



RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-16A

Page 1 of 1

| | | | |
|---|---------------------------|--|--|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GS2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 130.0 feet | Date Started: 3/25/2020 | Water Depth Elevation (feet bgs) (feet) | Cave-In Depth Elevation (feet bgs) (feet) |
| Termination Depth: 9.0 feet bgs | Date Completed: 3/25/2020 | During: NE --- ▾ | At Completion: --- --- ▾ |
| Proposed Location: Building | Logged By: MH | At Completion: --- --- ▾ | At Completion: --- --- ▾ |
| Drill / Test Method: HSA / SPT | Contractor: JG | 24 Hours: --- --- ▾ | 24 Hours: --- --- ▾ |
| | Equipment: CME-55 | | |

| SAMPLE INFORMATION | | | | | | DEPTH | STRATA | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|----|------|--------------|---------------|---|--------|--------|--|---------|
| Depth (feet) | No | Type | Blows Per 6" | Rec. (In.) | N | (feet) | | | |
| | | | | | | 0.0 | | Offset B-16 4' West Augered to Refusal | |
| | | | | | | 5.0 | | | |
| | | | | | | 9.0 | | | |
| | | | | | | 10.0 | | Boring Log B-16A Terminated at a Depth of 9.0 Feet Below Ground Surface Due to Auger Refusal | |
| | | | | | | 15.0 | | | |
| | | | | | | 20.0 | | | |
| | | | | | | 25.0 | | | |

NOTES: bgs = below ground surface, NA = Not Applicable, NE = Not Encountered, NS = Not Surveyed, P = Perched

RECORD OF SUBSURFACE EXPLORATION

 Boring No.: **B-17**

 Page **1** of **1**

| | | | |
|--|----------------------------------|---|---|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GS2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 130.0 feet | Date Started: 3/25/2020 | Water Depth Elevation (feet bgs) (feet) | Cave-In Depth Elevation (feet bgs) (feet) |
| Termination Depth: 18.1 feet bgs | Date Completed: 3/25/2020 | During: 15.0P 115.0 | At Completion: — — |
| Proposed Location: Building | Logged By: MH | At Completion: 18.0 112.0 | At Completion: — — |
| Drill / Test Method: HSA / SPT | Contractor: JG | 24 Hours: — — | 24 Hours: — — |
| | Equipment: CME-55 | | |

| SAMPLE INFORMATION | | | | | | DEPTH | STRATA | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|-----|------|-------------------|---------------|-------|--------|----------|--|--|
| Depth (feet) | No | Type | Blows Per 6" | Rec. (in.) | N | (feet) | | | |
| | | | | | | 0.0 | | | |
| | | | | | | 0.5 | PAVEMENT | 3" Asphalt, 3" Subbase Stone | |
| | | | | | | | FILL | | |
| 1 - 3 | S-1 | | 6 - 8 - 13 - 29 | 12 | 22 | | | Brown Silty Sand with Gravel, Debris, Moist (FILL) | Debris: Trace Cinders |
| 3 - 5 | S-2 | | 8 - 32 - 11 - 9 | 20 | 43 | 4.0 | | As Above, Dark Gray (FILL) | |
| | | | | | | 5.0 | | Brown Silty Sand, Moist, Dense (SM) | Apparent Re-Worked Material 4.0 fbgs to 9.0 fbgs |
| 5 - 7 | S-3 | | 9 - 22 - 10 - 11 | 20 | 32 | | | Brown Poorly Graded Sand with Silt, Moist (FILL) | |
| 7 - 9 | S-4 | | 6 - 5 - 5 - 5 | 20 | 10 | | | | |
| 9 - 11 | S-5 | | 5 - 5 - 11 - 22 | 20 | 16 | 10.0 | | Brown Silty Sand, Debris, Moist (FILL) | |
| 11 - 13 | S-6 | | 18 - 18 - 18 - 19 | 20 | 36 | | | As Above (FILL) | |
| 13 - 15 | S-7 | | 5 - 4 - 4 - 4 | 20 | 9 | 13.0 | RESIDUAL | Brown Silty Sand, Very Moist, Loose (SM) | |
| 15 - 17 | S-8 | | 3 - 3 - 3 - 8 | 22 | 6 | 15.0 | | As Above, Wet (SM) | |
| | | | | | | 18.0 | | No Recovery, Presumed Rock | Stick in Spoon |
| 18 - 18.1 | S-9 | | 50/1" | NR | 50/1" | | | Boring Log B-17 Terminated at a Depth of 18.0 Feet Below Ground Surface Due to Auger Refusal | |
| | | | | | | 20.0 | | | |
| | | | | | | 25.0 | | | |

RECORD OF SUBSURFACE EXPLORATION

 Boring No.: **B-18**

 Page 1 of 1

| | | | |
|--|----------------------------------|---|---|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GS2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 130.0 feet | Date Started: 3/25/2020 | Water Depth Elevation (feet bgs) (feet) | Cave-In Depth Elevation (feet bgs) (feet) |
| Termination Depth: 6.5 feet bgs | Date Completed: 3/25/2020 | During: NE --- ▽ | At Completion: --- --- ▽ |
| Proposed Location: Building | Logged By: MH | 24 Hours: --- --- ▽ | 24 Hours: --- --- ▽ |
| Drill / Test Method: HSA / SPT | Contractor: JG | | |
| | Equipment: CME-55 | | |

| SAMPLE INFORMATION | | | | | | DEPTH | STRATA | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|-----|------|-----------------|---------------|--------|--------|----------|--|--|
| Depth (feet) | No | Type | Blows Per 6" | Rec. (in.) | N | (feet) | | | |
| | | | | | | 0.0 | | | |
| | | | | | | 0.5 | PAVEMENT | 3" Asphalt, 3" Subbase Stone | |
| | | | | | | | FILL | | |
| 1 - 3 | S-1 | X | 5 - 7 - 21 - 15 | 12 | 28 | | | Dark Gray Silty Sand, Debris, Moist (FILL) | Debris: Trace Cinders, Trace Concrete |
| 3 - 5 | S-2 | X | 14 - 18 - 9 - 7 | 10 | 27 | | | As Above (FILL) | Debris: Trace Coal, Wood |
| 5 - 6.4 | S-3 | X | 5 - 7 - 50/5" | 3 | 57/11" | | | Low Recovery, Presume As Above (FILL) | Gravel in Spoon Tip |
| | | | | | | 6.5 | | | |
| | | | | | | | | Boring Log B-18 Terminated at a Depth of 6.5 Feet Below Ground Surface Due to Auger Refusal; Offset to B-18A | |
| | | | | | | 10.0 | | | |
| | | | | | | 15.0 | | | |
| | | | | | | 20.0 | | | |
| | | | | | | 25.0 | | | |



RECORD OF SUBSURFACE EXPLORATION

Boring No.: B-18A

Page 1 of 1

| | | | |
|---|---------------------------|--|--|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GS2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 130.0 feet | Date Started: 3/25/2020 | Water Depth Elevation (feet bgs) (feet) | Cave-In Depth Elevation (feet bgs) (feet) |
| Termination Depth: 6.5 feet bgs | Date Completed: 3/25/2020 | During: NE --- ▼ | At Completion: --- --- ☒ |
| Proposed Location: Building | Logged By: MH | At Completion: --- --- ▼ | 24 Hours: --- --- ☒ |
| Drill / Test Method: HSA / SPT | Contractor: JG | 24 Hours: --- --- ▼ | |
| | Equipment: CME-55 | | |

| SAMPLE INFORMATION | | | | | | DEPTH | STRATA | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|----|------|--------------|---------------|---|--------|--------|---|---------|
| Depth (feet) | No | Type | Blows Per 6" | Rec. (in.) | N | (feet) | | | |
| | | | | | | 0.0 | | Offset B-18 5' West Augered to Refusal | |
| | | | | | | 5.0 | | | |
| | | | | | | 6.5 | | | |
| | | | | | | 10.0 | | Boring Log B-18A Terminated at a Depth of 6.5 Feet Below Ground Surface Due to Auger Refusal on Boulder/Rock | |
| | | | | | | 15.0 | | | |
| | | | | | | 20.0 | | | |
| | | | | | | 25.0 | | | |

RECORD OF SUBSURFACE EXPLORATION

 Soil Profile Pit No.: **SPP-1**

 Page **1** of **1**

| | | | |
|--|----------------------------------|---|--|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GJ2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 158.0 feet | Date Started: 3/18/2020 | Water Depth Elevation (feet bgs) (feet) | Estimated Seasonal High Groundwater Depth Elevation (feet bgs) (feet) |
| Termination Depth: 11.0 feet bgs | Date Completed: 3/18/2020 | During: NE --- ▼ | At Completion: --- --- ▼ |
| Proposed Location: SWM | Logged By: MH | 24 Hours: --- --- ▼ | At Completion: --- --- |
| Excavating Method: Test Pit Excavation | Contractor: MC | | |
| Test Method: Visual Observation | Rig Type: Deere 4105 | | |

| SAMPLE INFORMATION | | | DEPTH | HORIZON | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|--------|------|-------|------------------|---|------------------------------|
| Depth (feet) | Number | Type | feet | | | |
| 0.0 | | | | | | |
| | 0 - 1 | | | TOPSOIL | 12" Topsoil | |
| 1.0 | | | | | | |
| | 1 - 4 | | | FILL | Gray (2.5YR 5/1) LOAMY SAND; 5% Gravel, <5% Boulders; Granular; Moist; Friable 10% Roots; No Mottling; Clear Boundary | Debris: Concrete, Bricks |
| 2.0 | | | | | | |
| 3.0 | | | | | | |
| 4.0 | | | | | | |
| | 4 - 11 | | | GLACIAL DEPOSITS | Brown (7.5YR 4/4) LOAMY SAND; <5% Gravel; Granular; Moist; Friable; No Roots; No Mottling; Clear Boundary | Infiltration Test @ 4.0 fbgs |
| 5.0 | | | | | | |
| 6.0 | | | | | | |
| 7.0 | | | | | | |
| 8.0 | | | | | | |
| 9.0 | | | | | | |
| 10.0 | | | | | | |
| 11.0 | | | | | | |
| | | | | | Soil Profile Pit SPP-1 Terminated at a Depth of 11.0 Feet Below Ground Surface Due to Bucket Refusal on Boulder/Rock | |
| 12.0 | | | | | | |
| 13.0 | | | | | | |
| 14.0 | | | | | | |
| 15.0 | | | | | | |

RECORD OF SUBSURFACE EXPLORATION

 Soil Profile Pit No.: **SPP-2**

 Page **1** of **1**

| | | | |
|--|----------------------------------|---|---|
| Project: Proposed Mixed-Use Development | | WAI Project No.: GJ2016988.000 | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | Client: Shore Point Engineering | |
| Surface Elevation: ± 158.0 feet | Date Started: 3/18/2020 | Water Depth Elevation (feet bgs) (feet) | Estimated Seasonal High |
| Termination Depth: 12.0 feet bgs | Date Completed: 3/18/2020 | During: NE --- ▽ | Groundwater Depth Elevation (feet bgs) (feet) |
| Proposed Location: SWM | Logged By: MH | At Completion: --- --- ▽ | At Completion: --- --- |
| Excavating Method: Test Pit Excavation | Contractor: MC | 24 Hours: --- --- ▽ | |
| Test Method: Visual Observation | Rig Type: Deere 4105 | | |

| SAMPLE INFORMATION | | | DEPTH | HORIZON | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|--------|------|----------|------------------|--|---------|
| Depth (feet) | Number | Type | feet | | | |
| | | | 0.0 | | | |
| | | | 0 - 0.4 | TOPSOIL | 5" Topsoil | |
| | | | 0.4 - 12 | GLACIAL DEPOSITS | Brown (7.5YR 4/4) SAND; 5% Gravel; Granular; Moist; Friable; No Roots; No Mottling; Clear Boundary | |
| | | | 1.0 | | | |
| | | | 2.0 | | | |
| | | | 3.0 | | | |
| | | | 4.0 | | | |
| | | | 5.0 | | | |
| | | | 6.0 | | | |
| | | | 7.0 | | | |
| | | | 8.0 | | | |
| | | | 9.0 | | | |
| | | | 10.0 | | | |
| | | | 11.0 | | | |
| | | | 12.0 | | | |
| | | | | | Soil Profile Pit SPP-2 Terminated at a Depth of 12.0 Feet Below Ground Surface | |
| | | | 13.0 | | | |
| | | | 14.0 | | | |
| | | | 15.0 | | | |

 Infiltration Test @
4.0 fbgs

 Some Boulders
8.0 fbgs to 12.0 fbgs

RECORD OF SUBSURFACE EXPLORATION

 Soil Profile Pit No.: **SPP-4**

 Page **1** of **1**

| | | | | | |
|--|----------------------------------|--|--|--|--|
| Project: Proposed Mixed-Use Development | | | WAI Project No.: GJ2016988.000 | | |
| Location: Liberty Street & Maple Street; Paterson, Passaic County, NJ | | | Client: Shore Point Engineering | | |
| Surface Elevation: ± 158.0 feet | Date Started: 3/18/2020 | Water Depth Elevation (feet bgs) (feet) | Estimated Seasonal High Groundwater Depth Elevation (feet bgs) (feet) | | |
| Termination Depth: 12.0 feet bgs | Date Completed: 3/18/2020 | During: NE --- ▽ | At Completion: --- --- ▽ | | |
| Proposed Location: SWM | Logged By: MH | At Completion: --- --- ▽ | 24 Hours: --- --- ▽ | | |
| Excavating Method: Test Pit Excavation | Contractor: MC | At Completion: --- --- | | | |
| Test Method: Visual Observation | Rig Type: Deere 4105 | | | | |

| SAMPLE INFORMATION | | | DEPTH | HORIZON | DESCRIPTION OF MATERIALS (Classification) | REMARKS |
|--------------------|--------|------|----------|------------------|---|----------------------------------|
| Depth (feet) | Number | Type | feet | | | |
| | | | 0.0 | | | |
| | | | 0 - 0.4 | TOPSOIL | 5" Topsoil | |
| | | | 0.4 - 12 | GLACIAL DEPOSITS | Brown (7.5YR 4/4) SAND; <5% Gravel; Granular; Moist; Friable; No Roots; No Mottling; Clear Boundary | |
| | | | 1.0 | | | |
| | | | 2.0 | | | |
| | | | 3.0 | | | |
| | | | 4.0 | | | |
| | | | 5.0 | | | |
| | | | 6.0 | | | |
| | | | 7.0 | | | |
| | | | 8.0 | | | |
| | | | 9.0 | | | |
| | | | 10.0 | | | |
| | | | 11.0 | | | |
| | | | 12.0 | | | |
| | | | | | | Cobbles @ 9.0 fbs to 12.0 fbs |
| | | | | | Soil Profile Pit SPP-4 Terminated at a Depth of 12.0 Feet Below Ground Surface | |
| | | | 13.0 | | | |
| | | | 14.0 | | | |
| | | | 15.0 | | | |



INFILTRATION TEST

Test Hole No.: SPP-1

Date: 3/18/2020

Weather: Sunny, 56° F

Field Engineer: M. Hengler

| | | |
|-------------------------|------|--------|
| Test Depth Ft. Elev.: | 4.00 | 154.00 |
|-------------------------|------|--------|

[illegible]Field $i = 0.0$ in/hr



INFILTRATION TEST

Test Hole No.: SPP-2

Date: 3/18/2020

Weather: Sunny, 56° F

Field Engineer: M. Hengler

| | | |
|-------------------------|------|--------|
| Test Depth Ft. Elev.: | 4.00 | 156.00 |
|-------------------------|------|--------|

[illegible]Field $i = 0.0$ in/hr



WHITESTONE
ASSOCIATES, INC.

INFILTRATION TEST

Client: Shore Point Engineering

Test Hole No.: SPP-4

Project: Prop. Mixed-Use Development

Date: 3/18/2020

Location: Paterson, NJ

Weather: Sunny, 56° F

File No. GS2016988.000

Field Engineer: M. Hengler

Surf. Elev. 158.00

Test Depth Ft. | Elev.: 4.00 | 154.00

| Reading No. | Time | | Water Level Reading (inches) | | Water Level Fall (Inches) | Time Interval (Hours) | Rate of Flow (Inches/Hour) |
|-------------|----------|----------|------------------------------|--------|---------------------------|-----------------------|----------------------------|
| | Start | Finish | Start | Finish | | | |
| PS | 10:50 AM | 11:10 AM | 8.0 | 4.0 | 4.0 | 0.33 | 12.0 |
| R-1 | 11:10 AM | 11:30 AM | 8.0 | 4.0 | 4.0 | 0.33 | 12.0 |
| R-2 | 11:30 AM | 11:50 AM | 8.0 | 4.0 | 4.0 | 0.33 | 12.0 |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

Field i = 0.0 in/hr

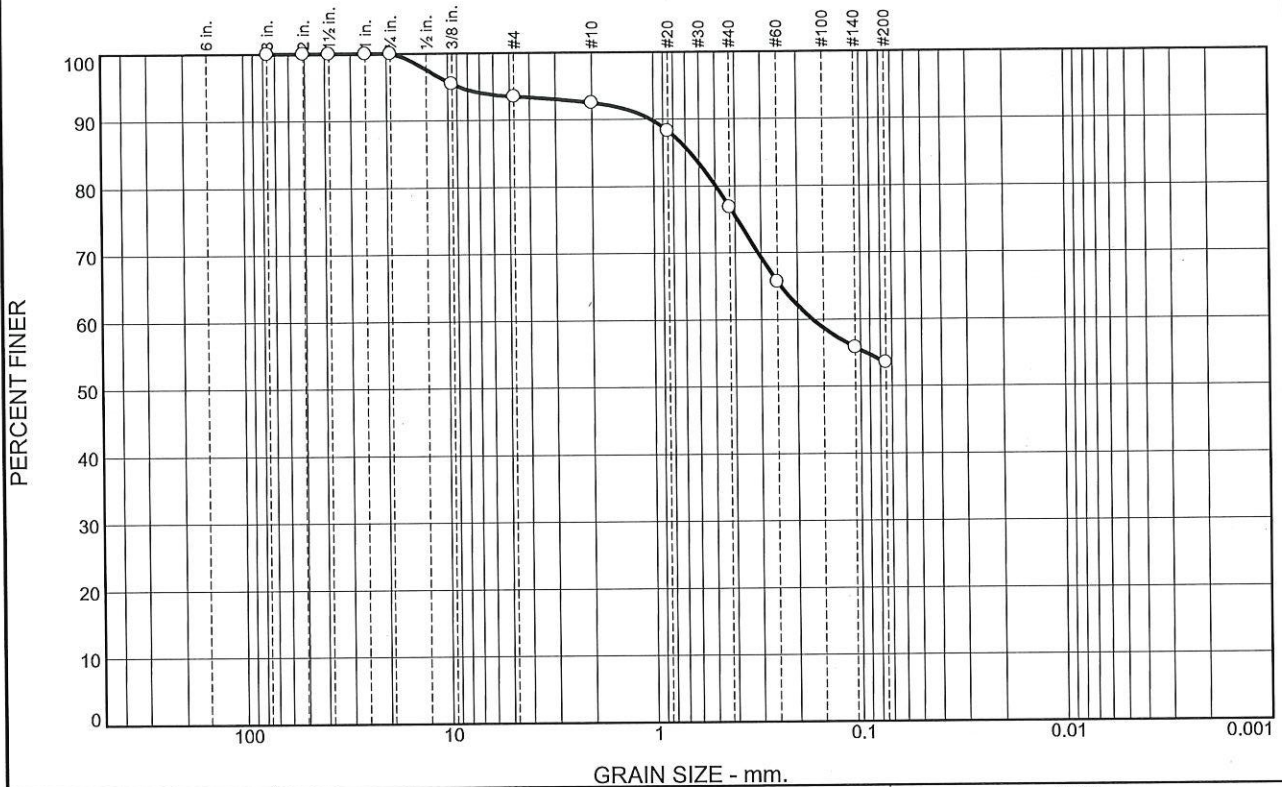


WHITESTONE
ASSOCIATES, INC.

APPENDIX B

Laboratory Test Results

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 6.5 | 1.0 | 15.7 | 23.3 | 53.5 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3 | 100.0 | | |
| 2 | 100.0 | | |
| 1.5 | 100.0 | | |
| 1 | 100.0 | | |
| .75 | 100.0 | | |
| .375 | 95.4 | | |
| #4 | 93.5 | | |
| #10 | 92.5 | | |
| #20 | 88.2 | | |
| #40 | 76.8 | | |
| #60 | 65.6 | | |
| #140 | 55.8 | | |
| #200 | 53.5 | | |

* (no specification provided)

Material Description

Sandy Lean Clay

PL= 18

Atterberg Limits

LL= 27

PI= 9

Coefficients

D₉₀= 1.0367

D₈₅= 0.6634

D₆₀= 0.1699

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= CL

AASHTO= A-4(2)

Remarks

W_n = 17.2 %

Source of Sample: B-2
Sample Number: S-4

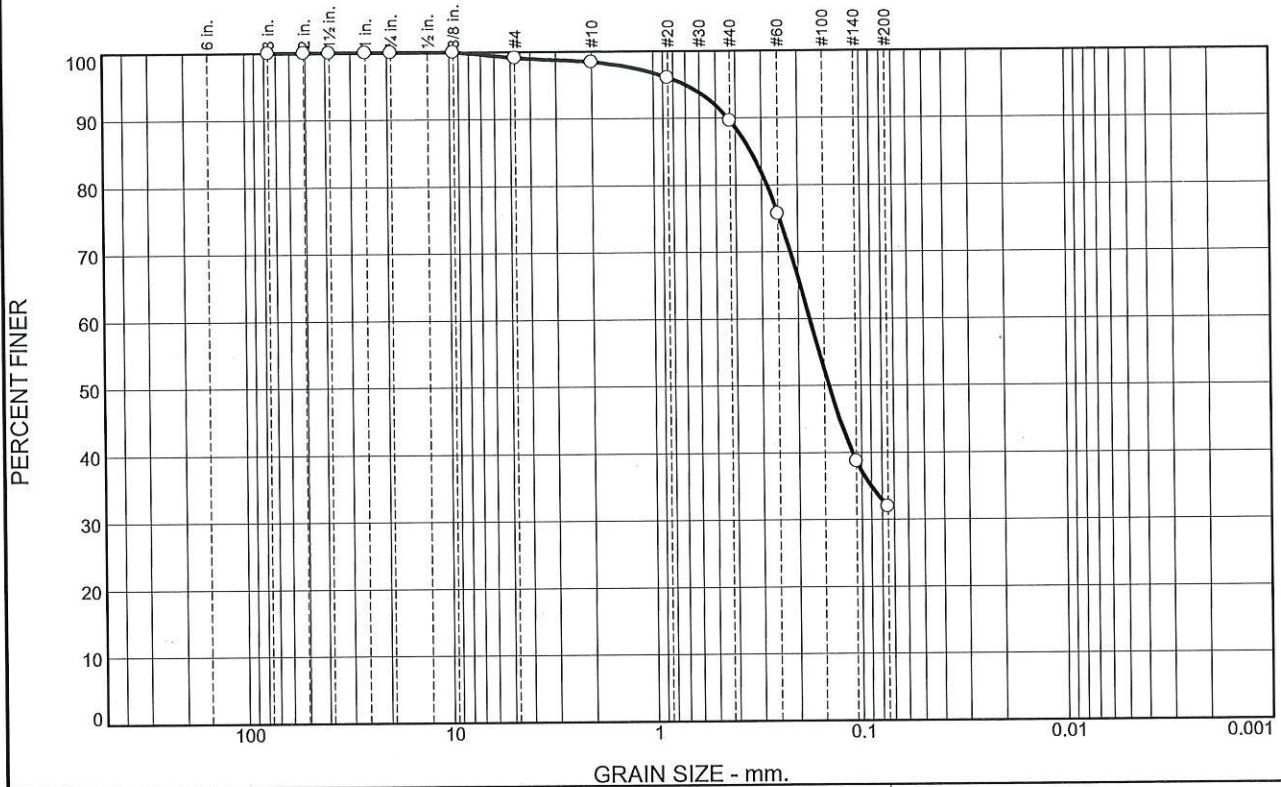
Depth: 6.0' - 8.0'

Date: 04/08/2020

**WHITESTONE
ASSOCIATES, INC.
Warren, New Jersey**

Client: Shore Point Engineering
Project: Proposed Mixed-Use Development
Liberty Street & Maple Street, Paterson, Passaic County, NJ
Project No: GS2016988.000 **Figure**

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.9 | 0.6 | 8.9 | 57.7 | 31.9 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3 | 100.0 | | |
| 2 | 100.0 | | |
| 1.5 | 100.0 | | |
| 1 | 100.0 | | |
| .75 | 100.0 | | |
| .375 | 100.0 | | |
| #4 | 99.1 | | |
| #10 | 98.5 | | |
| #20 | 96.1 | | |
| #40 | 89.6 | | |
| #60 | 75.7 | | |
| #140 | 38.7 | | |
| #200 | 31.9 | | |

* (no specification provided)

Source of Sample: B-4 Depth: 2.0' - 4.0'
Sample Number: S-2

Date: 04/08/2020

**WHITESTONE
ASSOCIATES, INC.**
Warren, New Jersey

Client: Shore Point Engineering
Project: Proposed Mixed-Use Development
Liberty Street & Maple Street, Paterson, Passaic County, NJ
Project No: GS2016988.000 **Figure**

Material Description

Silty Sand

PL= NP

Atterberg Limits

LL= NV

PI= NP

Coefficients

D₉₀= 0.4364
D₅₀= 0.1428
D₁₀=

D₈₅= 0.3381
D₃₀=
C_u=

D₆₀= 0.1764
D₁₅=
C_c=

Classification

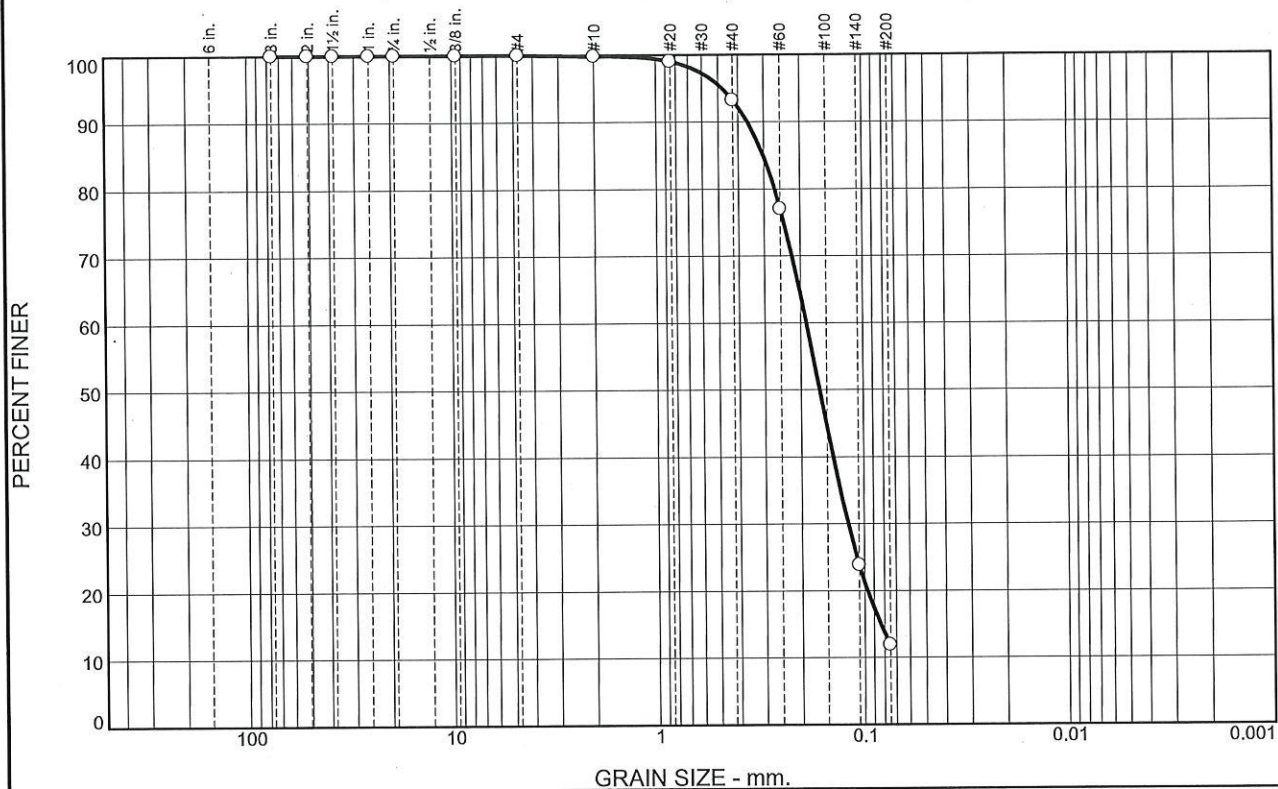
USCS= SM

AASHTO= A-2-4(0)

Remarks

W_n = 11.7 %

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 0.0 | 0.2 | 6.6 | 81.3 | 11.9 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3 | 100.0 | | |
| 2 | 100.0 | | |
| 1.5 | 100.0 | | |
| 1 | 100.0 | | |
| .75 | 100.0 | | |
| .375 | 100.0 | | |
| #4 | 100.0 | | |
| #10 | 99.8 | | |
| #20 | 99.0 | | |
| #40 | 93.2 | | |
| #60 | 77.0 | | |
| #140 | 23.8 | | |
| #200 | 11.9 | | |

* (no specification provided)

Material Description

Poorly Graded Sand with Silt

PL= NP Atterberg Limits PI= NP
 LL= NV

Coefficients

D₉₀= 0.3610 D₈₅= 0.3029 D₆₀= 0.1883
 D₅₀= 0.1627 D₃₀= 0.1194 D₁₅= 0.0834
 D₁₀= C_u= C_c=

Classification

USCS= SP-SM AASHTO= A-2-4(0)

Remarks

W_n = 4.3 %

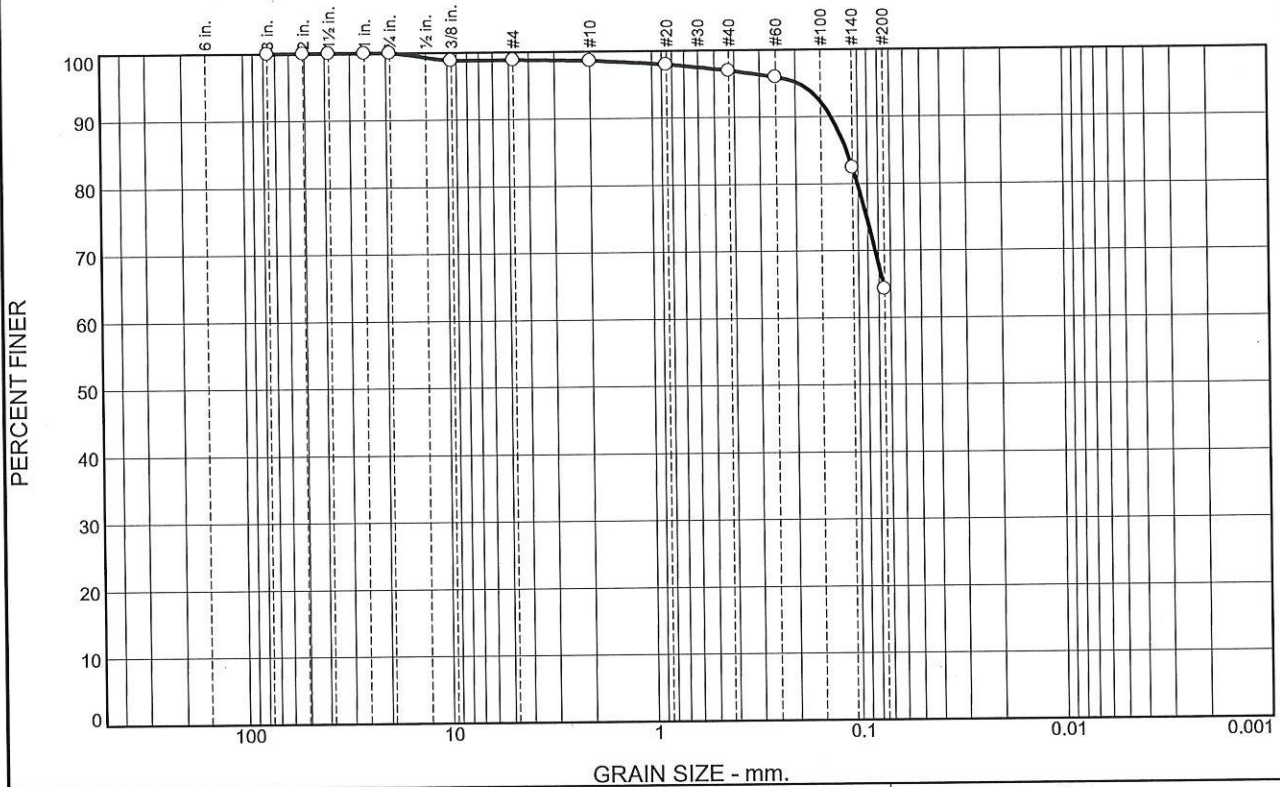
Source of Sample: B-5 Depth: 4.0' - 6.0'
 Sample Number: S-3

Date: 04/08/2020

**WHITESTONE
 ASSOCIATES, INC.
 Warren, New Jersey**

Client: Shore Point Engineering
 Project: Proposed Mixed-Use Development
 Liberty Street & Maple Street, Paterson, Passaic County, NJ
 Project No: GS2016988.000 Figure

Particle Size Distribution Report



| % +3" | % Gravel | | % Sand | | | % Fines | |
|-------|----------|------|--------|--------|------|---------|------|
| | Coarse | Fine | Coarse | Medium | Fine | Silt | Clay |
| 0.0 | 0.0 | 1.2 | 0.2 | 1.6 | 32.8 | 64.2 | |

| SIEVE SIZE | PERCENT FINER | SPEC.* PERCENT | PASS? (X=NO) |
|------------|---------------|----------------|--------------|
| 3 | 100.0 | | |
| 2 | 100.0 | | |
| 1.5 | 100.0 | | |
| 1 | 100.0 | | |
| .75 | 100.0 | | |
| .375 | 98.8 | | |
| #4 | 98.8 | | |
| #10 | 98.6 | | |
| #20 | 98.0 | | |
| #40 | 97.0 | | |
| #60 | 95.9 | | |
| #140 | 82.4 | | |
| #200 | 64.2 | | |

* (no specification provided)

Material Description

Sandy Silt

PL= NP

Atterberg Limits

LL= NV

PI= NP

Coefficients

D₉₀= 0.1342

D₈₅= 0.1134

D₆₀=

D₅₀=

D₃₀=

D₁₅=

D₁₀=

C_u=

C_c=

Classification

USCS= ML

AASHTO= A-4(0)

Remarks

W_n = 18.8 %

Source of Sample: B-10
Sample Number: S-5

Depth: 8.0' - 10.0'

Date: 04/08/2020

**WHITESTONE
ASSOCIATES, INC.
Warren, New Jersey**

Client: Shore Point Engineering
Project: Proposed Mixed-Use Development
Liberty Street & Maple Street, Paterson, Passaic County, NJ
Project No: GS2016988.000
Figure

Tube Permeameter Test Data

Job Number: GS2016988.000

Project: Proposed Development

Client: Shore Point Engineering

Lab Tech: MH

Sample ID: _____ Profile Pit No.: SPP-3 Sample No.: T-1 Depth: 4.0'

COUNTY/MUNICIPALITY Edison BLOCK _____ LOT _____

1. Test Number 1 Replicate (letter) A Date Collected _____

2. Material Tested: _____ Fill X Test in Native Soil _____

3. Type of Sample: X Undisturbed _____ Disturbed _____

4. Sample Dimensions: Inside Radius of Sample Tube, R, in cm 1.91
Length of Sample, L, in inches 3.00

5. Bulk Density Determination (Disturbed Samples Only): N/A

6. Sample Weight (Wt. Tube Containing Sample-Wt. of Empty Tube), grams 0.00

7. Sample Volume (L x 2.54 cm./inch x 3.14R²), cc. 86.83

8. Bulk Density (Sample Wt./Sample Volume), grams/cc. 0 > 1.2

9. Standpipe Used: X No _____ Yes, Indicate Internal Radius, cm. N/A

10. Height of Water Level Above Rim of Test Basin, in inches:

At the Beginning of Each Test Interval, H1 5.00
At the End of Each Test Interval, H2 4.99

11. Rate of Water Level Drop (Add additional lines if needed):

| Time, Start of Test Interval, T1 | Time End of Test Interval T2 | Length of Test Interval, T, Minutes |
|----------------------------------|------------------------------|-------------------------------------|
| | | 1440.00 |
| | | |
| | | |
| | | |

* No appreciable movement after 24 hours.

12. Calculation of Permeability: $K, (in/hr) = 60 \text{ min/hr} \times r^2/R^2 \times L(in)/T(min) \times \ln (H1/H2)$ T= 1440.00

K (in/hr) = 0.00 Classification: K0

13. Defects in the Sample (Check appropriate items):

X None
_____ Soil/Tube Contact _____ Large Gravel _____ Large Roots
_____ Dry Soil _____ Smearing _____ Compaction
_____ Other - Specify _____

Tube Permeameter Test Data

Job Number: GS2016988.000

Project: Proposed Development

Client: Shore Point Engineering

Lab Tech: MH

Sample ID: _____ Profile Pit No.: SPP-3 Sample No.: T-1 Depth: 4.0'

COUNTY/MUNICIPALITY Edison BLOCK _____ LOT _____

1. Test Number 1 Replicate (letter) B Date Collected _____

2. Material Tested: _____ Fill X Test in Native Soil _____

3. Type of Sample: X Undisturbed _____ Disturbed _____

4. Sample Dimensions: Inside Radius of Sample Tube, R, in cm 1.91
Length of Sample, L, in inches 3.00

5. Bulk Density Determination (Disturbed Samples Only): N/A

6. Sample Weight (Wt. Tube Containing Sample-Wt. of Empty Tube), grams 0.00

Wt. of Tube Containing Sample _____

Wt. of Empty Tube _____

7. Sample Volume (L x 2.54 cm./inch x 3.14R²), cc. 86.83

8. Bulk Density (Sample Wt./Sample Volume), grams/cc. 0 > 1.2

9. Standpipe Used: X No _____ Yes, Indicate Internal Radius, cm. N/A

10. Height of Water Level Above Rim of Test Basin, in inches:

At the Beginning of Each Test Interval, H1 5.00
At the End of Each Test Interval, H2 4.99

11. Rate of Water Level Drop (Add additional lines if needed):

| Time, Start of Test Interval, T1 | Time End of Test Interval T2 | Length of Test Interval, T, Minutes |
|----------------------------------|------------------------------|-------------------------------------|
| | | 1440.00 |
| | | |
| | | |
| | | |


* No appreciable movement after 24 hours.

12. Calculation of Permeability: $K, (in/hr) = 60 \text{ min/hr} \times r^2/R^2 \times L(in)/T(min) \times \ln (H1/H2)$ T= 1440.00

K (in/hr) = 0.00 Classification: K0

13. Defects in the Sample (Check appropriate items):

X None
____ Soil/Tube Contact _____ Large Gravel _____ Large Roots
____ Dry Soil _____ Smearing _____ Compaction
____ Other - Specify _____



APPENDIX C

Supplemental Information (USCS, Terms & Symbols)



WHITESTONE ASSOCIATES, INC.

Environmental & Geotechnical Engineers & Consultants

2430 HIGHWAY 34
BUILDING B, SUITE 101
MANASQUAN, NJ 08736
732.592.2101
whitestoneassoc.com

UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL CLASSIFICATION CHART

| MAJOR DIVISIONS | | | LETTER SYMBOL | TYPICAL DESCRIPTIONS |
|---|---|---|--|--|
| COARSE GRAINED SOILS | GRAVEL AND GRAVELLY SOILS | CLEAN GRAVELS (LITTLE OR NO FINES) | GW | WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES |
| | MORE THAN 50% OF COARSE FRACTION <u>RETAINED</u> ON NO. 4 SIEVE | GRAVELS WITH FINES (APPRECIABLE AMOUNT OF FINES) | GP | POORLY-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES |
| | | CLEAN SAND (LITTLE OR NO FINES) | GM | SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES |
| | SAND AND SANDY SOILS | MORE THAN 50% OF COARSE FRACTION <u>PASSING</u> NO. 4 SIEVE | SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES) | GC |
| | | | SW | WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES |
| MORE THAN 50% OF MATERIAL IS <u>LARGER</u> THAN NO. 200 SIEVE SIZE | | | SP | POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES |
| | | | SM | SILTY SANDS, SAND-SILT MIXTURES |
| | | | SC | CLAYEY SANDS, SAND-CLAY MIXTURES |
| | | | | |
| FINE GRAINED SOILS | SILTS AND CLAYS | LIQUID LIMITS <u>LESS</u> THAN 50 | ML | INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY |
| | | | CL | INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS |
| MORE THAN 50% OF MATERIAL IS <u>SMALLER</u> THAN NO. 200 SIEVE SIZE | SILTS AND CLAYS | LIQUID LIMITS <u>GREATER</u> THAN 50 | OL | ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY |
| | | | MH | INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS |
| HIGHLY ORGANIC SOILS | | | CH | INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS |
| | | | OH | ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS |
| | | | PT | PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS |

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS FOR SAMPLES WITH 5% TO 12% FINES

GRADATION*

% FINER BY WEIGHT

TRACE..... 1% TO 10%
LITTLE..... 10% TO 20%
SOME..... 20% TO 35%
AND..... 35% TO 50%

COMPACTNESS*

Sand and/or Gravel

RELATIVE DENSITY

LOOSE..... 0% TO 40%
MEDIUM DENSE..... 40% TO 70%
DENSE..... 70% TO 90%
VERY DENSE..... 90% TO 100%

CONSISTENCY*

Clay and/or Silt

RANGE OF SHEARING STRENGTH IN POUNDS PER SQUARE FOOT

VERY SOFT..... LESS THAN 250
SOFT..... 250 TO 500
MEDIUM..... 500 TO 1000
STIFF..... 1000 TO 2000
VERY STIFF..... 2000 TO 4000
HARD..... GREATER THAN 4000

* VALUES ARE FROM LABORATORY OR FIELD TEST DATA, WHERE APPLICABLE. WHEN NO TESTING WAS PERFORMED, VALUES ARE ESTIMATED.

L:\Geotechnical Forms and References\Reports\USCSTRMSSYM NJ-Wall.docx

Other Office Locations:

WARREN, NJ
908.668.7777

CHALFONT, PA
215.712.2700

SOUTHBOROUGH, MA
508.485.0755

ROCKY HILL, CT
860.726.7889

EVERGREEN, CO
303.670.6905



WHITESTONE ASSOCIATES, INC.

Environmental & Geotechnical Engineers & Consultants

2430 HIGHWAY 34
BUILDING B, SUITE 101
MANASQUAN, NJ 08736
732.592.2101
whitestoneassoc.com

GEOTECHNICAL TERMS AND SYMBOLS

SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

SOIL PROPERTY SYMBOLS

- N: Standard Penetration Value: Blows per ft. of a 140 lb. hammer falling 30" on a 2" O.D. split-spoon.
Qu: Unconfined compressive strength, TSF.
Qp: Penetrometer value, unconfined compressive strength, TSF.
Mc: Moisture content, %.
LL: Liquid limit, %.
PI: Plasticity index, %.
 δ_d : Natural dry density, PCF.
 ∇ : Apparent groundwater level at time noted after completion of boring.

DRILLING AND SAMPLING SYMBOLS

- NE: Not Encountered (Groundwater was not encountered).
SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.
ST: Shelby Tube - 3" O.D., except where noted.
AU: Auger Sample.
OB: Diamond Bit.
CB: Carbide Bit
WS: Washed Sample.

RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

| <u>Term (Non-Cohesive Soils)</u> | <u>Standard Penetration Resistance</u> |
|----------------------------------|--|
| Very Loose | 0-4 |
| Loose | 4-10 |
| Medium Dense | 10-30 |
| Dense | 30-50 |
| Very Dense | Over 50 |

| <u>Term (Cohesive Soils)</u> | <u>Qu (TSF)</u> |
|------------------------------|-----------------|
| Very Soft | 0 - 0.25 |
| Soft | 0.25 - 0.50 |
| Firm (Medium) | 0.50 - 1.00 |
| Stiff | 1.00 - 2.00 |
| Very Stiff | 2.00 - 4.00 |
| Hard | 4.00+ |

PARTICLE SIZE

| | | | | | |
|----------|-------------|-------------|---------------|------|-----------------|
| Boulders | 8 in.+ | Coarse Sand | 5mm-0.6mm | Silt | 0.074mm-0.005mm |
| Cobbles | 8 in.-3 in. | Medium Sand | 0.6mm-0.2mm | Clay | -0.005mm |
| Gravel | 3 in.-5mm | Fine Sand | 0.2mm-0.074mm | | |

L:\Geotechnical Forms and References\Reports\USCSTRMSSYM NJ-Wall.docx

Other Office Locations:

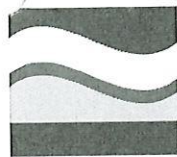
WARREN, NJ
908.668.7777

CHALFONT, PA
215.712.2700

SOUTHBOROUGH, MA
508.485.0755

ROCKY HILL, CT
860.726.7889

EVERGREEN, CO
303.670.6905



EWMA

INNOVATIVE | EXPERIENCED | RESPONSIVE

Phase I Environmental Site Assessment/ Preliminary Assessment Report

Hinchliffe Stadium Rehabilitation Project
1-27 Jasper Street
Block 801, Lot 7 and a portion of Lot 23
Paterson, Passaic County, NJ 07506

Submitted to:

RPM Development Group
77 Park Street
Montclair, New Jersey 07042

Submitted by:

EWMA
100 Misty Lane, POB 5430
Parsippany, NJ 07054-2741

April 2020

Project 210290

Prepared by Bradley N. Chupick
Senior Environmental Scientist

Reviewed by Victoria Reed
Director, Real Estate Services

Table of Contents

| | |
|--|----------------|
| Executive Summary | 1 |
| 1. Introduction | 3 |
| 1.1 Purpose | 3 |
| 1.2 Data Gaps and Data Failure | 3 |
| 2. Site Description | 5 |
| 2.1 Location and Legal Description | 5 |
| 2.2 Site and Vicinity General Characteristics | 5 |
| 2.3 Current Uses of the Property | 5 → 9 |
| 2.4 Description of Structures, Roads, Other Improvements on the Site | 6 |
| 2.5 Regional Geology / Hydrogeology | 6 |
| 3. Adjacent Properties | 8 → 12 |
| 4. Records Review | 9 |
| 4.1 Standard Environmental Records Sources | 9 |
| 4.2 Aerial Photographs | 9 → 13 |
| 4.3 Fire Insurance Maps | 11 |
| 4.4 Historic USGS 7.5 Minute Topographic Maps | 12 |
| 4.4.1 Current Topographic Map | 12 |
| 4.4.2 Historic Topographic Maps | 12 |
| 4.5 Local Street Directories | 12 |
| 4.6 Regulatory Records | 13 |
| 4.7 Historical Use Information on the Property | 13 |
| 4.8 Historical Use Information on Adjoining Properties | 13 |
| 4.9 Commonly Known or Reasonably Ascertainable Information | 13 |
| 4.10 Valuation Reduction for Environmental Issues | 14 |
| 4.11 Specialized Knowledge | 14 |
| 4.12 Title Records | 14 |
| 4.13 Environmental Liens or Activity and Use Limitations | 14 |
| 5. Site Reconnaissance | 15 → 19 |
| 5.1 The Property | 15 |
| 5.2 Storage Tanks | 16 |
| 5.3 Electrical or Mechanical Equipment Likely to Contain Fluids | 16 |
| 5.4 Heating / Cooling | 16 |
| 5.5 Drains, Sumps, and Clarifiers | 16 |
| 5.6 Pits, Ponds or Lagoons | 16 |
| 5.7 Indication of Solid Waste Disposal | 16 |

Phase ESA/PA
Hinchliffe Stadium Rehabilitation Project
1-27 Jasper Street
Block 801, Lot 7 and a Portion of Lot 23
Paterson, New Jersey
EWMA Project No. 210290

| | | |
|------------|---|----------------|
| 5.8 | Evidence of Fill Materials | 16 |
| 5.8.1 | Odors | 17 |
| 5.8.2 | Drums | 17 |
| 5.8.3 | Pools of Liquid | 17 |
| 5.8.4 | Stains or Corrosion | 17 |
| 5.8.5 | Drains and Sumps | 17 |
| 5.8.6 | Pits, Ponds or Lagoons | 17 |
| 5.8.7 | Stressed Vegetation | 18 |
| 5.8.8 | Waste Water | 18 |
| 5.8.9 | Wells | 18 |
| 5.8.10 | Septic Systems | 18 |
| 6. | Vapor Intrusion | 19 → 23 |
| 6.1 | Subject Property | 19 |
| 6.2 | Adjacent Properties | 19 |
| 7. | Interviews | 20 - 24 |
| 8. | Findings, Opinions & Conclusions | 22 → 26 |
| 9. | References | 23 |
| 10. | Certification of Environmental Professionals | 24 |

PDF
DOC
PG
→ 29

Figures

1. Site Vicinity Map (USGS 7.5-Minute Topographic Quadrangle)
2. Site Plan
3. Tax Map → PG 32 + 31
- 3a. GeoWeb Map

Appendices

1. ASTM Definitions and Terms and Conditions
2. EWMA Scope of Work Proposal
3. Phase 1 Questionnaire
4. EWMA Photographic Log
5. EDR Radius Report
6. EDR Sanborn Maps → PG 1246
7. EDR / City Directory Report → PG 1262
8. OPRA / FOIA / Local Records Search → PG 1312
9. References
10. Resume of Environmental Professionals

PG 82 - STATE (NS SHWS)

Executive Summary

On March 16, 2020, EWMA conducted a Phase I Environmental Site Assessment (ESA)/Preliminary Assessment (PA) of the Property located at Block 801, Lot 7 and a portion of Lot 23, Paterson, Passaic County, New Jersey (the Property). EWMA has performed the Phase I ESA in conformance with the scope and limitation of ASTM Standard Practice E 1527-13. This Phase I ESA also includes elements of the Preliminary Assessment (PA) process pursuant to the New Jersey Department of Environmental Protection (NJDEP) Technical Requirements for Site Remediation (TRSR), N.J.A.C. 7:26E to allow for the entity acquiring the Property to qualify for eligibility under the New Jersey Spill Act's innocent purchaser defense.

Our review of general property information, observation of adjacent properties, research of historical property information, including a review of environmental records, and a Property visit revealed the following:

| | No Further Action | BER | REC | HREC | CREC | De Minimis | AOC |
|---------------------------------|-------------------|-----|-----|------|------|------------|-----|
| Historical Use of the Property | X | | | | | | |
| Current Operations | X | | | | | | |
| Hazardous Materials | X | | | | | | |
| Potable Well | X | | | | | | |
| Evidence of a Spill / Discharge | X | | | | | | |
| Storage Tanks/Pipelines | X | | | | | | |
| Migrating Hazardous Substances | X | | | | | | |
| Air vents and Ducts | X | | | | | | |
| Historic Fill | | | X-1 | | | | X-1 |
| Storm Water/Drains | X | | | | | | |
| Regulatory Database Review | X | | | | | | |
| Solid Waste | X | | | | | | |
| Septic Systems | X | | | | | | |
| Railroad Siding | X | | | | | | |
| ISRA Applicability | X | | | | | | |
| Historic Agricultural Use | X | | | | | | |

BER – Business Environmental Risk

REC-Recognized Environmental Condition

HREC-Historic Recognized Environmental Condition

CREC-Controlled Recognized Environmental Condition

AOC – Area of Concern

2. Site Description

2.1 Location and Legal Description

| | |
|------------------------------------|---|
| Current Property Owner | Lot 7 is owned by Paterson Public Schools/Business Office and Lot 23 is owned by the City of Paterson |
| Property Street Address | Jasper Street (Figure 1 and Figure 2) |
| Block and Lot | Block 801, Lot 7 and a portion of 23 (Figure 3) |
| City | City of Paterson |
| County | Passaic |
| State | New Jersey |
| Acreage of Land | Lot 7 – 0.88 acres, Lot 23 – 2 acres |
| Building Square Footage | N/A |
| Building Construction | No permanent structures present. One plastic 100 square foot shed. |
| Current Tenant | Vacant |
| Property Zoning Information | B-2 - Business zoned |

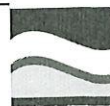
2.2 Site and Vicinity General Characteristics

The Property is within a commercial and residential area in the southeastern portion of the City of Paterson, Passaic County, New Jersey. The Property is located to the northeast side of Hinchliffe Stadium, and south of the intersection of Maple Street in the City of Paterson, Passaic County, New Jersey. The Property is within a mixed commercial and residential area. The Property is undeveloped, is generally rectangular in shape, and is in close proximity to the Paterson Great Falls National Historic Park.

2.3 Current Uses of the Property

The Property is zoned “B-2” for neighborhood business use. The Property is known as Lot 7 and a portion of Lot 23, City of Paterson, NJ. A chain link fence surrounds the northern, eastern and western portions of the Property. No permanent structures are located on the Property. Small wooden garden frames were used by the Paterson Public Community “Elysian Fields” Garden group. In addition, a plastic 100 square foot storage shed is located on the Property and is currently empty. The remainder of the Property consists of undeveloped wooded and grassy areas.

The Property was used by the public as the Paterson Public Community “Elysian Fields” Garden. Based on this information, the operations conducted onsite were not subject to the provisions of the New Jersey Industrial Site Recovery Act (ISRA), N.J.S.A. 13:1K-6



ets, eq. and N.J.A.C. 7:26B should a triggering event occur (such as the sale of the Property or their cessation of operations).

2.4 Description of Structures, Roads, Other Improvements on the Site

| Item | Details |
|-----------------------|---|
| Building Construction | No permanent structures. Plastic 100 square foot storage shed onsite. |
| Basement | No building or basement. |
| Electric | Public Service Electric and Gas (PSE&G) |
| Gas | Public Service Electric and Gas (PSE&G) |
| Water | Passaic Valley Water Commissioners |
| Sanitary Sewer | Passaic Valley Sewerage Authority Sanitary-Combined |
| Storm Sewer | Paterson Municipal Utility Authority Sanitary-Combined |
| Road Access | Maple Street |
| Parking Lots | Asphalt-paved on the northern portion. |
| Areas of Landscaping | Grass areas on the east, south, and western portions of the Property. |

There are no structures onsite; however, wastewater in the area is discharged through the Passaic Valley Sewerage Authority. No evidence of a septic system or other wastewater treatment system was observed on the Property. PSE&G provides electricity service and natural gas to the Property.

2.5 Regional Geology / Hydrogeology

| Item | Details |
|--------------------------|--|
| USGS Quadrangle Map Used | Paterson, NJ (2014) |
| Site Elevation (MSL) | 155 feet |
| Site Geology | Piedmont Physiographic Province, siltstone and shale |
| Soil Unit | The soil is described as well-drained within the Holyoke-rock outcrop complex. NJDEP's GeoWeb mapping program also designates the surficial geology of the area as Rahway Till, composed of clayey silt to sandy silt with some to many pebbles and cobbles deposited from glacial ice during the late Wisconsin glaciations. Bedrock geology is classified as fine to mid-grained Orange Mountain Basalt. |
| Principal Aquifer | Passaic Aquifer |



| | |
|---|--|
| Depth to Water (Feet BSL) | Based on EDR Geo-Check information groundwater is generally located approximately within 10 feet below grade |
| Estimated Direction of Groundwater Flow | To the south toward the Passaic River and Great Falls (Based on the site visit and the EDR database). |
| Closest Water Bodies (Feet from Site and Direction) | The Passaic River and Great Falls is located immediately to the south of the Property. (Based on the site visit and the EDR database). |
| Historic Fill Map | According to the Paterson, NJ topographic map a portion of the Property is identified as being developed with historic fill. (See Figure 3A) |

According to the Paterson, NJ topographic map a portion of the Property (along the southwestern border) is identified as being developed with historic fill. Please refer to **Figure 3A** for NJDEP's GeoWeb map. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The presence of historic fill material is considered an AOC and is discussed in **Section 8.0**.

AREA
OF
CONCERN



3. Adjacent Properties

Adjoining properties are generally used for commercial retail and residential purposes. The following uses were noted at the time of EWMA's site visit:

| Adjoining Properties | Name | Address | Operations |
|----------------------|------------------------------------|----------------------|---------------------------|
| North | Electronic Transformer Corporation | 460 Totowa Avenue | Electronics Manufacturing |
| South | Hinchliffe Stadium | 186-218 Maple Street | Residential Properties |
| East | Passaic River and Great Falls | N/A | Passaic River |
| West | Residential Properties | Liberty Street | Residential Properties |

EWMA did not observe obvious RECs/AOCs on the adjacent properties during the site visit.



4. Records Review

4.1 Standard Environmental Records Sources

EWMA reviewed the latest information from federal, state and local agencies concerning sites within the "approximate minimum search distance" specified in ASTM E 1527-13. EWMA reviewed the database report prepared by Environmental Data Resources, Inc. (EDR) that is included as **Appendix 5** to evaluate whether there are off-site sources of environmental contamination that could impact the site.

The EDR report identified 507 sites within the searched radii. The Property was not identified in any of the databases. The remaining sites are not considered RECs in connection with the Property because either: a) they are topographically downgradient of the Property based upon their locations using the EDR Overview & Detail Maps and approximate topographic elevations using the 7.5 minute USGS Topographic Map for the Paterson, NJ Quadrangle; b) they are at too great a distance from the Property; c) there is no documentation that a discharge has occurred; or d) an indicated spill case has been closed by the appropriate regulatory agency.

Please note that according to the attached EDR Report, 19 "orphan" sites are located within the searched radii. Orphan sites have a federal or state classification, but due to an address or zip code deficiency they were not plotted on the EDR maps. None of the listed orphan sites are considered RECs/AOCs.

4.2 Aerial Photographs

EWMA reviewed copies of historical aerial photographs to evaluate RECs/AOCs associated with the Property. Aerial photographs were reviewed at www.historicaerials.com, which depict the Property in the years 1931, 1953, 1954, 1966, 1970, 1979, 1987, 1995, 2002, 2006, 2007, 2008, 2010, 2012, 2013, and 2015. A description of relevant features on each photograph reviewed follows.

| Date(s) | Subject Property Description | Surrounding Area Descriptions |
|---------|---|--|
| 1931 | The quality of the photograph is poor. The Property is undeveloped and no structures are shown. Extensive filling and grading is shown. | North: Commercial buildings are shown. South: Filling and grading is shown. East: Filling and grading is shown followed by the Passaic River. West: Filling and grading is shown. |



| | | |
|---------------------------------|--|---|
| 1953, 1954 | The photograph is similar to the previous photograph. Vacant with evidence of filling and grading, | North: Commercial buildings are shown. South: Hinchliffe Stadium is shown constructed. East: Filling and grading is shown followed by the Passaic River. West: Paterson School No. 5 is shown constructed. |
| 1966 1970 | The Property and site features appear similar to the previous aerial photograph. However, no active filling is shown. | North: No significant changes. South: No significant changes. East: No significant changes. West: No significant changes. |
| 1979 | The photograph is similar to the previous photograph. | North: A commercial building is shown constructed to the northeast. South: No significant changes. East: No significant changes. West: No significant changes. |
| 1987 1995 | The Property appears similar to the previous aerial photographs. | North: No significant changes South: No significant changes. East: No significant changes. West: No significant changes. |
| 2002, 2006, 2007, 2008 | The Property appears similar to the previous aerial photographs. However, some disturbance and it appeared that the Property is fenced in. | North: No significant changes. South: No significant changes. East: No significant changes. West: No significant changes. |
| 2010, 2012, 2013 2015 | No significant changes. However, some clearing of vegetation is shown. These activities appear to be associated with the Paterson Garden group. By 2010 the Property is as it appears today. | The adjacent properties appear in their current configuration. |

EWMA's review of the historical aerial photographs revealed that filling was evident at the Property and surrounding properties from approximately 1931 through 1954. According to historical records and a review of Sanborn maps (predating the aerial photographs) indicated that a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid 1950's. The presence of the Middle Reservoir in itself is not an environmental concern; however, this water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the reservoir and raise the Property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir is unknown at this time and therefore historic fill material is considered a REC/AOC. See Section 8.0 for recommendations.



5. Site Reconnaissance

5.1 The Property

EWMA performed a reconnaissance of the Property on March 16, 2020. EWMA was unescorted during the Property walkthrough. EWMA walked the Property and observed site features. EWMA's visit was documented with photographs taken using a digital camera.

Please refer to the Photographic Log included in **Appendix 4**, which is presented with this report to document the physical conditions observed during the inspection performed by EWMA.

| Observation | Interior | Exterior |
|---|----------|----------|
| Hazardous Substances and/or Petroleum Products in Connection with Property Use | | |
| Hazardous Substance and Petroleum Product Containers and/or Unidentified Containers not in Connection with Property Use | | |
| Aboveground & Underground Hazardous Substance or Petroleum Product Storage Tanks (ASTs / USTs) | | |
| Strong, Pungent or Noxious Odors | | |
| Pools of Liquid | | |
| Drums | | X |
| Electrical or Mechanical Equipment Likely to Contain Fluids | | |
| Heating/Cooling | | |
| Stains or Corrosion | | |
| Drains, Sumps and Clarifiers | | |
| Pits, Ponds and Lagoons | | |
| Stressed Vegetation | | |
| Solid Waste Disposal | | X |
| Evidence of Fill Materials | | X |
| Waste Water Discharges | | |
| Wells | | |
| Septic Systems | | |

The following was noted at the Property:



5.2 Storage Tanks

ASTs, USTs, or vent pipes, fill pipes or access ways indicating the presence of USTs were not observed at the Property during the site visit.

5.3 Electrical or Mechanical Equipment Likely to Contain Fluids

Transformers and electrical equipment were not observed at the Property during the Property visit or identified in interviews or record reviews.

5.4 Heating / Cooling

Heating or cooling systems were not observed at the Property during the Property visit or identified in interviews or record reviews.

5.5 Drains, Sumps, and Clarifiers

Drains, Sumps or Clarifiers were not observed at the Property during the Property visit or identified in interviews or record reviews.

5.6 Pits, Ponds or Lagoons

No pits, ponds or lagoons were observed at the Property during the site visit.

5.7 Indication of Solid Waste Disposal

EWMA observed used tires and some wood debris discarded in the southwestern portion of the Property. These materials are not considered a REC/AOC and EWMA recommends that they are properly disposed.

5.8 Evidence of Fill Materials

EWMA's review of the historical aerial photographs revealed that filling was evident at the Property and surrounding properties from approximately 1931 through 1954. According to historical records and a review of Sanborn maps, a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid-1950s. The presence of the Middle Reservoir in itself is not an environmental concern; however, this water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the reservoir and raise the Property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir is unknown at this time and, therefore, historic fill material is considered a REC/AOC.

SOIL TESTING
RESULTS



In addition, the Paterson, NJ topographic map identifies a portion of the Property (along the southwestern border) as being developed with historic fill. Please refer to **Figure 3A** for NJDEP's GeoWeb Map. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The presence of historic fill material is considered a REC/AOC and discussed in **Section 8.0**.

5.8.1 Odors

Strong, pungent, or noxious odors were not observed at the Property during the Property visit or identified in interviews or record reviews.

5.8.2 Drums

EWMA observed one blue plastic 55- drum on the Property. Upon inspection the drum was used to dispose of trash and was placed there by the City of Paterson Department of Public Works. Since the drum only contained household type trash it is not considered a REC/AOC.

5.8.3 Pools of Liquid

Standing surface waters or pools of liquid potentially containing hazardous substances or petroleum products were not observed at the Property during the visit or identified in interviews or record reviews.

5.8.4 Stains or Corrosion

Stains or corrosions potentially caused by hazardous substances or petroleum products were not observed at the exterior portion of the Property during the visit and were not identified in interviews and record reviews.

5.8.5 Drains and Sumps

Storm water or roof drains were not observed at the exterior portion of the Property during the visit and were not identified in interviews and record reviews.

5.8.6 Pits, Ponds or Lagoons

Pits or lagoons potentially containing hazardous substances were not observed at the Property during the site visit or identified in interviews or record reviews.



5.8.7 Stressed Vegetation

Areas of stressed vegetation known to have been caused by hazardous substances or petroleum products were not observed at the Property during the visit and were not identified in interviews or record reviews.

5.8.8 Waste Water

Waste water known to contain hazardous substances or petroleum products were not observed at the Property during the visit or identified in interviews or record reviews.

5.8.9 Wells

Wells (including dry wells, irrigation wells, injection wells, abandoned wells, or other wells) were not observed at the Property during the site visit.

5.8.10 Septic Systems

Indications of the presence of on-site septic systems or cesspools were not observed at the Property during the visit or identified in interviews or record reviews.



6. Vapor Intrusion

The potential for subsurface vapor encroachment from volatile organic compounds and petroleum products on the Property or from nearby properties listed in the above databases with known or suspected releases was evaluated.

6.1 Subject Property

No activity and use limitations at the Property indicating potential vapor intrusion were identified during this assessment. Based on standard sources reviewed and observations made during the property visit, no significant subsurface releases of chemicals of concern have occurred on the Property.

6.2 Adjacent Properties

Currently, adjoining properties are generally used for a mixture of commercial and residential purposes. Based on standard sources reviewed and observations made during the property visit, no significant subsurface releases of chemicals of concern have occurred on the adjacent properties.



7. Interviews

EWMA requested environmental records including reports of spills, hazardous materials releases/responses, USTs, and hazardous materials storage at the Property. Information pertaining to the Open Public Records Act (OPRA) and Freedom of Information Act (FOIA) requests is included in **Appendix 8**.

| Interview | OPRA Request Sent | Individual Contacted | Comments/Concern |
|---|-------------------|---|--|
| Interview with Property Owner, Property Manager | | Mr. Joseph Portelli, VP RPM Development Group | Provided site information. No concerns identified. |
| Phase I ESA Questionnaire | 3/12/2020 | NA | Not completed |
| Building Department/Code Enforcement | 3/12/2020 | City of Paterson | Discussed below |
| Public Works | 3/12/2020 | City of Paterson | No records identified |
| Zoning / Land Use Records | 3/12/2020 | City of Paterson | B-2- (Business Use) |
| Property Tax Files | 3/12/2020 | City of Paterson | Discussed below |
| Health Department Records | 3/12/2020 | Passaic County | No records identified |
| Fire Department Records | 3/12/2020 | City of Paterson | No records identified |
| NJDEP Records | 3/12/2020 | NJDEP Record Access Officer | No records identified |
| US Environmental Protection Agency Records | 3/12/2020 | My PropertyInfo | Discussed below |

City of Paterson Property Tax Files

According to the tax record cards, the Property is identified as Block 801, Lot 7 and a portion of Lot 23, Paterson, Passaic County, New Jersey. Lot 7 is owned by Paterson Public Schools/Business Office and Lot 23 is owned by the City of Paterson.



City of Paterson Zoning Department

According to the City of Paterson Zoning office the Property is located in a "B-2" for business use area.

City of Paterson Building Department Files

The City of Paterson Building Department provided general property records.

City of Paterson Fire Department Files

According to a Fire Official from the City of Paterson Fire Department Records Bureau, no records including reports of spills, hazardous materials releases/responses and hazardous materials storage were on file for the Property within the Department.

City of Paterson Health Department

EWMA has not received a response from the City of Paterson Health Department. If files are received after the preparation of this report that may change the findings EWMA will forward an addendum. A copy of our request letter and their response is provided in **Appendix 8**.

Passaic County Public Records

EWMA has not received a response from the Passaic County Public Records. If files are received after the preparation of this report that may change the findings EWMA will forward an addendum. A copy of our request letter and their response is provided in **Appendix 8**.

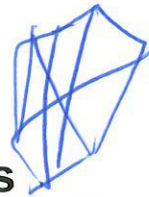
NJDEP Records

On March 15, 2020, EWMA submitted an electronic OPRA request to NJDEP for environmental information related to the Property. On March 20, 2020, EWMA received notification from the NJDEP that no records exist for the Property. Copies of the request and the NJDEP response are provided in **Appendix 8**.

United States Department of Environmental Protection Agency Records

MyPropertyInfo is a single reporting tool for obtaining USEPA information from multiple EPA databases. This tool allows firms to search EPA databases on a specific property without filing a FOIA request. The USEPA MyProperty Info online responses stated that no records were on file for the Property.





8. Findings, Opinions & Conclusions

EWMA has performed a Phase I Environmental Site Assessment in conformance with the scope and limitations of ASTM Practice E1527-13 for Block 801, Lot 7 and a portion of Lot 23, Paterson, Passaic County, New Jersey (the Property). Any exceptions to, or deletions from, this practice are described in **Appendix1** of this report.

Our review of general property information, observation of adjacent properties, research of historical property information, including a review of environmental records, and a Property visit revealed the following RECs/AOCs through the performance of this Phase I ESA/PA as summarized below.

1. Historic Fill Related to a Former Reservoir:

EWMA's review of the historical aerial photographs revealed that filling was evident at the Property and surrounding properties from approximately 1931 through 1954. According to historical records and a review of Sanborn maps, a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid-1950s. The presence of the Middle Reservoir in itself is not an environmental concern; however, the water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the reservoir and raise the Property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir is unknown at this time and therefore historic fill material is considered a REC/AOC.

No evaluation is required under NJDEP regulations at this time. However, should a triggering event occur at the Property such as a release to subsurface or construction/activities occur which involve the disturbance and/or disposal of the site soils, appropriate site investigation sampling may be necessary to determine the quality of the soil. If historic fill material is confirmed to be present at the Property, it can be administratively addressed by recording a Deed Notice and obtaining a Remedial Action Permit for soils.

SOIL SAMPLING Results
to determine quality of soil



9. References

A listing of the published reference sources relied upon in preparing this Phase I Environmental Site Assessment is included as **Appendix 9**.



10. Certification of Environmental Professionals

I, Bradley N. Chupick, declare that, to the best of my knowledge and belief, I meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. I, Bradley N. Chupick, have the specific qualifications based on education, training and experience to assess the Property of the nature, history, and setting of the subject Property. I, Bradley N. Chupick, have developed and performed the all appropriate inquiries in conformance with the standards and practices set forth in 40 CFR Part 312.

Statements of qualification for the environmental professionals who performed this Phase I are included as **Appendix 10**.



CITY OF PATERSON
ZONING BOARD OF ADJUSTMENT

RESOLUTION

WHEREAS, the Zoning Board of Adjustment of the City of Paterson (hereinafter referred to as the "Board") is empowered to hear and determine applications for development pursuant to the Municipal Land Use Law, N.J.S.A. 40:55D-1 et seq. and the Zoning and Land Development Ordinance of the City of Paterson, Section 100 et seq. (hereinafter referred to as the "Ordinance"); and

WHEREAS, HINCHLIFFE MASTER URBAN RENEWAL, L.P. is the applicant (hereinafter referred to as the "Applicant") with regard to property located at 1-27 Jasper Street, also known as, Block 801, Lot 7.01, and Passaic Falls Tract, also known as, Block 801, Lot 23 and proposed to be subdivided and identified as Lot 23.01, in the City of Paterson, County of Passaic, New Jersey (collectively the "Property"); and

WHEREAS, the Property is located in the Public Use District Zone and the National Park Gateway District Zone of the First Ward Redevelopment Plan; and

WHEREAS, the application is to construct a six-story mixed-use building on Jasper Street consisting of a childcare facility on the first floor ("Childcare Facility") and seventy-five (75) age-restricted, income-restricted housing units on the second through sixth floors ("Senior Housing") (The Senior Housing and the Childcare Facility are collectively referred to as the "Housing Component"). Applicant is proposing a ground floor parking garage with eleven (11) spaces; seven (7) off-street parking spaces; and on June 22, 2020, the Applicant received approval by the City of Paterson Planning Board for off-street parking in a new four-story accessory parking garage consisting of approximately 315 parking spaces to be constructed on Block 801, Lot 23.01. Applicant proposes a total of 333 parking spaces, whereas, 248 are required. The Applicant is seeking use, bulk, and "D" variances, as well as, preliminary and final site plan approvals; and

WHEREAS, the application was heard on July 27, 2020; and

WHEREAS, Marsha M. Moore, Esq., of Post Polak, P.A., appeared on behalf of the Applicant; Joseph Portelli appeared as Vice President of the RPM Development Group; Christopher Westcott appeared as the Architect; Kevin Shelly appeared as the Engineer;

Matthew Seckler appeared as the Traffic Engineer; George Wheatle Williams appeared as the Planner; and Bashar Sabbagh, and Luis Velez appeared as Interested Parties; and

WHEREAS, Exhibit A-1, Architectural Rendering (A-1.00); Exhibit A-2, Architectural Rendering (A-1.01); Exhibit A-3, Architectural Rendering (A-1.02); Exhibit A-4, Architectural Rendering (A-1.03); Exhibit A-5, Architectural Rendering (A-1.04); Exhibit A-6, Architectural Rendering (A-1.05); Exhibit A-7, Architectural Rendering (A-2.00); Exhibit A-8, Architectural Rendering (A-2.01); Exhibit A-9, Architectural Rendering (A-3.00); Exhibit A-10, Hinchliffe Residential Rendering; Exhibit A-11, Revised Site Plan Sheet dated, 7/14/2020; and Exhibit A-12, Site Plan Set were marked for identification; and

WHEREAS, Applicant proposes a mixed-use building on Jasper Street with the first floor consisting of a Childcare Facility and parking garage and the second through sixth floors consisting of Senior Housing with one (1) studio unit, eleven (11) one-bedroom units, and three (3) two-bedroom units on each floor, for a total of seventy-five (75) residential units; and

WHEREAS, Mr. Portelli reviewed the overall operations and indicated that the Senior Housing will be for independent living only, age-restricted and income-restricted to seniors 55 and older with an approximate income maximum of \$56,000 based on the HUD 2020 income limits and subject to change yearly, with the exception of one unrestricted unit for a full-time live-in superintendent; and

WHEREAS, the Childcare Facility will be for preschoolers ages 3 to 4, and the end-user has not yet been determined, but Applicant acknowledges it can be a private operator, affiliated with the Paterson Public School District, or a nonprofit; and

WHEREAS, the surface lot on the proposed Jasper Street site will primarily be for the pick-up and drop-off of the Childcare Facility; the ground floor garage will be for a combination of the Childcare staff and management staff; the Senior Housing tenants will utilize the adjacent parking garage and have their own key for access; and the accessory parking garage will be available to residential tenants, users of the stadium, restaurant, and exhibition space, as well as, the general public; and

WHEREAS, Mr. Portelli indicated that he believes Applicant is compliant with the Americans with Disabilities Act (ADA) as one (1) handicapped space is proposed within the

Jasper Street ground floor parking garage and eight (8) handicapped spaces are proposed in the accessory garage, but Mr. Paparozzi indicated that he believes thirteen (13) handicapped spaces are required. Applicant agrees to be in compliance with the ADA; and

WHEREAS, variances requested are for use and "D" variances to permit the Housing Component in the Public Use District of the First Ward Redevelopment Plan, which is not permitted; floor area ratio (1.4 maximum, 3.0 proposed per City's planner, 2.93 proposed per Applicant); density (50 units/acre, 33 units allowed, 75 units proposed); and "C" bulk variances including minimum front setback (25 ft. required, 5.2 ft. proposed); minimum side setback — one (15 ft. required, 4.5 ft. proposed); minimum side setback — both (30 ft. required, 23.2 ft. proposed); rear setback (20' required, 10' proposed; lot coverage (20% maximum, 49.8% proposed); open space (15,500 sq. ft. required, 0 sq. ft. proposed; dumpster (10 ft. from building required, 0 ft. proposed); parking (all residential parking should be located on the same lot as the building, some parking proposed on Lot 23.01); size of two-bedroom units (900 sq. ft. required, 875 sq. ft. proposed per City's planner); and

WHEREAS, Mr. Westcott reviewed the architectural plans with the Board, and at the eastern edge of the Jasper Street site there is a trash compactor room to be used by the

residential units, which will be wheeled directly out into a trash enclosure outside of the building until brought out onto the street for pick up; and the first floor of the building also consists of a residential lobby with entrances from the parking garage or plaza, a management office, a package room, amenity room with a kitchenette and seating area, ADA-compliant bathrooms, and utility rooms; and

WHEREAS, all proposed apartments will include a modern kitchen and bathroom design with Energy-Star-rated and water-sensor-rated appliances, and the bathrooms will have blocking behind the toilets and in the showers to allow for grab bars in the future; and

WHEREAS, Applicant proposes laundry facilities in the center of the building accessible to all units on each floor, in addition, to janitor's closets and telecom closets; heating and cooling in each unit will be done via through-wall, energy-efficient packaged units in each bedroom and living room or a different system as recommended by the engineers of the building; and all residential and public spaces will have LED lighting; and

WHEREAS, the building facade will consist of brick veneer, masonry veneer cornice and base, fiber cement panel siding, and seam metal roofing, all with varying colors of gray, beige,

and white to match the surrounding area; and signage is proposed in the front, which will match the colors of the building; and

WHEREAS, based on Paterson's zoning ordinance, all four area requirements are based on the exterior face and exterior wall and centerline of demising wall units, which is typically about 10% more of the square footage, so all two-bedroom units will be over the 900 sq. ft. minimum and do not require a variance; and

WHEREAS, Mr. Paparozzi reviewed Mr. Westcott's plans and indicated that per testimony and clarification, all units meet the minimum square footage requirements; and although no tenant is presently proposed in the Childcare Facility, the number of children that are allowed to attend is determined by the Department of Children and Families based on the design and square footage; and

WHEREAS, as a security measure cameras will be installed and the Senior Housing tenants will have key fob access at all building entrances, stairwells, and parking garages, but no direct access between the Senior Housing and the Childcare facility; and

WHEREAS, Mr. Westcott noted that typically in urban environments, the intent would be to create a wall structure on the outside of the building with an STC or sound transmission coefficient ratio that allows for lower noise levels inside the building; and

WHEREAS, the architectural designs accommodate the trash and recyclable room on each floor to allow for either trash and recycling containers in each residential unit or access to a trash chute; and

WHEREAS, Mr. Shelly reviewed the engineering aspects of the application with the Board, and noted that access to the accessory parking garage will be through an access drive located in between the proposed residential building and Hinchliffe Stadium; and noted that the Senior Housing units will be designated parking spaces to ensure there is always available parking; and

WHEREAS, Mr. Shelly noted that Applicant proposes a stormwater infiltration basin underneath the access drive to handle the increased runoff generated by the proposed development; LED lighting; an attractive landscape design; and a courtyard adjacent to the residential building, equipped with benches and play tables to create an outdoor amenity

space; and the proposed site is surrounded by recreational spaces, including, but not limited to Vista Park, Hinchliffe Stadium, Mary Ellen Kramer Park, and the Great Falls; and

WHEREAS, Mr. Seckler reviewed the traffic and parking assessment report dated, April 9, 2020, and indicated that from a traffic and parking perspective, Applicant satisfies required standards, but the entrance and exit to the parking garage is through an access drive connected to Hinchliffe Stadium; and

WHEREAS, a Commissioner expressed concerns of the amount of congestion presently in the area and the roadways surrounding the site being narrow, potentially causing traffic issues, additional congestion, and bottlenecking; and

WHEREAS, to address these concerns Mr. Paparozzi suggested that during events at the stadium Applicant provides security and traffic control, possibly from the Paterson Police; and

WHEREAS. Mr. Paparozzi expressed his concerns and noted that residents should park closer to the residential building in the parking deck; that the Senior Housing tenants should be provided a designated parking space in the accessory garage; that the surface parking spaces should be designated as drop-off and pick-up spaces for the Childcare Facility; and

that there should be a covered walkway between the parking garage and the residential building; and

WHEREAS, Mr. Williams reviewed the planning aspects of the application and justification for the variance reliefs proposed, and testified that in his professional opinion, the proposed development advances the intent and purpose of the First Ward Redevelopment Plan, such as assembling parcels for large development, promoting mixed-use development, and promoting restoration of Hinchliffe Stadium. It also advances the intent and purpose of the Master Plan, such as land use goals – mixed-use, targeted opportunity sites that will serve as catalysts and symbols of revitalization and increasing the supply of affordable housing; and

WHEREAS, Mr. Williams testified that in addition to being inherently beneficial, the application also advances several purposes of zoning pursuant to N.J.S.A. 40:55D-2, in particular Section L, which is to provide senior housing; and

WHEREAS, on November 6, 2019, the Paterson Planning Board granted approval to renovate the existing Hinchliffe Stadium containing 7,800 seats and associated improvements; and this application is part of the overall renovation of the adjacent Hinchliffe Stadium and its immediate surroundings, including a restaurant and a Negro League Baseball exhibition; and

WHEREAS, on June 22, 2020, the Paterson Planning Board also approved a proposal to demolish an existing one-story structure on Maple Street and construct a mixed-use building with exhibition space on the first floor and a restaurant on the second floor; and

WHEREAS, the courts have stated that childcare centers and affordable senior housing are deemed inherently beneficial uses; and

WHEREAS, a study for the New Jersey Housing and Mortgage Finance Agency (NJHMFA) concluded that there is a need for affordable housing with a large number of income-eligible households in the area; and

WHEREAS, Applicant intends to complete construction in approximately 18 months (Spring 2022), and the proposed uses are considered inherently beneficial; and

WHEREAS, the Applicant's expert placed the design; proposed use and lay out on the record; and

WHEREAS, all testimony and representations made on the record are made part of this resolution as if fully detailed within; and

WHEREAS, after considering the testimony given and reviewing the plans filed herein, the Board makes the following findings of fact based upon evidence adduced at the public hearing:

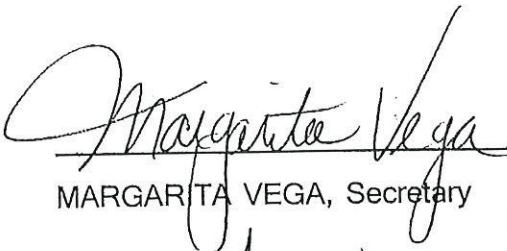
1. The application will not create any undue interference and/or hardship to the neighborhood.
2. The application is appropriate for the neighborhood.
3. The application meets both the positive and negative criteria of the MLUL. The use is inherently beneficial and presumptively serves the public good. Applicant has met the Sica v. Board of Adjustment of Tp. of Wall four-part test with respect to inherently beneficial uses.
4. The application will not create any substantial detriment to the public good and meets the negative criteria. There will be no substantial impairment to the zone plan or ordinance.
5. The application will not create a parking hindrance to the neighborhood.
6. The site can accommodate the increase in floor area ratio and density. The deviation from the bulk standards will achieve a better overall development.
7. Commissioner Fermin of the Board made a motion for the approval of the application; subject to the review and approval, but not limited to, the City Engineer, Passaic County Planning Board, Passaic County Engineer; H.E.P. Soil Conservation District, and the building codes of NJ. Also, subject to the conditions noted by the Board Planner: (1) that the Senior Housing tenants park closer to the residential building in the parking deck; (2) that the spaces on the north side of the building off Jasper Street be designated drop-off and pick-up for the Childcare Facility; (3) that police or another form of security are present during an event at the stadium; and (4) that a roof covering be installed over the walkway between the parking garage and the residential building entrance. Commissioner Levine seconded the motion.

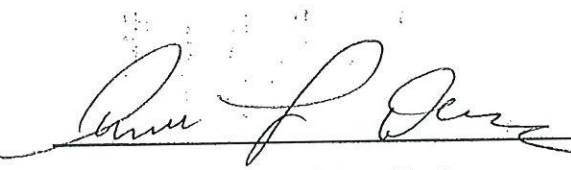
NOW, THEREFORE, BE IT RESOLVED that the above application for use, density, floor area ratio and "c" variances relief and preliminary and final site plan approval is hereby approved after a motion and vote by the Board, subject to the following:

1. All applicable federal, state, county and local codes, and requirements;
2. Fire department regulations, building department regulations, the requirements of the engineering department, and all applicable laws, codes and regulations;
3. The adherence of the Applicant to the architectural plans filed herein and prepared by the Applicant's architect;
4. The Applicant obtaining all permits and approvals from other municipal, county, state and/or federal agencies having jurisdiction; and
5. The adherence of the Applicant to all its representations and conditions placed on the record at all of the Public Hearings, including, but not limited to July 27, 2020.

ATTEST:

APPROVED BY THE CITY OF
PATERSON ZONING BOARD OF
ADJUSTMENT


MARGARITA VEGA, Secretary


PAMELA DUMAS, Vice-Chairperson

DATED: August 13, 2020

Votes in Favor of Application 5

Votes Against Application 2

Abstentions 0

Date of Hearing: July 27, 2020; Adoption of Resolution: August 13, 2020

Fermin, yes; Levine, yes; Minauro, yes; Rohim, no; Watkins, yes; Dumas, yes; Thaxton, no.



Cameron, PG * March 2021 Phase I Environmental Site Assessment, prepared by
EWMA * August 2021 Limited Environmental Investigation of Migration to Ground
Water Pathway Letter Report, prepared by A.T. Cameron, PG

Field Inspection [Optional]: Date and completed

by:

DIANA VAZQUEZ

10/6/2020 12:00:00 AM

DSC01003.JPG

List of Sources, Agencies and Persons Consulted [40 CFR 1508.9(b)]:

EPA NEPAAssist, FEMA Flood Map Service Center, US Fish and Wildlife Service, National Wetlands Inventory, EPA EJScreen, U.S. Census Bureau, Federal Aviation Administration Airport Master Record, U.S. Department of Transportation, Google Maps, NJ SHPO, NJ Department of Environmental Protection, Passaic Valley Sewer Commission, Life Management (social services agreement), MaGrann Associates (builder's upgrade letter), City of Paterson Zoning Board of Adjustments

List of Permits Obtained:

The project was presented before the City of Paterson Zoning Board of Adjustments for the following variances: use, "C" and "D" variances to permit the Housing Component in the Public Use District Zone of the First Ward Redevelopment Plan, which were approved as per the Resolution.

Public Outreach [24 CFR 58.43]:

A public notice has not been published as of the date of this report.

Cumulative Impact Analysis [24 CFR 58.32]:

The proposed project would result in short-term temporary construction-related impacts and minor adverse impacts related to the development of 75 dwelling units. The project would implement best management practices to avoid or reduce the potential for impacts. Overall, development of the proposed project would result in short-term negligible cumulative effects when combined with other projects in the area.

Alternatives [24 CFR 58.40(e); 40 CFR 1508.9]

No Action Alternative [24 CFR 58.40(e)]

Under the No Action Alternative, no development would occur at the project site in the near term, and the site would remain underutilized. The environmental impacts associated with the proposed project would not occur under the No Action Alternative, nor would the beneficial effects of the project, including the addition of senior affordable housing to the Paterson area. The No Action Alternative would not preclude the site from being developed at a future date in a manner consistent with its zoning designation.

Summary of Findings and Conclusions:

The subject property is located in an area of growth and is currently underutilized land. Development of the proposed project would result in short-term temporary construction-related impacts and minor adverse impacts related to the construction of 75 new dwelling units.

Mitigation Measures and Conditions [CFR 1505.2(c)]:

Summarized below are all mitigation measures adopted by the Responsible Entity to reduce, avoid or eliminate adverse environmental impacts and to avoid non-compliance or non-conformance with the above-listed authorities and factors. These measures/conditions must be incorporated into project contracts, development agreements and other relevant documents. The staff responsible for implementing and monitoring mitigation measures should be clearly identified in the mitigation plan.

| Law, Authority, or Factor | Mitigation Measure or Condition | Comments on Completed Measures | Mitigation Plan | Complete |
|------------------------------------|--|--------------------------------|--|----------|
| Contamination and Toxic Substances | The only REC/area of concern that was mentioned was the presence of historic fill material. According to historical records and a review of Sanborn maps, a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid-1950s. The presence of the Middle Reservoir in itself is not an environmental concern; however, the water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the | N/A | In accordance with the HUD MAP Guide, new construction should follow the ANSI/AARST CC-1000 (2018) Soil Gas System in New Construction of Buildings and post construction testing must | |

| | | | | |
|--|--|--|---|--|
| | <p>reservoir and raise the Property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir is unknown at this time and therefore historic fill material is considered a REC/AOC.</p> <p>No evaluation is required under NJDEP regulations at this time. However, should a triggering event occur at the Property such as a release to subsurface or construction/activities occur which involve the disturbance and/or disposal of the site soils, appropriate site investigation sampling may be necessary to determine the quality of the soil. The soil sampling test results came back with no detection.</p> <p>Radon According to the EPA, the radon zone level for the area is Zone 2, which has a predicted average indoor screening level between 2 pCi/L and 4 pCi/L, equal to or below the action level of 4 pCi/L set forth by the US EPA. While the subject property currently consists of vacant land, it is AEI's understanding that the subject property is planned for redevelopment with a multifamily residential</p> | | <p>be performed after construction is complete.</p> | |
|--|--|--|---|--|

| | | | | |
|--|---|-----|--|--|
| | <p>building in connection with HUD HOME financing. As such, in accordance with the HUD MAP Guide, new construction should follow the ANSI/AARST CC-1000 (2018) Soil Gas System in New Construction of Buildings and post construction testing must be performed after construction is complete.</p> <p>Asbestos and Lead-based Paint</p> <p>The subject property is currently vacant land. EWMA's site reconnaissance noted the only structure on site was a plastic shed. Consequently, no building components likely to contain lead-based paints or suspect asbestos-containing materials were noted on site. With implementation of the recommended mitigation, the project will be in compliance with contamination and toxic substances requirements.</p> | | | |
| Conformance with Plans / Compatible Land Use and Zoning / Scale and Urban Design | None | N/A | | |
| Soil Suitability / Slope/ Erosion / Drainage and Storm Water Runoff | None | N/A | | |
| Hazards and Nuisances including Site Safety and Site-Generated Noise | None | N/A | | |
| Energy | None | N/A | | |

| | | | | |
|---|-----|-----|--|--|
| Consumption/Energy Efficiency | | | | |
| Employment and Income Patterns | N/A | N/A | | |
| Demographic Character Changes / Displacement | N/A | N/A | | |
| Educational and Cultural Facilities (Access and Capacity) | N/A | N/A | | |
| Commercial Facilities (Access and Proximity) | N/A | N/A | | |
| Health Care / Social Services (Access and Capacity) | N/A | N/A | | |
| Solid Waste Disposal and Recycling (Feasibility and Capacity) | N/A | N/A | | |
| Waste Water and Sanitary Sewers (Feasibility and Capacity) | N/A | N/A | | |
| Water Supply (Feasibility and Capacity) | N/A | N/A | | |
| Public Safety - Police, Fire and Emergency Medical | N/A | N/A | | |
| Parks, Open Space and Recreation (Access and Capacity) | N/A | N/A | | |
| Transportation and Accessibility (Access and Capacity) | N/A | N/A | | |
| Unique Natural Features /Water Resources | N/A | N/A | | |
| Vegetation / Wildlife (Introduction, Modification, Removal, Disruption, | N/A | N/A | | |

| | | | | |
|--|---|-----|--|--|
| etc.) | | | | |
| Other Factors | N/A | N/A | | |
| Endangered Species Endangered Species Act of 1973, particularly section 7; 50 CFR Part 402 | According to April 2020 FWS data, there are documented bat maternity occurrences in the City of Paterson. Based on the FWS New Jersey Field Office Project Screening Chart for the Indiana bat, the recommended seasonal restriction on tree clearing in municipalities with maternity occurrence is April 1 to September 30. Tree clearing activities for the proposed project should not exceed an area of 5 acres and should not occur between April 1 and September 30. Based on these assumptions, No Adverse Effect to the Indiana Bat is anticipated. If tree clearing is proposed during the restricted season, project information must be submitted to the FWS New Jersey Field Office. | N/A | | |

Project Mitigation Plan

In accordance with the HUD MAP Guide, new construction should follow the ANSI/AARST CC-1000 (2018) Soil Gas System in New Construction of Buildings and post construction testing must be performed after construction is complete. The post-construction testing of radon is planned to be performed by AT Cameron, PG in Fall 2022.

[Radon Testing Proposal mitigation.pdf](#)

Supporting documentation on completed measures

A T Cameron, PG

273 Thompson Ave., Middletown, NJ 07748
732-787-440 732-787-3859

September 3, 2021

Michael Knab
RPM Development Group
77 Park Street
Montclair, NJ 07742

Via e-mail mknab@rpmdev.com

Re: Radon Testing at:

Hinchliffe Residential Project
New 6-Story Age Restricted Multi-Family Building
1-27 Jasper Street
Patterson, NJ 07502

Dear Mr. Knab:

A.T. Cameron, PG is pleased to provide this proposal to conduct Radon testing in the above referenced building. It is anticipated that the building will be completed in the fall of 2022.

Radon testing is proposed to be conducted after the building envelope is sealed but prior to occupancy. As noted above this is anticipated to be in November 2022. The building does not have a basement. There are no apartments planned for the 1st floor. Part of the 1st floor will be a parking garage. The remaining five floors will each have three two-bedroom apartments and 12 one-bedroom apartments.

Radon Tests

| | |
|-----------------------|---|
| 1 st Floor | Day Care Center approx. 5,000 square feet 3 tests Management Office 1 test Amenity Room 2 tests |
| 2 nd Floor | Six Apartments above Parking garage 6 tests Remaining nine apartments 2 tests |
| 3 rd Floor | 15 Apartments 2 tests |
| 4 th Floor | 15 Apartments 2 tests |
| 5 th Floor | 15 Apartments 2 tests |
| 6 th Floor | 15 Apartments 2 tests |

Radon Testing
Hinchliffe Residential Project, Patterson, NJ
September 3, 2021

Page 2

| | |
|--------------------------------------|----|
| Total number of Radon Tests Proposed | 22 |
| Duplicate Radon Tests Proposed (10%) | 3 |
| Blank Radon Test Proposed (5%) | 2 |
| Total Tests | 27 |

Cost Estimate

| | |
|---|-------------------|
| Cost of Radon tests @\$30/test | \$810.00 |
| Cost for placement and retrieval test units | \$2000.00 |
| Two days @\$1,000/Day | |
| Review Radon Results Discuss Results with Owner | <u>\$1,000.00</u> |
| Total Estimated Cost | \$3,810.00 |

All radon testing to be conducted in accordance with NJDEP rules and regulations by New Jersey certified radon measurement business.

This is an estimate based on the current testing procedures and protocols. Should procedures and protocols change when testing is conducted the costs may vary. Although it is not anticipated that laboratory testing cost or labor cost will increase, we do not guarantee per unit costs when testing is conducted.

Should you have questions please call.

Sincerely,

Aubrey T. Cameron

A. T. Cameron, PG

APPENDIX A: Related Federal Laws and Authorities

Airport Hazards

| General policy | Legislation | Regulation |
|---|-------------|--------------------------|
| It is HUD's policy to apply standards to prevent incompatible development around civil airports and military airfields. | | 24 CFR Part 51 Subpart D |

1. To ensure compatible land use development, you must determine your site's proximity to civil and military airports. Is your project within 15,000 feet of a military airport or 2,500 feet of a civilian airport?

☒ No

Based on the response, the review is in compliance with this section. Document and upload the map showing that the site is not within the applicable distances to a military or civilian airport below

Yes

Screen Summary

Compliance Determination

The project site is not within 15,000 feet of a military airport or 2,500 feet of a civilian airport. The project is in compliance with Airport Hazards requirements. (REFER TO NEPASSIST MAPS.)

Supporting documentation

No military airports map - 1-27 JASPER ST.pdf

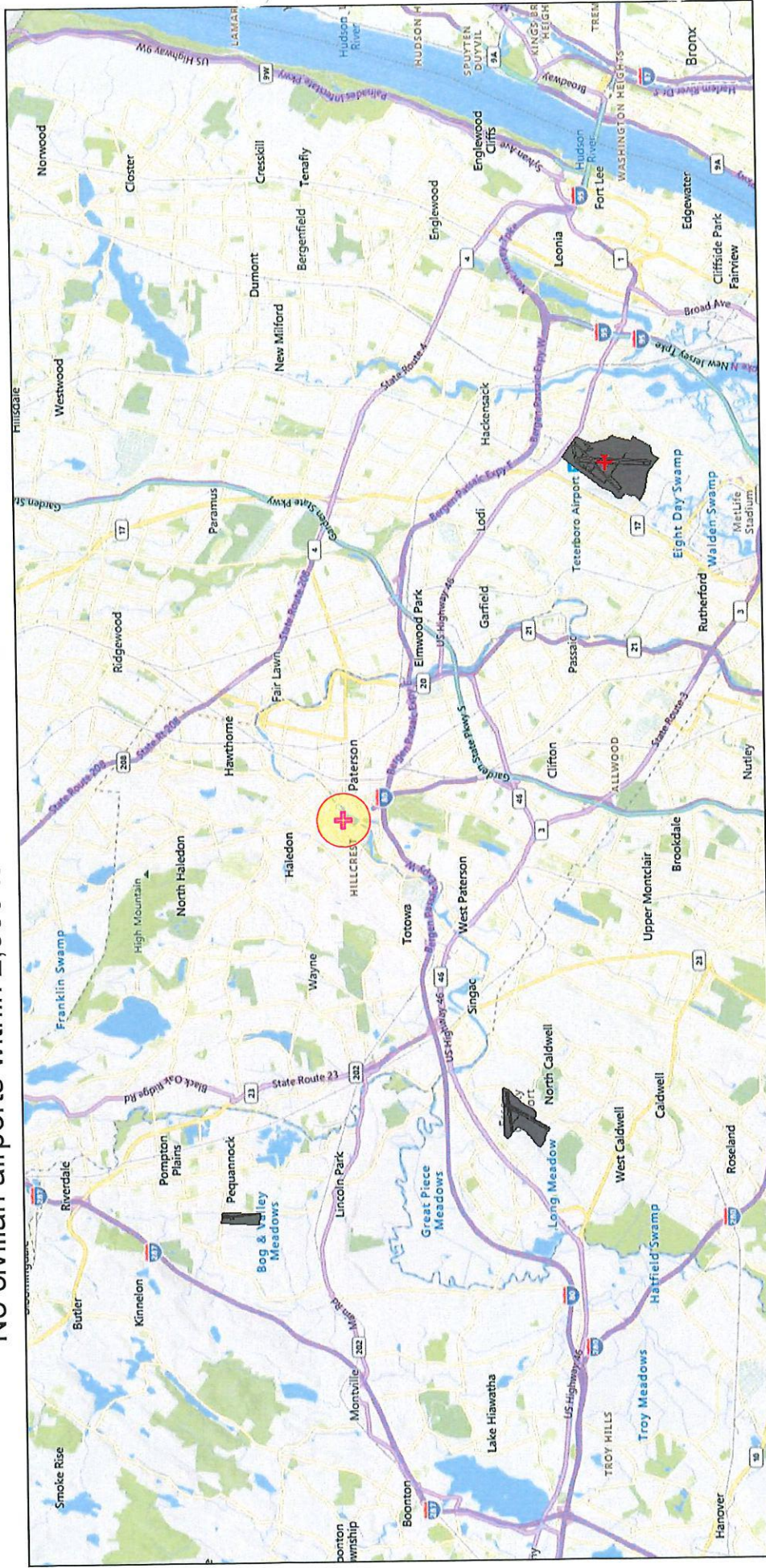
No civilian airports map - 1-27 JASPER ST.pdf

Are formal compliance steps or mitigation required?

Yes

☒ No

No civilian airports within 2,500 ft of 1-27 JASPER ST PATERSON, NJ 07522



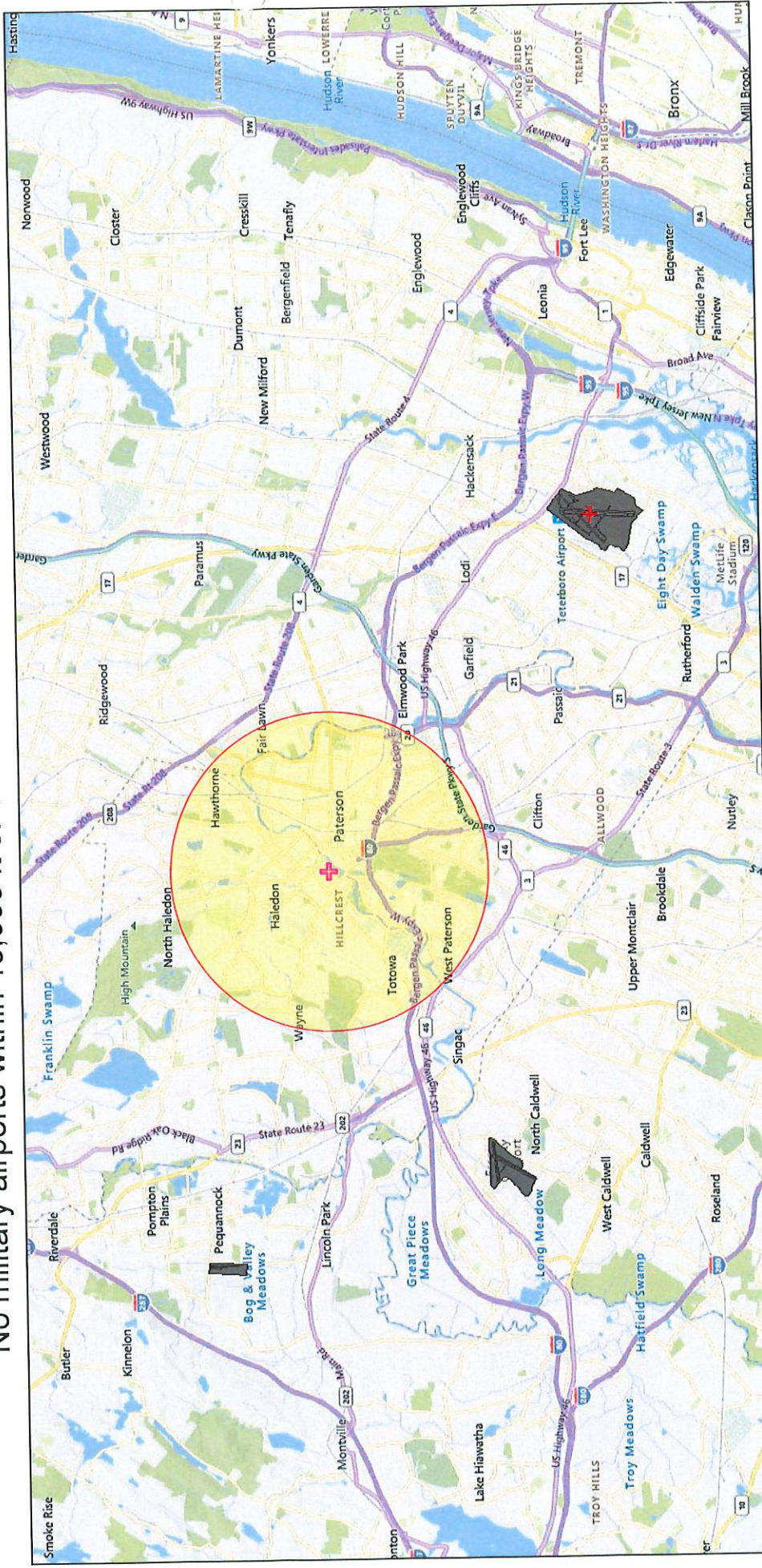
August 21, 2020

- Project Buffer
- Search Result (point)
- Airport Points
- Airport Polygons

1:144,448

© 2020 Microsoft Corporation © 2020 HERE, EPA OEI

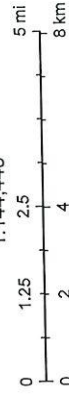
No military airports within 15,000 ft of 1-27 JASPER ST PATERSON, NJ 07522



August 21, 2020

- Project Buffer
- + Search Result (point)
- + Airport Points
- Airport Polygons

1:144,448



© 2020 Microsoft Corporation © 2020 HERE, EPA OEI

Coastal Barrier Resources

| General requirements | Legislation | Regulation |
|---|---|------------|
| HUD financial assistance may not be used for most activities in units of the Coastal Barrier Resources System (CBRS). See 16 USC 3504 for limitations on federal expenditures affecting the CBRS. | Coastal Barrier Resources Act (CBRA) of 1982, as amended by the Coastal Barrier Improvement Act of 1990 (16 USC 3501) | |

1. Is the project located in a CBRS Unit?

☒ No

Document and upload map and documentation below.

Yes

Compliance Determination

This project is not located in a CBRS Unit. Therefore, this project has no potential to impact a CBRS Unit and is in compliance with the Coastal Barrier Resources Act. (REFER TO CBRS MAPS.)

Supporting documentation

CBRS MAP - 1-27 JASPER ST.pdf
CBRS NJ.pdf

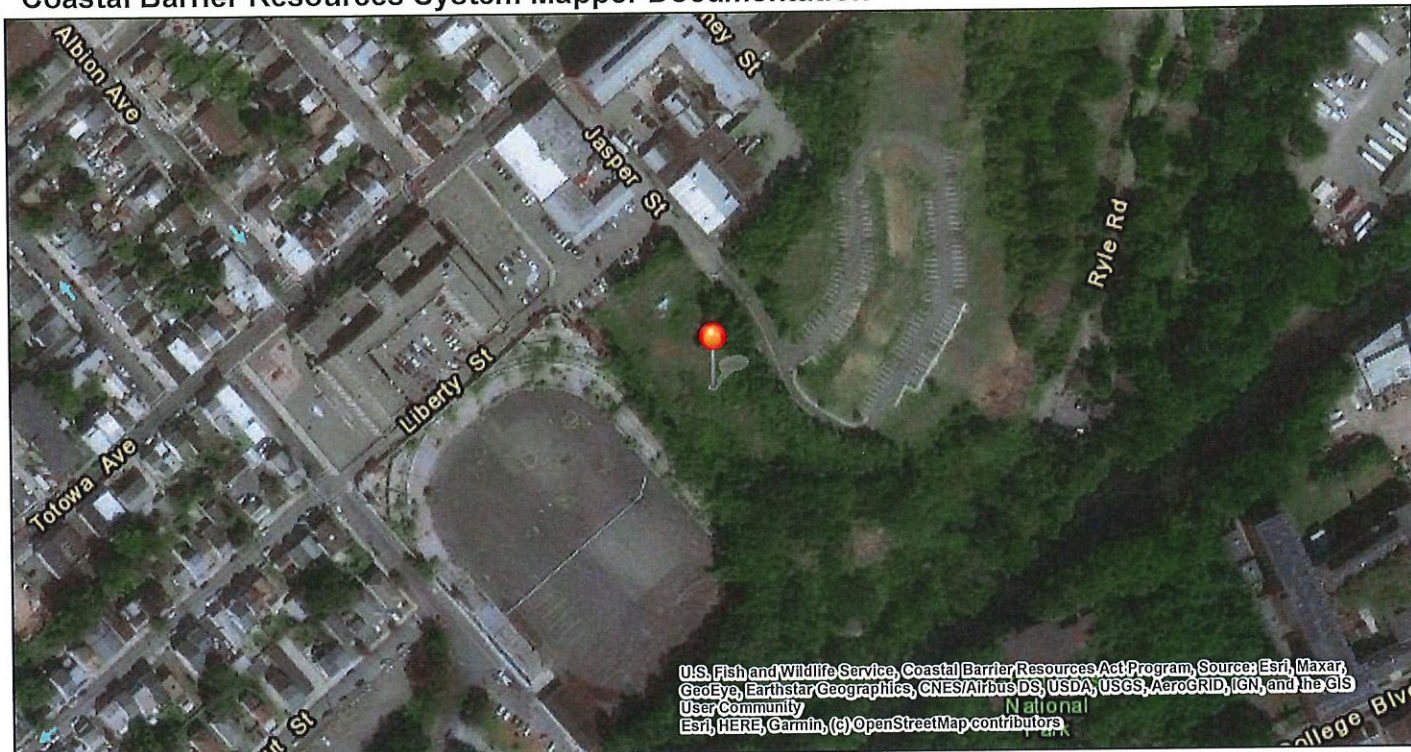
Are formal compliance steps or mitigation required?

Yes

☒ No

U.S. Fish and Wildlife Service

Coastal Barrier Resources System Mapper Documentation




CBRS Units

☐ Otherwise Protected Area

☒ CBRS Buffer Zone

☐ System Unit

 -74.18048, 40.919024

0 65 130 260 390 ft

1:4,514

The pin location displayed on the map is a point selected by the user. Failure of the user to ensure that the pin location displayed on this map correctly corresponds with the user supplied address/location description below may result in an invalid federal flood insurance policy. **The U.S. Fish and Wildlife Service (Service) has not validated the pin location with respect to the user supplied address/location description below. The Service recommends that all pin locations be verified by federal agencies prior to use of this map for the provision or denial of federal funding or financial assistance.** Please note that a structure bisected by the Coastal Barrier Resources System (CBRS) boundary (i.e., both "partially in" and "partially out") is within the CBRS and therefore affected by CBRA's restrictions on federal flood insurance. A pin placed on a bisected structure must be placed on the portion of the structure within the unit (including any attached features such as a deck or stairs).

User Name: DIANA VAZQUEZ

User Organization: CITY OF PATERSON CD

User Supplied Address/Location Description: 1-27 JASPER ST PATERSON, NJ 07522

Pin Location: Outside CBRS

Pin Flood Insurance Prohibition Date: N/A

Pin System Unit Establishment Date: N/A

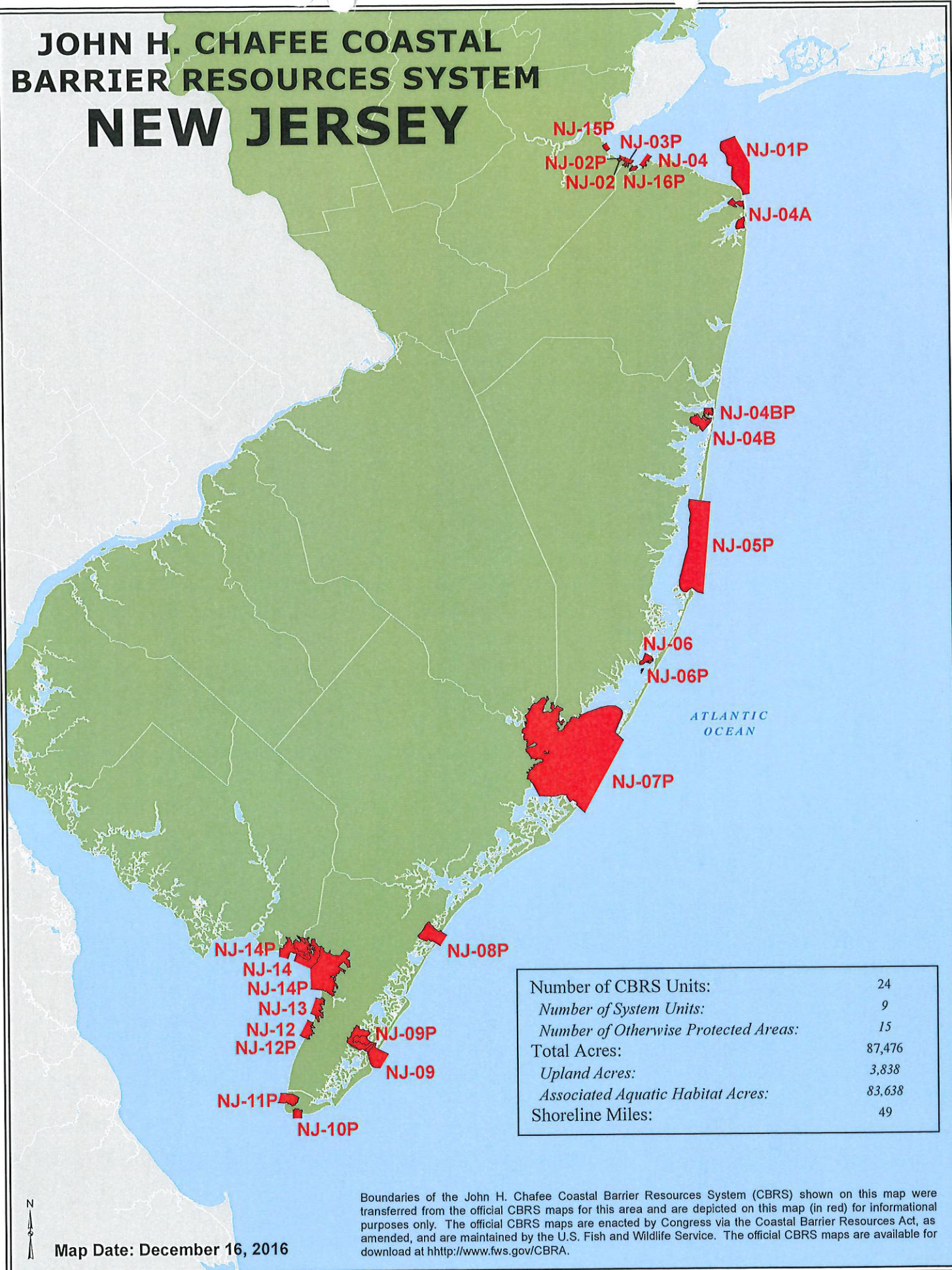
The user placed pin location is not within the CBRS. The official CBRS maps are accessible at <https://www.fws.gov/cbra/maps/index.html>

The CBRS information is derived directly from the CBRS web service provided by the Service. This map was exported on 8/21/2020 and does not reflect changes or amendments subsequent to this date. The CBRS boundaries on this map may become superseded by new boundaries over time.

This map image may be void if one or more of the following map elements do not appear: basemap imagery, CBRS unit labels, prohibition date labels, legend, scale bar, map creation date. For additional information about flood insurance and the CBRS, visit: <https://www.fws.gov/cbra/Flood-Insurance.html>



JOHN H. CHAFEE COASTAL BARRIER RESOURCES SYSTEM NEW JERSEY



| | |
|--------------------------------------|--------|
| Number of CBRS Units: | 24 |
| Number of System Units: | 9 |
| Number of Otherwise Protected Areas: | 15 |
| Total Acres: | 87,476 |
| Upland Acres: | 3,838 |
| Associated Aquatic Habitat Acres: | 83,638 |
| Shoreline Miles: | 49 |

Boundaries of the John H. Chafee Coastal Barrier Resources System (CBRS) shown on this map were transferred from the official CBRS maps for this area and are depicted on this map (in red) for informational purposes only. The official CBRS maps are enacted by Congress via the Coastal Barrier Resources Act, as amended, and are maintained by the U.S. Fish and Wildlife Service. The official CBRS maps are available for download at <http://www.fws.gov/CBRA>.

Flood Insurance

| General requirements | Legislation | Regulation |
|---|---|---|
| Certain types of federal financial assistance may not be used in floodplains unless the community participates in National Flood Insurance Program and flood insurance is both obtained and maintained. | Flood Disaster Protection Act of 1973 as amended (42 USC 4001-4128) | 24 CFR 50.4(b)(1) and 24 CFR 58.6(a) and (b); 24 CFR 55.1(b). |

1. Does this project involve financial assistance for construction, rehabilitation, or acquisition of a mobile home, building, or insurable personal property?

No. This project does not require flood insurance or is excepted from flood insurance.

✓ Yes

2. Upload a FEMA/FIRM map showing the site here:

FIRMETTE MAP - 1-27 JASPER ST.pdf

The Federal Emergency Management Agency (FEMA) designates floodplains. The FEMA Map Service Center provides this information in the form of FEMA Flood Insurance Rate Maps (FIRMs). For projects in areas not mapped by FEMA, use the best available information to determine floodplain information. Include documentation, including a discussion of why this is the best available information for the site. Provide FEMA/FIRM floodplain zone designation, panel number, and date within your documentation.

Is the structure, part of the structure, or insurable property located in a FEMA-designated Special Flood Hazard Area?

✓ No

Based on the response, the review is in compliance with this section.

Yes

Screen Summary

Compliance Determination

The structure or insurable property is not located in a FEMA-designated Special Flood

Hazard Area. While flood insurance may not be mandatory in this instance, HUD recommends that all insurable structures maintain flood insurance under the National Flood Insurance Program (NFIP). The project is in compliance with flood insurance requirements. Based on a review of FEMA Flood Insurance Rate Map (FIRM) Community Panel Number 34031C0216G, dated April 17, 2020, the subject property is located in Zone X (unshaded), areas of minimal flood hazard outside of the 100- and 500-year floodplains. No preliminary or pending FIRM panels were identified for the project area. Additionally, the subject property is located in the City of Paterson, Community #340404, which is a participating community in the National Flood Insurance Program (NFIP). (REFER TO FIRM MAP 34031C0216G EFF. 4/17/2020)

Supporting documentation

Are formal compliance steps or mitigation required?

Yes

✓ No

National Flood Hazard Layer FIRMette



Legend

SEE FIS REPORT FOR DETAILED LEGEND AND INDEX MAP FOR FIRM PANEL LAYOUT

Without Base Flood Elevation (BFE)
Zone A, V, A99

With BFE or Depth Zone AE, AO, AH, VE, AR

Regulatory Floodway

0.2% Annual Chance Flood Hazard, Area of 1% annual chance flood with average depth less than one foot or with drainage areas of less than one square mile Zone X

Future Conditions 1% Annual Chance Flood Hazard Zone X

Area with Reduced Flood Risk due to Levee. See Notes, Zone X

Area with Flood Risk due to Levee Zone D

NO SCREEN Area of Minimal Flood Hazard Zone X

Effective LOMRs

Area of Undetermined Flood Hazard Zone

Channel, Culvert, or Storm Sewer

Levee, Dike, or Floodwall

Cross Sections with 1% Annual Chance Water Surface Elevation

Coastal Transect

Base Flood Elevation Line (BFE)

Limit of Study

Jurisdiction Boundary

Coastal Transect Baseline

Profile Baseline

Hydrographic Feature

Digital Data Available

No Digital Data Available

Unmapped

MAP PANELS

The pin displayed on the map is an approximate point selected by the user and does not represent an authoritative property location.



This map complies with FEMA's standards for the use of digital flood maps if it is not void as described below. The basemap shown complies with FEMA's basemap accuracy standards.

The flood hazard information is derived directly from the authoritative NFHL web services provided by FEMA. This map was exported on **8/21/2020 at 2:53 PM** and does not reflect changes or amendments subsequent to this date and time. The NFHL and effective information may change or become superseded by new data over time.

This map image is void if the one or more of the following map elements do not appear: basemap imagery, flood zone labels, legend, scale bar, map creation date, community identifiers, FIRM panel number, and FIRM effective date. Map images for unmapped and unmodernized areas cannot be used for regulatory purposes.

Air Quality

| General requirements | Legislation | Regulation |
|---|---|---------------------------|
| The Clean Air Act is administered by the U.S. Environmental Protection Agency (EPA), which sets national standards on ambient pollutants. In addition, the Clean Air Act is administered by States, which must develop State Implementation Plans (SIPs) to regulate their state air quality. Projects funded by HUD must demonstrate that they conform to the appropriate SIP. | Clean Air Act (42 USC 7401 et seq.) as amended particularly Section 176(c) and (d) (42 USC 7506(c) and (d)) | 40 CFR Parts 6, 51 and 93 |

1. Does your project include new construction or conversion of land use facilitating the development of public, commercial, or industrial facilities OR five or more dwelling units?

☒ Yes

☐ No

Air Quality Attainment Status of Project's County or Air Quality Management District

2. Is your project's air quality management district or county in non-attainment or maintenance status for any criteria pollutants?

No, project's county or air quality management district is in attainment status for all criteria pollutants.

☒ Yes, project's management district or county is in non-attainment or maintenance status for the following criteria pollutants (check all that apply):

☒ Carbon Monoxide

☐ Lead

☐ Nitrogen dioxide

☐ Sulfur dioxide

- ✓ Ozone
- Particulate Matter, <2.5 microns
- Particulate Matter, <10 microns

3. What are the *de minimis* emissions levels (40 CFR 93.153) or screening levels for the non-attainment or maintenance level pollutants indicated above

| | | |
|-----------------|--------|-------------------------|
| Carbon monoxide | 100.00 | ppm (parts per million) |
| Ozone | 100.00 | ppb (parts per million) |

Provide your source used to determine levels here:

CONSULTED WITH DEP, BUREAU OF EVALUTION AND PLANNING, REFER TO LETTER

4. Determine the estimated emissions levels of your project. Will your project exceed any of the *de minimis* or threshold emissions levels of non-attainment and maintenance level pollutants or exceed the screening levels established by the state or air quality management district?

- ✓ No, the project will not exceed *de minimis* or threshold emissions levels or screening levels.

Enter the estimate emission levels:

| | | |
|-----------------|------|-------------------------|
| Carbon monoxide | 0.00 | ppm (parts per million) |
| Ozone | 0.00 | ppb (parts per million) |

Based on the response, the review is in compliance with this section.

Yes, the project exceeds *de minimis* emissions levels or screening levels.

Screen Summary

Compliance Determination

The project's county or air quality management district is in non-attainment status for the following: Carbon monoxide, Ozone. This project does not exceed *de minimis* emissions levels or the screening level established by the state or air quality management district for the pollutant(s) identified above. The project is in compliance with the Clean Air Act. In a letter dated June 2, 2021, the New Jersey Department of

Environmental Protection (NJDEP) determined that the anticipated emissions of the proposed project would not exceed general conformity de minimis or threshold emission levels for criteria pollutants and would therefore be in conformance with the New Jersey State Implementation Plan. Based on the above information, the project is in compliance with the Clean Air Act.

Supporting documentation

[AIR QUALITY NAAQS TABLE.pdf](#)

[AIR QUALITY - DE MINIMIS TABLES.pdf](#)

[AIR QUALITY - Construction Equipment Projection.xlsx](#)

[AIR QUALITY - pm map.pdf](#)

[AIR QUALITY - pm 2pt5 map.pdf](#)

[AIR QUALITY - ozone map.pdf](#)

[AIR QUALITY - so2 map.pdf](#)

[AIR QUALITY - no info.pdf](#)

[AIR QUALITY - lead map.pdf](#)

[AIR QUALITY - co list page 4.pdf](#)

[Air Quality in complinace letter - Hinchliffe HUD Letter 6-2-21.pdf](#)

Are formal compliance steps or mitigation required?

Yes

✓ No



State of New Jersey

DEPARTMENT OF ENVIRONMENTAL PROTECTION

DIVISION OF AIR QUALITY

401 East State Street 2nd floor
P.O. Box 420, Mail Code 401-02
Trenton, New Jersey 08625-0420
Tel. (609) 984-1484

<https://www.state.nj.us/dep/daq/>

PHILIP D. MURPHY

Governor

SHEILA Y. OLIVER

Lt. Governor

SHAWN M. LATOURETTE

Acting Commissioner

June 2, 2021

Ms. Diana Vazquez
Program Monitor/Inspector
Community Development
City of Patterson
125 Ellison Street – 2nd Floor
Patterson, New Jersey 07505

Re: Hinchliffe Housing Urban Renewal Associates
HUD #: Not Available

Dear Ms. Vazquez:

This letter is in response to your October 29, 2020, email regarding the above proposed project which is located at 1 - 27 Jasper Street, Patterson, New Jersey (Block 801, Lot 7.01). The proposed project is new construction of a six-story mixed-use multi-family building which will include 75 units and a four-story parking garage.

The State of New Jersey is in nonattainment under the 8-hour ozone standard and Passaic County is in maintenance of the 2006 24-hour PM_{2.5} standard. The Bureau of Evaluation and Planning has reviewed the information that was provided on this project. Based on our review, it appears that the scope of this project would result in emission levels that are below the General Conformity de minimis levels (40 CFR 93.153). Therefore, in accordance with the United States Environmental Protection Agency's General Conformity regulations, this project would be considered as conforming to the New Jersey State Implementation Plan.

Sincerely,

Angela Skowronek
Environmental Specialist 3
Bureau of Evaluation and Planning



You are here: EPA Home > Green Book > Carbon Monoxide (1971) Maintenance Area (Redesignated from Nonattainment) State/Area/County Report

Carbon Monoxide (1971) Maintenance Area (Redesignated from Nonattainment) State/Area/County Report

Data is current as of September 30, 2020

ALASKA (Region X)

Anchorage, AK (Serious - Maintenance)
Anchorage Municipality (P)
Portion of Anchorage urban area

Fairbanks, AK (Serious - Maintenance)
Fairbanks North Star Borough (P)
Portion of Fairbanks urban area

ARIZONA (Region IX)

Phoenix, AZ (Serious - Maintenance)
Maricopa County (P)

Tucson, AZ (Not Classified - Maintenance)
Pima County (P)
Portion of Tucson urban area

CALIFORNIA (Region IX)

Bakersfield, CA (Not Classified - Maintenance)
Kern County (P)

Chico, CA (Moderate \leq 12.7ppm - Maintenance)
Butte County (P)

Fresno, CA (Moderate $>$ 12.7ppm - Maintenance)
Fresno County (P)
Fresno Urbanized Area (11/20/85, 50 FR 47735)

Lake Tahoe North Shore, CA (Not Classified - Maintenance)
Placer County (P)

Lake Tahoe South Shore, CA (Moderate \leq 12.7ppm - Maintenance)
El Dorado County (P)

Los Angeles-South Coast Air Basin, CA (Serious - Maintenance)
Los Angeles County (P)
Orange County
Riverside County (P)
San Bernardino County (P)

Modesto, CA (Moderate \leq 12.7ppm - Maintenance)
Stanislaus County (P)

Sacramento, CA (Moderate \leq 12.7ppm - Maintenance)
Placer County (P)
Sacramento County (P)
Yolo County (P)

San Diego, CA (Moderate \leq 12.7ppm - Maintenance)
San Diego County (P)

San Francisco-Oakland-San Jose, CA (Moderate \leq 12.7ppm - Maintenance)
Alameda County (P)
Contra Costa County (P)
Marin County (P)
Napa County (P)
San Francisco County
San Mateo County (P)

Santa Clara County (P)
Solano County (P)
Sonoma County (P)

Stockton, CA (Moderate \leq 12.7ppm - Maintenance)
San Joaquin County (P)

COLORADO (Region VIII)
Colorado Springs, CO (Moderate \leq 12.7ppm - Maintenance)
El Paso County (P)
Teller County (P)

Denver-Boulder, CO (Serious - Maintenance)
Adams County (P)
Denver Metro Area
Arapahoe County (P)
Denver Metro Area
Boulder County (P)
Denver Metro Area
Broomfield County
Denver County
Douglas County (P)
Denver Metro Area
Jefferson County (P)
Denver Metro Area

Fort Collins, CO (Moderate \leq 12.7ppm - Maintenance)
Larimer County (P)

Greeley, CO (Not Classified - Maintenance)
Weld County (P)

Longmont, CO (Moderate \leq 12.7ppm - Maintenance)
Boulder County (P)
Portion of Longmont
Weld County (P)
Portion of Longmont

CONNECTICUT (Region I)
Hartford-New Britain-Middletown, CT (Moderate \leq 12.7ppm - Maintenance)
Hartford County (P)
Litchfield County (P)
Plymouth Town
Middlesex County (P)
Tolland County (P)

New Haven-Meriden-Waterbury, CT (Not Classified - Maintenance)
Fairfield County (P)
Shelton City
Litchfield County (P)
Bethlehem Town, Thomaston Town, Watertown, Woodbury Town.
New Haven County

New York-N. New Jersey-Long Island, NY-NJ-CT (Moderate $>$ 12.7ppm - Maintenance)
Fairfield County (P)
All cities and townships except Shelton city
Litchfield County (P)
Bridgewater town, New Milford town

DISTRICT OF COLUMBIA (Region III)
Washington, DC-MD-VA (Moderate \leq 12.7ppm - Maintenance)
District of Columbia

IDAHO (Region X)
Boise-Northern Ada County, ID (Not Classified - Maintenance)
Ada County (P)
Northern half of Ada Co

INDIANA (Region V)
East Chicago, IN (Not Classified - Maintenance)
Lake County (P)

Indianapolis, IN (Not Classified - Maintenance)
Marion County (P)

MARYLAND (Region III)
Baltimore, MD (Moderate \leq 12.7ppm - Maintenance)
Baltimore city (P)

Washington, DC-MD-VA (Moderate \leq 12.7ppm - Maintenance)
Montgomery County (P)
Election Districts 4, 7, 13
Prince George's County (P)
Election Districts 2, 6, 12, 16, 17, 18

MASSACHUSETTS (Region I)
Boston, MA (Moderate \leq 12.7ppm - Maintenance)
Middlesex County (P)
Cities of: Cambridge, Everett, Malden, Medford, and Somerville.
Norfolk County (P)
Quincy City
Suffolk County (P)
Cities of: Boston, Chelsea, and Revere

Lowell, MA (Not Classified - Maintenance)
Middlesex County (P)
Lowell City

Springfield, MA (Not Classified - Maintenance)
Hampden County (P)
Springfield City

Waltham, MA (Not Classified - Maintenance)
Middlesex County (P)
Waltham City

Worcester, MA (Not Classified - Maintenance)
Worcester County (P)
City of Worcester

MICHIGAN (Region V)
Detroit, MI (Not Classified - Maintenance)
Macomb County (P)
A portion of Detroit
Oakland County (P)
A portion of Detroit
Wayne County (P)
A portion of Detroit

MINNESOTA (Region VI)
Duluth, MN (Moderate \leq 12.7ppm - Maintenance)
St. Louis County (P)
City of Duluth

Minneapolis-St. Paul, MN (Moderate \leq 12.7ppm - Maintenance)
Anoka County
Carver County (P)
Dakota County (P)
Hennepin County
Ramsey County
Scott County (P)
Washington County (P)
All cities and townships except Denmark Township.
Wright County (P)

MISSOURI (Region VII)
St. Louis, MO (Not Classified - Maintenance)
St. Louis County (P)
The area encompassed by the I-270 and the Mississippi River.
St. Louis city

MONTANA (Region VIII)
Billings, MT (Not Classified - Maintenance)
Yellowstone County (P)

Certain ranges and townships

Great Falls, MT (Not Classified - Maintenance)
Cascade County (P)

Missoula, MT (Moderate \leq 12.7ppm - Maintenance)
Missoula County (P)

NEVADA (Region IX)
Lake Tahoe, NV (Not Classified - Maintenance)
Carson City (P)
Hydrographic Area 90
Douglas County (P)
Hydrographic Area 90
Washoe County (P)
Hydrographic Area 90

Las Vegas, NV (Serious - Maintenance)
Clark County (P)
Las Vegas Valley Hydrographic Area 212

Reno, NV (Moderate \leq 12.7ppm - Maintenance)
Washoe County (P)
Truckee Meadows Hydrographic Area 87

NEW HAMPSHIRE (Region I)
Manchester, NH (Not Classified - Maintenance)
Hillsborough County (P)
City of Manchester

Nashua, NH (Not Classified - Maintenance)
Hillsborough County (P)
City of Nashua

NEW JERSEY (Region II)
Atlantic City, NJ (Not Classified - Maintenance)
Atlantic County (P)
The City of Atlantic City

Burlington, NJ (Not Classified - Maintenance)
Burlington County (P)
City of Burlington

Freehold, NJ (Not Classified - Maintenance)
Monmouth County (P)
Borough of Freehold

Morristown, NJ (Not Classified - Maintenance)
Morris County (P)
City of Morristown

New York-N. New Jersey-Long Island, NY-NJ-CT (Moderate $>$ 12.7ppm - Maintenance)
Bergen County
Essex County
Hudson County
Passaic County (P)
City of Clifton, City of Patterson, City of Passaic
Union County

Penns Grove, NJ (Not Classified - Maintenance)
Salem County (P)

Perth Amboy, NJ (Not Classified - Maintenance)
Middlesex County (P)
City of Perth Amboy

Philadelphia-Camden Co, PA-NJ (Moderate \leq 12.7ppm - Maintenance)
Camden County

Somerville, NJ (Not Classified - Maintenance)
Somerset County (P)
Borough of Somerville

PENNSYLVANIA (Region III)
Philadelphia-Camden Co, PA-NJ (Moderate <= 12.7ppm - Maintenance)
Philadelphia County (P)

Pittsburgh, PA (Not Classified - Maintenance)
Allegheny County (P)

TENNESSEE (Region IV)
Memphis, TN (Moderate <= 12.7ppm - Maintenance)
Shelby County

TEXAS (Region VI)
El Paso, TX (Moderate <= 12.7ppm - Maintenance)
El Paso County (P)
Portion of the City Limits of El Paso

UTAH (Region VIII)
Ogden, UT (Moderate <= 12.7ppm - Maintenance)
Weber County (P)
City of Ogden

Provo, UT (Moderate > 12.7ppm - Maintenance)
Utah County (P)
City of Provo

Salt Lake City, UT (Not Classified - Maintenance)
Salt Lake County (P)
Salt Lake City

VIRGINIA (Region III)
Washington, DC-MD-VA (Moderate <= 12.7ppm - Maintenance)
Alexandria city
Arlington County

WASHINGTON (Region X)
Seattle-Tacoma, WA (Moderate > 12.7ppm - Maintenance)
King County (P)
Pierce County (P)
Snohomish County (P)

Spokane, WA (Serious - Maintenance)
Spokane County (P)

Vancouver, WA (Moderate <= 12.7ppm - Maintenance)
Clark County (P)

Yakima, WA (Not Classified - Maintenance)
Yakima County (P)
Portion of the Central Business District

Discover.

Connect.

Ask.

Follow.

2020-09-30

Toms River, NJ (Not Classified - Maintenance)
Ocean County (P)
City of Toms River

Trenton, NJ (Not Classified - Maintenance)
Mercer County (P)
City of Trenton

NEW MEXICO (Region VI)
Albuquerque, NM (Moderate \leq 12.7ppm - Maintenance)
Bernalillo County

NEW YORK (Region II)
New York-N. New Jersey-Long Island, NY-NJ-CT (Moderate $>$ 12.7ppm - Maintenance)
Bronx County
Kings County
Nassau County
New York County
Queens County
Richmond County
Westchester County

Syracuse, NY (Moderate \leq 12.7ppm - Maintenance)
Onondaga County

NORTH CAROLINA (Region IV)
Charlotte, NC (Not Classified - Maintenance)
Mecklenburg County

Raleigh-Durham, NC (Moderate \leq 12.7ppm - Maintenance)
Durham County
Wake County

Winston-Salem, NC (Moderate \leq 12.7ppm - Maintenance)
Forsyth County

OHIO (Region V)
Cleveland, OH (Moderate \leq 12.7ppm - Maintenance)
Cuyahoga County

OREGON (Region X)
Eugene-Springfield, OR (Not Classified - Maintenance)
Lane County (P)
Air Quality Maintenance Area

Grants Pass, OR (Moderate \leq 12.7ppm - Maintenance)
Josephine County (P)
Central Business District

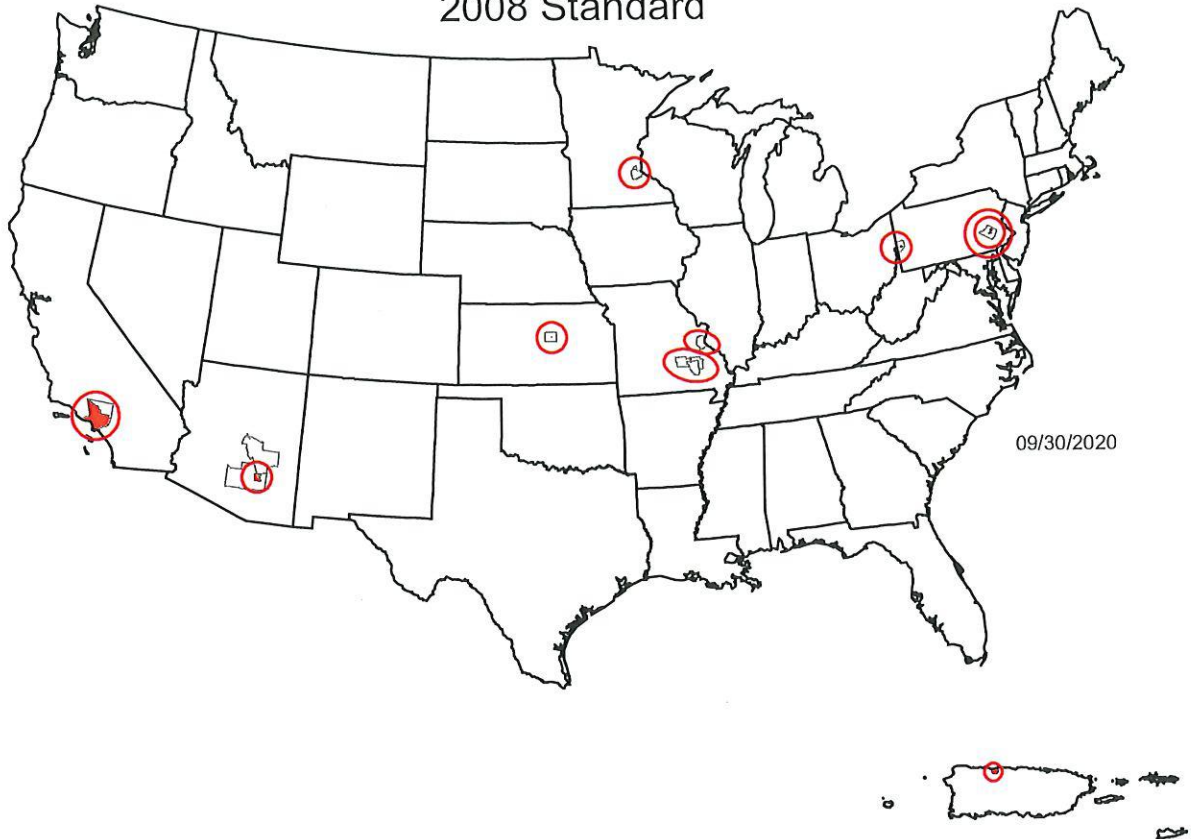
Klamath Falls, OR (Moderate \leq 12.7ppm - Maintenance)
Klamath County (P)
Urban Growth Boundary

Medford, OR (Moderate \leq 12.7ppm - Maintenance)
Jackson County (P)
Medford-Ashland Urban Growth Boundary

Portland, OR (Moderate \leq 12.7ppm - Maintenance)
Clackamas County (P)
Portland Metro Service District Boundary
Multnomah County (P)
Portland Metro Service District Boundary
Washington County (P)
Portland Metro Service District Boundary

Salem, OR (Not Classified - Maintenance)
Marion County (P)
City of Salem
Polk County (P)
City of Salem

Counties Designated Nonattainment for Lead 2008 Standard



 Nonattainment Areas (2008 Standard)

The portions of a county designated nonattainment are indicated by color on this national map. The counties with nonattainment areas are circled. The double circles indicate that there are two nonattainment areas within the same county. The State maps provide details of the smaller nonattainment areas within the county boundaries.

An official website of the United States government.



Green Book Nitrogen Dioxide (1971) Area Information

This section provides information about the nonattainment area for the Nitrogen Dioxide (1971) National Ambient Air Quality Standards (NAAQS). The area was designated November 15, 1990.

1. Nonattainment Area Selections

On September 22, 1998 the only Nitrogen Dioxide (1971) nonattainment area was redesignated to maintenance.

2. Maintenance Area Selections (Redesignated from Nonattainment)

- a. [Area/State Information](#)
- b. [Area Design Values](#)
- c. [State/Area and Design Value Information](#)
- d. [State/Area/County List](#)

3. [Designation and NAAQS Information Related to Nitrogen Dioxide \(1971 Standard\)](#)

4. Federal Register Notices Related to Nitrogen Dioxide (1971 Standard) Areas

- a. [Federal Register Notices Listed by Date](#)

LAST UPDATED ON SEPTEMBER 21, 2016



You are here: EPA Home > Green Book > Nitrogen Dioxide (1971) Maintenance Area (Redesignated from Nonattainment) State/Area/County Report

Nitrogen Dioxide (1971) Maintenance Area (Redesignated from Nonattainment) State/Area/County Report

Data is current as of September 30, 2020

-
- CALIFORNIA (Region IX)
 - Los Angeles-South Coast Air Basin, CA (Maintenance)
 - Los Angeles County (P)
 - Orange County
 - Riverside County (P)
 - San Bernardino County (P)

Discover.

Connect.

Ask.

Follow.

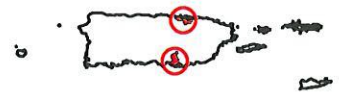
2020-09-30

SO2 Nonattainment Areas (2010 Standard)

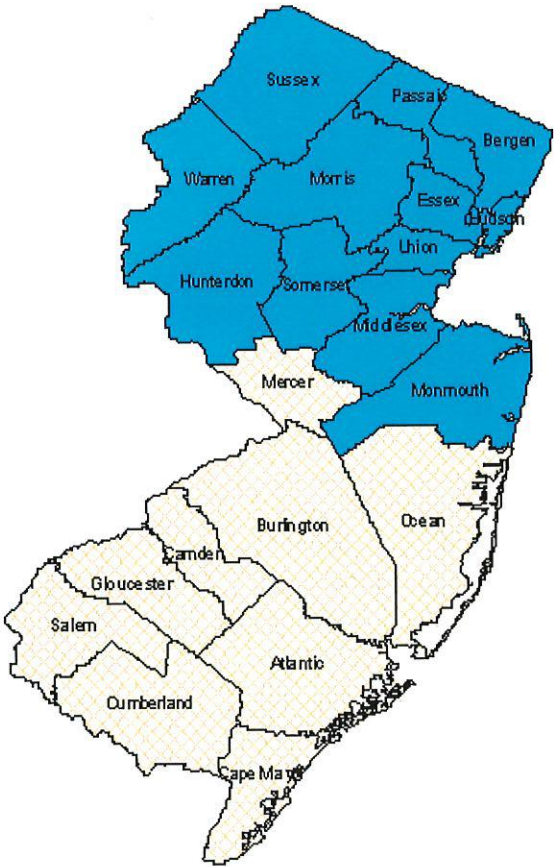


 SO2 Nonattainment Areas



Nonattainment areas are indicated by color.
When only a portion of a county is shown in color,
it indicates that only that part of the county is within
a nonattainment area boundary.



New Jersey 8-Hour Ozone Nonattainment Areas

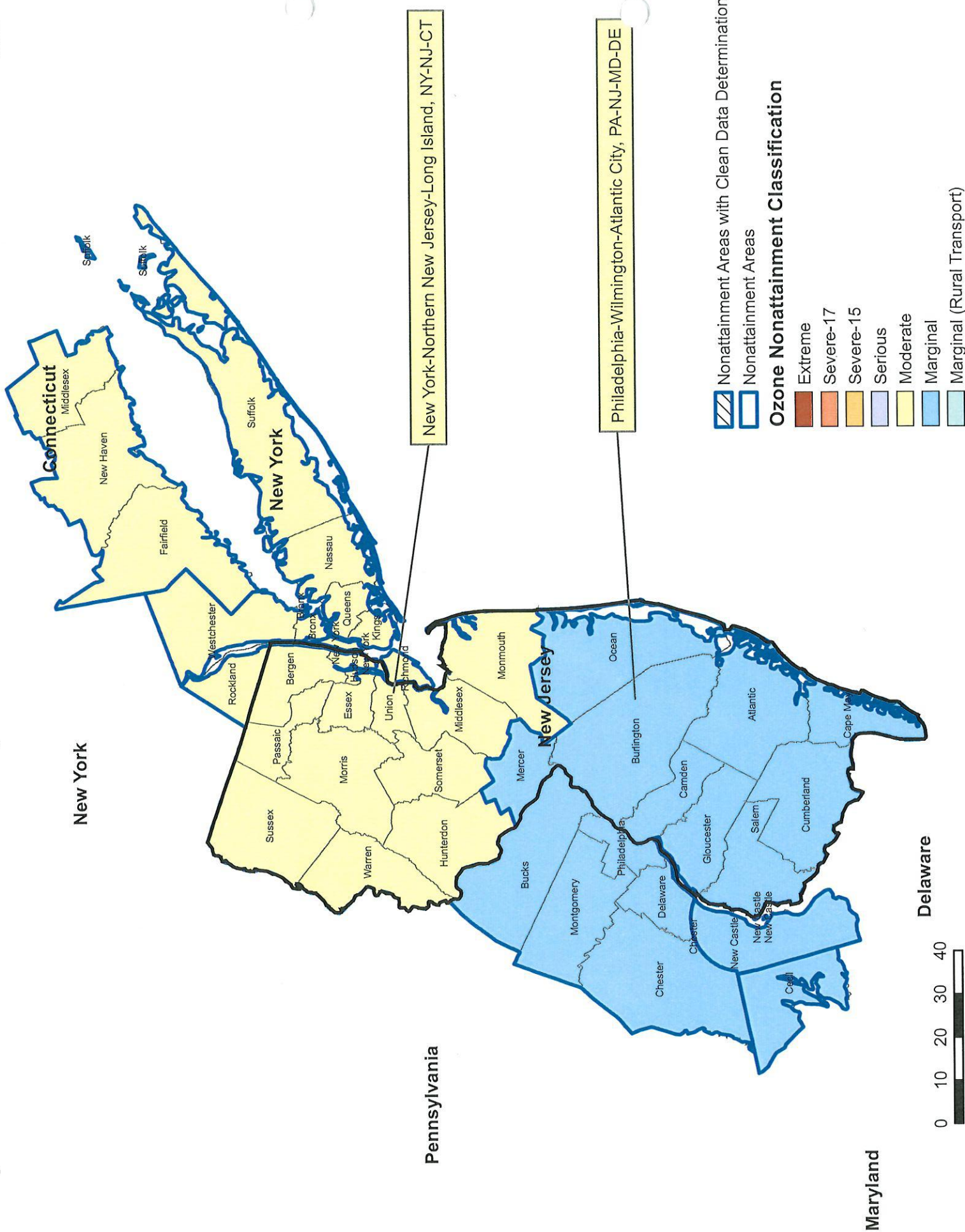


Designated 8-Hour Ozone Nonattainment Areas

-  Northern New Jersey - New York- Conn. Area
-  Southern New Jersey - Philadelphia - Delaware Area

New Jersey 8-hour Ozone Nonattainment Areas (2015 Standard)

09/30/2020

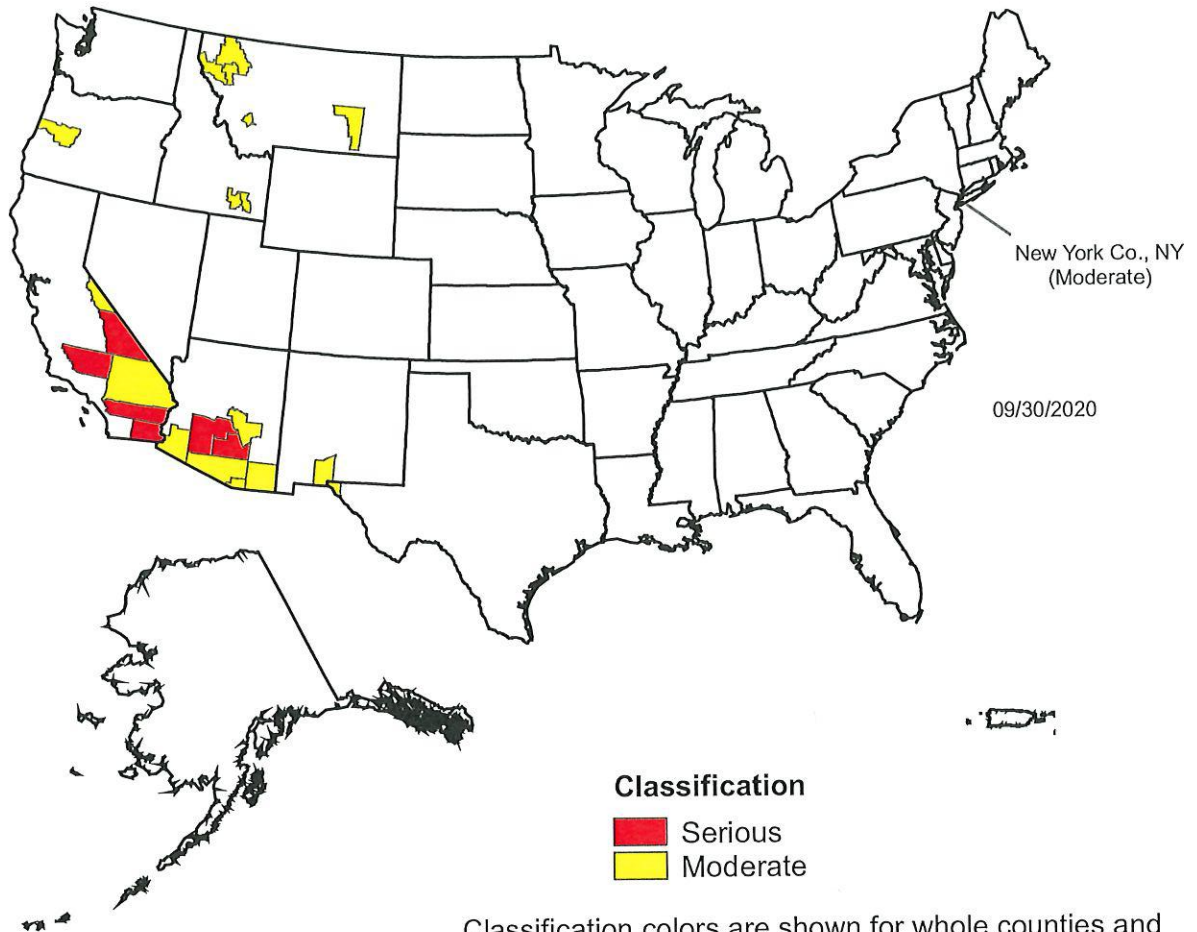


PM-2.5 Nonattainment Areas (2012 Standard)



Nonattainment areas are indicated by color.
When only a portion of a county is shown in color,
it indicates that only that part of the county is within
a nonattainment area boundary.

Counties Designated Nonattainment for PM-10



Classification colors are shown for whole counties and denote the highest area classification that the county is in

CONSTRUCTION (NON-ROAD) EQUIPMENT PROJECTION
FOR 1-27 JASPER ST. PATERSON, NJ

| Equipment | HP | Quantity | Job Phase | Duration | | Period Operated | Total HP Hours | |
|---------------|-----|----------|-------------------------------------|----------|-----------------------|------------------------------|----------------|---------|
| | | | | Weeks | Days/Wk or Total Days | | Year 1 | Year 2 |
| Backhoes | 107 | 1 | Utilities | 22 | 3 | Year 1 | 42,372 | |
| Excavator | 146 | 2 | Excavation & Trucking | 6 | 5 | Year 1 | 52,560 | |
| Bobcats | 49 | 1 | Miscellaneous | 45 | 3 | Year 1 | 39,690 | |
| Pump Truck | 400 | 1 | Footing / Foundation / Podium Pours | | 12 | Year 1 | 28,800 | |
| Crane | 450 | 1 | Roofing | 1 | 5 | Year 1 | 13,500 | |
| Crane | 450 | 1 | Podium / Framing | 30 | 3 | Year 1 | 243,000 | |
| Boom Lift | 84 | 1 | Windows/Siding | 18 | 5 | Year 1 | 45,360 | |
| Lull Forklift | 110 | 1 | Entire Job | 75 | 5 | Year 1 (52w) / Year 2 (23w) | 171,600 | 75,900 |
| Road Miller | 630 | 1 | Mill & Pave | | 5 | Year 2 | | 18,900 |
| Road Paver | 225 | 1 | Mill & Pave | | 5 | Year 2 | | 6,750 |
| Loader | 73 | 1 | Utilities; Mill & Pave | 23 | 5 | Year 12 (12w) / Year 2 (13w) | 26,280 | 28,470 |
| | | | | | | | 663,162 | 130,020 |

Search EPA.gov

Related Topics: Criteria Air Pollutants <<https://epa.gov/criteria-air-pollutants>>

CONTACT US <<https://epa.gov/criteria-air-pollutants/forms/contact-us-about-criteria-air-pollutants>>

NAAQS Table

The Clean Air Act <<https://epa.gov/clean-air-act-overview>>, which was last amended in 1990, requires EPA to set National Ambient Air Quality Standards (40 CFR part 50) for six principal pollutants ("criteria" air pollutants <<https://epa.gov/criteria-air-pollutants>>) which can be harmful to public health and the environment. The Clean Air Act identifies two types of national ambient air quality standards.

Primary standards provide public health protection, including protecting the health of "sensitive" populations such as asthmatics, children, and the elderly. **Secondary standards** provide public welfare protection, including protection against decreased visibility and damage to animals, crops, vegetation, and buildings.

Periodically, the standards are reviewed and sometimes may be revised, establishing new standards. The most recently established standards are listed below. In some areas of the U.S., certain regulatory requirements may also remain for implementation of previously established standards <<https://epa.gov/ground-level-ozone-pollution/ozone-implementation-regulatory-actions>>.

Units of measure for the standards are parts per million (ppm) by volume, parts per billion (ppb) by volume, and micrograms per cubic meter of air ($\mu\text{g}/\text{m}^3$).

| Pollutant [links to historical tables of NAAQS reviews] Carbon Monoxide (CO) | Primary/ Secondary | Averaging Time | Level | Form |
|---|-----------------------|-------------------|--------|--|
| < https://epa.gov/co-pollution/timeline-carbon-monoxide-co-national-ambient-air-quality-standards-naaqs > | primary | 8 hours | 9 ppm | Not to be exceeded more than once per year |
| | | 1 hour | 35 ppm | |

| Pollutant | | Primary/ Secondary | Averaging Time | Level | Form |
|--|-------------------|-----------------------------|-------------------------------|---------------------------------------|---|
| [links to historical tables of NAAQS reviews] Lead (Pb) <https://epa.gov/lead-air-pollution/timeline-lead-pb-national-ambient-air-quality-standards-naaqs> | | primary | Rolling 3 month average | 0.15 µg/m ³ ⁽¹⁾ | Not to be exceeded |
| Nitrogen Dioxide (NO ₂) <https://epa.gov/no2-pollution/timeline-nitrogen-dioxide-no2-national-ambient-air-quality-standards-naaqs> | | primary | 1 hour | 100 ppb | 98th percentile of 1-hour daily maximum concentrations, averaged over 3 years |
| | | primary and secondary | 1 year | 53 ppb ⁽²⁾ | Annual Mean |
| Ozone (O ₃) <https://epa.gov/ground-level-ozone-pollution/timeline-ozone-national-ambient-air-quality-standards-naaqs> | | primary and secondary | 8 hours | 0.070 ppm ⁽³⁾ | Annual fourth- highest daily maximum 8- hour concentration, averaged over 3 years |
| Particle Pollution (PM) <https://epa.gov/pm-pollution/timeline-particulate-matter-pm-national-ambient-air-quality-standards-naaqs> | PM _{2.5} | primary | 1 year | 12.0 µg/m ³ | annual mean, averaged over 3 years |
| | | secondary | 1 year | 15.0 µg/m ³ | annual mean, averaged over 3 years |
| | | primary and secondary | 24 hours | 35 µg/m ³ | 98th percentile, averaged over 3 years |
| | | | | | |

| Pollutant [links to historical of NAAQS reviews] | tables | Primary/ Secondary | Averaging Time | Level | Form Not to be exceeded more |
|--|--------|-----------------------------|-------------------|-----------------------|--|
| | | primary and secondary | 24 hours | 150 µg/m ³ | than once per year on average over 3 years |
| Sulfur Dioxide (SO ₂) < https://epa.gov/so2-pollution/timeline-sulfur-dioxide-national-ambient-air-quality-standards-naaqs > | | primary | 1 hour | 75 ppb ⁽⁴⁾ | 99th percentile of 1-hour daily maximum concentrations, averaged over 3 years |
| | | secondary | 3 hours | 0.5 ppm | Not to be exceeded more than once per year |

(1) In areas designated nonattainment for the Pb standards prior to the promulgation of the current (2008) standards, and for which implementation plans to attain or maintain the current (2008) standards have not been submitted and approved, the previous standards (1.5 µg/m³ as a calendar quarter average) also remain in effect.

(2) The level of the annual NO₂ standard is 0.053 ppm. It is shown here in terms of ppb for the purposes of clearer comparison to the 1-hour standard level.

(3) Final rule signed October 1, 2015, and effective December 28, 2015. The previous (2008) O₃ standards are not revoked and remain in effect for designated areas. Additionally, some areas may have certain continuing implementation obligations under the prior revoked 1-hour (1979) and 8-hour (1997) O₃ standards.

(4) The previous SO₂ standards (0.14 ppm 24-hour and 0.03 ppm annual) will additionally remain in effect in certain areas:

- (1) any area for which it is not yet 1 year since the effective date of designation under the current (2010) standards, and
- (2) any area for which an implementation plan providing for attainment of the current (2010) standard has not been submitted and approved and which is designated nonattainment under the previous SO₂ standards or is not meeting the requirements of a SIP call under the previous SO₂ standards (40 CFR 50.4(3)). A SIP call is an EPA action requiring a state to resubmit all or part of its State Implementation Plan to demonstrate attainment of the required NAAQS.

Menu of Control Measures for NAAQS Implementation

The Menu of Control Measures (MCM) provides state, local and tribal air agencies with the existing emission reduction measures as well as relevant information concerning the efficiency and cost effectiveness of the measures. State, local and tribal agencies will be able to use this information in developing emission reduction strategies, plans and programs to assure they attain and maintain the National Ambient Air Quality Standards (NAAQS). The MCM is a living document that can be updated with newly available or more current data as it becomes available.

- Menu of Control Measures <<https://epa.gov/criteria-air-pollutants/menu-control-measures-naaqs-implementation>>

Contact Us <<https://epa.gov/criteria-air-pollutants/forms/contact-us-about-criteria-air-pollutants>> to ask a question, provide feedback, or report a problem.



Discover.

Accessibility <<https://epa.gov/accessibility>>

Budget & Performance <<https://epa.gov/planandbudget>>

Contracting <<https://epa.gov/contracts>>

EPA www Web Snapshot <<https://epa.gov/home/wwwepagov-snapshots>>

Grants <<https://epa.gov/grants>>

No FEAR Act Data <<https://epa.gov/ocr/whistleblower-protections-epa-and-how-they-relate-non-disclosure-agreements-signed-epa-employees>>

Privacy <<https://epa.gov/privacy>>

Privacy and Security Notice <<https://epa.gov/privacy/privacy-and-security-notice>>

Connect.

Data.gov <<https://www.data.gov/>>

Inspector General <<https://epa.gov/office-inspector-general/about-epas-office-inspector-general>>

Search EPA.gov

General Conformity

CONTACT US <<https://epa.gov/general-conformity/forms/contact-us-about-general-conformity>>

De Minimis Tables

| 40 CFR 93.153(b)(1) - For purposes of paragraph (b) of this section the following rates apply in nonattainment areas (NAA's): | |
|---|-----------|
| | Tons/year |
| Ozone (VOC's or NO _x): | |
| Serious NAA's | 50 |
| Severe NAA's | 25 |
| Extreme NAAs | 10 |
| Other ozone NAA's outside an ozone transport region: | 100 |
| Other ozone NAA's inside an ozone transport region: | |
| VOC | 50 |
| NO _x | 100 |
| Carbon Monoxide: All maintenance areas | 100 |
| SO ₂ or NO ₂ : All NAA's | 100 |
| PM ₁₀ : | |
| Moderate NAA's | 100 |
| Serious NAA's | 70 |
| PM _{2.5} (direct emissions, SO ₂ , NO _x , VOC, and Ammonia): | |
| Moderate NAA's | 100 |
| Serious NAA's | 70 |
| Pb: All NAA's | 25 |

| 40 CFR 93.153(b) (2) - For purposes of paragraph (b) of this section the following rates apply in maintenance areas: | |
|--|------------------|
| | Tons/year |
| Ozone (NO _x), SO ₂ or NO ₂ : | |
| All maintenance areas | 100 |
| Ozone (VOC's) | |
| Maintenance areas inside an ozone transport region | 50 |
| Maintenance areas outside an ozone transport region | 100 |
| Carbon monoxide: All maintenance areas | 100 |
| PM ₁₀ : All maintenance areas | 100 |
| PM _{2.5} (direct emissions, SO ₂ , NO _x , VOC, and Ammonia) | 100 |
| All maintenance areas | 100 |
| Pb: All maintenance areas | 25 |

General Conformity Home <<https://epa.gov/general-conformity>>

What is General Conformity? <<https://epa.gov/general-conformity/what-general-conformity>>

Basic Information About the Rule <<https://epa.gov/general-conformity/basic-information-about-general-conformity-rule>>

Regulatory Actions <<https://epa.gov/general-conformity/general-conformity-regulatory-actions>>

Training Modules I - IV <<https://epa.gov/general-conformity/general-conformity-training-modules>>

Contact Us <<https://epa.gov/general-conformity/forms/contact-us-about-general-conformity>> to ask a question, provide feedback, or report a problem.

Coastal Zone Management Act

| General requirements | Legislation | Regulation |
|--|--|-----------------|
| Federal assistance to applicant agencies for activities affecting any coastal use or resource is granted only when such activities are consistent with federally approved State Coastal Zone Management Act Plans. | Coastal Zone Management Act (16 USC 1451-1464), particularly section 307(c) and (d) (16 USC 1456(c) and (d)) | 15 CFR Part 930 |

1. Is the project located in, or does it affect, a Coastal Zone as defined in your state Coastal Management Plan?

Yes

✓ No

Based on the response, the review is in compliance with this section. Document and upload all documents used to make your determination below.

Screen Summary

Compliance Determination

This project is not located in or does not affect a Coastal Zone as defined in the state Coastal Management Plan. The project is in compliance with the Coastal Zone Management Act. (REFER TO CAFRA MAP NJ)

Supporting documentation

Map of NJ Coastal Zone Municipalities - PATERSON.pdf

Are formal compliance steps or mitigation required?

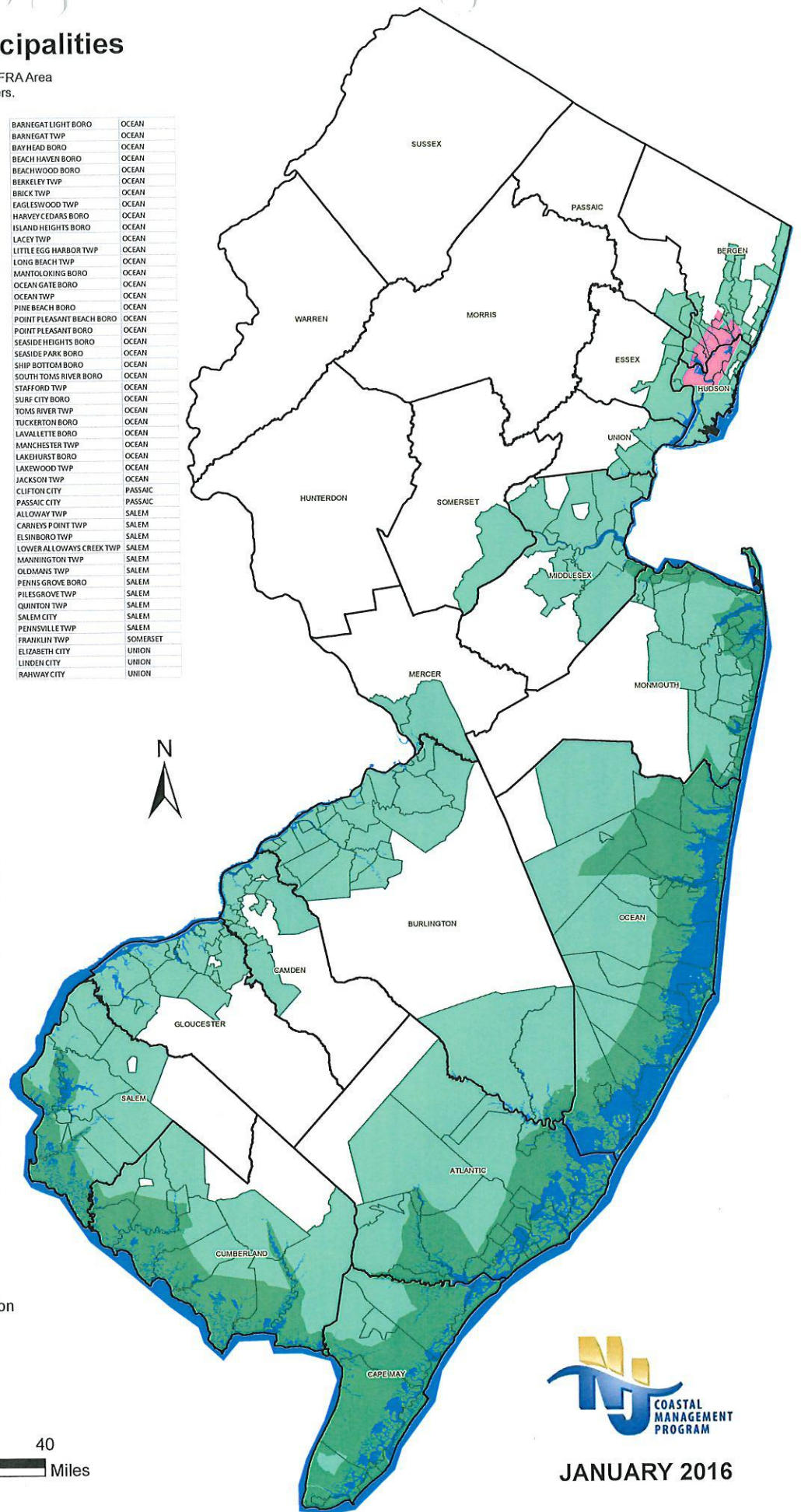
Yes

✓ No

Map of NJ Coastal Municipalities

Municipalities listed includes those in the CAFRA Area
and those with Tidally Influenced Waters.

| | | | | | |
|-------------------------|------------|--------------------------|------------|---------------------------|----------|
| ABSECON CITY | ATLANTIC | BRIDGETON CITY | CUMBERLAND | BARNEGAT LIGHT BORO | OCEAN |
| ATLANTIC CITY | ATLANTIC | COMMERCIAL TWP | CUMBERLAND | BARNEGAT TWP | OCEAN |
| BRIGANTINE CITY | ATLANTIC | DOWNIE TWP | CUMBERLAND | BAY HEAD BORO | OCEAN |
| CORBIN CITY | ATLANTIC | FAIRFIELD TWP | CUMBERLAND | BEACH HAVEN BORO | OCEAN |
| EGG HARBOR TWP | ATLANTIC | GREENWICH TWP | CUMBERLAND | BEACHWOOD BORO | OCEAN |
| ESTELL MANOR CITY | ATLANTIC | LAWRENCE TWP | CUMBERLAND | BERKELEY TWP | OCEAN |
| GALLOWAY TWP | ATLANTIC | MAURICE RIVER TWP | CUMBERLAND | BRICK TWP | OCEAN |
| HAMILTON TWP | ATLANTIC | MILLVILLE CITY | CUMBERLAND | EAGLESWOOD TWP | OCEAN |
| LINWOOD CITY | ATLANTIC | STOW CREEK TWP | CUMBERLAND | HARVEY CEDARS BORO | OCEAN |
| LONGPORT BORO | ATLANTIC | UPPER DEERFIELD TWP | CUMBERLAND | ISLAND HEIGHTS BORO | OCEAN |
| MARGATE CITY | ATLANTIC | HOPEWELL TWP | CUMBERLAND | LACEY TWP | OCEAN |
| MULLICA TWP | ATLANTIC | BELLEVILLE TWP | ESSEX | LITTLE EGG HARBOR TWP | OCEAN |
| NORTHFIELD CITY | ATLANTIC | NEWARK CITY | ESSEX | LONG BEACH TWP | OCEAN |
| PLEASANTVILLE CITY | ATLANTIC | NUTLEY TWP | ESSEX | MANTOLOKING BORO | OCEAN |
| PORT REPUBLIC CITY | ATLANTIC | DEPTFORD TWP | GLOUCESTER | OCEAN GATE BORO | OCEAN |
| SOMERS POINT CITY | ATLANTIC | EAST GREENWICH TWP | GLOUCESTER | OCEAN TWP | OCEAN |
| VENTNOR CITY | ATLANTIC | GREENWICH TWP | GLOUCESTER | PINE BEACH BORO | OCEAN |
| WEYMOUTH TWP | ATLANTIC | LOGAN TWP | GLOUCESTER | POINT PLEASANT BEACH BORO | OCEAN |
| EGG HARBOR CITY | ATLANTIC | MANTUA TWP | GLOUCESTER | POINT PLEASANT BORO | OCEAN |
| ALPINE BORO | BERGEN | NATIONAL PARK BORO | GLOUCESTER | SEASIDE HEIGHTS BORO | OCEAN |
| BOGOTA BORO | BERGEN | PAULSBORO BORO | GLOUCESTER | SEASIDE PARK BORO | OCEAN |
| CARLSTADT BORO | BERGEN | SWENESBORO BORO | GLOUCESTER | SHIP BOTTOM BORO | OCEAN |
| EAST RUTHERFORD BORO | BERGEN | WENONAH BORO | GLOUCESTER | SOUTH TOMS RIVER BORO | OCEAN |
| EDGEWATER BORO | BERGEN | WEST DEPTFORD TWP | GLOUCESTER | STAFFORD TWP | OCEAN |
| ENGLISHTOWN CLIFFS BORO | BERGEN | WOODBURY CITY | GLOUCESTER | SURF CITY BORO | OCEAN |
| FAIRVIEW BORO | BERGEN | WOOLWICH TWP | GLOUCESTER | TOMS RIVER TWP | OCEAN |
| FORT LEE BORO | BERGEN | WESTFIELD CITY | GLOUCESTER | TUCKERTON BORO | OCEAN |
| GARFIELD CITY | BERGEN | BAVONINE CITY | HUDSON | LAVALLLETTE BORO | OCEAN |
| HACKENSACK CITY | BERGEN | EAST NEWARK BORO | HUDSON | MANCHESTER TWP | OCEAN |
| LITTLE FERRY BORO | BERGEN | GUTTENBERG TOWN | HUDSON | LAKESHURST BORO | OCEAN |
| LYNDHURST TWP | BERGEN | HARRISON TOWN | HUDSON | LAKESWOOD TWP | OCEAN |
| MOONACHIE BORO | BERGEN | HOBOKEN CITY | HUDSON | JACKSON TWP | OCEAN |
| NEW MILFORD BORO | BERGEN | JERSEY CITY | HUDSON | CLIFTON CITY | PASSAIC |
| NORTH ARLINGTON BORO | BERGEN | KEARNY TOWN | HUDSON | PASSAIC CITY | PASSAIC |
| ORADELL BORO | BERGEN | NORTH BERGEN TWP | HUDSON | ALLOWAY TWP | SALEM |
| RIDGEFIELD BORO | BERGEN | SEACALUS TOWN | HUDSON | CARNEYS POINT TWP | SALEM |
| RIDGEFIELD PARK VILLAGE | BERGEN | WEHAWKE TWP | HUDSON | ELISNBORO TWP | SALEM |
| RIVER EDGE BORO | BERGEN | WEST NEW YORK TOWN | HUDSON | LOWER ALLOWAYS CREEK TWP | SALEM |
| RUTHERFORD BORO | BERGEN | HAMILTON TWP | MERCER | MANNINGTOWN TWP | SALEM |
| TEANECK TWP | BERGEN | TRENTON CITY | MERCER | OLDMAIS TWP | SALEM |
| TENAFLY BORO | BERGEN | CARTERET BORO | MIDDLESEX | PENINS GROVE BORO | SALEM |
| WALLINGTON BORO | BERGEN | EAST BRUNSWICK TWP | MIDDLESEX | PILESGROVE TWP | SALEM |
| SOUTH HACKENSACK TWP | BERGEN | EDISON TWP | MIDDLESEX | QUINTON TWP | SALEM |
| BASS RIVER TWP | BURLINGTON | HIGHLAND PARK BORO | MIDDLESEX | SALEM CITY | SALEM |
| BEVERLY CITY | BURLINGTON | OLD BRIDGE TWP | MIDDLESEX | PENINSVILLE TWP | SALEM |
| BORDENTOWN CITY | BURLINGTON | PERTH AMBOY CITY | MIDDLESEX | FRANKLIN TWP | SOMERSET |
| BORDENTOWN TWP | BURLINGTON | SAVRILLE BORO | MIDDLESEX | ELIZABETH CITY | UNION |
| BURLINGTON CITY | BURLINGTON | SOUTH AMBOY CITY | MIDDLESEX | LINDEN CITY | UNION |
| BURLINGTON TWP | BURLINGTON | SOUTH RIVER BORO | MIDDLESEX | RAHWAY CITY | UNION |
| CHESTERFIELD TWP | BURLINGTON | WOODBRIDGE TWP | MIDDLESEX | | |
| CINNAMINSON TWP | BURLINGTON | NEW BRUNSWICK CITY | MIDDLESEX | | |
| DELANCO TWP | BURLINGTON | PISCATAWAY TWP | MIDDLESEX | | |
| EDGEWATER PARK TWP | BURLINGTON | ABERDEEN TWP | MIDDLESEX | | |
| FIELDSBORO BORO | BURLINGTON | ALLENHURST BORO | MONMOUTH | | |
| FLORENCE TWP | BURLINGTON | ASBURY PARK CITY | MONMOUTH | | |
| HAINESPORT TWP | BURLINGTON | ATLANTIC HIGHLANDS BORO | MONMOUTH | | |
| LUMBERTON TWP | BURLINGTON | AVON-BY-SEA BORO | MONMOUTH | | |
| MANFIELD TWP | BURLINGTON | BELMAR BORO | MONMOUTH | | |
| MAPLE SHADE TWP | BURLINGTON | BRADLEY BEACH BORO | MONMOUTH | | |
| MOORESTOWN TWP | BURLINGTON | BRIELLE BORO | MONMOUTH | | |
| MOUNT HOLLY TWP | BURLINGTON | DEAL BORO | MONMOUTH | | |
| MOUNT LAUREL TWP | BURLINGTON | EATONTOWN BORO | MONMOUTH | | |
| PALMYRA BORO | BURLINGTON | FAIR HAVEN BORO | MONMOUTH | | |
| RIVERSIDE TWP | BURLINGTON | HAZLET TWP | MONMOUTH | | |
| RIVINGTON BORO | BURLINGTON | HIGHLANDS BORO | MONMOUTH | | |
| SPRINGFIELD TWP | BURLINGTON | INTERLAKEN BORO | MONMOUTH | | |
| WASHINGTON TWP | BURLINGTON | KEANSBURG BORO | MONMOUTH | | |
| WESTAMPTON TWP | BURLINGTON | KEYPORT BORO | MONMOUTH | | |
| WILLINGBORO TWP | BURLINGTON | LITTLE SILVER BORO | MONMOUTH | | |
| DELRAN TWP | BURLINGTON | LOCH ARBOUR VILLAGE | MONMOUTH | | |
| BELLMAWR BORO | CAMDEN | LONG BRANCH CITY | MONMOUTH | | |
| BROOKLAWN BORO | CAMDEN | MANASQUAN BORO | MONMOUTH | | |
| CAMDEN CITY | CAMDEN | MATAWAN BORO | MONMOUTH | | |
| CHERRY HILL TWP | CAMDEN | MIDDLETOWN TWP | MONMOUTH | | |
| GLOUCESTER CITY | CAMDEN | MONMOUTH BEACH BORO | MONMOUTH | | |
| GLOUCESTER TWP | CAMDEN | NEPTUNE CITY BORO | MONMOUTH | | |
| MOUNT EPHRAIM BORO | CAMDEN | NEPTUNE TWP | MONMOUTH | | |
| PENNSAUKEN TWP | CAMDEN | OCEANPORT BORO | MONMOUTH | | |
| RUNNEMEDE BORO | CAMDEN | RED BANK BORO | MONMOUTH | | |
| WOOLLYNNE BORO | CAMDEN | RUMSON BORO | MONMOUTH | | |
| HADDON TWP | CAPE MAY | SEA BRIGHT BORO | MONMOUTH | | |
| AVAILON BORO | CAPE MAY | SEA GIRT BORO | MONMOUTH | | |
| CAPE MAY CITY | CAPE MAY | SHREWSBURY BORO | MONMOUTH | | |
| CAPE MAY POINT BORO | CAPE MAY | SPRING LAKE BORO | MONMOUTH | | |
| DENNIS TWP | CAPE MAY | SPRING LAKE HEIGHTS BORO | MONMOUTH | | |
| LOWER TWP | CAPE MAY | TINTON FALLS BORO | MONMOUTH | | |
| MIDDLE TWP | CAPE MAY | UNION BEACH BORO | MONMOUTH | | |
| NORTH WILWOOD CITY | CAPE MAY | WALL TWP | MONMOUTH | | |
| OCEAN CITY | CAPE MAY | WEST LONG BRANCH BORO | MONMOUTH | | |
| SEA ISLE CITY | CAPE MAY | OCEAN TWP | MONMOUTH | | |
| STONE HARBOR BORO | CAPE MAY | HOLMDEL TWP | MONMOUTH | | |
| UPPER TWP | CAPE MAY | LAKE COMO BORO | MONMOUTH | | |
| WEST CAPE MAY BORO | CAPE MAY | COLTS NECK TWP | MONMOUTH | | |
| WEST WILWOOD BORO | CAPE MAY | | | | |
| WILWOOD CITY | CAPE MAY | | | | |
| WILWOOD CREST BORO | CAPE MAY | | | | |
| WOODBINE BORO | CAPE MAY | | | | |



- Tidally Influenced Municipalities
- Hackensack Meadowlands Region
- CAFRA Zone
- New Jersey Tidal Waterways

0 10 20 40 Miles

1:471,215



JANUARY 2016

Contamination and Toxic Substances

| General requirements | Legislation | Regulations |
|--|-------------|-------------------------------------|
| It is HUD policy that all properties that are being proposed for use in HUD programs be free of hazardous materials, contamination, toxic chemicals and gases, and radioactive substances, where a hazard could affect the health and safety of the occupants or conflict with the intended utilization of the property. | | 24 CFR 58.5(i)(2) 24 CFR 50.3(i) |

1. How was site contamination evaluated? Select all that apply. Document and upload documentation and reports and evaluation explanation of site contamination below.

- ☒ American Society for Testing and Materials (ASTM) Phase I Environmental Site Assessment (ESA)
ASTM Phase II ESA
Remediation or clean-up plan
ASTM Vapor Encroachment Screening
None of the Above

2. Were any on-site or nearby toxic, hazardous, or radioactive substances found that could affect the health and safety of project occupants or conflict with the intended use of the property? (Were any recognized environmental conditions or RECs identified in a Phase I ESA and confirmed in a Phase II ESA?)

No

☒ Yes

3. **Mitigation**

Document and upload the mitigation needed according to the requirements of the appropriate federal, state, tribal, or local oversight agency. If the adverse environmental effects cannot be mitigated, then HUD assistance may not be used for the project at this site.

Can adverse environmental impacts be mitigated?

Adverse environmental impacts cannot feasibly be mitigated.

- ✓ Yes, adverse environmental impacts can be eliminated through mitigation.
Document and upload all mitigation requirements below.

4. Describe how compliance was achieved in the text box below. Include any of the following that apply: State Voluntary Clean-up Program, a No Further Action letter, use of engineering controls, or use of institutional controls.

The only REC/area of concern that was mentioned was the presence of historic fill material. According to historical records and a review of Sanborn maps, a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid-1950s. The presence of the Middle Reservoir in itself is not an environmental concern; however, the water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the reservoir and raise the Property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir is unknown at this time and therefore historic fill material is considered a REC/AOC. No evaluation is required under NJDEP regulations at this time. However, should a triggering event occur at the Property such as a release to subsurface or construction/activities occur which involve the disturbance and/or disposal of the site soils, appropriate site investigation sampling may be necessary to determine the quality of the soil. The soil sampling test results came back with no detection. Radon According to the EPA, the radon zone level for the area is Zone 2, which has a predicted average indoor screening level between 2 pCi/L and 4 pCi/L, equal to or below the action level of 4 pCi/L set forth by the US EPA. While the subject property currently consists of vacant land, it is AEI's understanding that the subject property is planned for redevelopment with a multifamily residential building in connection with HUD HOME financing. As such, in accordance with the HUD MAP Guide, new construction should follow the ANSI/AARST CC-1000 (2018) Soil Gas System in New Construction of Buildings and post construction testing must be performed after construction is complete. Asbestos and Lead-based Paint The subject property is currently vacant land. EWMA's site reconnaissance noted the only structure on site was a plastic shed. Consequently, no building components likely to contain lead-based paints or suspect asbestos-containing materials were noted on site. With implementation of the recommended mitigation, the project will be in compliance with contamination and toxic substances requirements.

If a remediation plan or clean-up program was necessary, which standard does it follow?

Complete removal

✓ Risk-based corrective action (RBCA)

Screen Summary

Compliance Determination

Site contamination was evaluated as follows: ASTM Phase I ESA. On-site or nearby toxic, hazardous, or radioactive substances were found that could affect the health and safety of project occupants or conflict with the intended use of the property. The adverse environmental impacts can be mitigated. With mitigation, identified in the mitigation section of this review, the project will be in compliance with contamination and toxic substances requirements.

Supporting documentation

CONTAMINATION compliance determination detail.docx

Phase I Environmental Site Assessment.pdf

SITE CONTAMINATION CHECKLIST AND DOCS.pdf

Are formal compliance steps or mitigation required?

✓ Yes

No

1-27 JASPER ST, PATERSON, NJ

Contamination and Toxic Substances

24 CFR Part 50.3(i) & 58.5(i)(2)

Are formal compliance steps or mitigation required? Yes ☒

EWMA conducted a Phase I Environmental Site Assessment (ESA) in March 2021 for the subject property in conformance with the scope and limitations of ASTM Standard Practice E1527-13 and the EPA Standards and Practices for All Appropriate Inquiries (40 CFR Part 312).

Site contamination was evaluated as follows: ASTM Phase I ESA and ASTM Vapor Encroachment Screening. Based on review of the regulatory database report, the subject property (i) is not listed on an EPA Superfund National Priorities or CERCLA List, or equivalent State list; (ii) is not located within 3,000 feet of a toxic or solid waste landfill site; (iii) does not have an underground storage tank (which is not a residential fuel tank).

According to historical records and a review of Sanborn maps, a reservoir known as the Middle Reservoir occupied the Property from at least 1915 through the mid-1950s. The presence of the Middle Reservoir in itself is not an environmental concern; however, the water body was drained and filled to grade as indicated in the aerial photographs. Fill material was imported to fill the reservoir and raise the subject property to grade. Historic fill generally constitutes a concern when it contains industrial waste, construction and demolition debris, coal ash, dredge spoils, or other potentially contaminated anthropogenic materials. The quality of the fill material used to fill the reservoir was unknown at the time and therefore the historic fill material was identified as a recognized environmental concern (REC).

As construction activities are proposed which would involve the disturbance and disposal of on-site soils, A.T. Cameron, PG, conducted additional investigation of on-site and off-site soils in 2020 in the area of Hinchliffe Stadium and the subject property. Investigation of on-site soils (the area of a proposed six-story apartment building and four-story parking garage) included installation of 13 borings on July 24, 2020 with the collection of one soil sample from each boring. Two series of borings were installed: the F-series borings (7 borings) were installed adjacent to the Hinchliffe Stadium in the area where previous investigation work identified fill (i.e. on the subject property). The H-series borings (6 borings) were installed in the area where glacial deposits were identified at the surface on or in the immediate vicinity of the subject property. The F-series borings encountered fill in each boring that ranged from 2.5 to 6 feet in thickness. Fill was also present in borings H-4, H-5, and H-6 just off-site, but was not present in borings H-1, H-2, or H-3 on the subject property.

Each of the borings were installed to a depth of 10 feet below ground surface (bgs), continuously field screened, and analyzed for Target Compound List/Target Analyte List compounds, EPH, RCRA Characteristics, and hexavalent chromium.

Benzo(a)pyrene, mercury, lead, and chlordane (a pesticide) were detected above the default impact to groundwater soil cleanup standard (IGWSCS); however, none were detected above the

residential or non-residential contact standards. Aluminum and manganese were detected above their respective IGWSCS. However, the groundwater quality standard for aluminum and manganese are not based on health considerations; they are based on aesthetic considerations such as taste, odor, and appearance. Both are naturally occurring in the soil in New Jersey with concentrations commonly above the impact to ground water standard. NJDEP has determined that the impact to ground water pathway does not need to be addressed for these metals unless there is a reason to believe that their presence is due to a discharge. As there is no evidence that these exceedances are the result of a discharge at the site, evaluation of the impact to ground water pathway is not required for these compounds. Methylene chloride was also detected at a low level in some F-series samples; this compound was likely introduced at the laboratory.

Based on the analytical results from the subject property area soil boring samples, benzo(a)pyrene, mercury, lead, aluminum, manganese, and chlordane exceeded the IGWSCS. Further investigation of the impact to ground water pathway was suggested for those compounds that exceed the IGWSCS, with the exception of aluminum and manganese as noted above.

As a result, A.T. Cameron, PG conducted a limited environmental investigation of the migration to ground water pathway at the subject property. According to the report dated August 10, 2021, new standards were approved and became effective on May 17, 2021; the new standards are listed as the soil remediation standards for the migration to ground water pathway (MGWP) and soil leachate remediation standards for migration to ground water exposure pathway (LMGWP). Benzo(a)pyrene no longer has a MGWP standard; therefore, only chlordane, lead, and mercury, the other compounds previously detected above the old default impact to ground water soil cleanup standards, have current MGWP standards.

Additional borings were installed in the approximate locations of the original borings and samples collected in January 2021. Those borings where the original results indicated a potential impact to ground water based on the old standards had the following results:

- The sample from boring H1-A in the location of the original boring H-1 was non-detect for benzo(a)pyrene in the soil and leachate; therefore, it does not pose a groundwater concern.
- Samples from the new borings labeled F1-A, F2-A, F3-A, and F6-A and installed in approximately the same locations as the original borings were either non-detect for lead and/or mercury or, if detected, were below the current MGWP standard and the SPLP results were below the leachate standard. As such, lead and mercury do not pose a groundwater concern.
- Sampling from boring F7-A in the location of original boring F7, which had exceeded the old standard for Chlordane, came back non-detect for chlordane in both the soil and leachate samples. Based on the review of historical testing and current testing when compared to the MGWP, chlordane does not pose a concern for groundwater.
- Samples from the new borings labeled F1-A, F6-A, and F7-A and installed in approximately the same locations as the original borings were either non-detect for benzo(a)pyrene or, if detected, were below the current MGWP standard and the SPLP results were below the leachate standard for each sample. As such, benzo(a)pyrene does not pose a groundwater concern.

Based on the above results, there are no compounds that would pose a groundwater impact concern, and no further action is required.

Radon

According to the EPA, the radon zone level for the area is Zone 2, which has a predicted average indoor screening level between 2 pCi/L and 4 pCi/L, equal to or below the action level of 4 pCi/L set forth by the US EPA. While the subject property currently consists of vacant land, it is AEI's understanding that the subject property is planned for redevelopment with a multifamily residential building in connection with HUD HOME financing. As such, in accordance with the HUD MAP Guide, new construction should follow the ANSI/AARST CC-1000 (2018) Soil Gas System in New Construction of Buildings and post construction testing must be performed after construction is complete.

Asbestos and Lead-based Paint

The subject property is currently vacant land. EWMA's site reconnaissance noted the only structure on site was a plastic shed. Consequently, no building components likely to contain lead-based paints or suspect asbestos-containing materials were noted on site.

With implementation of the recommended mitigation, the project will be in compliance with contamination and toxic substances requirements.

SITE-SPECIFIC FIELD CONTAMINATION CHECKLIST

Completing the form requires a site visit by the preparer. The preparer should be sure to observe the property by walking through the property and the building(s) and other structures on the property to the extent possible and observing all adjoining* properties.

Date of Visit: 10/6/2020 Time: 9:30 AM Weather: Sunny ~ 66°

Program Name: SENIOR HOUSING (CHINCHLIFFE) + GARAGE

Project Location/Address: 1-27 JASPER ST. PATERSON, NJ 07522

Property Owner: _____

Attach the following, as appropriate: _____

☐ Photographs of site and surrounding areas

☒ Maps (street, topographic, aerial, site map,

| QUESTION | OBSERVATION | |
|--|-----------------------------|-----------------------------|
| | SUBJECT PROPERTY | ADJOINING PROPERTIES |
| Is there evidence of any of the following? Is the property or any adjoining property currently used, or has evidence of prior use, as a <i>gasoline station, motor vehicle repair facility, printing facility, dry cleaners, photo developing laboratory, junkyard, or as a waste treatment, storage, disposal, processing or recycling facility?</i> | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Are there any damaged or discarded <i>automobile(s), automotive or industrial batteries, pesticides, paints, or other chemicals</i> in individual containers greater than 5 gal in volume or 50 gal in the aggregate, stored on or used at the property or adjoining properties? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Are there any industrial <i>drums</i> (typically 55 gal) or sacks of <i>chemicals, herbicides or pesticides</i> located on the property or adjoining properties? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Has <i>fill dirt</i> been brought onto the property or adjoining properties that originated from a suspicious site or that is of an unknown origin? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Are there any <i>pits, ponds, or lagoons</i> located on the property or adjoining properties in connection with waste treatment or waste disposal? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Is there any <i>stained soil, distressed vegetation and/or discolored water</i> on the property or adjoining properties? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |
| Are there any <i>storage tanks</i> , aboveground or underground (other than residential), located on the property or adjoining properties? | YES <u>NO</u> UNKNOWN | YES <u>NO</u> UNKNOWN |

*Adjoining properties: Any real property or properties the border of which is contiguous or partially contiguous with that of the property, or that would be contiguous or partially contiguous with that of the property but for a street, road, or other public thoroughfare separating them.

| QUESTION | SUBJECT PROPERTY | ADJOINING PROPERTIES |
|--|--|---|
| Is there evidence of any of the following? | | |
| Are there any <i>vent pipes, fill pipes, or underground tank access ways</i> visible on the property or adjoining properties? | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |
| Are any flooring, drains, walls, ceilings, or grounds on the property or adjoining properties <i>stained by substances</i> (other than water) or emitting <i>noxious or foul odors or odors of a chemical nature</i> ? | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |
| Is the property served by a <i>private well or non-public water system</i> ? (If yes, a follow-up investigation is required to determine if contaminants have been identified in the well or system that exceed guidelines applicable to the water system, or if the well has been designated contaminated by any government environmental/health agency.) | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |
| Has the owner or occupant of the property been informed of the existence of past or current <i>hazardous substances or petroleum products or environmental violations</i> with respect to the property or adjoining properties? | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |
| Do the property or adjoining properties <i>discharge wastewater</i> (not including sanitary waste or storm water) onto the property or adjoining properties and/or into a storm water system? | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |
| Is there a <i>transformer, capacitor, or any hydraulic equipment</i> on the property or adjoining properties that are not marked as "non-PCB"? | YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> | <input type="checkbox"/> YES <input checked="" type="radio"/> NO UNKNOWN <input type="checkbox"/> |

If answering "YES" or UNKNOWN" to any above items, describe the conditions:

Use photographs and maps to mark and identify conditions. Attach more information as needed.

Is further evaluation warranted? YES ☐ ☒ NO ☐ UNCERTAIN ☐

Preparer of this form must complete the following required information.

| | |
|--|--|
| This inspection was completed by: Name: DIANA VAZQUEZ Title: INSPECTOR Address: 125 ELLISON ST. 2ND FLR PATERSON, NJ 07505 | Phone Number: 973-321-1212 |
| | Email: DVAZQUEZ@PATERSONNJ.GOV |
| | Agency: CITY OF PATERSON COMM. DEV. |

Preparer represents that to the best of his/her knowledge the above statements and facts are true and correct and to the best of his/her actual knowledge no material facts have been suppressed, omitted or misstated.

| | |
|---------------------------------|------------------------|
| Signature: Diana Vazquez | Date: 11/8/2021 |
|---------------------------------|------------------------|