

APPENDIX IIB-2

**TEXAS DEPARTMENT OF TRANSPORTATION
(TXDOT), HARRIS COUNTY, AND CITY OF HOUSTON CORRESPONDENCE**



November 20, 2020

Ahmed Ghaly, P.E., PMP
Office of City Engineer Public Works and Engineering | City of Houston
HPC - 1002 Washington Ave.
Houston Texas 77002

Re: Hawthorn Park Landfill Expansion – Transportation Study

Dear Mr. Ghaly:

Enclosed is the Transportation Study for the Hawthorn Park Landfill Expansion. The site is located on the northeast corner of Tanner Road and the West Sam Houston Tollway (Beltway 8), in Harris County, Texas. Site access is provided on Tanner Road.

The Texas Commission on Environmental Quality (TCEQ) requirement is to “Submit documentation of coordination of all designs of proposed public roadway improvements such as turning lanes, storage lanes, etc. associated with site entrances with the agency exercising maintenance responsibility of the public roadway involved.”

Please let me know if you have any questions or need additional information. Thanks.

Sincerely,

A handwritten signature in black ink, appearing to read 'Colby W. Wright'.

Colby W. Wright, PE, PTOE, RSP1
Division Manager, Traffic Engineering

Cww/

K:\15222\15222-0003-00 Hawthorn Park TIA\2 Design Phase\Reports\traffic
Attachments



November 20, 2020

Tina Liu, PE
Harris County Engineering Department
1001 Preston Street, 7th Floor
Houston, TX 77002

Re: Hawthorn Park Landfill Expansion – Transportation Study

Dear Mrs. Liu:

Enclosed is the Transportation Study for the Hawthorn Park Landfill Expansion. The site is located on the northeast corner of Tanner Road and the West Sam Houston Tollway (Beltway 8), in Harris County, Texas. Site access is provided on Tanner Road.

The Texas Commission on Environmental Quality (TCEQ) requirement is to “Submit documentation of coordination of all designs of proposed public roadway improvements such as turning lanes, storage lanes, etc. associated with site entrances with the agency exercising maintenance responsibility of the public roadway involved.”

Please let me know if you have any questions or need additional information. Thanks.

Sincerely,

A handwritten signature in black ink, appearing to read 'Colby W. Wright'.

Colby W. Wright, PE, PTOE, RSP1
Division Manager, Traffic Engineering

Cww/

K:\15222\15222-0003-00 Hawthorn Park TIA\2 Design Phase\Reports\traffic
Attachments



November 20, 2020

Valerie Medrano
Texas Department of Transportation – Houston District
7600 Washington
Houston, Texas 77007

Re: Hawthorn Park Landfill Expansion – Transportation Study

Dear Mrs. Medrano:

Enclosed is the Transportation Study for the Hawthorn Park Landfill Expansion. The site is located on the northeast corner of Tanner Road and the West Sam Houston Tollway (Beltway 8), in Harris County, Texas. Site access is provided on Tanner Road.

The Texas Commission on Environmental Quality (TCEQ) requirement is to “Submit documentation of coordination of all designs of proposed public roadway improvements such as turning lanes, storage lanes, etc. associated with site entrances with the agency exercising maintenance responsibility of the public roadway involved. In addition, the owner or operator shall submit documentation of coordination with the Texas Department of Transportation for traffic and location restrictions.” This submittal is to request you to provide any traffic or local restrictions and documentation of coordination.

Please let me know if you have any questions or need additional information. Thanks.

Sincerely,

A handwritten signature in black ink, appearing to read 'Colby W. Wright'.

Colby W. Wright, PE, PTOE, RSP1
Division Manager, Traffic Engineering

Cww/

K:\15222\15222-0003-00 Hawthorn Park TIA\2 Design Phase\Reports\traffic
Attachments

**APPENDIX IIB-3
FEDERAL AVIATION ADMINISTRATION (FAA)
DOCUMENTATION**

Appendix IIB-3A
Notification of Proposed Landfill Expansion

7/7/2020

Project No. 1894269

U.S. Department of Transportation

Federal Aviation Administration
Southwest Region
10101 Hillwood Parkway
Fort Worth, TX 76177

**RE: NOTIFICATION OF PROPOSED LANDFILL EXPANSION
MUNICIPAL SOLID WASTE EXPANSION APPLICATION
PERMIT NO. MSW-2185A
HAWTHORN PARK LANDFILL
HARRIS COUNTY, TEXAS**

DEAR SIR OR MADAM,

On behalf of USA Waste of Texas Landfills Inc., Golder Associates Inc. is preparing a Permit Amendment Application to be submitted to the Texas Commission on Environmental Quality (TCEQ) Solid Waste Permits Division for a proposed expansion to the Hawthorn Park Landfill, Permit No. MSW-2185A.

TCEQ rules (30 TAC §330.61(i)(5)) require documentation of coordination with the Federal Aviation Administration. We have also filed an electronic "Notice of Proposed Construction or Alteration – Off Airport" to obtain an Obstruction Evaluation / Airport Airspace Analysis (OE/AAA).

The existing 175-acre Type IV facility is located approximately 500 feet east of Beltway 8 (Sam Houston Parkway) north of Tanner Road in Houston, Harris County, Texas. The nearest airports to the facility are the West Houston Airport (IWS), which is approximately 7 miles west-southwest of the site, and the Weiser Airpark, which is 7 miles northwest of the site. The Weiser Airpark closed in 2019.

The attached Figure 1 shows the site location and proposed permit boundary. Figure 2 shows the site location and proposed permit boundary on the Houston Sectional Aeronautical Chart. Figure 3 shows the points analyzed for the "Notice of Proposed Construction or Alteration – Off Airport."

The proposed expansion to the Type IV municipal solid waste landfill will increase the permitted maximum elevation from approximately 140 feet above mean sea level to approximately 278 feet above mean sea level, which is approximately 178 feet above the natural high ground elevation and 138 feet above the current highest elevation of the landfill. The earthen structure will have 4H:1V side slopes and a top slope of 5%.

The facility is authorized and will continue to accept municipal solid waste consisting of construction/demolition debris, brush, non-putrescible rubbish wastes that are free from other types of solid waste, and certain Class III industrial solid waste that are properly identified and are inert and essentially insoluble. Birds have not presented a problem during operation of the facility.

We appreciate your assistance with this matter. Please contact Charles Dominguez by email at cdominguez@golder.com or by phone at 281-214-0024 if you have any questions regarding the proposed project.

Golder Associates Inc.



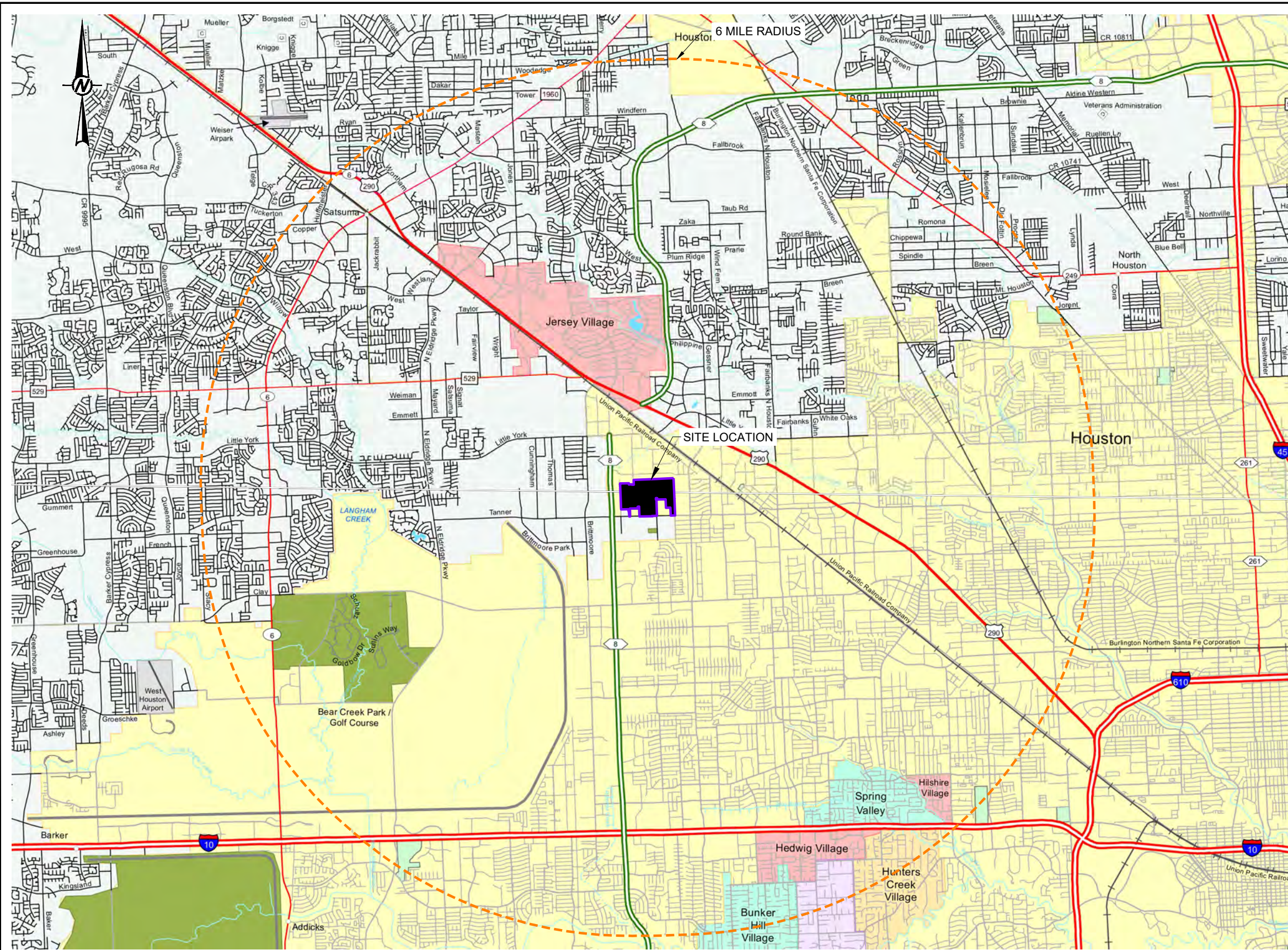
Charles Dominguez, PE
Principal and Vice President



Phillip Reid Matthews II, PE
Principal and Practice Leader

CGD/PRM/cgd

Attachments: Figure 1 General Location Map
Figure 2 FAA Location Restriction Map
Figure 3 Landfill Final Cover Elevations and Analysis Points

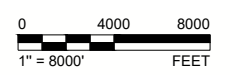


COUNTY MAPBOOK 2012 LEGEND

IH, BI	Airport
US, BU, UA, UP	Airport
SH, BS	Airport Runway
SL, SS, PR	Cemetery
FM, BF, RM, RR, RE, RS, PA	Campground
Tollroad	Park or Protected Land
County Road	School
City Street or other Non-County Maintained Road	Military Installation
Railroad	Prison
County Line	Incorporated City
River	Unincorporated Community
Flowing Stream	
Intermittent Stream	
Canal	
Gulf Intracoastal Waterway	
Body of Water	
Dam	

REFERENCE(S)
 BASE MAP TAKEN FROM TEXAS DEPARTMENT OF TRANSPORTATION, COUNTY MAPBOOK 2014, PAGES 496 AND 497; DELIVERED IN PDF <http://www.dot.state.tx.us>

ISSUED FOR PERMITTING PURPOSES ONLY



Path: \\Houston\staffing\WasteManagement\HawthornPark\10_CADD\CIVIL\3DPA\FACAA1_1\FacName: 1894269-001-001.dwg

0	2020-07-06	ISSUED FOR PERMITTING PURPOSES ONLY	TNB	TNB	CGD	PRM
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL

GOLDER ASSOCIATES INC.
 TEXAS REGISTRATION F-2578

CLIENT

CONSULTANT

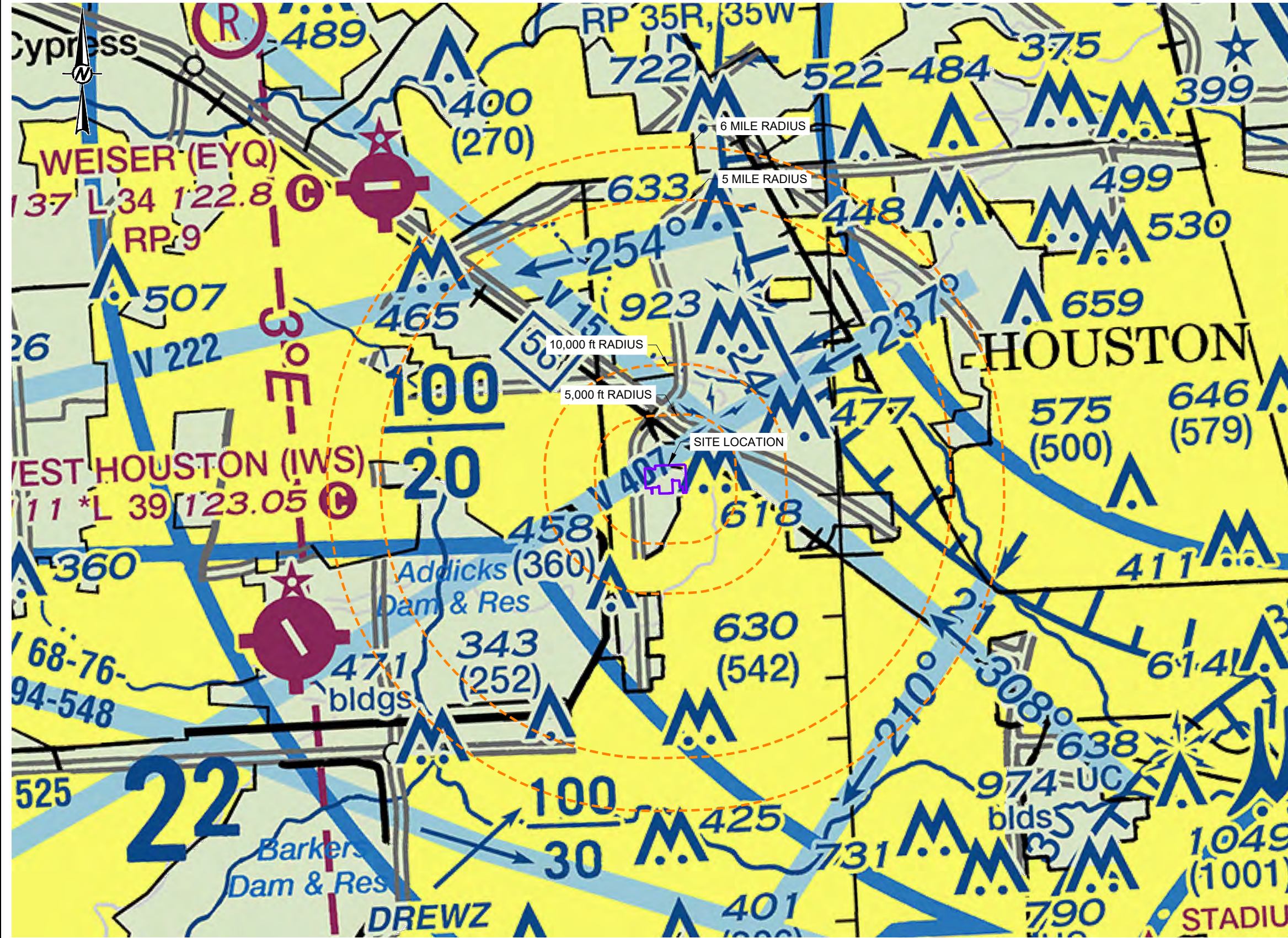
HOUSTON OFFICE
 500 CENTURY PLAZA DR., SUITE 190
 HOUSTON, TEXAS
 USA
 (281) 821-6868
 www.golder.com

PROJECT
HAWTHORN PARK
 PERMIT AMENDMENT APPLICATION TCEQ PERMIT

TITLE
GENERAL LOCATION MAP

PROJECT NO. 1894269	APPLICATION SECTION PART II	REV. 0	1 of 3	FIGURE 1
------------------------	--------------------------------	-----------	--------	-------------

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B



LEGEND

AIRPORTS

- Other than hard-surfaced runways
- Hard-surfaced runways 1500 ft. to 8069 ft. in length
- Hard-surfaced runways greater than 8069 ft. or some multiple runways less than 8069 ft.
- Open dot within hard-surfaced runway configuration indicates approximate VOR, VOR-DME, DME or VORTAC location.
- All recognizable hard-surfaced runways, including those closed, are shown for visual identification. Airports may be public or private.
- Seaplane Base

TOPOGRAPHIC INFORMATION

- Power Transmission Line
- Aerial Cable
- Lookout Tower 618 (Elevation Base of Tower)
- Mountain Pass 11823 (Elevation of Pass)
- Pass symbol does not indicate a recommended route or direction of flight and pass elevation does not indicate a recommended clearance altitude. Hazardous flight conditions may exist within and near mountain passes.

OBSTRUCTIONS

- 1000 ft and higher AGL
- Above 200 ft & below 1000 ft AGL (above 299 ft AGL in urban area)
- Obstruction with high-intensity lights; may operate part-time
- Wind Turbine
- Wind Turbine Farm
- Group Obstruction
- Elevation of the top above mean sea level
- Height above ground
- Under construction or reported: position and elevation unverified
- NOTICE: Guy wires may extend outward from structures.

REFERENCE(S)
 BASE MAP IS FAA SECTIONAL AERONAUTICAL CHART HOUSTON 105TH EDITION, EFFECTIVE FEBRUARY 27, 2020.

ISSUED FOR PERMITTING PURPOSES ONLY

Path: \\Houston\staffing\VisualManagement\HawthornPark\10_CADD\CIVIL\3DPA\FAA\1 | File Name: 1894269-001-002.dwg

0	2020-07-06	ISSUED FOR PERMITTING PURPOSES ONLY	TNB	TNB	CGD	PRM
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED

SEAL

GOLDER ASSOCIATES INC.
 TEXAS REGISTRATION F-2578

CLIENT

CONSULTANT

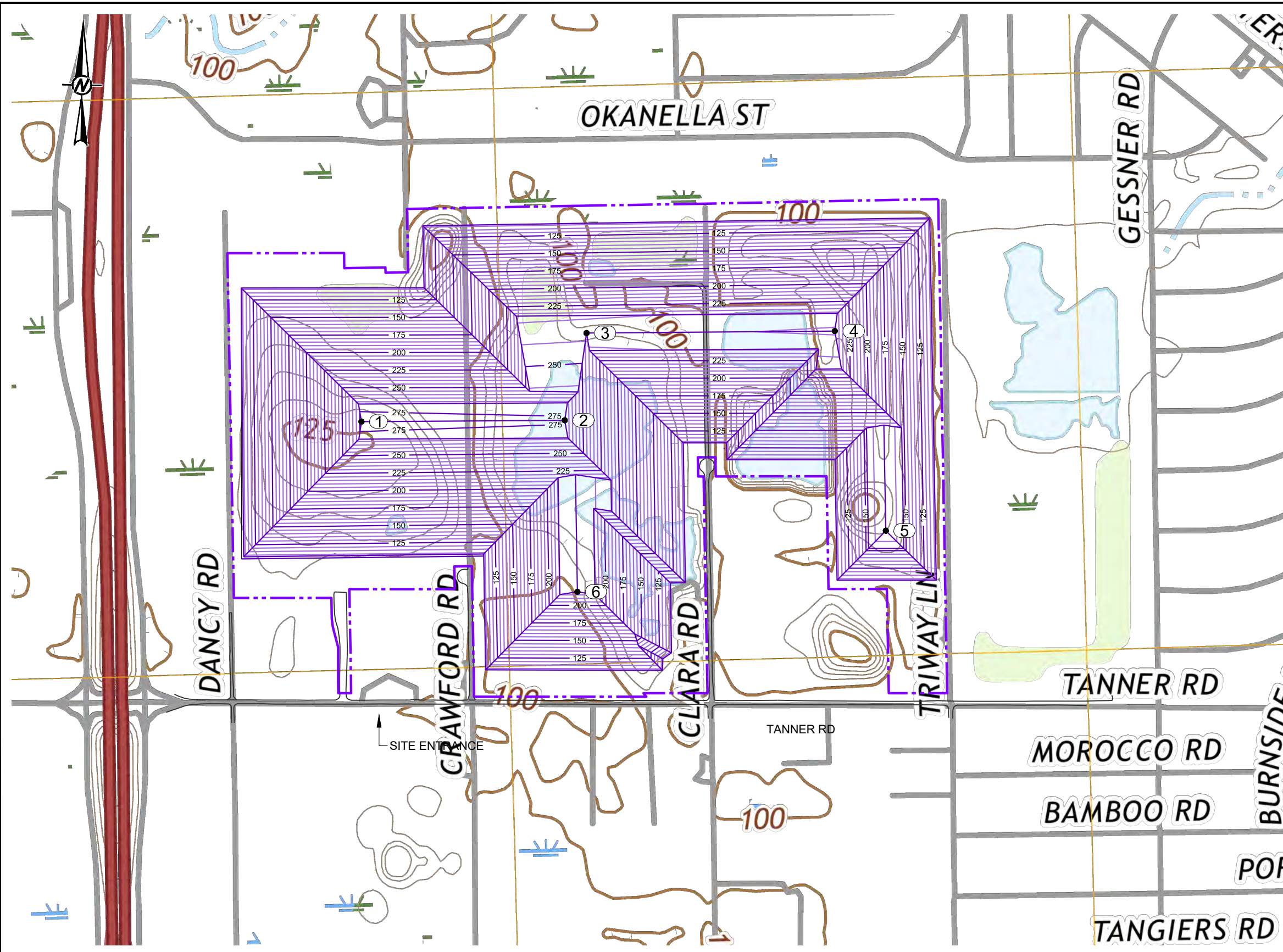
HOUSTON OFFICE
 500 CENTURY PLAZA DR., SUITE 190
 HOUSTON, TEXAS
 USA
 (281) 821-6868
 www.golder.com

PROJECT
 HAWTHORN PARK
 PERMIT AMENDMENT APPLICATION TCEQ PERMIT

TITLE
FAA LOCATION RESTRICTION MAP

PROJECT NO. 1894269 APPLICATION SECTION PART II REV. 0 2 of 3 FIGURE 2

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B



USGS LEGEND		RIVERS, LAKES, AND CANALS	
BUILDINGS AND RELATED FEATURES		Perennial stream	
Building		Perennial river	
School; house of worship		Intermittent stream	
Athletic field		Intermittent river	
Built-up area		Perennial lake/pond	
Forest headquarters*		Intermittent lake/pond	
Ranger district office*		Dry lake/pond	
Guard station or work center*		Narrow wash	
Racetrack or raceway		Wide wash	
Airport, paved landing strip, runway, taxiway, or apron		Canal, flume, or aqueduct with lock	
Unpaved landing strip		Elevated aqueduct, flume, or conduit	
Well (other than water), windmill or wind generator		MINES AND CAVES	
Tanks		Quarry or open pit mine	
Covered reservoir		Gravel, sand, clay, or borrow pit	
Gaging station		CONTROL DATA AND MONUMENTS	
Located or landmark object (feature as labeled)		Principal point**	
Boat ramp or boat access*		U.S. mineral or location monument	
Roadside park or rest area		River mileage marker	
Picnic area		Boundary monument	
Campground		Third-order or better elevation, with tablet	
ROADS AND RELATED FEATURES		Third-order or better elevation, recoverable mark, no tablet	
Please note: Roads on Provisional maps are not classified as primary, secondary, or light duty. These roads are all classified as improved roads and are symbolized the same as light duty roads.			
Primary highway		With number and elevation	
Secondary highway		Horizontal control	
Light duty road, paved*		Third-order or better, permanent mark	
Light duty road, gravel*		With third-order or better elevation	
Light duty road, dirt*		With checked spot elevation	
Light duty road, unspecified*		Coincident with found section corner	
Unimproved road*		Unmonumented**	
4WD road		PROJECTION AND GRIDS	
4WD road*		Neatline	
Trail		Graticule tick	
Highway or road with median strip		Graticule intersection	
Highway or road under construction		Datum shift tick	
Highway or road overpass, overpass		State plane coordinate systems	
Highway or road bridge, drawbridge		Primary zone tick	
Highway or road tunnel		Secondary zone tick	
Road block, berm, or barrier*		Tertiary zone tick	
Gate on road*		Quaternary zone tick	
CONTOURS		Quinary zone tick	
Topographic		Universal transverse mercator grid	
Index		UTM grid (full grid)	
Approximate or indefinite		UTM grid ticks*	
Intermediate			
Approximate or indefinite			
Supplementary			
Depression			

LEGEND

EXPANSION PERMIT BOUNDARY

ANALYSIS POINT

NOTE(S)

- PRECONSTRUCTION SITE GRADE IS APPROXIMATELY 100 FEET ABOVE MEAN SEA LEVEL.
- BASE MAP INITIALLY DEVELOPED BY THE UNITED STATES GEOLOGICAL SURVEY (USGS) AND ENHANCED BY TEXAS NATURAL RESOURCE INFORMATION SYSTEM.

ANALYSIS POINT AND ELEVATION TABLE			
POINT NO.	LATITUDE	LONGITUDE	APPROX. ELEVATION (ft-msl)
1	N029°51'15.87"	W095°33'32.80"	278
2	N029°51'15.86"	W095°33'19.67"	276
3	N029°51'20.76"	W095°33'18.22"	243
4	N029°51'20.78"	W095°33'02.18"	246
5	N029°51'09.51"	W095°32'58.98"	158
6	N029°51'06.19"	W095°33'18.93"	220

ISSUED FOR PERMITTING PURPOSES ONLY



0	2020-07-06	ISSUED FOR PERMITTING PURPOSES ONLY	TNB	TNB	CGD	PRM
REV.	YYYY-MM-DD	DESCRIPTION	DESIGNED	PREPARED	REVIEWED	APPROVED



CLIENT

CONSULTANT

HOUSTON NORTH OFFICE
14950 HEATHROW FOREST PKWY, STE 280
HOUSTON, TEXAS 77032
USA
[+1] (281) 821-6868
www.golder.com

PROJECT
HAWTHORN PARK
PERMIT AMENDMENT APPLICATION TCEQ PERMIT

TITLE
LANDFILL FINAL COVER ELEVATIONS AND ANALYSIS POINTS

PROJECT NO. 1894269 APPLICATION SECTION PART II REV. 0 3 of 3 FIGURE 3

Path: \\Houston\staffing\VisualManagement\Houston\Park\10_CADD\CIVIL\3DPA\PA\10_11_Fin_Names_1894269-001-003.dwg

1 in. IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM ANSI B

Appendix IIB-3B
FAA Correspondence



Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9100-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Landfill Hawthorn Park Landfill - 1
Location: Houston, TX
Latitude: 29-51-16.13N NAD 83
Longitude: 95-33-32.15W
Heights: 125 feet site elevation (SE)
102 feet above ground level (AGL)
227 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9100-OE.

Signature Control No: 444723707-447631768

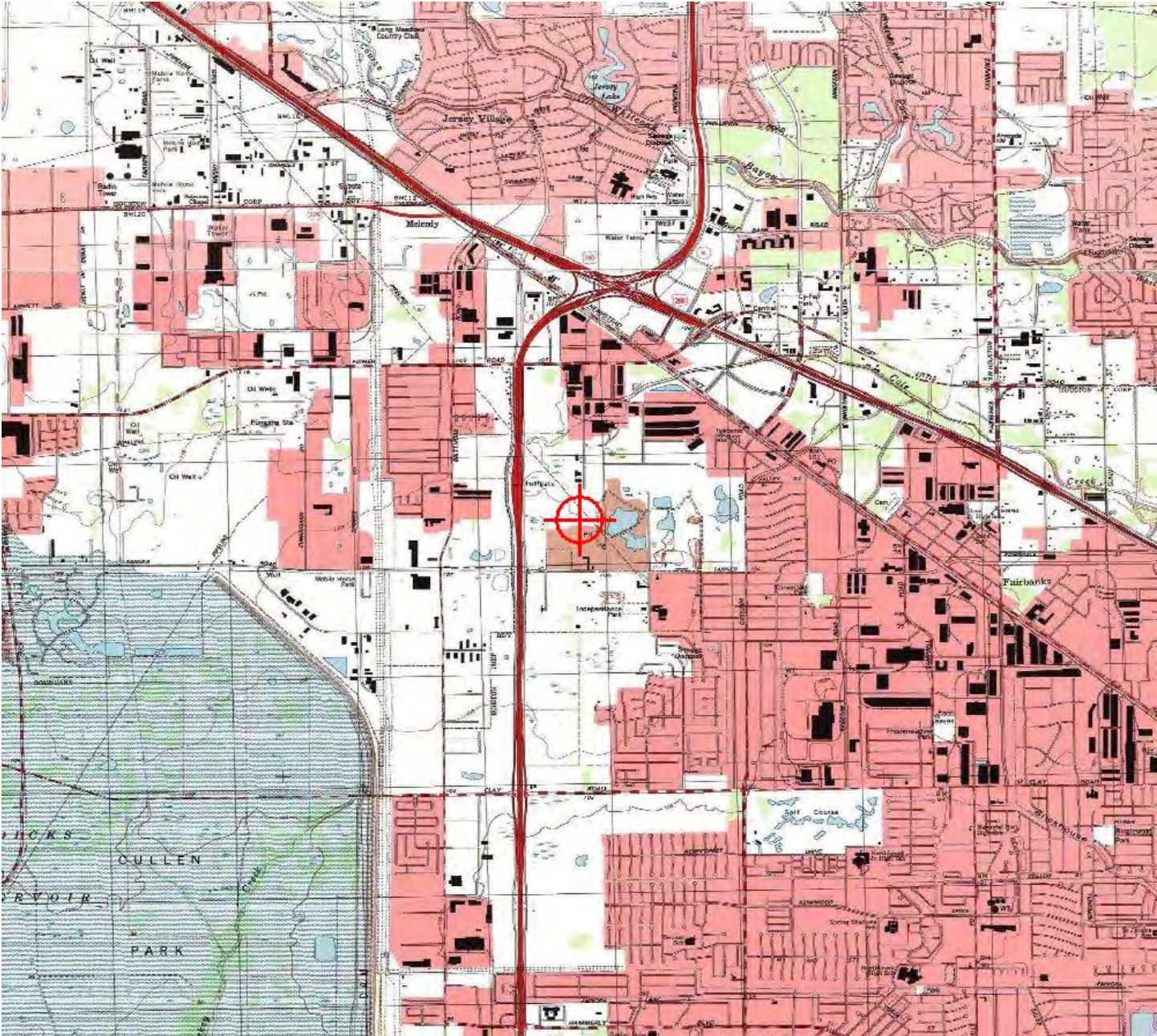
(DNE)

Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9100-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.





Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9101-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Landfill Hawthorn Park Landfill - 2
Location: Houston, TX
Latitude: 29-51-16.12N NAD 83
Longitude: 95-33-20.32W
Heights: 89 feet site elevation (SE)
138 feet above ground level (AGL)
227 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9101-OE.

Signature Control No: 444723714-447631766

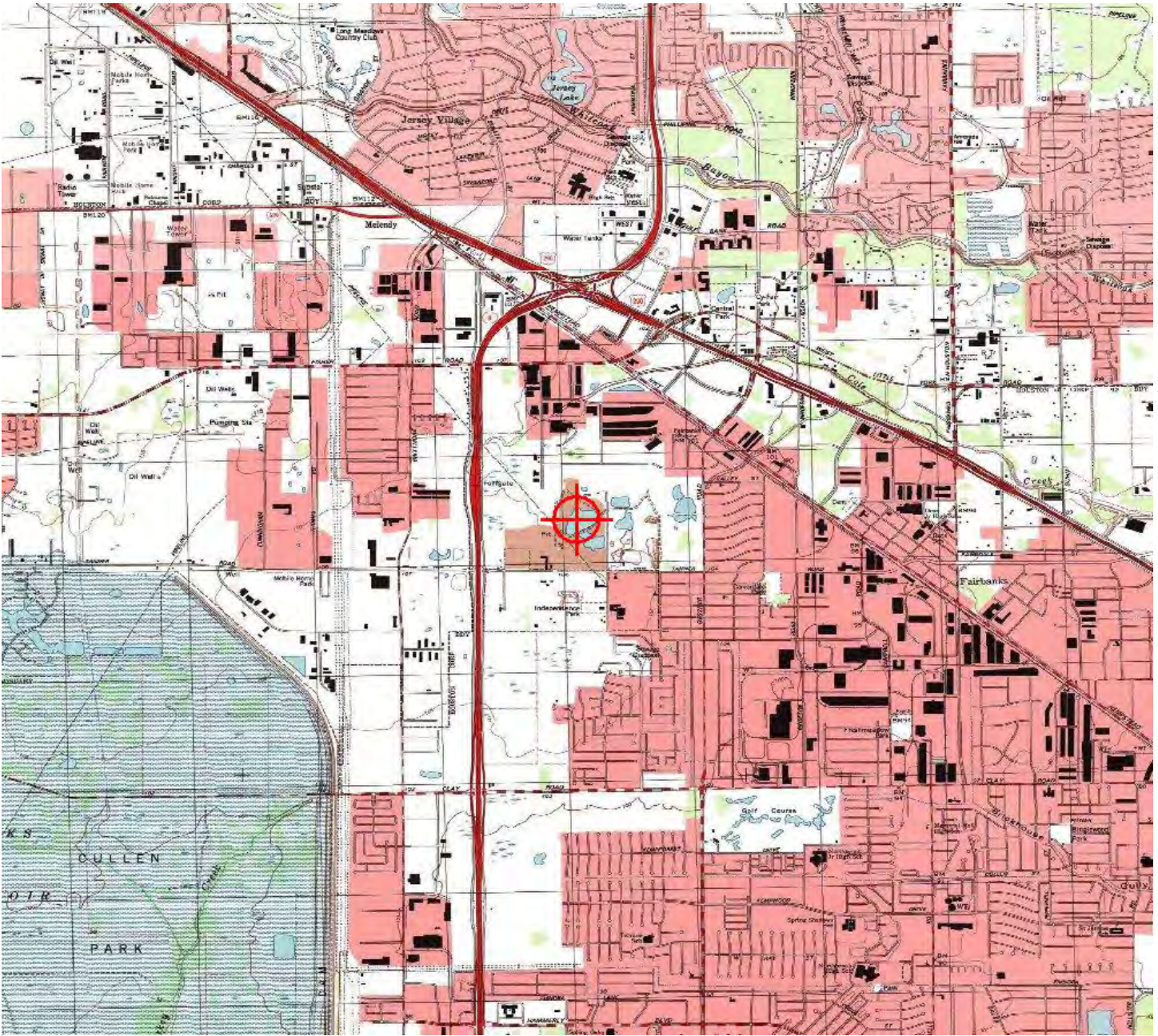
(DNE)

Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9101-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.







Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9102-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Landfill Hawthorn Park Landfill - 3
Location: Houston, TX
Latitude: 29-51-19.71N NAD 83
Longitude: 95-33-20.36W
Heights: 89 feet site elevation (SE)
138 feet above ground level (AGL)
227 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9102-OE.

Signature Control No: 444723720-447631765

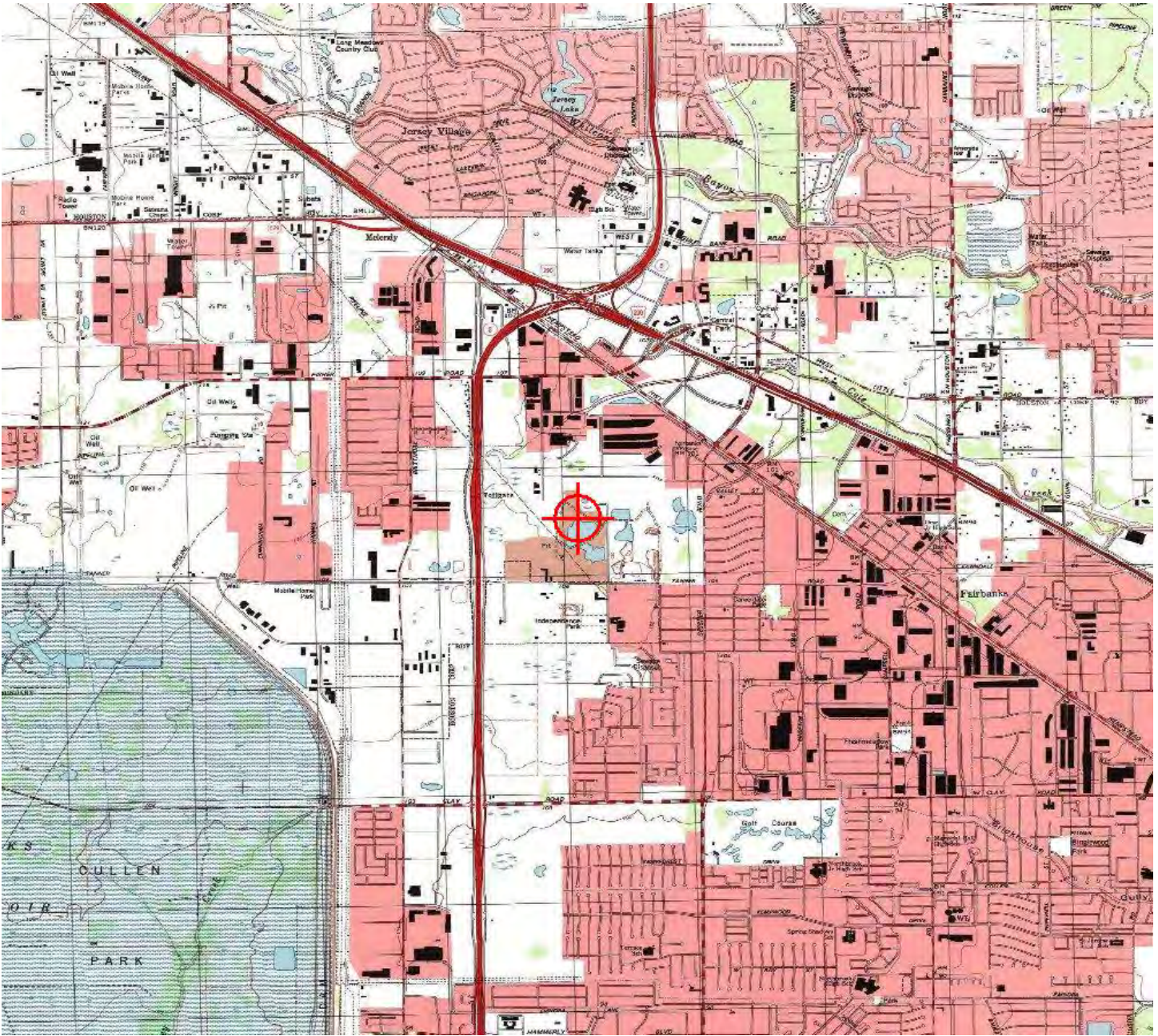
(DNE)

Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9102-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.







Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9103-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure: Landfill Hawthorn Park Landfill - 4
Location: Houston, TX
Latitude: 29-51-20.78N NAD 83
Longitude: 95-33-03.13W
Heights: 106 feet site elevation (SE)
117 feet above ground level (AGL)
223 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9103-OE.

Signature Control No: 444723724-447631770

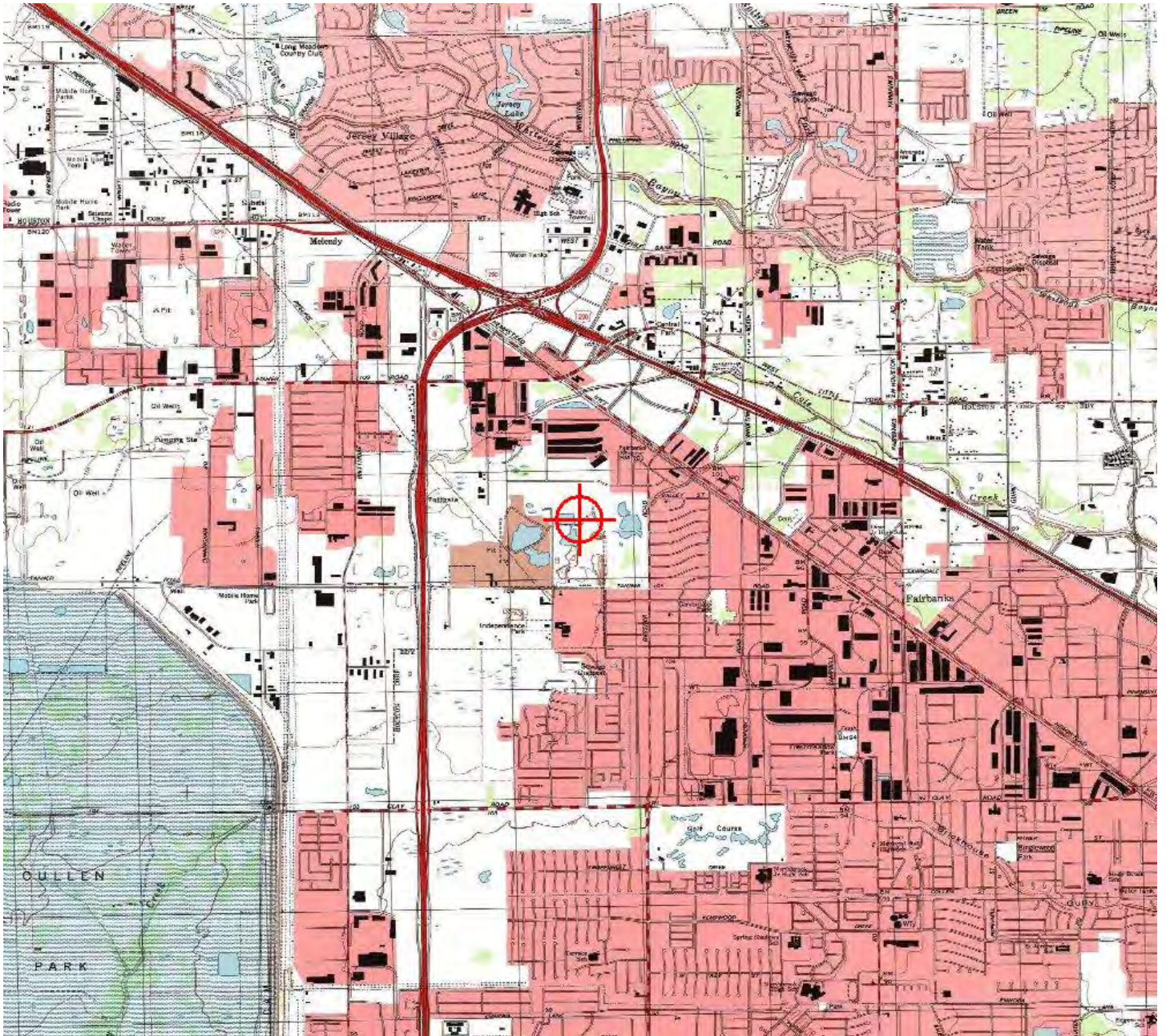
(DNE)

Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9103-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.







Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9104-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Landfill Hawthorn Park Landfill - 5
Location:	Houston, TX
Latitude:	29-51-09.51N NAD 83
Longitude:	95-32-58.98W
Heights:	109 feet site elevation (SE) 49 feet above ground level (AGL) 158 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9104-OE.

Signature Control No: 444723742-447631767

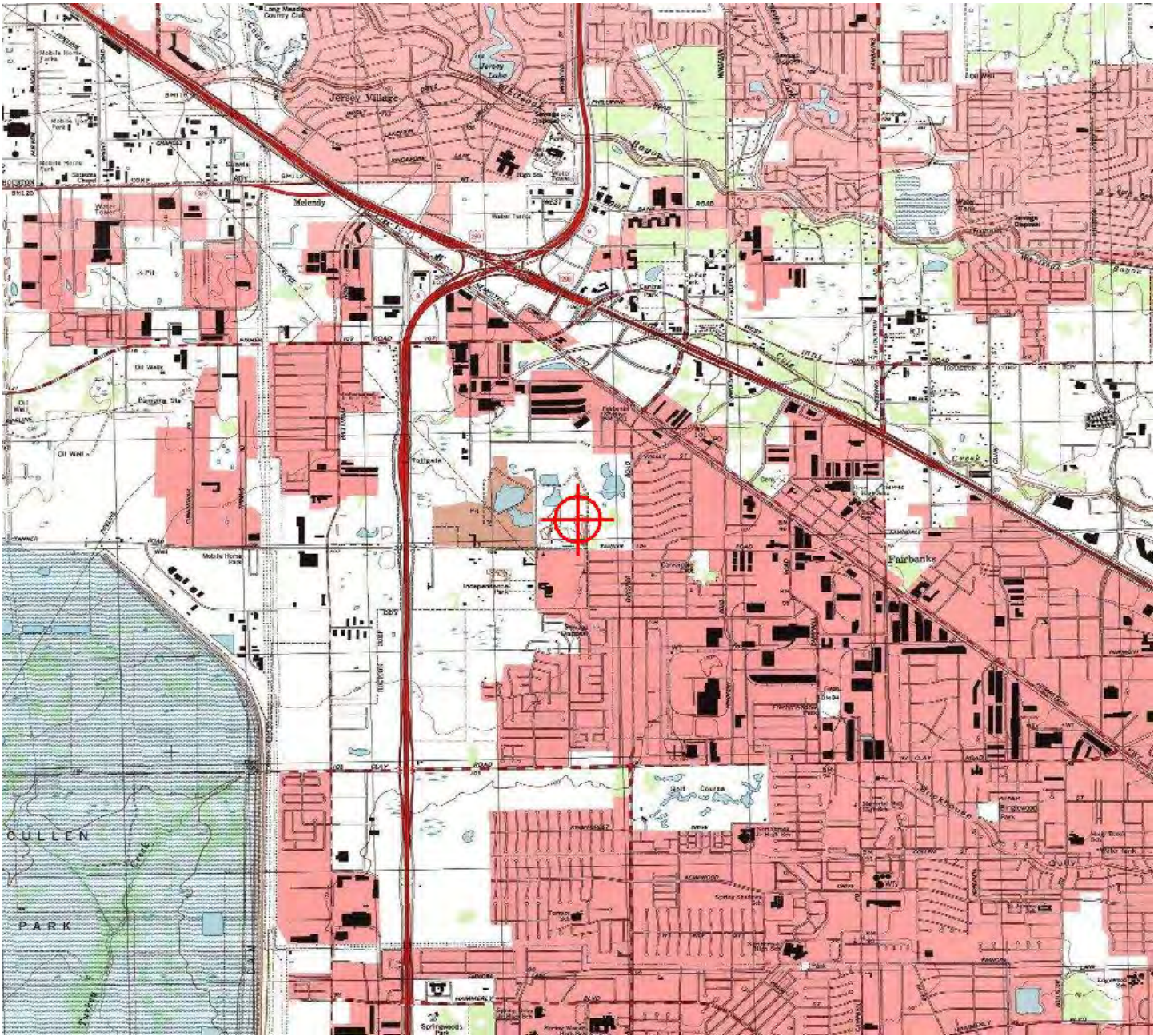
(DNE)

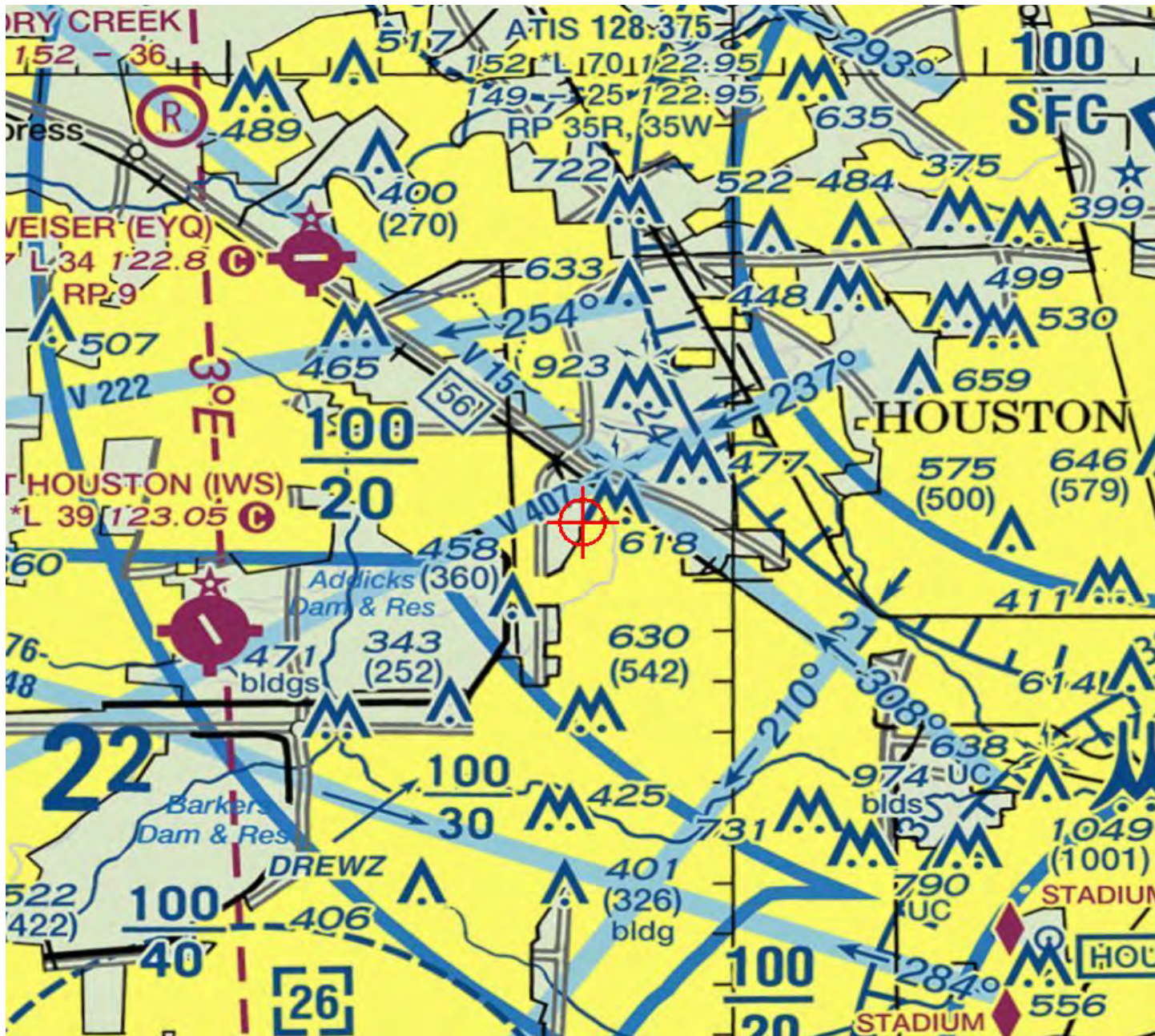
Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9104-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.







Mail Processing Center
Federal Aviation Administration
Southwest Regional Office
Obstruction Evaluation Group
10101 Hillwood Parkway
Fort Worth, TX 76177

Aeronautical Study No.
2020-ASW-9105-OE

Issued Date: 08/05/2020

Charles A. Rivette, P.E.
USA Waste of Texas Landfills, Inc
24275 Katy Freeway
Ste 450
Katy, TX 77494

**** DETERMINATION OF NO HAZARD TO AIR NAVIGATION ****

The Federal Aviation Administration has conducted an aeronautical study under the provisions of 49 U.S.C., Section 44718 and if applicable Title 14 of the Code of Federal Regulations, part 77, concerning:

Structure:	Landfill Hawthorn Park Landfill - 6
Location:	Houston, TX
Latitude:	29-51-07.03N NAD 83
Longitude:	95-33-18.93W
Heights:	89 feet site elevation (SE) 131 feet above ground level (AGL) 220 feet above mean sea level (AMSL)

This aeronautical study revealed that the structure does not exceed obstruction standards and would not be a hazard to air navigation provided the following condition(s), if any, is(are) met:

Based on this evaluation, marking and lighting are not necessary for aviation safety. However, if marking/lighting are accomplished on a voluntary basis, we recommend it be installed in accordance with FAA Advisory circular 70/7460-1 L Change 2.

This determination expires on 02/05/2022 unless:

- (a) the construction is started (not necessarily completed) and FAA Form 7460-2, Notice of Actual Construction or Alteration, is received by this office.
- (b) extended, revised, or terminated by the issuing office.
- (c) the construction is subject to the licensing authority of the Federal Communications Commission (FCC) and an application for a construction permit has been filed, as required by the FCC, within 6 months of the date of this determination. In such case, the determination expires on the date prescribed by the FCC for completion of construction, or the date the FCC denies the application.

NOTE: REQUEST FOR EXTENSION OF THE EFFECTIVE PERIOD OF THIS DETERMINATION MUST BE E-FILED AT LEAST 15 DAYS PRIOR TO THE EXPIRATION DATE. AFTER RE-EVALUATION OF CURRENT OPERATIONS IN THE AREA OF THE STRUCTURE TO DETERMINE THAT NO

SIGNIFICANT AERONAUTICAL CHANGES HAVE OCCURRED, YOUR DETERMINATION MAY BE ELIGIBLE FOR ONE EXTENSION OF THE EFFECTIVE PERIOD.

This determination is based, in part, on the foregoing description which includes specific coordinates, heights, frequency(ies) and power. Any changes in coordinates, heights, and frequencies or use of greater power, except those frequencies specified in the Colo Void Clause Coalition; Antenna System Co-Location; Voluntary Best Practices, effective 21 Nov 2007, will void this determination. Any future construction or alteration, including increase to heights, power, or the addition of other transmitters, requires separate notice to the FAA. This determination includes all previously filed frequencies and power for this structure.

If construction or alteration is dismantled or destroyed, you must submit notice to the FAA within 5 days after the construction or alteration is dismantled or destroyed.

This determination does include temporary construction equipment such as cranes, derricks, etc., which may be used during actual construction of the structure. However, this equipment shall not exceed the overall heights as indicated above. Equipment which has a height greater than the studied structure requires separate notice to the FAA.

This determination concerns the effect of this structure on the safe and efficient use of navigable airspace by aircraft and does not relieve the sponsor of compliance responsibilities relating to any law, ordinance, or regulation of any Federal, State, or local government body.

If we can be of further assistance, please contact our office at (817) 222-5933, or andrew.hollie@faa.gov. On any future correspondence concerning this matter, please refer to Aeronautical Study Number 2020-ASW-9105-OE.

Signature Control No: 444723762-447631769

(DNE)

Andrew Hollie
Specialist

Attachment(s)
Case Description
Map(s)

Case Description for ASN 2020-ASW-9105-OE

The facility is currently an active landfill that disposes of non-putrescible wastes. The site is currently permitted to be filled to approximately 40 feet above site grade. The proposed expansion increases the fill height to approximately 178 feet above site grade.

