain, Mist	BKN008,BKN015,OVC043	30.07		30.12	0.15
07 Nov 3:14 pm	66	65	96	NNE	9	2.00	Mod Rain, Mist	FEW009,BKN014,OVC038	30.06		30.11	0.08
07 Nov 3:01 pm	66	64	93	N	7	2.00	Thunder Shwr, Mist	BKN009,BKN015,OVC035	30.07		30.12	0.04
07 Nov 2:52 pm	66	64	93	NE	9	1.50	Thunder, Hvy Rain, Mist	SCT008,BKN015,OVC031	30.06	1019.6	30.11	0.30 1.41
07 Nov 2:51 pm	66	64	94	NE	10	1.50	Thunder, Hvy Rain, Mist	SCT008,BKN015,OVC031	30.06		30.11	0.35
07 Nov 2:40 pm	66	64	94	NNE	13	2.00	Hvy Rain, Mist	FEW006,BKN010,OVC031	30.05		30.10	0.26
07 Nov 2:33 pm	67	65	93	NNE	10	0.75	Thunder, Hvy Rain, Mist	BKN007,OVC024	30.04		30.09	0.24
07 Nov 2:25 pm	66	64	94	N	6	1.00	Hvy Rain, Mist	BKN007,OVC022	30.04		30.09	0.15
07 Nov 2:19 pm	67	65	93	NNE	11G17	2.50	Hvy Rain, Mist	BKN007,OVC050	30.03		30.08	0.06
07 Nov 2:04 pm	68	66	93	NNE	13G23	6.00	Thunder, Lt Rain, Mist	BKN006,OVC048	30.01		30.06	T
07 Nov 1:53 pm	68	66	93	NNE	16G23	6.00	Thunder, Lt Rain, Mist	SCT006,BKN010,OVC048	30.01	1017.9	30.06	1.02
07 Nov 1:49 pm	68	66	94	NE	16G23	5.00	Thunder, Lt Rain, Mist	SCT006,BKN010,OVC045	30.02		30.07	1.02
07 Nov 1:41 pm	68	66	93	NNE	13G25	2.00	Thunder, Lt Rain, Mist	SCT004,BKN010,OVC043	30.02		30.07	1.02
07 Nov 1:37 pm	68	66	93	NNE	16G26	0.75	Thunder Shwr, Mist	FEW004,BKN010,OVC041	30.02		30.07	1.02
07 Nov 1:29 pm	68	66	93	N	21G26	0.50	Hvy Rain, Thunder Shwr, Fog	FEW004,OVC008	30.02		30.07	0.95
07 Nov 1:20 pm	70	66	88	N	15	0.50	Hvy Rain, Fog	BKN008,OVC015	30.03		30.08	0.63
07 Nov 1:11 pm	70	68	93	N	16G23	0.50	Hvy Rain, Fog	BKN006,BKN010,OVC015	30.03		30.08	0.37
07 Nov 1:05 pm	72	70	94	N	9	0.75	Hvy Rain, Mist	BKN008,OVC014	30.03		30.08	0.19
07 Nov 12:53 pm	73	69	87	NNE	10	2.50	Thunder Shwr, Mist	SCT010,BKN013,OVC037	30.02	1018.0	30.07	0.03
07 Nov 12:49 pm	73	70	89	N	7	5.00	Thunder Shwr, Mist	SCT010,BKN013,OVC037	30.02		30.07	0.01

07 Nov 12:17 pm	76	69	79	E	8	9.00	Thunder	FEW036,BKN049,OVC060	30.03		30.08						
07 Nov 11:53 am	77	70	79	E	6	10.00		BKN039,OVC050	30.05	1019.3	30.10	T		T		78	64
07 Nov 10:53 am	78	69	74		6	10.00		BKN042,BKN065	30.07	1020.0	30.12						
07 Nov 9:53 am	75	69	82	E	6	8.00		FEW044,BKN075	30.09	1020.5	30.14						
07 Nov 8:53 am	70	67	90	ENE	3	4.00	Mist	SCT025,BKN034,OVC075	30.10	1020.8	30.15						
07 Nov 8:12 am	68	65	90	N	CALM	3.00	Mist	BKN029,OVC037	30.09		30.14						
07 Nov 7:53 am	67	65	93	N	CALM	3.00	Mist	FEW033,BKN048,OVC060	30.08	1020.3	30.13						
07 Nov 7:43 am	67	64	90	NE	3	3.00	Mist	FEW035,BKN047,OVC060	30.08		30.13						
07 Nov 7:08 am	66	64	93	N	CALM	2.50	Mist	OVC036	30.07		30.12						
07 Nov 6:53 am	66	63	90	N	CALM	3.00	Mist	OVC038	30.07	1019.7	30.12						
07 Nov 5:53 am	65	62	90	N	CALM	3.00	Mist	CLR	30.05	1019.1	30.10					65	62
07 Nov 5:35 am	64	63	94	ENE	3	3.00	Mist	FEW016,FEW021	30.05		30.10						
07 Nov 5:15 am	64	63	94	N	CALM	3.50	Mist	BKN020,BKN030	30.04		30.09						
07 Nov 4:53 am	64	61	90	N	CALM	5.00	Mist	FEW023,SCT030	30.04	1019.0	30.09						
07 Nov 4:05 am	63	61	94	N	CALM	4.00	Mist	SCT018	30.04		30.09						
07 Nov 3:53 am	63	61	93	N	CALM	4.00	Mist	BKN018	30.04	1018.7	30.09						
07 Nov 3:50 am	63	61	94	N	CALM	4.00	Mist	BKN018	30.04		30.09						
07 Nov 2:53 am	63	60	90	N	CALM	5.00	Mist	CLR	30.03	1018.6	30.08						
07 Nov 1:53 am	63	60	90	N	CALM	4.00	Mist	CLR	30.04	1018.9	30.09						
07 Nov 12:53 am	63	60	90	N	CALM	5.00	Mist	CLR	30.05	1019.3	30.10						
06 Nov 11:53 pm	63	59	87	N	CALM	7.00		CLR	30.06	1019.5	30.11					68	62 78 62
06 Nov 10:53 pm	62	58	86	N	CALM	8.00		CLR	30.08	1020.2	30.13						
06 Nov 9:53 pm	62	58	86	N	CALM	9.00		CLR	30.09	1020.5	30.14						
06 Nov 8:53 pm	65	59	81	ESE	3	10.00		CLR	30.09	1020.7	30.14						
06 Nov 7:53 pm	66	58	75	N	CALM	10.00		CLR	30.10	1021.0	30.15						
06 Nov 6:53 pm	67	58	73	E	3	10.00		CLR	30.10	1020.8	30.15						
06 Nov 5:53 pm	68	55	63	ENE	6	10.00		CLR	30.10	1020.8	30.15					78	68
06 Nov 4:53 pm	74	51	45	ESE	9	10.00		CLR	30.10	1020.7	30.15						
06 Nov 3:53 pm	76	55	48	ESE	10	10.00		CLR	30.09	1020.6	30.14						
06 Nov 2:53 pm	76	53	45	E	13	10.00		CLR	30.11	1021.1	30.16						

ATTACHMENT 2

COVER APPLICATION LOG

175W

Month / Year: OCT/DEC 2019

Daily Cover	Approved Alternate Daily Cover				Elevation	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Corrective Action	Soil Stockpile Required (yd ³)	Rain (Inches)	Rain (Inches) $\geq 0.5"$	Intermediate Cover				Final Cover				Corrective Action	Final Cover Certification Report Reference	Supervisor Signature
	AMT ¹	Grid Area	T ²	Method								Grid Area	T ²	Method	Grid Area	T ²	Method	Grid Area	T ²			
6" Soil					MSL																	
1	1750	44-57	6"	B	35-40	✓																
2	750	44-57	6"	B	40-48	✓																
3	750	44-57	6"	B	48-53	✓																
4	750	44-57	6"	B	53-60	✓																
5	750	44-57	6"	B	37-42	✓																
6	750	44-57	6"	B	42-50	✓																
7	750	44-57	6"	B	50-60	✓																
8	750	44-57	6"	B	56-60	✓																
9	750	44-57	6"	B	40-48	✓																
10	750	44-57	6"	B	48-55	✓																
11	750	44-57	6"	B	48-55	✓																
12	500	44-57	6"	B	56-60	✓																
13																						
14	750	44-57	6"	B	40-48	✓																
15	750	44-57	6"	B	48-54	✓																
16	750	44-57	6"	B	54-60	✓																
17	750	44-57	6"	B	40-48	✓																
18	750	44-57	6"	B	48-55	✓																
19	600	44-57	6"	B	55-60	✓																
20																						
21	750	44-57	6"	B	40-48	✓																
22	750	44-57	6"	B	48-54	✓																
23	750	44-57	6"	B	54-60	✓																
24	750	44-57	6"	B	40-48	✓																
25	750	44-57	6"	B	48-54	✓																
26																						
27																						
28	750	44-57	6"	B	54-60	✓																
29	750	44-57	6"	B	40-48	✓																
30	750	44-57	6"	B	48-56	✓																
31	750	44-57	6"	B	54-60	✓																

AMT¹ = Amount of cover (soil) in yd³ or alternate daily cover in bags or tarp area

T² = 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 = Replacing 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.

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COVER APPLICATION LOG CLASS I NON HAZARDOUS

CLS 1

Day Cover	Approved Alternate Daily Cover			Elevation	Inspection Date of Daily Cover	Erosion or Leachate Seep Detected	Corrective Action	Soil Stockpile Required (Y/N)	Rain (inches) $\geq 0.5"$	Intermediate Cover			Final Cover			Inspection Date of Intermediate & Final Cover	Erosion or Leachate Seep Detected	Corrective Action	Final Cover Certification Report Reference	Supervisor Signature
	AMT ¹	Grid Area	T ²							AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²				
1	500	0-31	6"	49'	✓				✓								✓			
2	500	0-31	6"	54'	✓															
3	500	0-32	6"	42'	✓												✓			
4	500	0-32	6"	47'	✓															
5																				
6																				
7	500	0-32	6"	52'	✓															
8	500	0-32	6"	56'	✓															
9	500	0-33	6"	43'	✓															
10	500	0-33	6"	48'	✓												✓			
11	500	0-33	6"	52'	✓															
12																				
13																				
14	500	0-33	6"	56'	✓															
15	500	0-30	6"	40'	✓															
16	500	0-30	6"	44'	✓															
17	500	0-30	6"	48'	✓															
18	500	0-30	6"	52'	✓															
19																				
20																				
21	500	0-30	6"	56'	✓															
22	500	0-30	6"	40'	✓															
23	500	0-30	6"	44'	✓															
24	500	0-30	6"	48'	✓															
25	500	0-30	6"	52'	✓															
26																				
27																				
28	500	0-30	6"	56'	✓															
29	500	0-30	6"	60'	✓															
30	500	0-30	6"	45'	✓															
31	500	0-30	6"	50'	✓															

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

Inspected 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 7.14 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.

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COVER APPLICATION LOG CLASS I NON HAZARDOUS

	Daily Cover			Approved Alternate Daily Cover			Elevation MSL	Inspection Date of Daily Cover ⁴	Erosion or Leachate Seep Detected ⁵	Date Erosion or Leachate Seep Corrected ⁵	Corrective Action ⁸	Soil Stockpile Required ⁷ (yd ³)	Rain (inches) ≥ 0.5"	Rain (inches) ≥ 0.5"	Intermediate Cover			Final Cover			Inspection Date of Intermediate & Final Cover ⁶	Erosion ≥ 4" Detected ³	Corrective Action ⁸	Final Cover Certification Report Reference	Month / Year	Supervisor Signature ⁹
	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³							Grid Area	T ²	Method ³	Grid Area	T ²	Method ³						
1	500	0-31	6"	B					✓																	
2																										
3																										
4	500	0-31	6"	B					✓																	
5	500	0-31	6"	B					✓																	
6	500	0-31	6"	B					✓																	
7	500	0-31	6"	B					✓																	
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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 this working face. The amount of soil required is dependent upon the maximum allocated size of the working face. A 50 yd³ 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.

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COVER APPLICATION LOG

Month / Year: NOVEMBER 2017

MSW

Daily Cover		Approved Alternate Daily Cover		Elevation		Inspection Date of Daily Cover ⁴		Erosion or Leachate Seep Detected		Corrective Action ⁶		Soil Stockpile Requiring ⁷ (yd ³)		Rain (inches) ≥ 0.5" ⁸		Rain (inches) ≥ 0.5" ⁸		Intermediate Cover		Final Cover		Inspection Date of Intermediate & Final Cover ⁴		Erosion or Leachate Seep Detected		Corrective Action ⁶		Final Cover Certification Report Reference		Supervisor Signature ⁹	
8" Soil		Spray-On or Tarps		MSL		Cover ⁴		Cover ⁴		Cover ⁴		Cover ⁴		Cover ⁴		Cover ⁴		12" Soil		Per Final Closure Plan		Cover ⁴		Cover ⁴		Cover ⁴		Cover ⁴		Cover ⁴	
AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³	AMT ¹	Grid Area	T ²	Method ³
1	750	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2	510	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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4	750	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5	750	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6	750	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7	750	15-53	6" B	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
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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 4.1.8. 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.

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