

File Copy

1505A

Investigation # 1289116

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

December 28, 2015

Mr. Burgess Stengl
Environmental Manager
Blue Ridge Landfill TX LP
5757A Oates Road
Houston, Texas 77078

Re: Investigation Request at:
Blue Ridge Landfill, 2200 FM 521 Rd, Fresno, TX 77545-8214
TCEQ MSW Permit No.: 1505A
Investigation No.: 1289116
Incident Nos.: 221578, 221637, 221638, 221639, 221735, 221865

Dear Mr. Stengl:

The Texas Commission on Environmental Quality (TCEQ) Houston Region Office received on October 12, 13, 15, 16, and 19, 2015 requests for assistance regarding the offensive odor at the above-referenced facility. In response to this request, Mr. Richard Blackney of this office conducted an investigation on October 23, 2015. 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 Mr. Blackney at this 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

TCEQ Complaint Report

12/23/2015
9:24:24AM

COPY

Incident No: 221578
Media Type: WASTE
Start Date: 10/10/2015
Received Date: 10/12/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party:
Address:

Title:

Number Complaining: 1
Frequency: PAST
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL
Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

Complainant alleges a strong foul odor that makes it uncomfortable to stand outside and can be smelled indoors.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

TCEQ Complaint Report

12/23/2015
9:24:48AM

COPY

Incident No: 221637
Media Type: WASTE
Start Date: Unknown
Received Date: 10/13/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party:
Address:

Title:

Number Complaining: 1
Frequency: CURRENT
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL
Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

The complainant alleges smells.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

TCEQ Complaint Report

12/23/2015
9:25:10AM

COPY

Incident No: 221638
Media Type: WASTE
Start Date: 10/13/2015
Received Date: 10/15/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party:
Address:

Title:

Number Complaining: 1
Frequency: PAST
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

The complainant alleges strong odor.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

TCEQ Complaint Report

12/23/2015
9:25:36AM

COPY

Incident No: 221639
Media Type: WASTE
Start Date: 10/14/2015
Received Date: 10/15/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party:
Address:

Title:

Number Complaining: 1
Frequency: PAST
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL
Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

The complainant alleges strong odor.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

TCEQ Complaint Report

COPY

12/23/2015
9:23:56AM

Incident No: 221735
Media Type: WASTE
Start Date: 10/15/2015
Received Date: 10/16/2015
Method : EMAIL

Staff Member: RBLACKNE
Status: Closed
Status Date: 12/23/2015
Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545
Physical Location: LOCATED ON 2200 FM 521

Responsible Party:
Address:

Title:

Number Complaining: 1
Frequency: CURRENT
Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR
Effect: ENVIRONMENTAL

Initial Problem

The complainant alleges that an odor similar to rotten eggs is emitting from the facility.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

TCEQ Complaint Report

12/23/2015
9:26:09AM

COPY

Incident No: 221865

Media Type: WASTE

Start Date: 10/17/2015

Received Date: 10/19/2015

Method : EMAIL

Staff Member: RBLACKNE

Status: Closed

Status Date: 12/23/2015

Priority: Within 14 Calendar Days

Regulated Entity: BLUE RIDGE LANDFILL

RN102610102

Address: 2200 FM 521 RD
FRESNO, FORT BEND County, TX 77545

Physical Location: LOCATED ON 2200 FM 521

Responsible Party:

Address:

Title:

Number Complaining: 1

Frequency: INTERMITTENT

Alleged Source: BLUE RIDGE LANDFILL

Program Group: MUNICIPAL
SOLID WASTE - HIGH LEVEL

Nature: ODOR

Effect: ENVIRONMENTAL

Initial Problem

Complainant alleges bad odor emitting from facility.

Action Taken

This complaint has been assigned and will be further investigated by an Environmental Investigator.

Closure Comments

More information will be available upon approval of the investigation report.

Investigation Number: 1289116

MSW PA_1505A_CO_20151023_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

INFORMATION COPY
FOR R12 FILE ROOM

Regulated Entity Name: BLUE RIDGE LANDFILL

Regulated Entity Number: RN102610102

Investigation # 1289116

Incident Numbers

221638 221865
221637 221639
221578 221735

Investigator: RICHARD BLACKNEY

Site Classification TYPE 1

Conducted: 10/23/2015 -- 11/03/2015

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

Principal(s):

Role	Name
RESPONDENT	BLUE RIDGE LANDFILL TX LP

Contact(s):

Role	Title	Name	Phone
REGULATED ENTITY CONTACT	ENVIRONMENTAL MANAGER	MR BURGESS STENGL	Office (713) 676-7669
PARTICIPATED IN	OPERATIONS SUPERVISOR	MR LARRY MUNGER	Work (832) 710-9856

Other Staff Member(s):

Role	Name
Supervisor	ALMA JEFFERSON
QA Reviewer	CASIMIR ONWUKA

Associated Check List

Checklist Name
MSW COMPLAINT INVESTIGATION

Unit Name
complaint

Investigation Comments:

INTRODUCTION

On October 12, 13, 15, 16, and 19, 2015, the Texas Commission on Environmental Quality (TCEQ) Houston Region Office received complaints alleging odors from Blue Ridge Landfill (BRL) located at 2200 FM 521, Fresno (Fort Bend County), Texas 77545. The odors were alleged to have occurred on October 10, 13, 14, 15, and 17, 2015.

On October 23, 2015, Mr. Richard Blackney, Environmental Investigator for the TCEQ Houston Region Office, conducted an unannounced Odor Complaint Investigation at BRL and the area surrounding it. The complaints were unconfirmed for nuisance odors at the time of the investigation.

BACKGROUND

The most recent Odor Complaint Investigation (No. 1286698) at BRL was conducted on October 2 to 7, 2015. No violations were alleged as a result of the investigation.

GENERAL FACILITY AND PROCESS INFORMATION

BRL 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.

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 certain special wastes. Class 1 waste is buried in the designated Class 1 cell of the landfill. The special waste currently accepted includes: dead animals, sludge and Class 2 industrial waste.

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. 221578, 221637, 221638, 221639, 221735, and 221865). Meteorological conditions during the time the odors were alleged are included in Attachment 2. The meteorological data is taken from TCEQ's continuous air monitoring stations.

Description of Alleged Effects:

No adverse health effects were alleged by the complainants.

Meteorological data at the time of the odor survey

Wind direction: SE

Wind Speed: 14.5 to 16.1 mph

Temperature: 80.6 to 82.1°F

Summary of on-site investigation:

The investigator arrived at the first survey point located at the 13900 block of Morgan Bay Dr. Odor Survey (OS) 1 took place upwind of BRL and was conducted at 9:50 a.m. No odors were detected during the 15 minutes spent at OS No. 1.

The investigator went to OS No. 2 located at the intersection of McHard Road and South Post Oak Rd. OS No. 2 took place downwind of BRL and was conducted at 10:17 a.m. No odors were detected during the 15 minutes spent at OS No. 2.

The investigator then went to OS No. 3 located at the 4600 block of Ripple Ridge. OS No. 3 took place downwind of BRL and was conducted at 10:38 a.m., lasting 15 minutes. Odors typical of landfill waste were detected intermittently at OS No. 3, averaging to very light.

Aerial view maps of the OS locations and the OS logs are included in Attachment 3.

The investigator arrived at BRL at approximately 11:15 a.m., and met with Mr. Larry Munger, Operations Supervisor with Republic Services. Mr. Munger drove the investigator to the solidification basin, where ground

BLUE RIDGE LANDFILL - FRESNO

10/23/2015 to 11/3/2015 Inv. # - 1289116

Page 3 of 4

wood was seen being mixed with liquid waste prior to disposal at the working face. A system of misters for the purpose of neutralizing odors was observed to be in operation. Mr. Munger drove the investigator to the MSW and Class 1 working faces, by which piles of soil were observed. No issues were noted at the MSW working face or the Class 1 working face.

BRL receives Class 1 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 at the end of each operating day. BRL is authorized, by permit, to use tarps as alternate daily cover on the MSW working face. Historically, BRL has used six inches of soil on the MSW working face on Tuesdays, Thursdays and Saturdays, and a combination of soil and tarps for cover on Mondays, Wednesdays, and Fridays. However, according to Mr. Munger, recently they have been using soil exclusively at the end of each operating day. The investigator obtained copies of the cover logs for October 2015 (Attachment 4). No issues were noted.

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 businesses, houses and streets.

Location of the Source of the Odor:

The alleged source of the odor is BRL.

ODOR FIDO CHART EVALUATION:

The intensity and offensiveness of any odors observed during the investigation using the terms identified for those factors on the Frequency Intensity Duration Offensiveness (FIDO) Chart were noted as follows: Per the FIDO odor characterization examples, landfill garbage/waste odor is characterized as "offensive." The frequency of odors documented by the investigator is a "single 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.

CONCLUSION

No violations of solid waste management requirements were noted as a result of this investigation.

No Violations Associated to this Investigation

Signed Richard Blackney
Environmental Investigator

Date 12/28/2015

Signed Alma L. Jefferson
Supervisor

Date 12/28/2015

Attachments: (in order of final report submittal)

Enforcement Action Request (EAR)

Letter to Facility (specify type) : No Action

Investigation Report

Sample Analysis Results

Manifests

Notice of Registration

Maps, Plans, Sketches

Photographs

Correspondence from the facility

Other (specify) :

See list of 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 October 2, 2015 through October 7, 2015

List of Attachments

- | | |
|---------------------|---|
| Attachment 1 | TCEQ Central Registry information for Blue Ridge Landfill |
| Attachment 2 | Meteorological conditions for September 28, 29, 30, 2015 and October 1, 2, 2015 |
| Attachment 3 | Map of Odor Survey locations and Odor Logs |
| Attachment 4 | September and October of 2015 cover logs |

ATTACHMENT 1

[Questions or Comments >>](#)

[Query Home](#)
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 [RE Search](#)
 [ID Search](#)
 [Document Search](#)
 [Search Results](#)
 [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)

1-5 of 5 Records

CN Number	Customer Name	Customer Role	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	PENDING
INDUSTRIAL AND HAZARDOUS WASTE	SOLID WASTE REGISTRATION # (SWR)	89429	INACTIVE
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505	CANCELLED
MUNICIPAL SOLID WASTE DISPOSAL	PERMIT	1505A	ACTIVE
PETROLEUM STORAGE TANK REGISTRATION	REGISTRATION	64950	ACTIVE

ATTACHMENT 2



Home | Publ | Busin | Govern | Air | Lar | Water
 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 and to control cell highlighting based on measured nitrogen dioxide levels. 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:
 October 10 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous
 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 **Saturday, October 10, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me			
	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	0.5	0.1	0.5	0.1	0.1	0.7	0.6	1.4	1.1	0.9	0.7	0.9	0.6	0.3	0.6	0.6	0.1	-0.1	0.1	0.4	0.2	0.3	0.1	0.0	Nitri	
Nitrogen Dioxide	-0.2	-0.1	1.4	1.7	2.5	5.1	7.8	7.1	5.1	4.5	4.4	2.6	1.5	1.4	0.5	-0.0	0.4	1.9	8.4	10.0	6.5	4.9	4.6	7.5	Nitro	
Oxides of Nitrogen	0.3	-0.1	1.9	1.8	2.6	5.9	8.5	8.6	6.2	5.4	5.2	3.5	2.1	1.7	1.1	0.6	0.5	1.8	8.6	10.5	6.8	5.3	4.8	7.6	Oxid	
Ozone	14	17	19	26	26	22	19	23	30	42	55	62	69	79	74	64	59	50	31	26	23	18	<u>SPN</u>	8	Ozor	
Wind Speed	1.9	3.9	4.9	5.5	4.9	4.7	5.6	7.1	9.0	7.9	6.5	5.2	5.8	8.0	7.0	6.9	5.9	4.3	2.2	2.5	1.0	1.2	1.5	1.3	Wind	
Resultant Wind Speed	1.7	3.8	4.7	5.1	4.7	4.4	5.3	6.7	8.5	7.3	6.1	4.3	4.8	7.0	6.2	6.3	5.3	4.1	2.1	2.3	0.8	1.2	1.4	1.0	Resu	
Resultant Wind Direction	278	290	296	2	18	9	2	11	21	36	38	359	353	353	351	9	7	25	51	88	166	212	235	246	Resu	
Maximum Wind Gust	5.4	8.3	10.7	11.3	11.3	8.8	10.4	16.8	15.4	14.9	14.6	11.0	13.1	22.1	13.8	15.1	11.2	9.4	3.7	5.3	2.1	2.7	2.4	4.6	Maxi	
Std. Dev. Wind Direction	29	13	17	23	17	18	20	19	19	22	20	33	33	28	28	24	25	19	15	22	36	20	14	41	Std.	
Outdoor Temperature	71.1	71.4	71.6	73.3	72.5	71.4	70.6	71.2	72.9	75.6	78.0	80.3	82.7	84.3	85.4	86.3	86.1	84.5	80.6	76.5	73.6	71.2	70.2	68.1	Outd	
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	Par Me	
Morning													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 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.



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

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

Month: Day: Year: Time Format:
 October 13 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous
 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 **Tuesday, October 13, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me		
	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	0.1	0.1	0.7	0.1	0.0	0.4	1.6	SPN	SPN	2.8	SPN	SPN	1.9	1.6	1.3	0.7	1.9	1.2	2.1	1.5	1.9	2.1	1.8	1.1	Nitri
Nitrogen Dioxide	0.5	-0.1	0.2	-1.2	-0.5	2.1	5.6	SPN	SPN	5.3	SPN	SPN	4.2	3.1	2.7	1.7	3.5	9.3	17.1	21.2	13.7	12.6	5.6	4.1	Nitric Diox
Oxides of Nitrogen	0.6	0.0	0.9	-1.1	-0.4	2.6	7.3	SPN	SPN	8.2	SPN	SPN	6.2	4.8	4.1	2.5	5.5	10.8	19.6	23.3	16.0	15.0	7.5	5.4	Oxid Nitric
Ozone	15	13	12	7	12	10	5	2	8	23	37	59	78	90	95	86	80	62	33	21	26	12	9	8	Ozor
Wind Speed	2.1	1.8	1.3	1.8	2.7	2.3	2.2	2.3	4.0	5.0	5.0	5.4	6.5	5.3	6.0	6.3	5.6	3.6	3.0	3.1	2.6	0.9	2.0	1.0	Wind
Resultant Wind Speed	2.1	1.8	0.9	1.8	2.7	1.7	2.1	2.1	3.4	4.5	4.3	4.6	5.6	4.3	5.0	5.7	5.2	3.5	2.9	1.6	1.9	0.3	2.0	0.9	Rest Wind
Resultant Wind Direction	174	192	218	311	342	333	317	322	339	1	15	354	7	340	343	351	6	16	28	84	147	58	334	329	Rest Wind Dire
Maximum Wind Gust	3.1	3.1	2.6	4.1	4.7	4.4	5.2	5.5	8.4	10.6	9.4	11.7	13.5	10.8	13.5	13.2	11.2	7.7	5.4	6.8	8.7	2.4	3.0	2.6	Maxi Wind
Std. Dev. Wind Direction	8	7	46	15	13	42	23	22	32	25	31	31	29	35	33	25	21	14	11	56	42	65	7	28	Std. Wind Dire
Outdoor Temperature	73.6	73.5	73.4	73.4	74.5	76.0	76.1	77.1	78.8	81.6	84.0	85.9	87.6	88.9	90.4	91.2	90.6	88.4	83.9	78.7	75.2	72.2	68.6	68.3	Outd Tem
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	Par Me
Morning													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.																									

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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 and to control cell highlighting based on measured nitrogen dioxide levels. 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:**
 October 14 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)
Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitive Unhealthy Very Unhealthy Hazardous
 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, October 14, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me			
	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	1.7	1.4	2.8	4.7	14.8	21.6	30.2	54.1	25.0	5.7	1.7	1.2	1.6	1.4	1.1	0.9	0.9	1.4	1.5	2.3	1.3	1.1	1.4	1.5	Nitri	
Nitrogen Dioxide	2.5	6.0	9.0	9.2	18.1	13.0	12.5	25.7	37.9	22.2	7.4	2.0	0.7	0.9	1.0	1.2	2.4	7.6	12.1	9.1	6.7	4.0	6.0	7.3	Nitro Diox	
Oxides of Nitrogen	4.3	7.6	12.1	14.2	33.8	35.5	43.9	82.0	64.5	28.5	9.3	3.2	2.4	2.4	2.2	2.2	3.4	9.1	13.9	11.7	8.2	5.2	7.6	9.0	Oxid Nitro	
Ozone	5	3	0	0	0	0	0	3	12	36	57	66	68	71	75	68	68	56	42	40	30	21	22	12	Ozor	
Wind Speed	1.1	1.8	1.0	3.0	2.6	1.9	2.0	2.8	3.3	4.3	5.5	7.2	7.5	7.7	8.0	8.0	6.3	5.1	4.7	2.8	1.4	0.3	1.6	1.9	Wind	
Resultant Wind Speed	0.6	1.7	0.7	2.8	2.5	1.8	1.9	2.6	3.1	3.8	5.2	6.6	7.2	7.4	7.5	7.7	6.2	4.9	4.7	2.7	1.3	0.1	1.6	1.9	Resu Wind	
Resultant Wind Direction	287	3	291	352	349	7	13	12	45	94	106	85	84	85	96	95	97	111	136	148	164	83	157	182	Resu Wind Dire	
Maximum Wind Gust	2.5	4.4	2.0	5.4	5.1	4.6	4.3	5.1	5.6	9.9	10.1	13.3	13.2	14.5	14.0	13.8	10.4	8.8	7.3	5.9	3.5	1.0	3.0	3.4	Maxi Wind	
Std. Dev. Wind Direction	52	18	49	18	16	18	16	21	20	27	20	22	17	17	20	15	11	14	8	12	26	64	10	9	Std. Wind Dire	
Outdoor Temperature	66.9	65.4	64.2	64.6	65.0	64.3	63.4	67.4	73.0	79.8	84.0	86.2	87.4	88.6	88.9	88.4	86.4	82.0	75.8	72.3	69.9	67.9	66.1	65.2	Outd Tem	
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	Par Me	
Morning													Afternoon													
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																										
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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.

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CAMS 84 Manvel Croix Park C84

Month: Day: Year: Time Format:

Nitrogen Dioxide Highlights: Moderate Unhealthy for Sensitives Unhealthy Very Unhealthy Hazardous
 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 **Thursday, October 15, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me		
	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	1.6	1.6	1.1	2.1	17.8	12.0	21.9	23.5	9.9	1.8	2.1	1.3	1.1	1.3	1.3	1.5	1.8	1.5	0.8	1.6	1.7	1.3	1.7	1.4	Nitri
Nitrogen Dioxide	6.2	1.3	4.0	4.0	11.5	9.9	11.0	23.8	21.0	7.2	4.4	0.2	-0.7	-0.4	-0.0	0.1	1.2	6.0	9.4	10.0	7.2	7.3	4.3	4.8	Nitro Diox
Oxides of Nitrogen	8.0	2.9	5.2	6.2	30.1	22.5	33.7	48.5	31.6	9.1	6.7	1.6	0.4	0.9	1.3	1.7	3.0	7.7	10.4	11.9	9.1	8.8	6.2	6.4	Oxid Nitro
Ozone	13	10	10	4	0	0	0	6	24	39	52	57	56	54	54	55	57	48	41	40	44	42	31	29	Ozor
Wind Speed	2.6	1.2	0.9	1.2	1.5	1.7	2.2	2.7	2.9	4.0	4.6	7.8	9.3	9.4	10.5	9.4	7.6	3.8	3.0	3.5	3.6	2.7	1.9	1.9	Wind
Resultant Wind Speed	1.4	0.9	0.7	0.9	1.5	1.5	2.1	2.6	2.7	2.9	3.9	7.2	8.9	8.6	10.0	9.0	7.4	3.7	2.9	3.4	3.5	2.7	1.9	1.9	Rest Wind
Resultant Wind Direction	191	310	27	35	31	25	12	11	32	129	149	149	157	139	137	140	143	128	120	117	105	93	58	71	Rest Wind Direc
Maximum Wind Gust	5.1	2.2	1.9	2.4	2.5	3.1	4.3	4.6	5.3	10.2	10.6	15.6	17.2	16.6	16.6	15.8	12.6	8.8	5.4	5.3	5.6	4.9	2.5	2.6	Maxi Wind
Std. Dev. Wind Direction	55	37	42	41	13	26	17	17	20	41	32	23	17	23	18	15	13	12	9	8	12	13	8	11	Std. Wind Direc
Outdoor Temperature	65.0	64.3	64.0	63.1	63.1	63.8	63.8	66.7	73.3	78.9	83.0	86.4	88.1	89.1	88.8	87.6	85.5	81.4	76.4	73.0	71.5	70.2	69.2	68.3	Outd Tem.
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	Par Me
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.																									

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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.

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

Month: **Day:** **Year:** **Time Format:**
 October 17 2015 12 Hour (AM/PM) [Generate Report](#) [Plot Data](#)

Nitrogen Dioxide Highlights:
 Moderate
 Unhealthy for Sensitives
 Unhealthy
 Very Unhealthy
 Hazardous
 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 **Saturday, October 17, 2015**. All times shown are in CST.

Parameter Measured	Morning												Afternoon												Par Me	
	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	2.0	1.4	1.4	1.2	1.2	1.4	1.9	2.5	1.8	1.6	1.7	1.3	1.5	1.3	1.5	1.2	1.6	1.9	1.7	1.2	1.6	1.8	1.1	1.3	Nitri	
Nitrogen Dioxide	21.2	14.8	3.3	2.9	3.0	8.2	11.2	9.2	5.1	4.0	2.7	1.8	1.7	1.7	3.1	3.4	3.7	4.9	6.9	8.9	9.8	10.1	5.0	4.6	Nitri	
Oxides of Nitrogen	23.8	16.6	4.8	4.2	4.3	9.8	13.4	12.0	7.1	5.8	4.5	3.2	3.3	3.1	4.7	4.7	5.5	6.9	8.8	10.3	11.6	12.2	6.2	6.0	Oxic	
Ozone	13	31	38	38	37	29	25	29	36	42	49	56	60	65	71	72	66	56	43	34	24	26	<u>SPN</u>	31	Ozo	
Wind Speed	3.4	7.0	<u>7.3</u>	<u>6.3</u>	8.1	<u>6.7</u>	6.0	7.9	11.4	11.8	11.1	11.3	10.3	9.1	9.2	8.1	8.5	6.6	4.9	3.9	2.2	4.5	6.6	5.7	Win	
Resultant Wind Speed	3.2	6.8	7.2	6.2	7.9	6.6	5.9	7.7	11.1	11.5	10.6	10.8	9.7	8.6	8.4	7.7	8.2	6.2	4.9	3.9	2.1	4.4	6.5	5.6	Resi	
Resultant Wind Direction	7	41	45	39	40	36	33	46	56	55	64	71	59	55	43	37	43	58	82	69	47	32	47	44	Resi	
Maximum Wind Gust	7.9	12.3	12.5	11.2	15.2	11.7	10.1	14.4	20.1	19.0	18.4	19.1	18.5	17.4	16.6	15.0	14.7	13.3	7.6	6.0	4.3	10.3	11.7	10.0	Max	
Std. Dev. Wind Direction	21	11	10	11	11	12	11	13	14	14	17	16	20	19	24	18	14	18	8	10	17	11	9	9	Std.	
Outdoor Temperature	70.7	70.0	69.4	68.2	67.2	65.4	63.6	64.7	67.4	70.4	74.0	76.8	77.8	78.9	79.4	79.7	79.1	76.7	72.2	69.9	68.1	67.8	67.5	65.7	Outs	
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	Par Me	
Morning													Afternoon													
Maximum values for each parameter are bold within the table. Minimum values are bold italic .																										
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Manvel Croix Park C84 Data by Site by Date (all parameters)

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

Month: Day:Year: Time Format:
 October 23 | 2015 | 12 Hour (AM/PM)

Nitrogen Dioxide Highlights:
 Moderate
 Unhealthy for Sensitivities
 Unhealthy
 Very Unhealthy
 Hazardous

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, October 23, 2015**. All times shown are in CST.

Parameter Measured	Morning											Afternoon											Par Me		
	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	-0.0	-0.5	-0.2	-0.2	-0.2	-0.4	-0.1	-0.3	SPN	SPN	0.2	SPN	SPN	SPN	0.5	0.8	0.6	0.9	0.5	0.5	0.4	1.0	0.9	0.6	Nitri
Nitrogen Dioxide	-2.0	-1.9	-1.3	-1.0	0.6	2.1	3.8	2.9	SPN	SPN	-1.5	SPN	SPN	SPN	-0.6	0.2	0.5	0.2	-0.8	-0.9	-1.0	-0.8	-0.8	-0.5	Nitric Diox
Oxides of Nitrogen	-2.0	-2.5	-1.5	-1.1	0.5	1.8	3.8	2.7	SPN	SPN	-1.4	SPN	SPN	SPN	-0.1	1.1	1.2	1.1	-0.3	-0.5	-0.6	0.2	0.1	0.1	Oxid Nitric
Ozone	36	34	35	33	31	29	27	28	32	36	37	37	36	36	34	31	30	29	28	27	27	27	26	26	Ozor
Wind Speed	12.3	12.0	10.8	9.7	8.2	7.8	5.2	6.1	9.6	14.9	16.4	15.7	15.6	15.9	15.4	12.8	10.9	9.5	8.8	8.6	8.4	7.1	7.1	6.2	Wind
Resultant Wind Speed	12.0	11.8	10.6	9.5	8.0	7.6	5.0	5.9	9.4	14.5	16.1	15.3	15.3	15.7	15.1	12.6	10.6	9.3	8.6	8.4	8.2	6.9	7.0	6.0	Resul Wind
Resultant Wind Direction	140	142	141	139	137	141	132	125	138	148	151	157	156	156	152	143	133	131	129	126	119	114	102	103	Resul Wind Dire
Maximum Wind Gust	21.2	22.7	17.9	19.0	14.5	14.5	9.4	12.9	18.4	26.4	25.8	26.4	25.1	26.4	24.1	22.4	18.1	16.3	15.6	14.9	15.4	13.7	12.8	11.0	Maxi Wind
Std. Dev. Wind Direction	12	11	11	12	12	11	16	14	12	12	11	13	12	11	11	11	12	12	12	11	13	13	13	12	Std. Wind Dire
Outdoor Temperature	77.9	77.5	77.7	77.4	77.2	77.1	76.7	76.7	78.6	80.6	81.1	82.1	82.5	81.7	81.3	80.3	79.2	78.4	77.4	77.2	77.0	76.9	76.4	75.8	Outd Tem
Parameter Measured	Morning											Afternoon											Par Me		
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.

ATTACHMENT 3



Parkridge Dr

Odor Survey 2

Odor Survey 3

my Ridge Rd

McHard Rd

West Dr

Plator
World Rd

Rainwa

Blue Ridge Landfill, MSW Permit No. 150541 Bridge Ln

Odor Survey 1

Silent

Briar Rd

Arcadia Bay Dr

© 2015 Google

900 block Morgan Bay Dr.

SE

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-23-15 Start Time: 9:50

Minutes	Odor Intensity VL, L, M, S, VS
1 min	11 11
2	11 11
3	11 11
4	11 11
5	
6	
7	
8	
9	
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	no odor
51	11 11
52	11 11
53	11 11
54	11 11
55	11 11
56	11 11
57	11 11
58	11 11
59	11 11
60	11 11

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

2:00 block Richard Rd
+ S Post Oak Rd

SSE

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-23-2015 Start Time: 10:17

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

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

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

46C, block of Apple Ridge

SSE
5

Supplemental Investigator's Odor Intensity Time Log

Date of Investigation: 10-23-2015 Start Time: 10:38

Minutes	Odor Intensity VL, L, M, S, VS
1 min	
2	
3	
4	
5	
6	
7	
8	
9	
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	very light
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	very light
48	no odor
49	very light
50	no odor
51	no odor
52	no odor
53	
54	
55	
56	
57	
58	
59	
60	

Offensiveness: Highly _____ Offensive _____ Unpleasant _____ Not Unpleasant _____

Weighted Average Intensity:

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

ATTACHMENT 4

MSW

COVER APPLICATION LOG

Daily Cover				Approved Alternate Daily Cover				Final C																													
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	AMT ¹	Grid Area	T ²	Method ³		
1	540	6"	B																																		
2	540	6"	B																																		
3	480	6"	B																																		
4																																					
5	510	6"	B																																		
6	600	6"	B																																		
7	550	6"	B																																		
8	540	6"	B																																		
9	540	6"	B																																		
10	540	6"	B																																		
11																																					
12	540	6"	B																																		
13	540	6"	B																																		
14	540	6"	B																																		
15	540	6"	B																																		
16	540	6"	B																																		
17	540	6"	B																																		
18																																					
19	540	6"	B																																		
20	540	6"	B																																		
21	540	6"	B																																		
22	540	6"	B																																		
23																																					
24																																					
25																																					
26																																					
27																																					
28																																					
29																																					

Supervisor Signature

[Handwritten signatures]

CLASS 1

COVER APPLICATION LOG CLASS I NON HAZARDOUS

Daily Cover										Approved Alternate Daily Cover				Intermediate Cover			Final Cover						
AMT ¹	Grid Area	T ²	Material	AMT ¹	Grid Area	T ²	Material	Elevation MSL	Inspection Date of Daily Cover ⁴	Emission of Leachate Seep Detected ⁵ Y/Yes	Date Emission of Leachate Seep Connected ⁶	Connective Admitt ⁷	Soil Samples Required ⁸ (yd ³)	Rain (inches) > 0.5"	Rain (inches) < 0.5"	AMT ¹	Grid Area	T ²	Material	AMT ¹	Grid Area	T ²	
1	1100	T-23	6"	B	—	—	—	54															
2	1100	T-23	6"	B	—	—	—	54															
3																							
4																							
5	1100	T-23	6"	B	—	—	—	54															
6	1100	T-23	6"	B	—	—	—	54															
7	1100	T-23	6"	B	—	—	—	50															
8	1100	T-23	6"	B	—	—	—	52															
9	1100	T-23	6"	B	—	—	—	54															
10	1100	T-23	6"	B	—	—	—	54															
11	1100	T-23	6"	B	—	—	—	54															
12	1100	T-23	6"	B	—	—	—	54															
13	1100	T-23	6"	B	—	—	—	54															
14	1100	T-23	6"	B	—	—	—	54															
15	1100	T-23	6"	B	—	—	—	54															
16	1100	T-23	6"	B	—	—	—	54															
17																							
18																							
19	1100	T-24	6"	B	—	—	—	50															
20	1100	T-24	6"	B	—	—	—	51															
21	1100	T-24	6"	B	—	—	—	52															
22	1100	T-24	6"	B	—	—	—	53															
23																							
24																							
25																							
26																							
27																							
28																							
29																							

Month / Year: **October 2015**

Final Cover Certification Report Reference

Supervisor Signature

(Handwritten signatures)