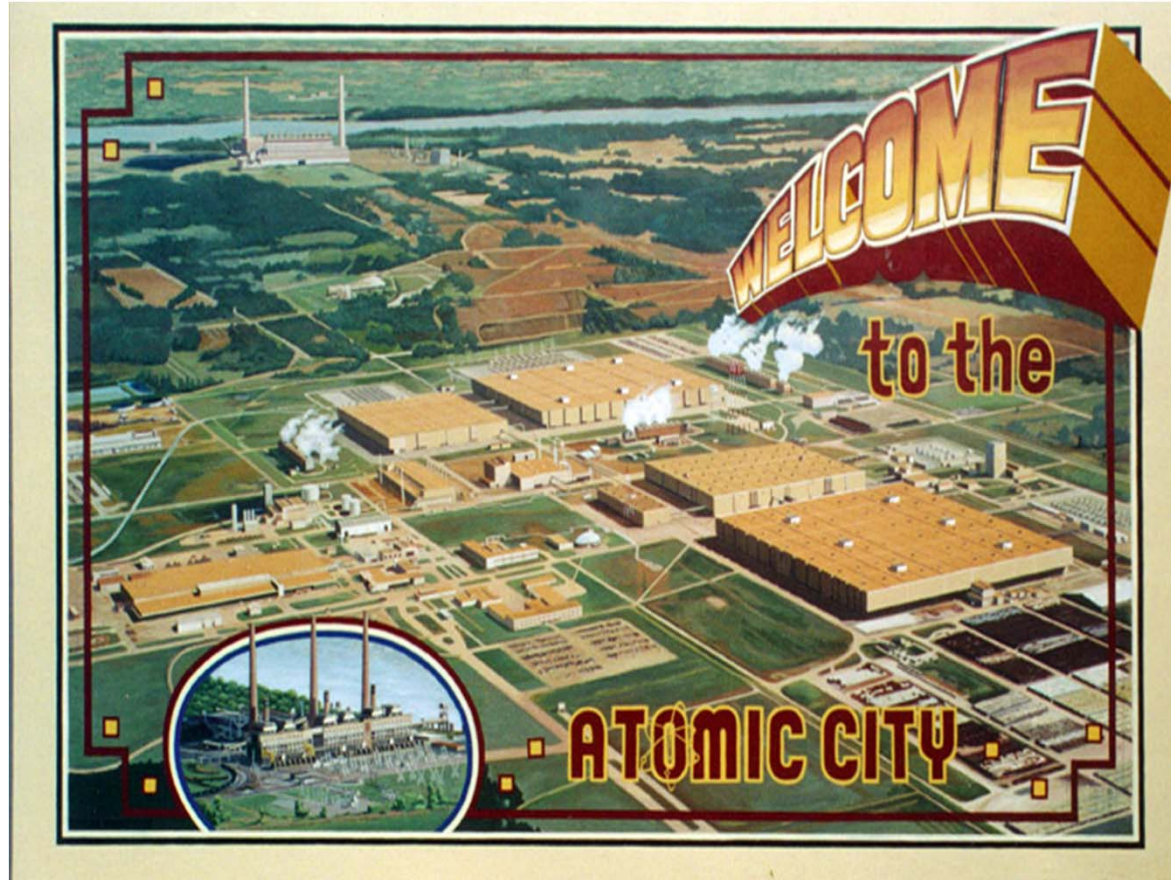


PGDP Future Vision Project



www.paducahvision.com

Why We Are Here

- Future PGDP Plant Closing Anticipated
 - Loss of existing jobs
 - Cleanup questions
- Entire Region Affected
- Many Possible Future Uses for Site
- Our Job: Gather Your Preferences for a Future Vision
- Our Method: Show and Discuss a Wide Range of Hypothetical Futures and Then Solicit Your Rating for Each One
- Compile your Preferences in a report for the community and DOE

Origin and Use of the Scenarios

- The land uses and cleanup options contained in these scenarios arose from conversations with people from across the community, with very different histories and relationships with the plant. They represent a very broad range of possible outcomes, and so each may be strongly favored by some and strongly opposed by others.
- Thank you for taking the time to help us with this important work.

What We Will Do Tonight

- Discuss land uses and cleanup options
- Show and discuss twelve hypothetical scenarios
- When you are ready, you will rate them with keypads
- Discuss your ratings
- You tell us how we did tonight
- You get to go home! (or stay and talk)
- Time goal: 2 hours or less
- Bonus Round! Talk about specific land uses in more detail and have you rate those

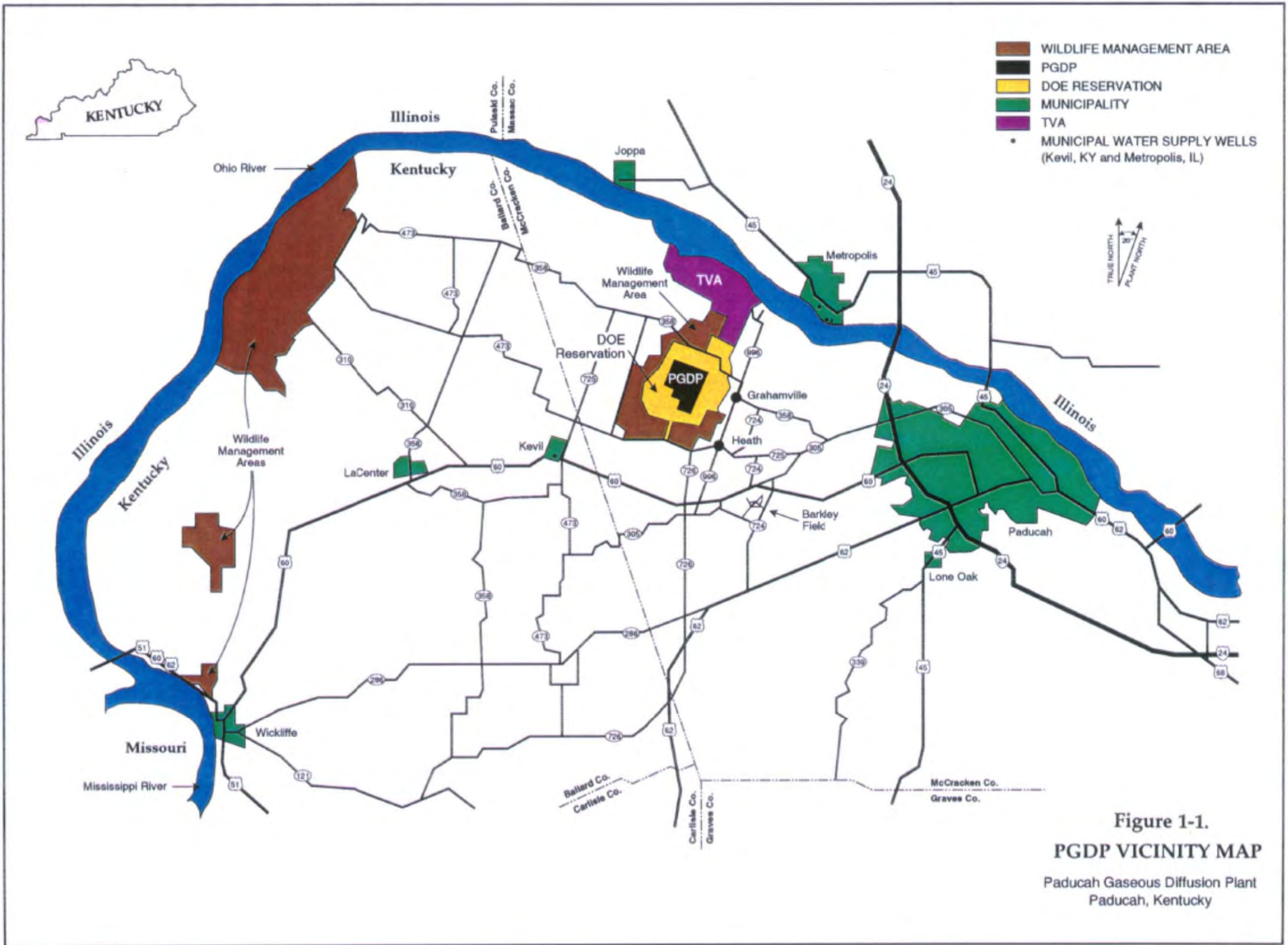


Figure 1-1.
PGDP VICINITY MAP
 Paducah Gaseous Diffusion Plant
 Paducah, Kentucky

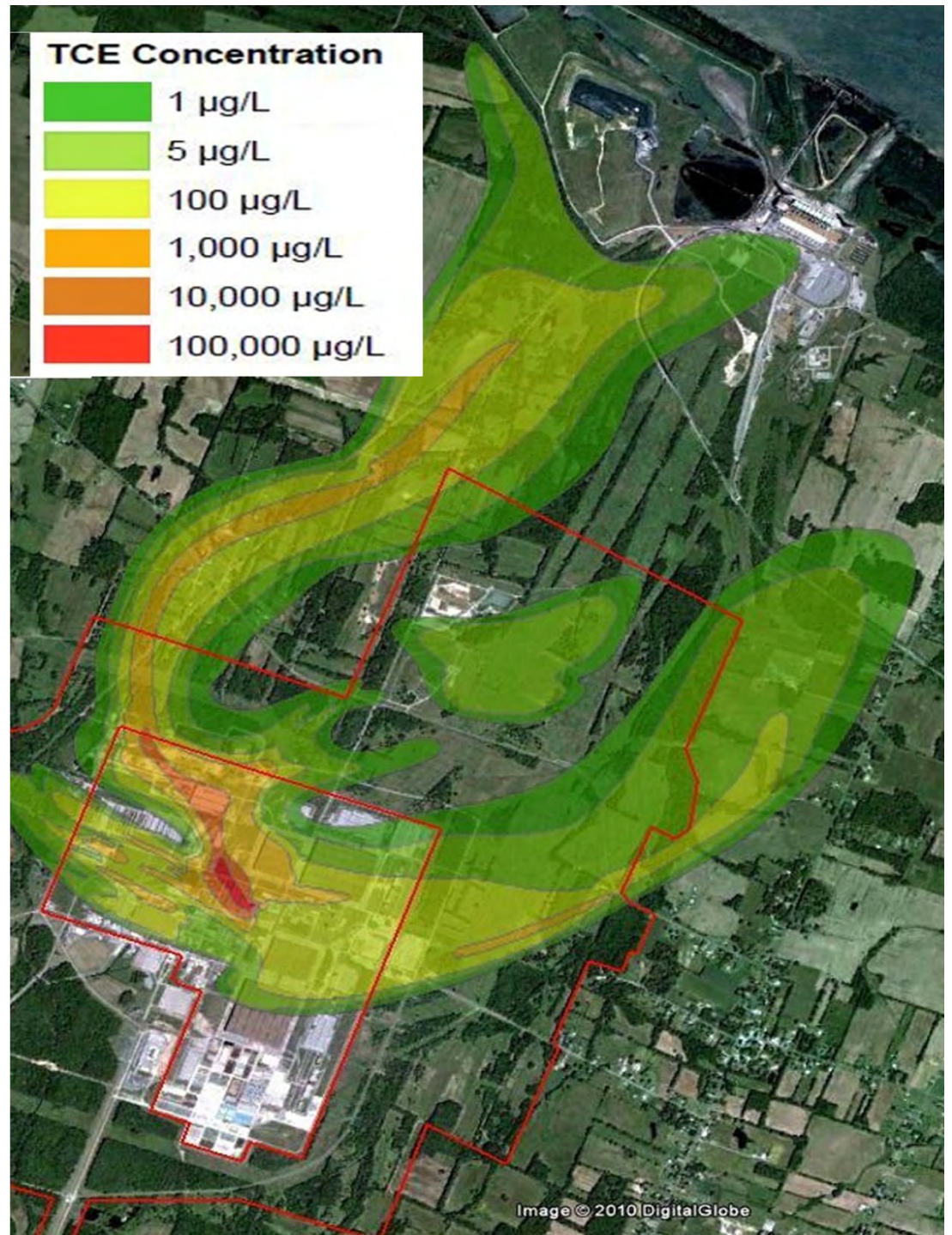


Environmental Impacts

- Groundwater Plumes
 - TCE
 - Tc99
- Burial Grounds
- Contaminated Soils and Sediments
 - Radioactive Metals
 - Heavy Metals
 - PCBs

Environmental Cleanup

- Controlled by federal laws (e.g. CERCLA, RCRA)
- Managed by DOE
- Oversight by USEPA, KYEEC and KYCFHS



Total DOE Property:
3,556 acres

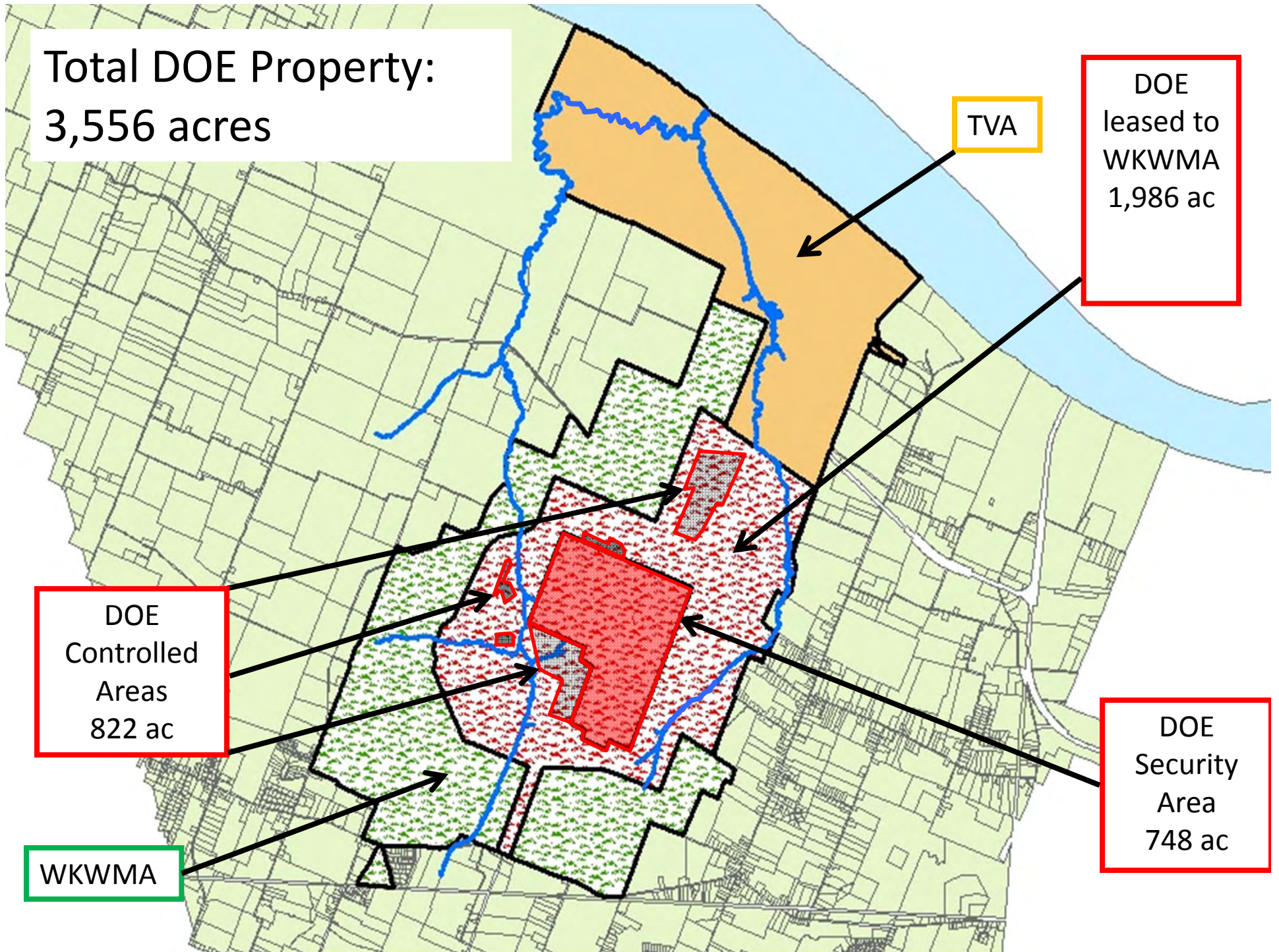
TVA

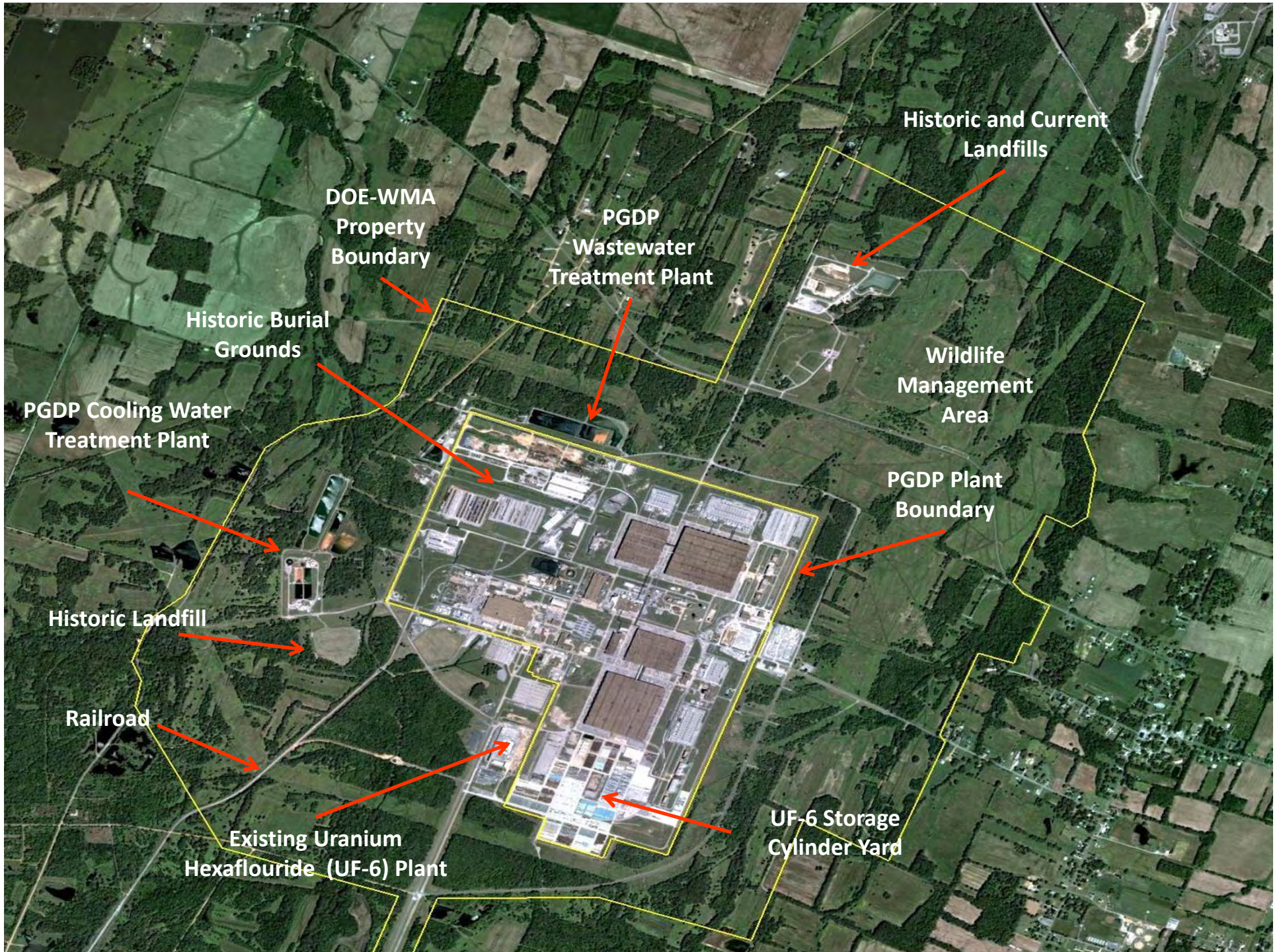
DOE
leased to
WKWMA
1,986 ac

DOE
Controlled
Areas
822 ac

DOE
Security
Area
748 ac

WKWMA





Breakdown of Scenarios Options

1. Land Uses for the Actual PGDP Plant Site:
 - 750 acres
2. Land Uses for the PGDP property currently part of the surrounding Wildlife Management Area
 - 2,000 acres
3. Disposal Options for the “Burial Grounds”
4. Disposal Options for the Plant Decommissioning Wastes
5. Disposal Options utilizing existing landfills



PGDP Plant Site Land Use Options

- 1. Nuclear Industry (eg. Power, Recycling)**
- 2. Heavy Industry (eg. Steel, Auto, Coal Gas/Liquid Plant)**
- 3. Light Industry (eg. Distribution Center, Data Server Farm)**
- 4. Passive Recreation (State Park)**
- 5. Expanded Wildlife Management Area**
- 6. Permanent Site Closure**



PGDP Wildlife Management Area Land Use Options

1. Structured Recreation (Fairgrounds, Soccer Fields)
2. Expanded Wildlife Management Area

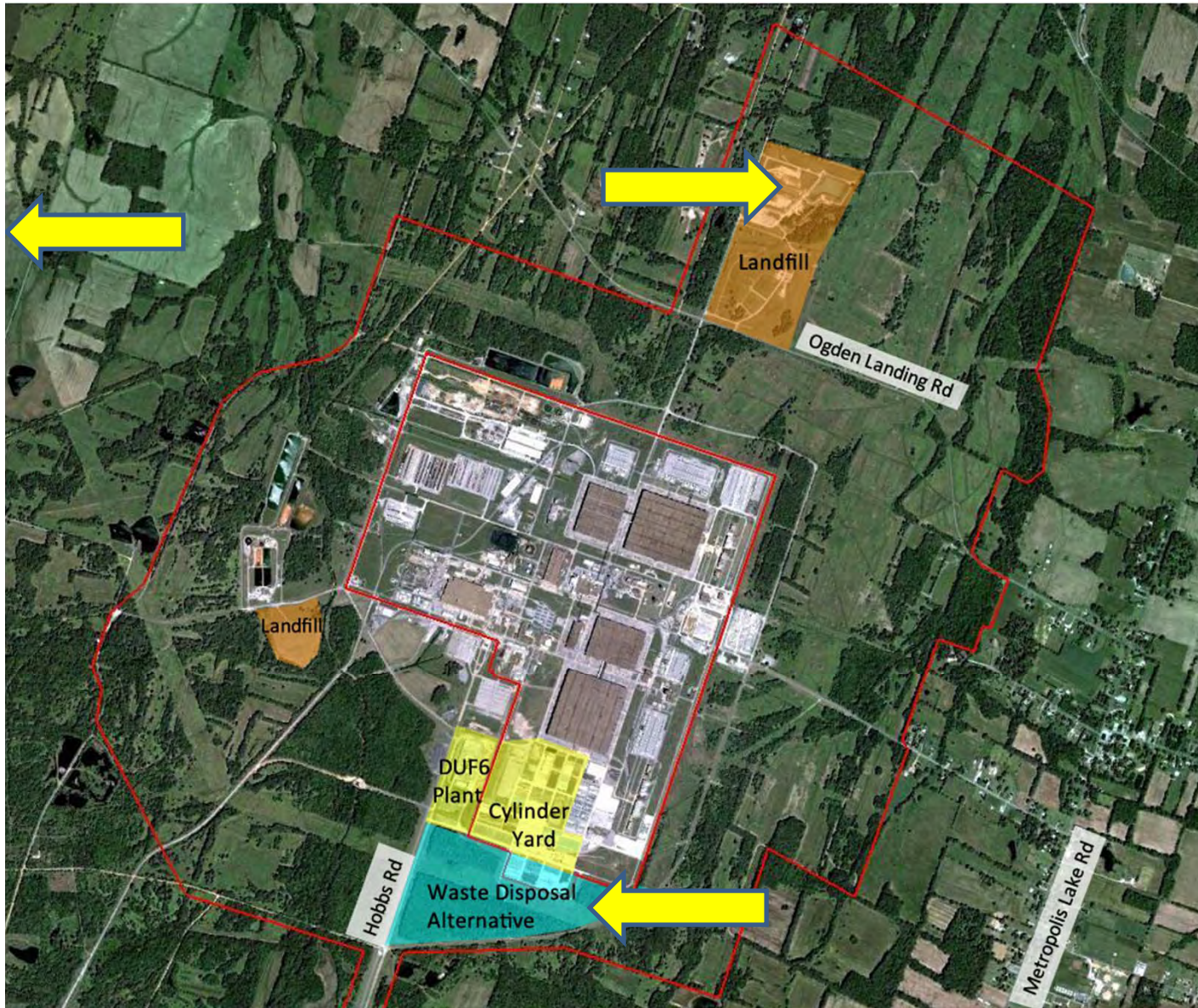


Burial Grounds Options

1. Excavate Part
2. Excavate All

Burial Ground Contents

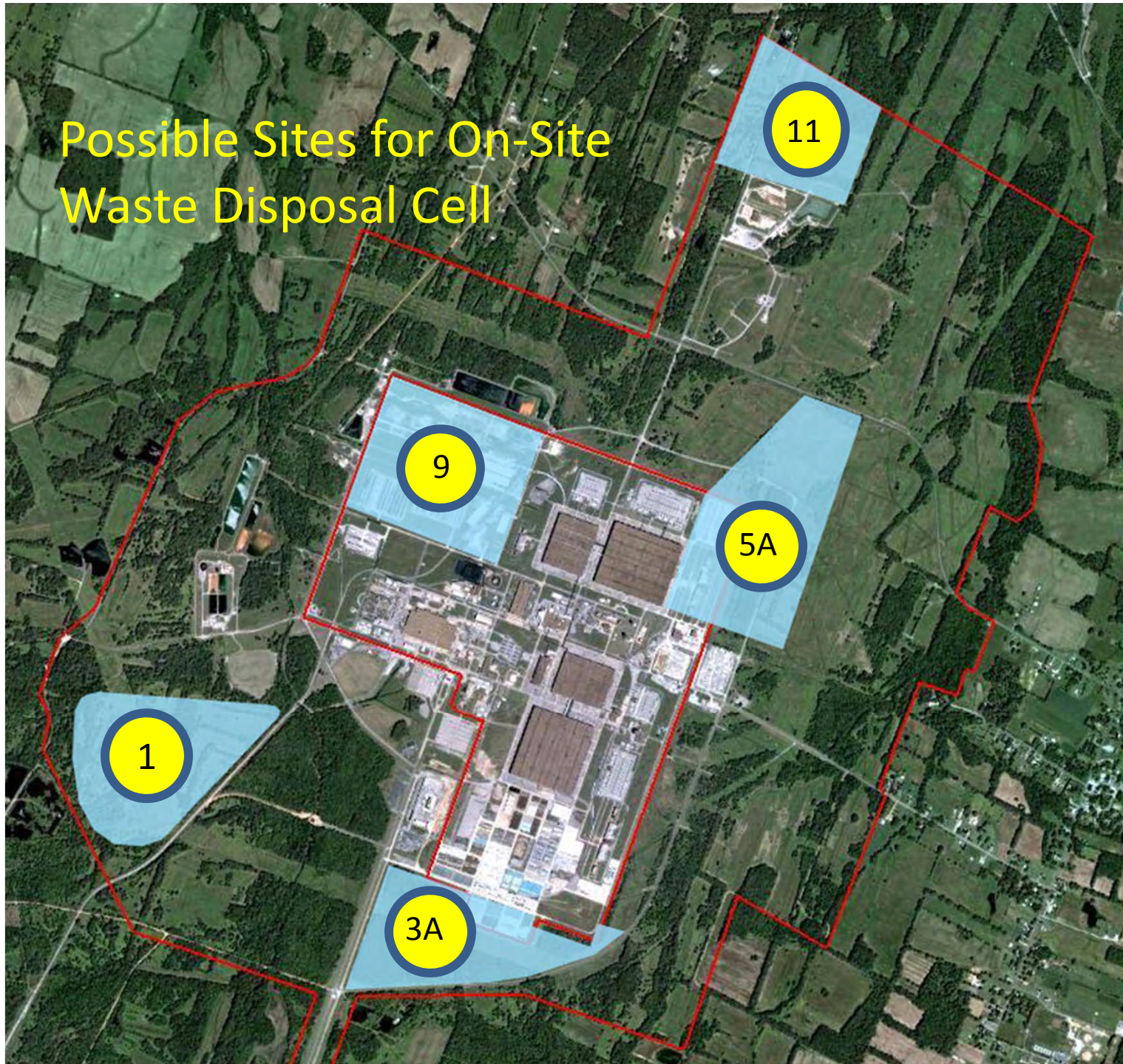
1. Uranium
2. TCE
3. Tc-99
4. Contaminated metals
5. Demolition debris
6. Heavy metals
7. Asbestos
8. Arsenic
9. Trash
10. Oils
11. etc.



Plant Decommissioning Waste Disposal Options

1. All Plant Decommissioning Waste Removed from Site
2. Part of Plant Decommissioning Waste kept onsite in WDA and part placed in DOE managed Landfill
3. All Plant Decommissioning Waste kept onsite in WDA

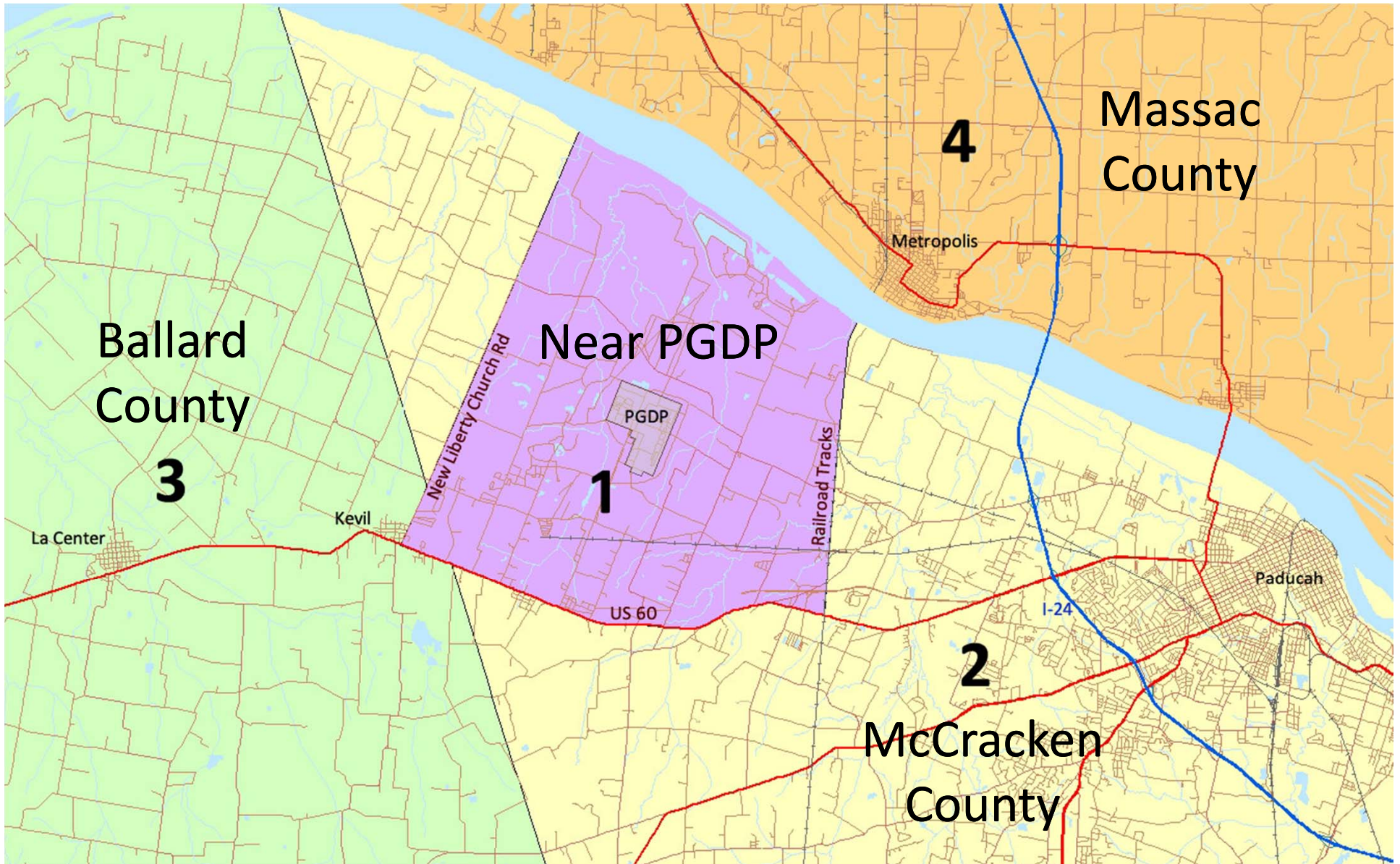
Possible Sites for On-Site Waste Disposal Cell



RF Keypad System

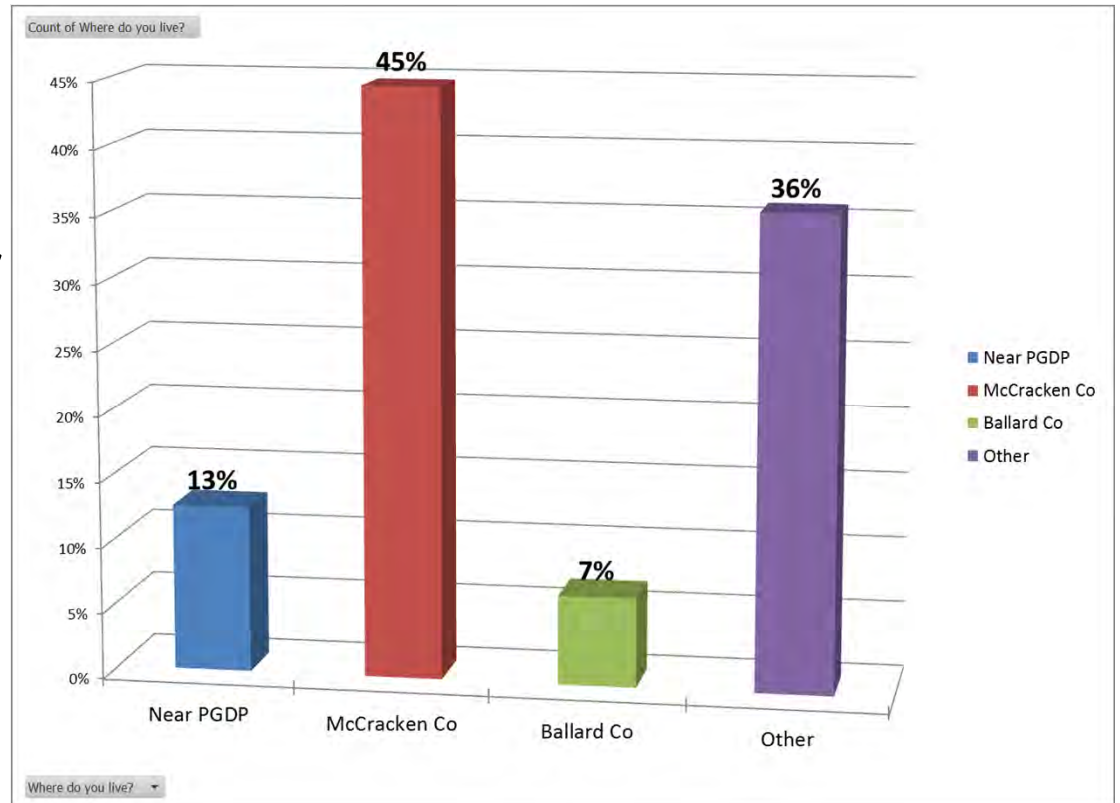


Where do you live?



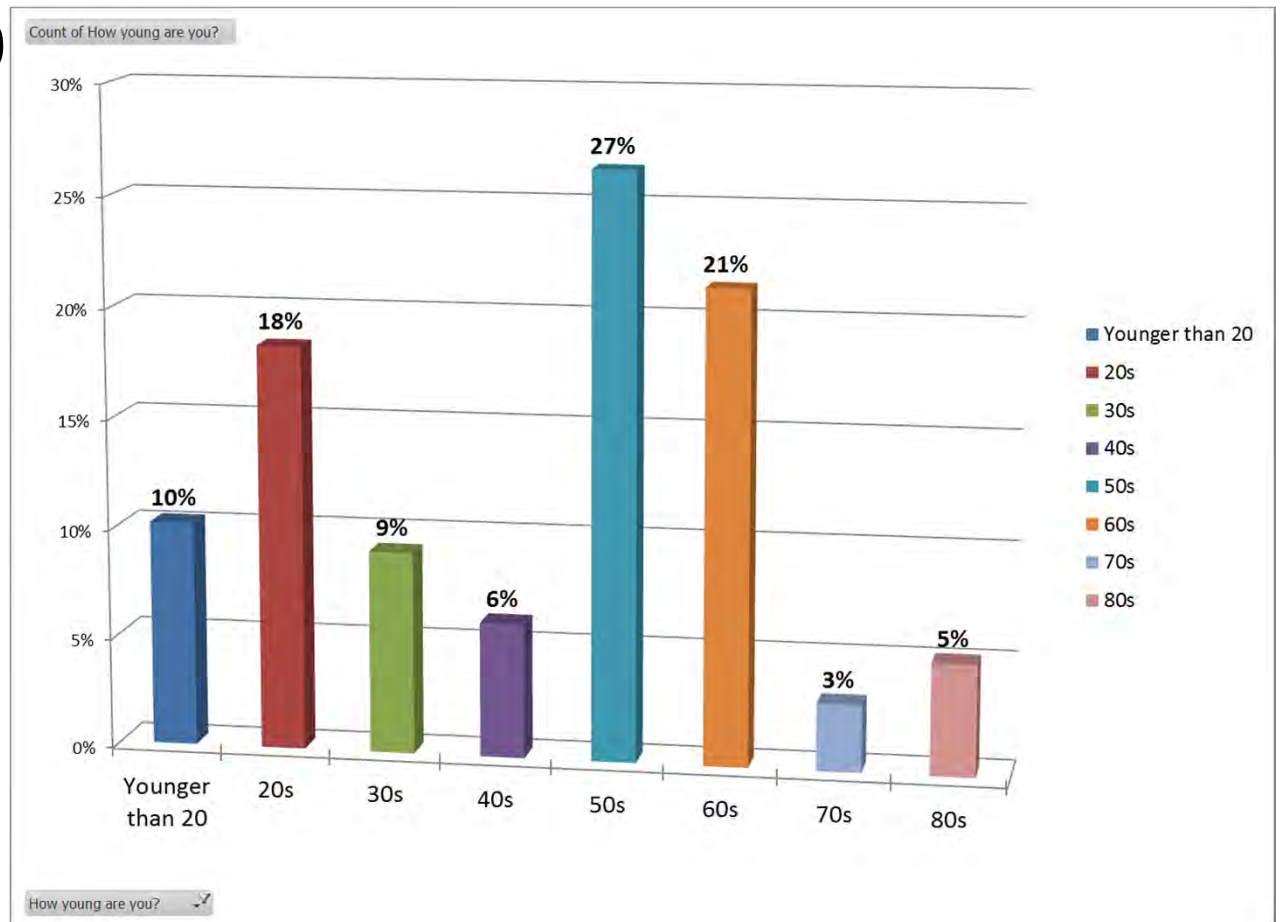
Where do you live?

1. Near PGDP
2. McCracken County
3. Ballard County
4. Massac County
5. Other



How young are you?

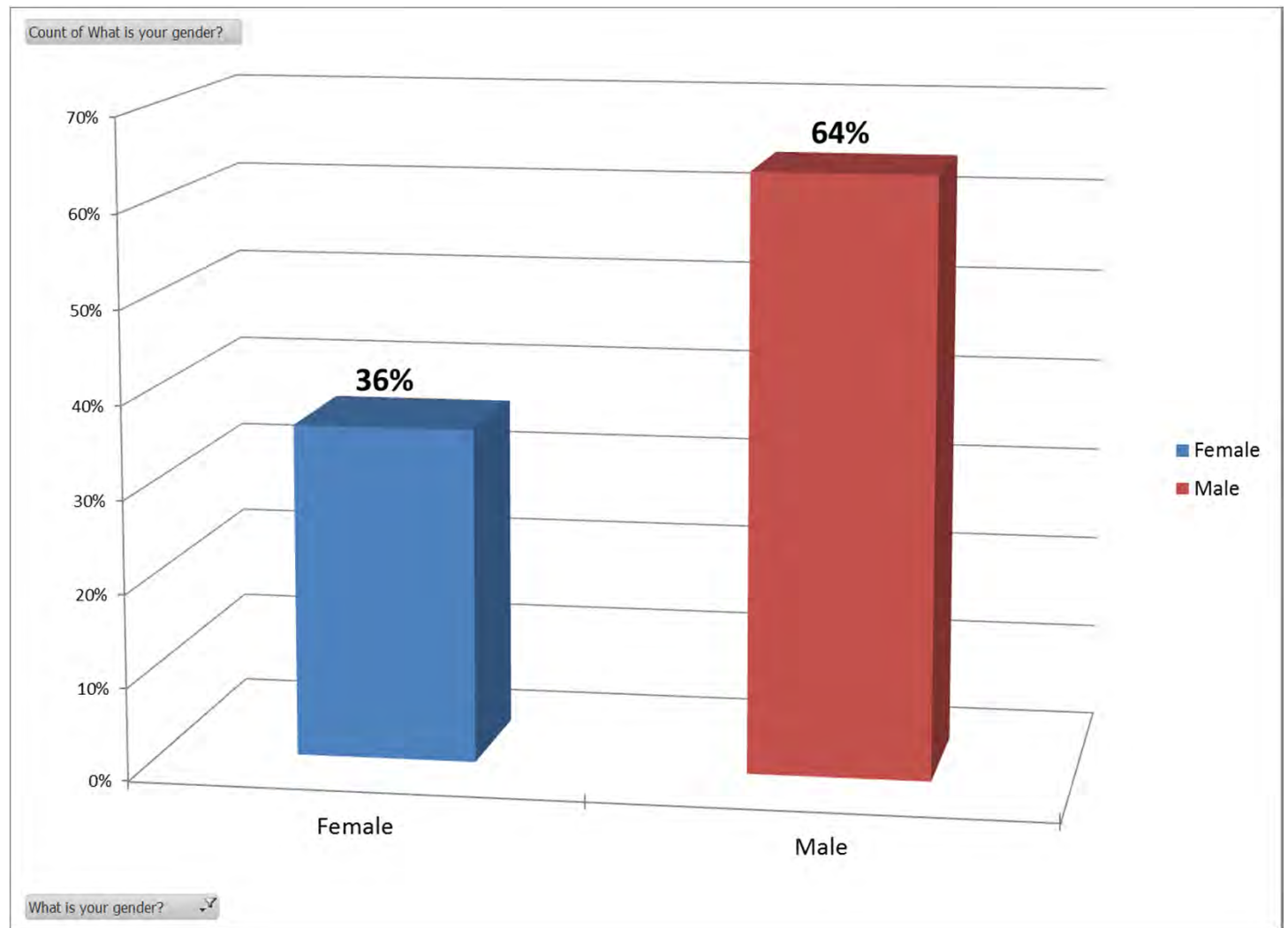
1. Younger than 20
2. 20 - 29
3. 30 - 39
4. 40 - 49
5. 50 - 59
6. 60 - 69
7. 70 - 79
8. 80 - 89
9. 90 or older



Mean = 43

What is your gender?

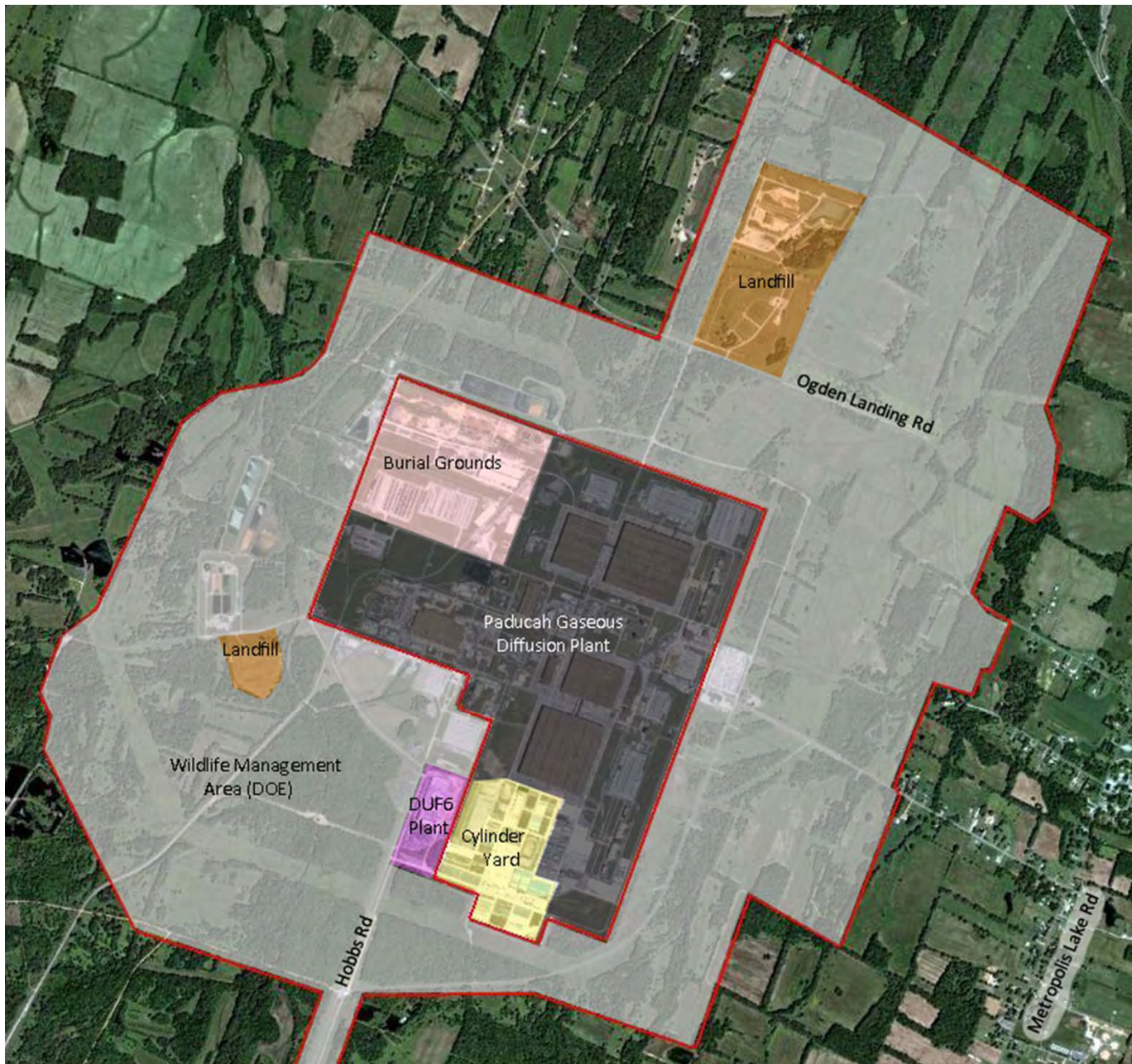
1. Female
2. Male





PGDP Views

1. Panorama from Metropolis Lake Road
2. Plant site from southern boundary
3. Over Hobbs Road from south
4. From northwest overlooking burial grounds



Current:

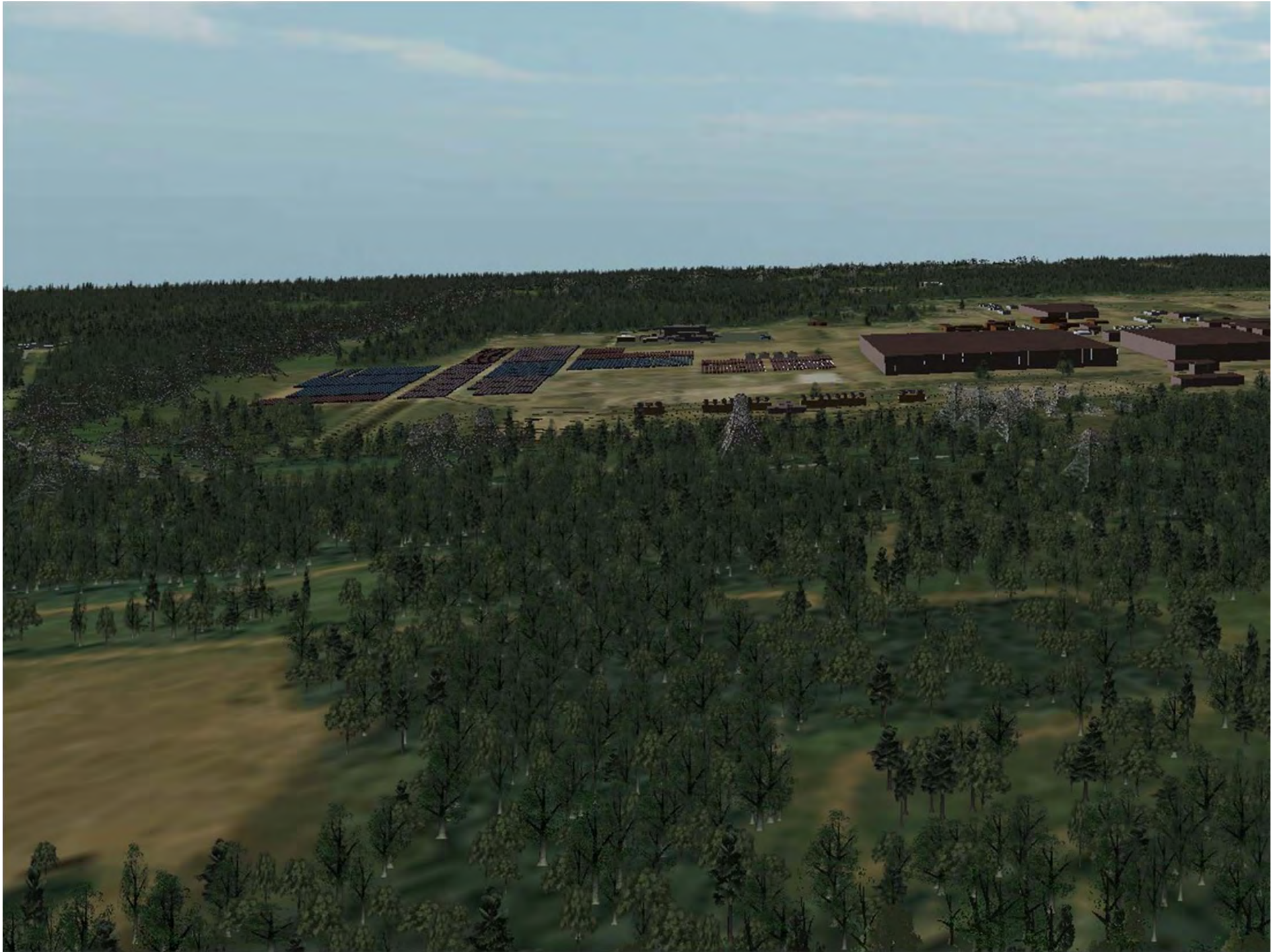
*DUF6 Flouride
Extraction Plant

*Cylinder Yard

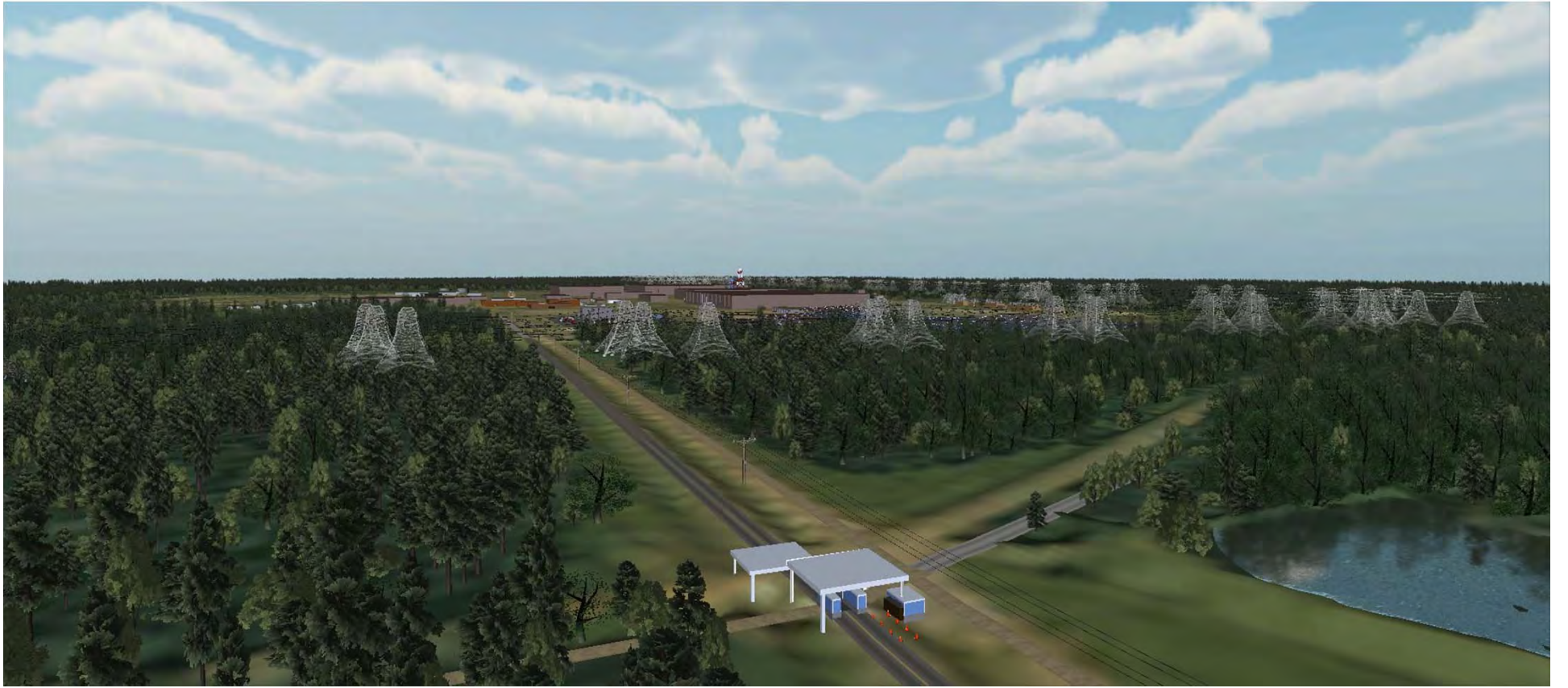
*Plant Site
surrounded by WMA

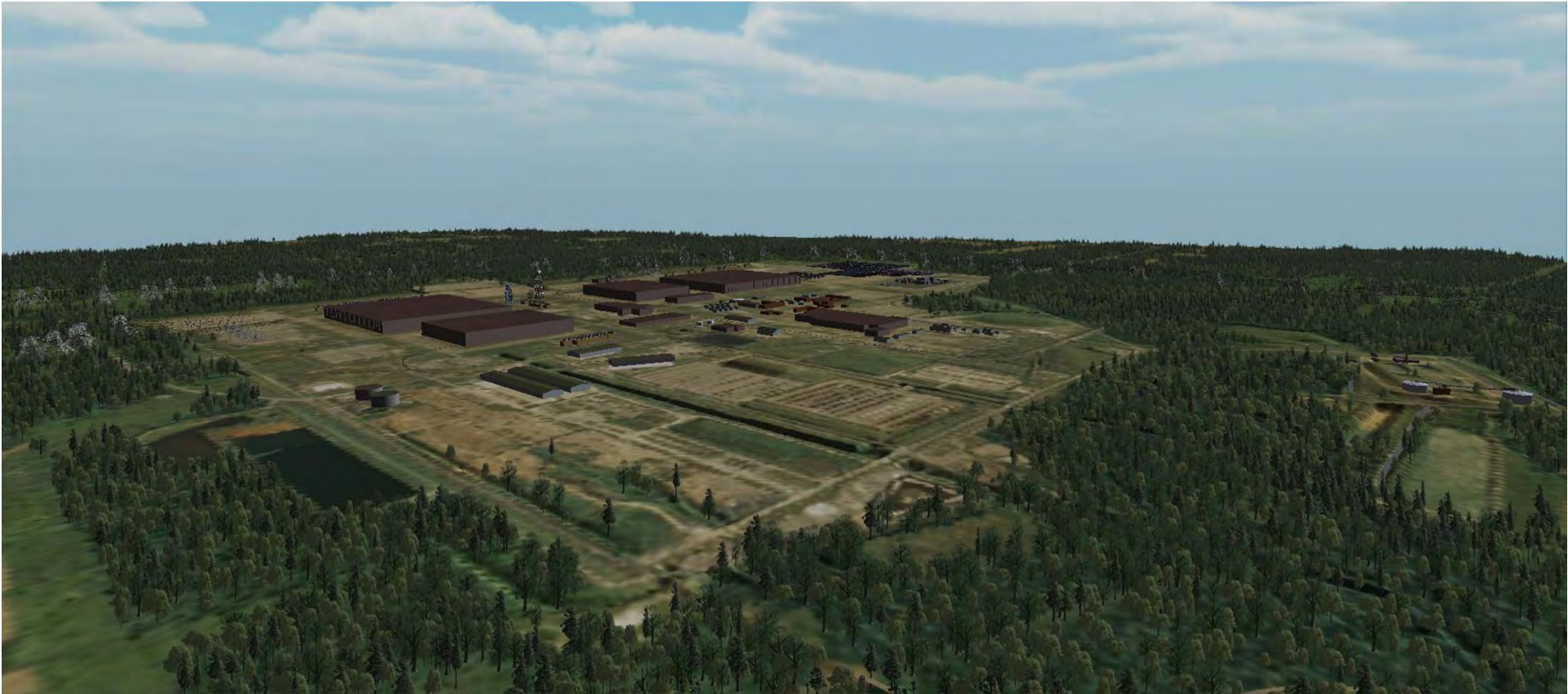
*Burial Ground Area -
site of older buried
waste of many kinds

*Designed Landfills –
site of newer buried
wastes











Scenario 12

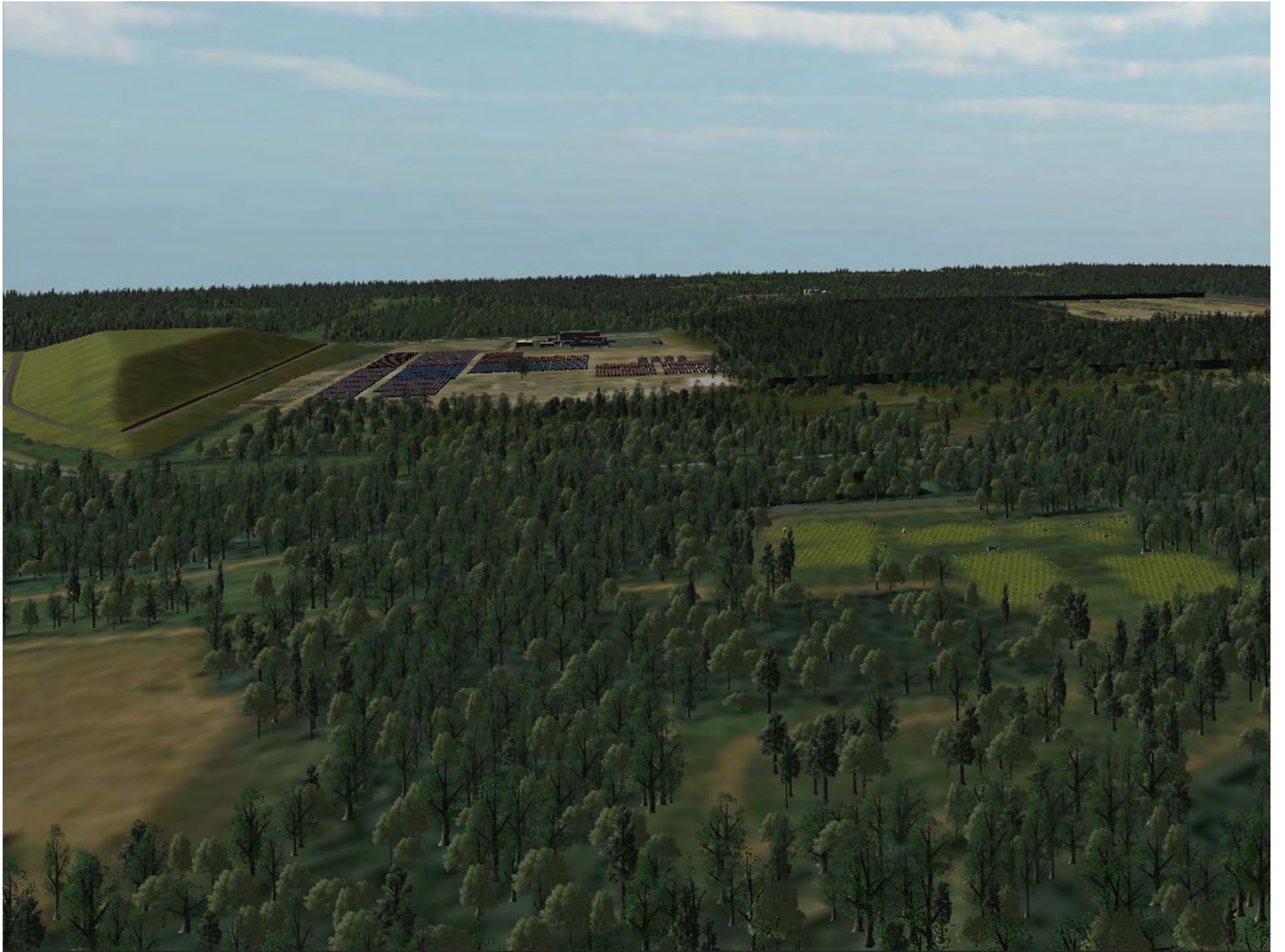
* Plant Site sealed, fenced, access restricted

* Active Recreational Facilities added to PGDP WMA

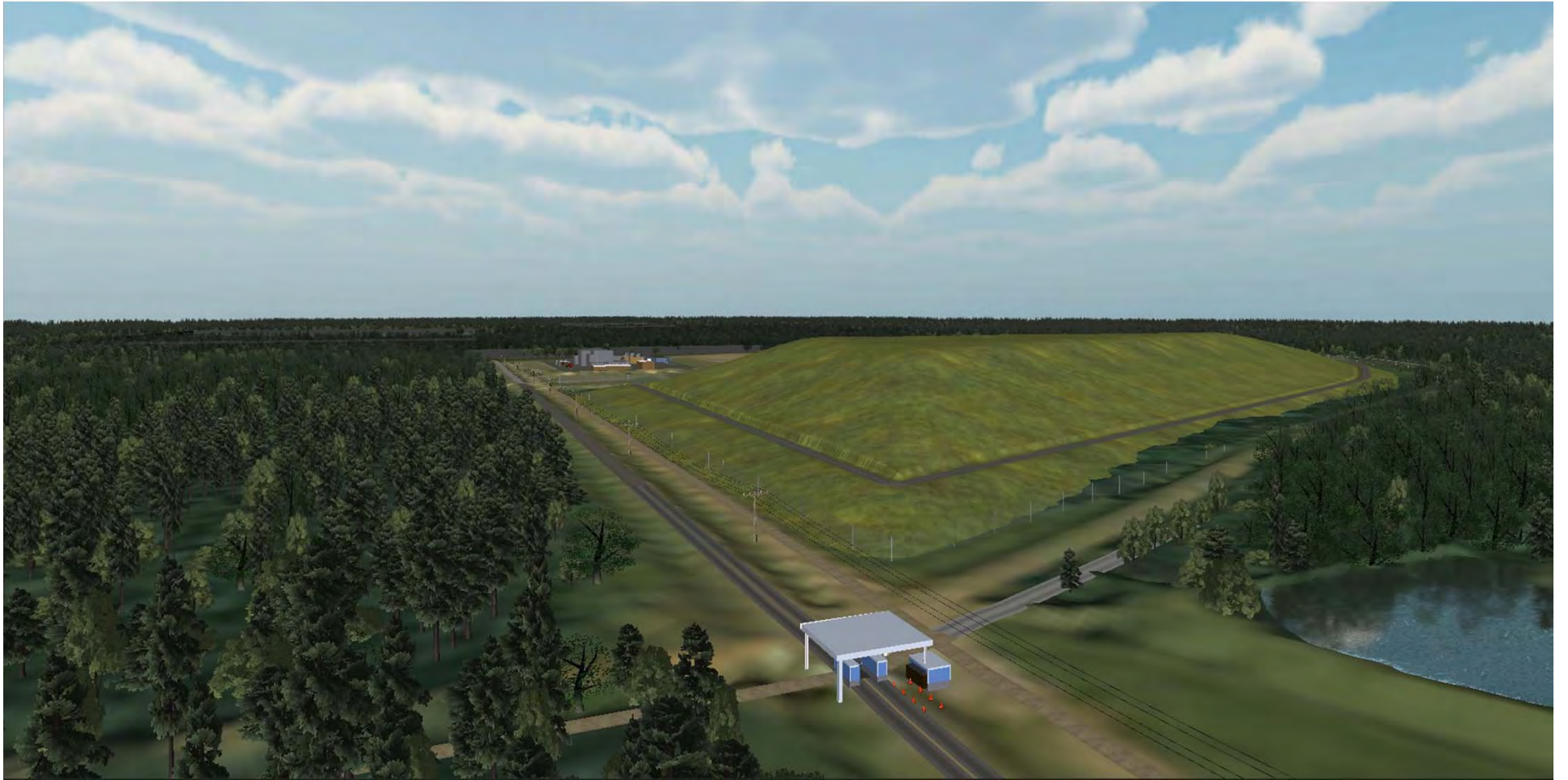
NOTE: Rec facilities shown in the same location for consistency. Actual location can vary!

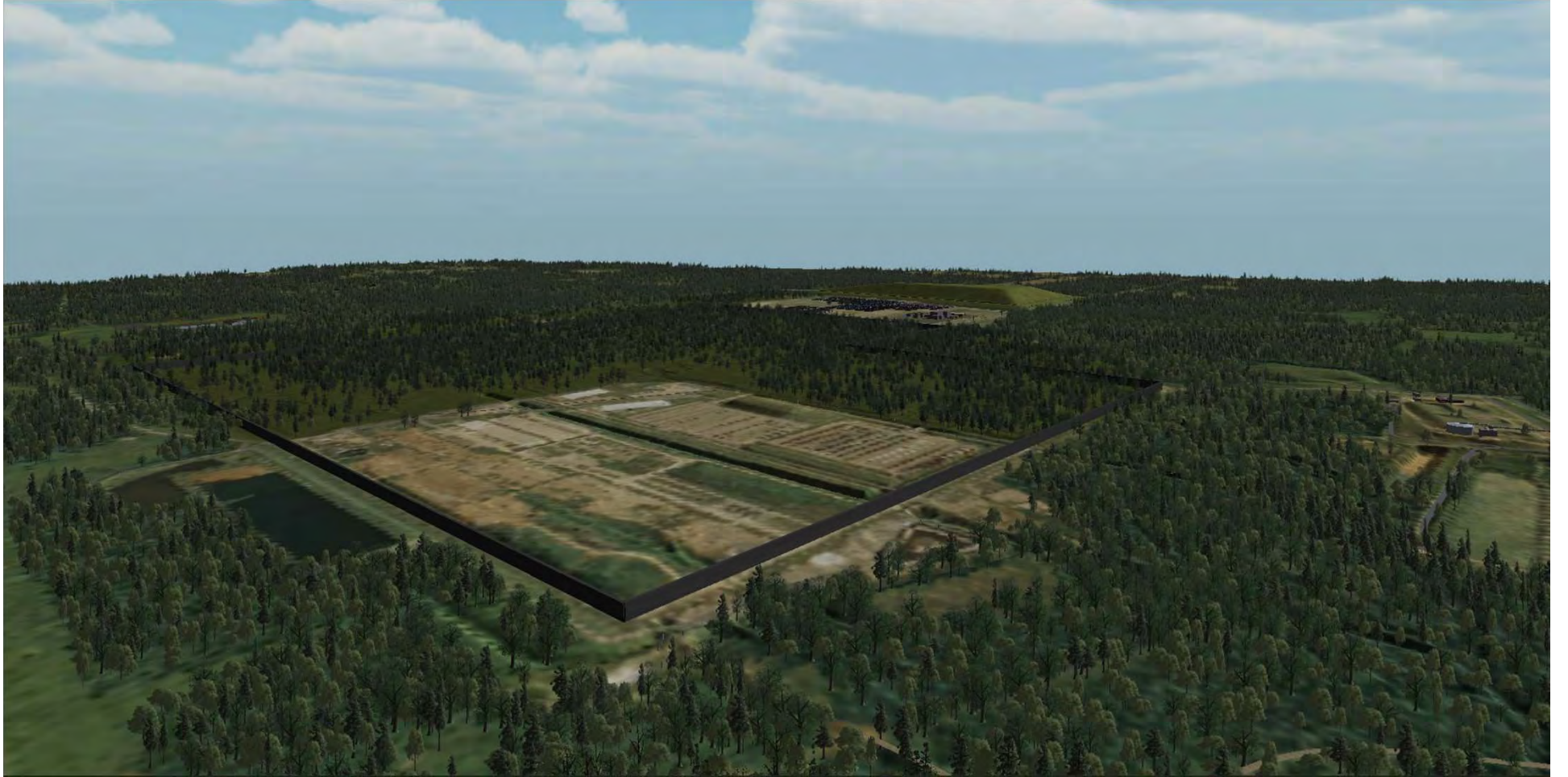
* All Plant Decommissioning Waste kept onsite in WDA

* Some existing Burial Grounds sealed and left in place, the rest put in WDA.











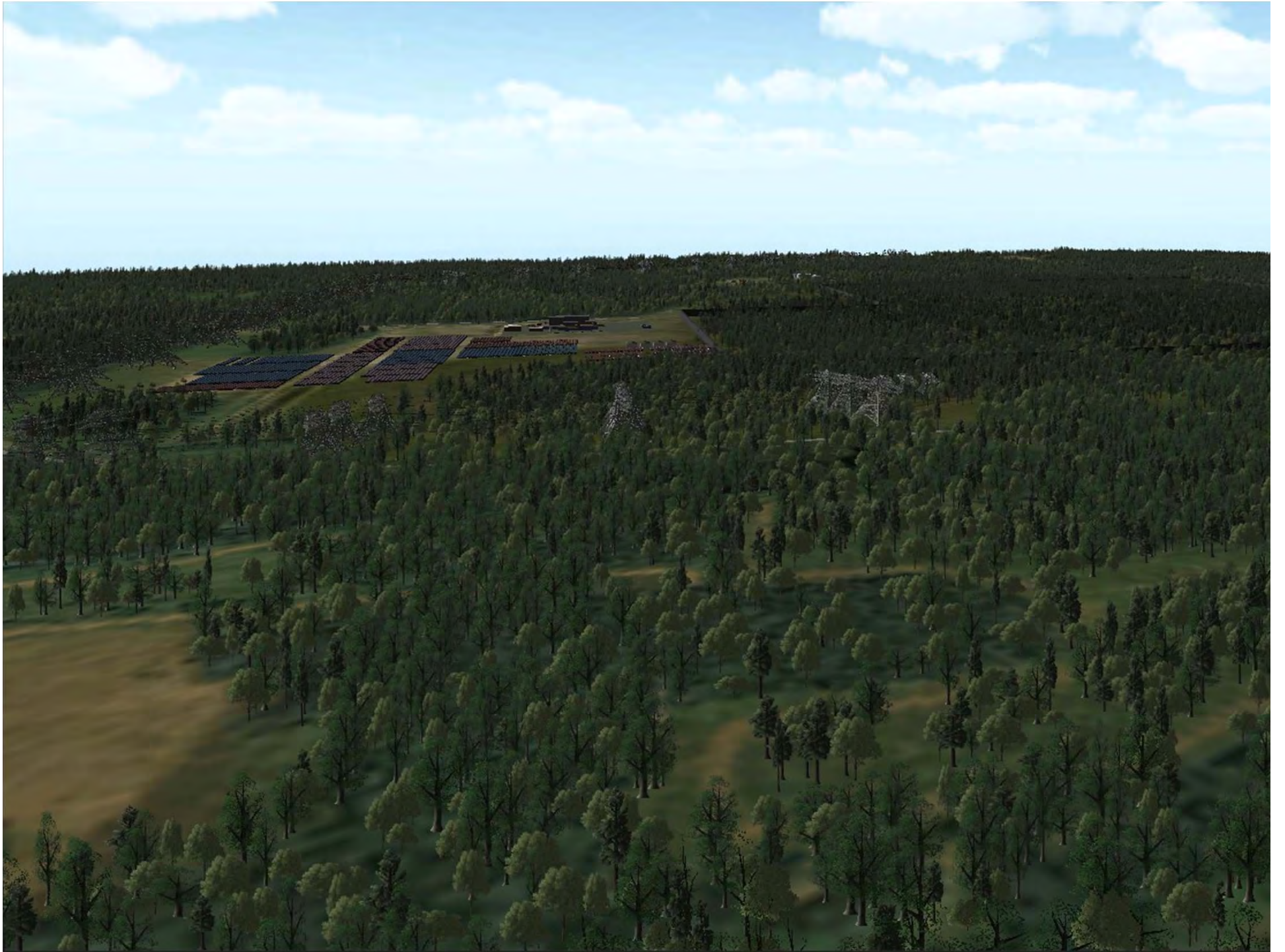
Scenario 11

* Plant Site sealed,
fenced, access
restricted

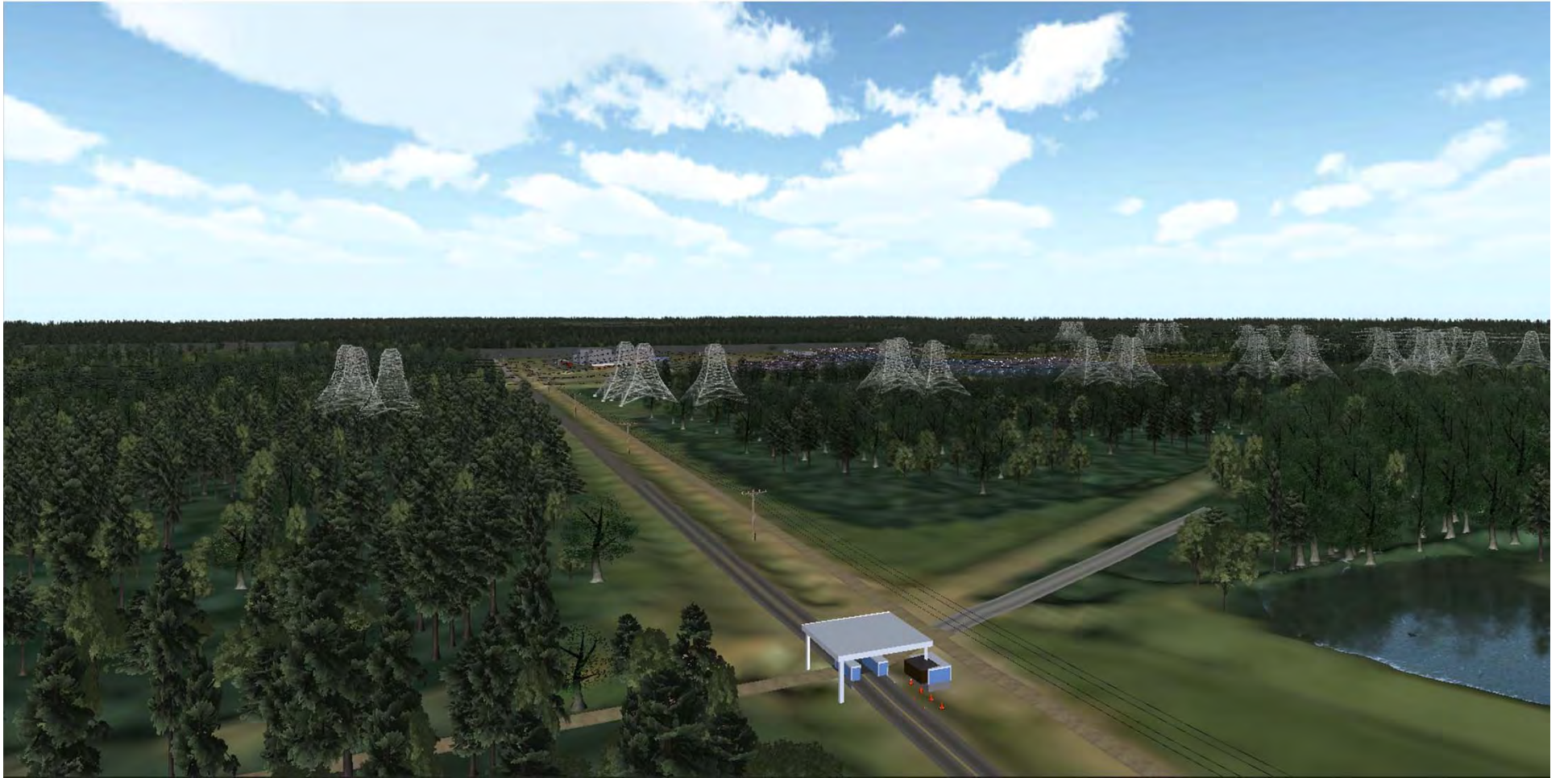
* PGDP WMA
Remains

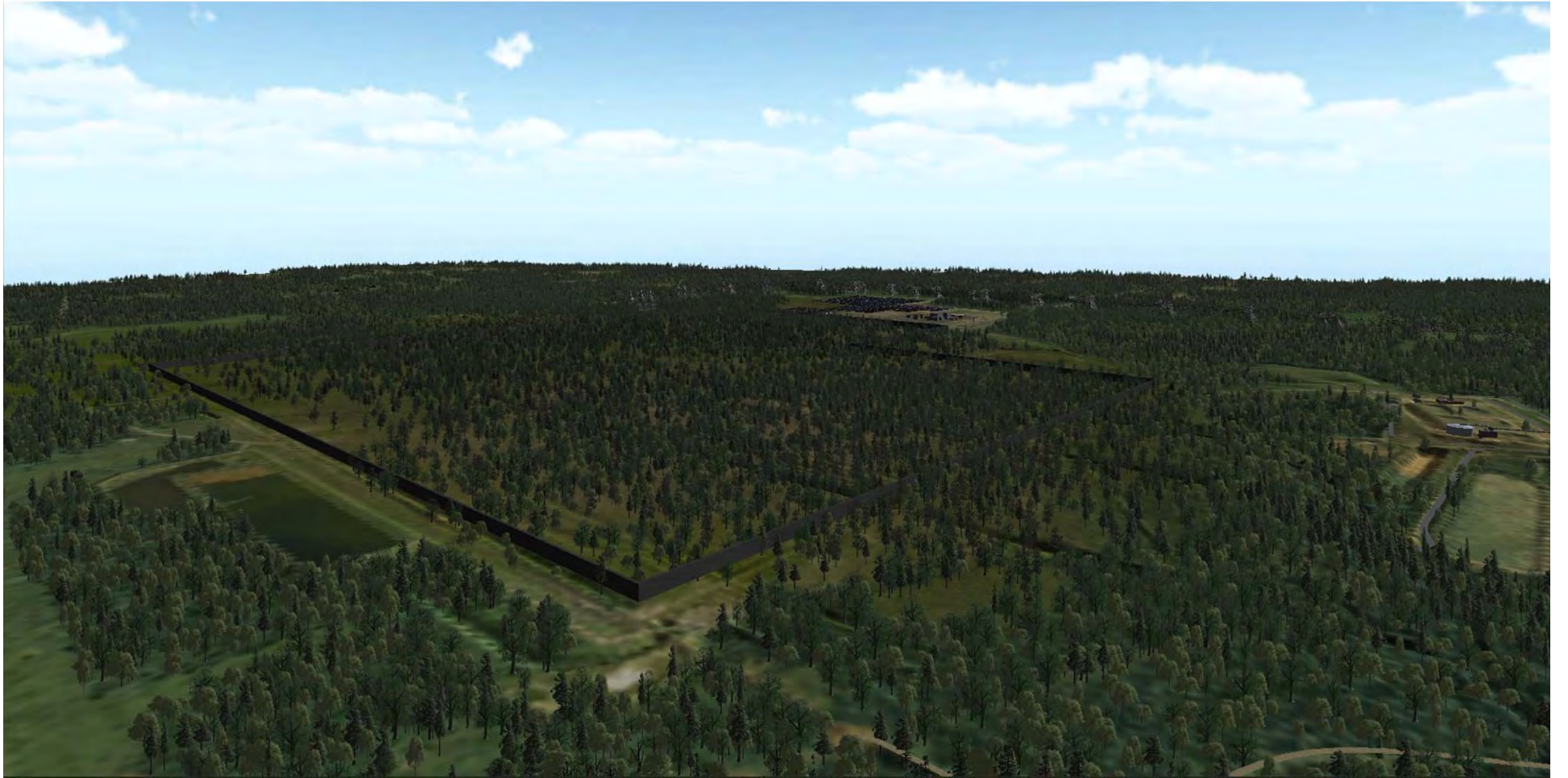
* All Plant
Decommissioning
Waste Removed
from Site.

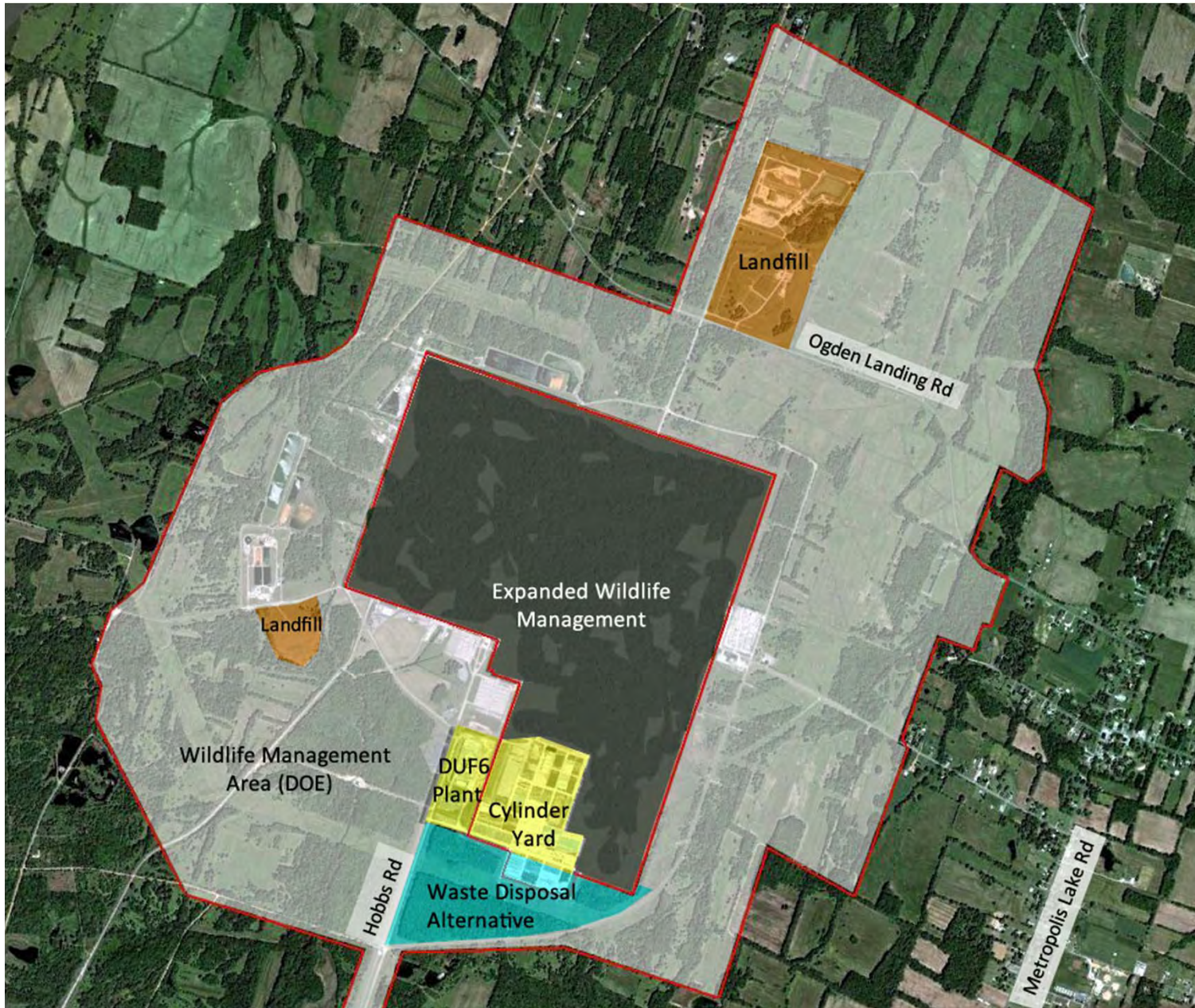
* All existing
Burial Grounds
excavated and
shipped off-site.





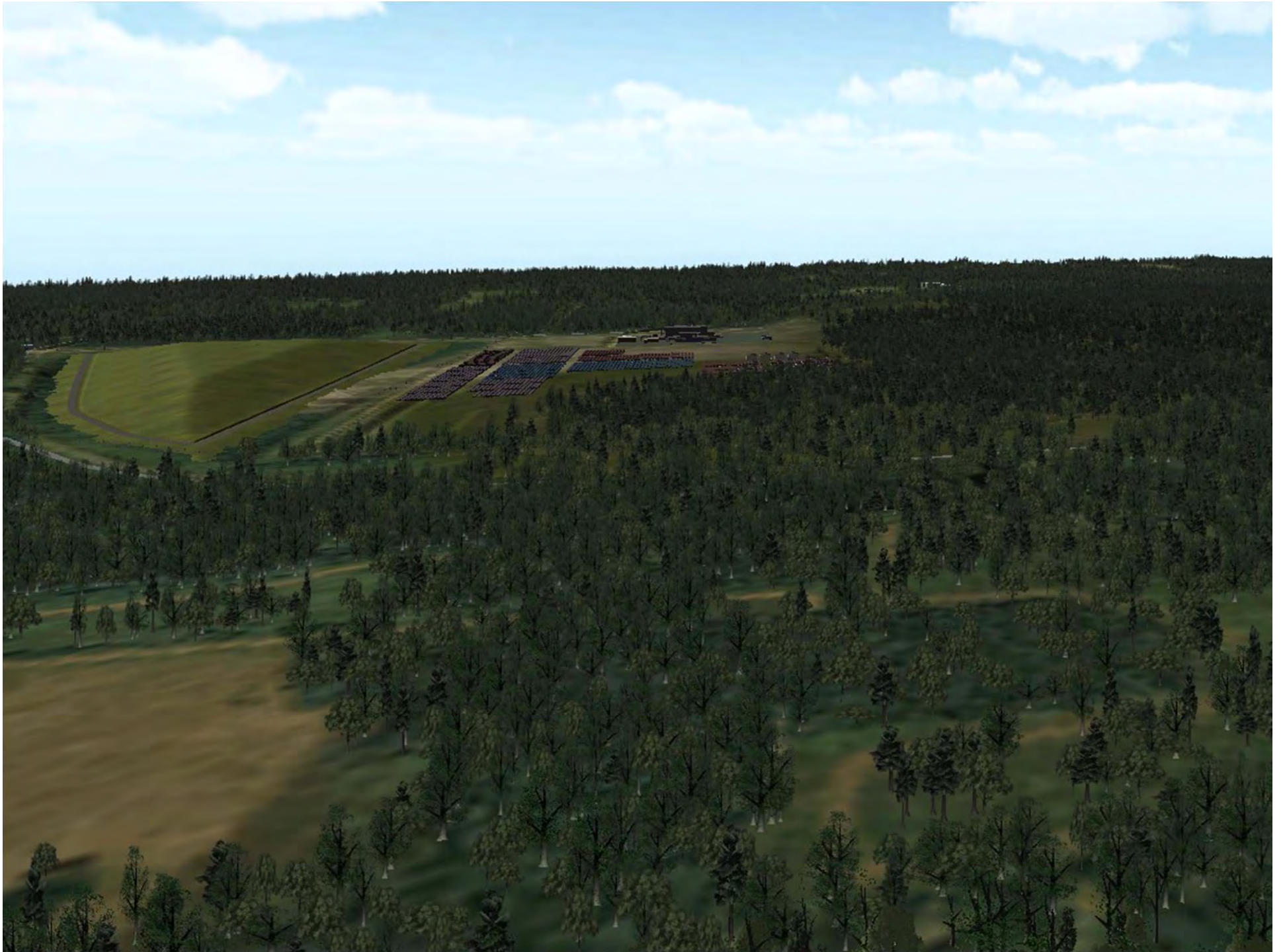




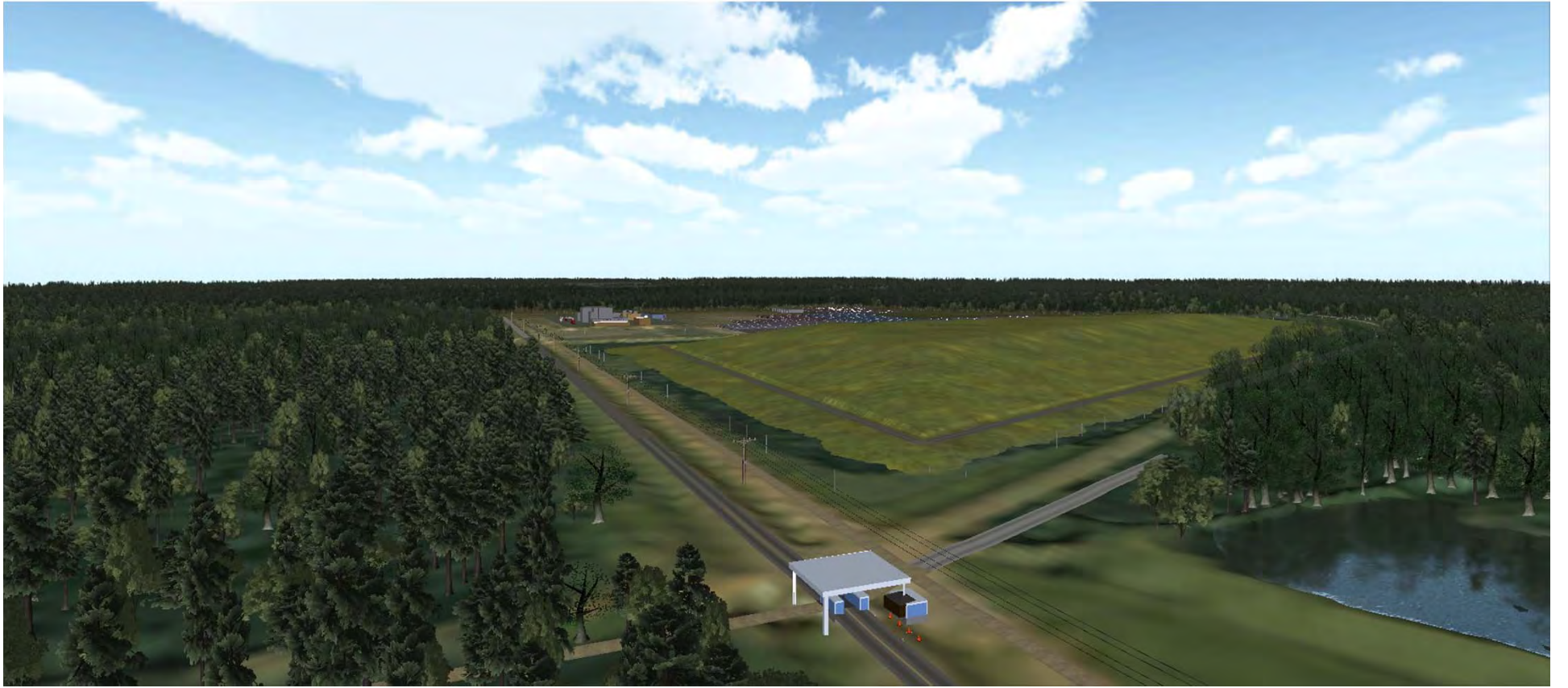


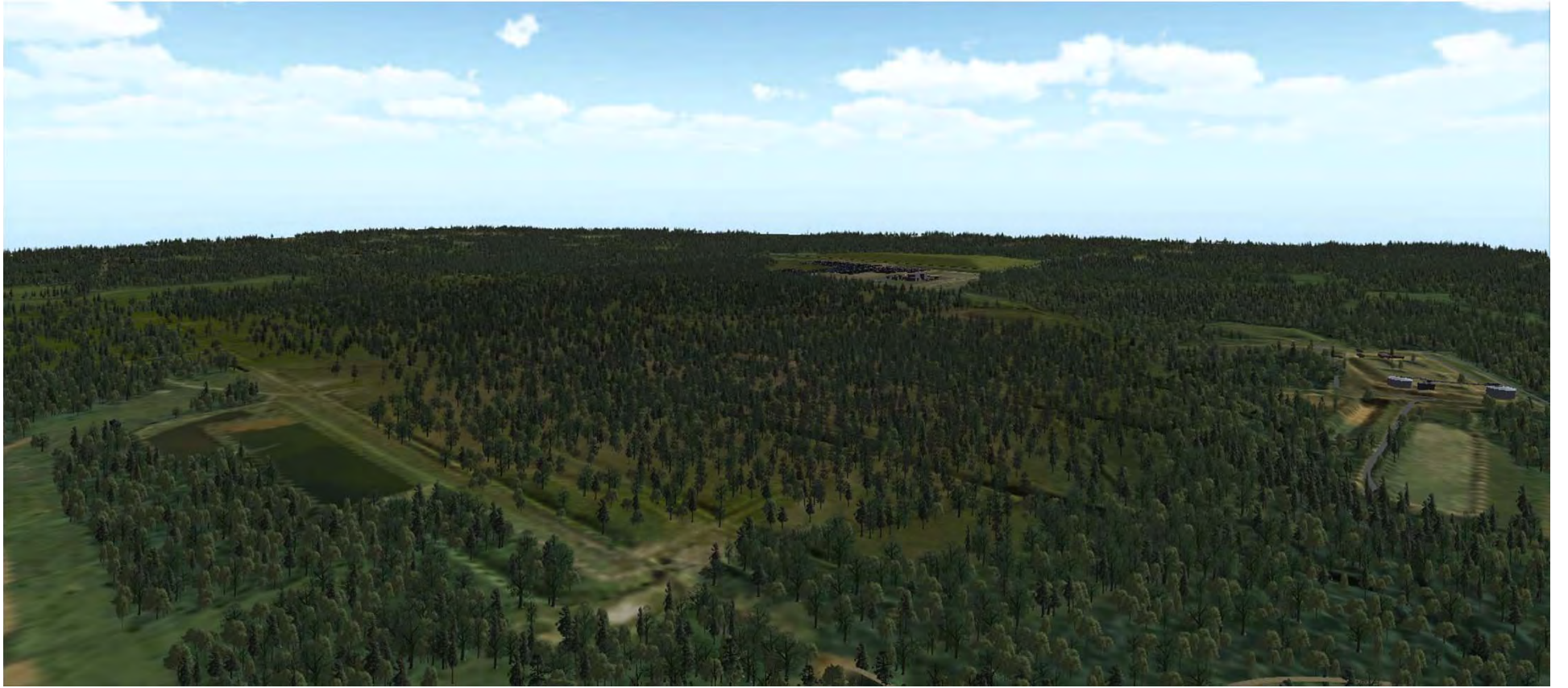
Scenario 10

- * Expanded Wildlife Management on Plant Site
- * PGDP WMA Remains
- * Part of Plant Decommissioning Waste kept onsite in WDA and part placed in DOE managed landfill
- * All existing Burial Grounds excavated - some placed in WDA and the rest shipped off-site.





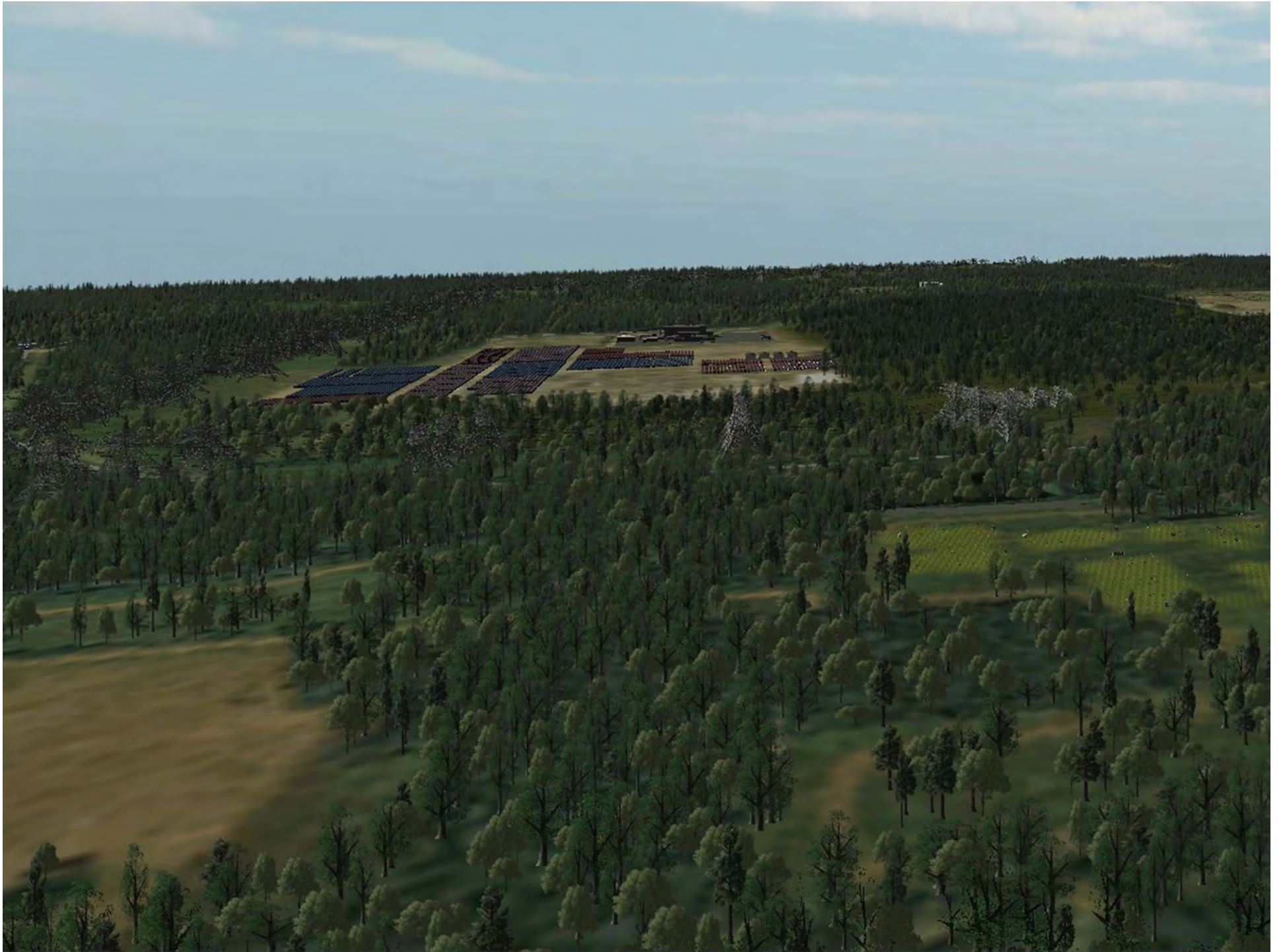




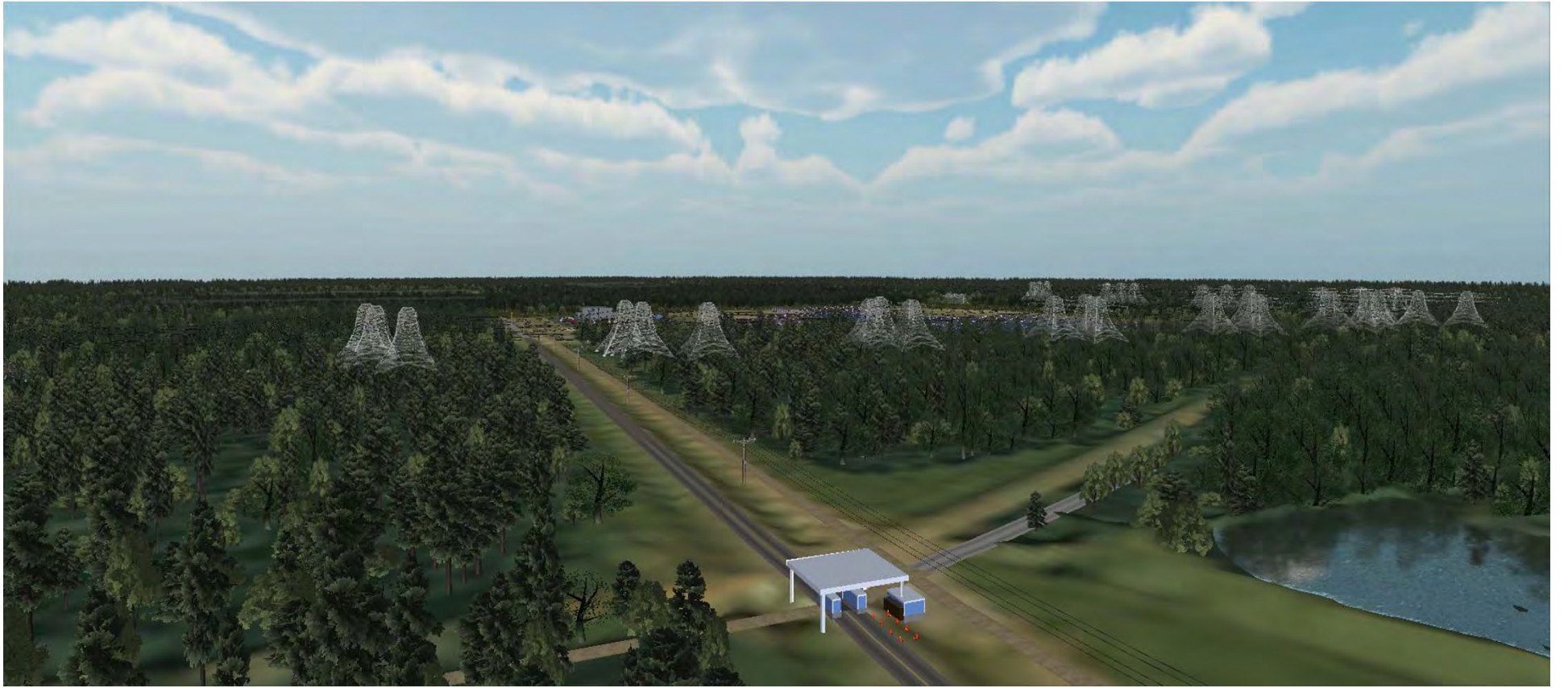


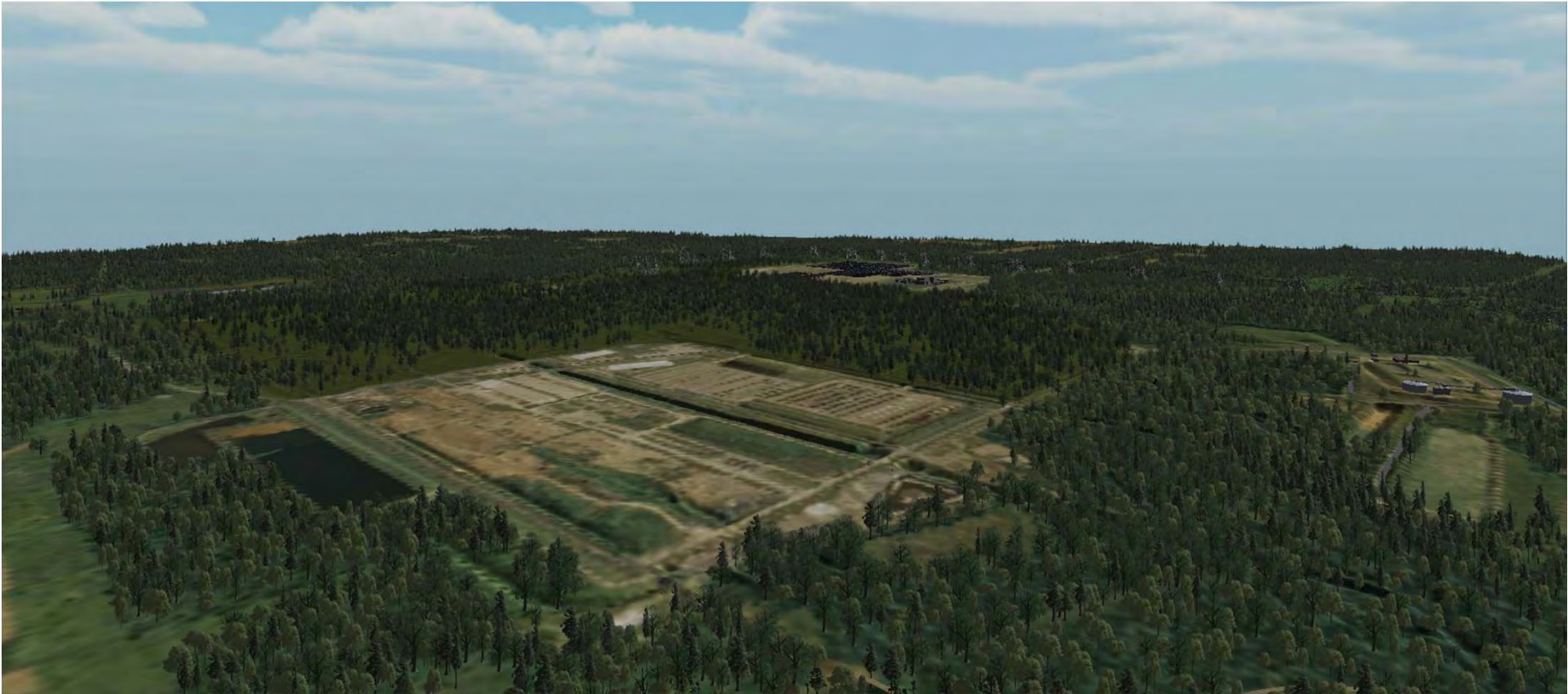
Scenario 9

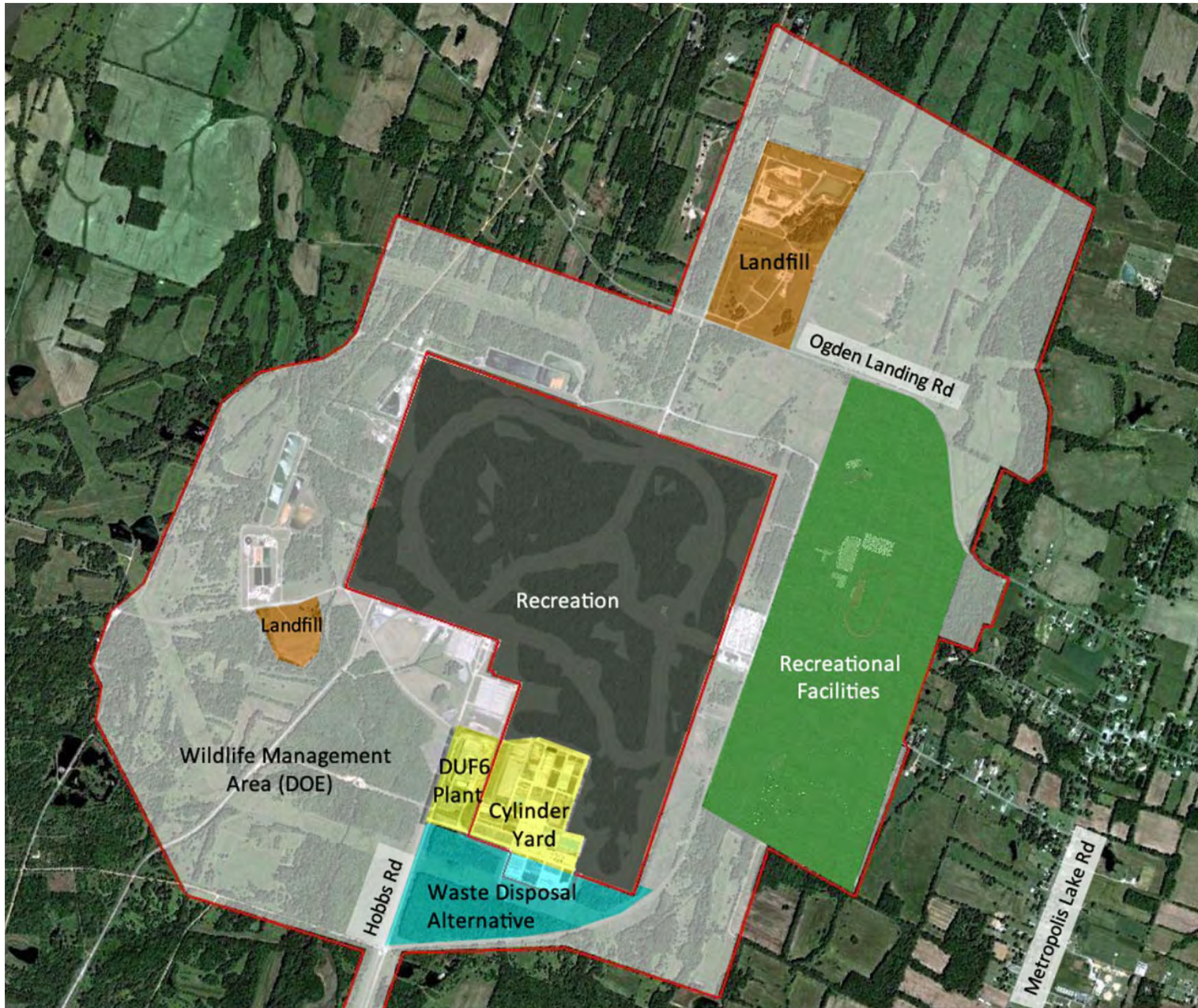
- *Expanded Wildlife Management on Plant Site
- * Recreational Facilities added to PGDP WMA
- * All Plant Decommissioning Waste Removed from Site.
- * Some existing Burial Grounds sealed and left in place, the rest excavated and shipped off-site.





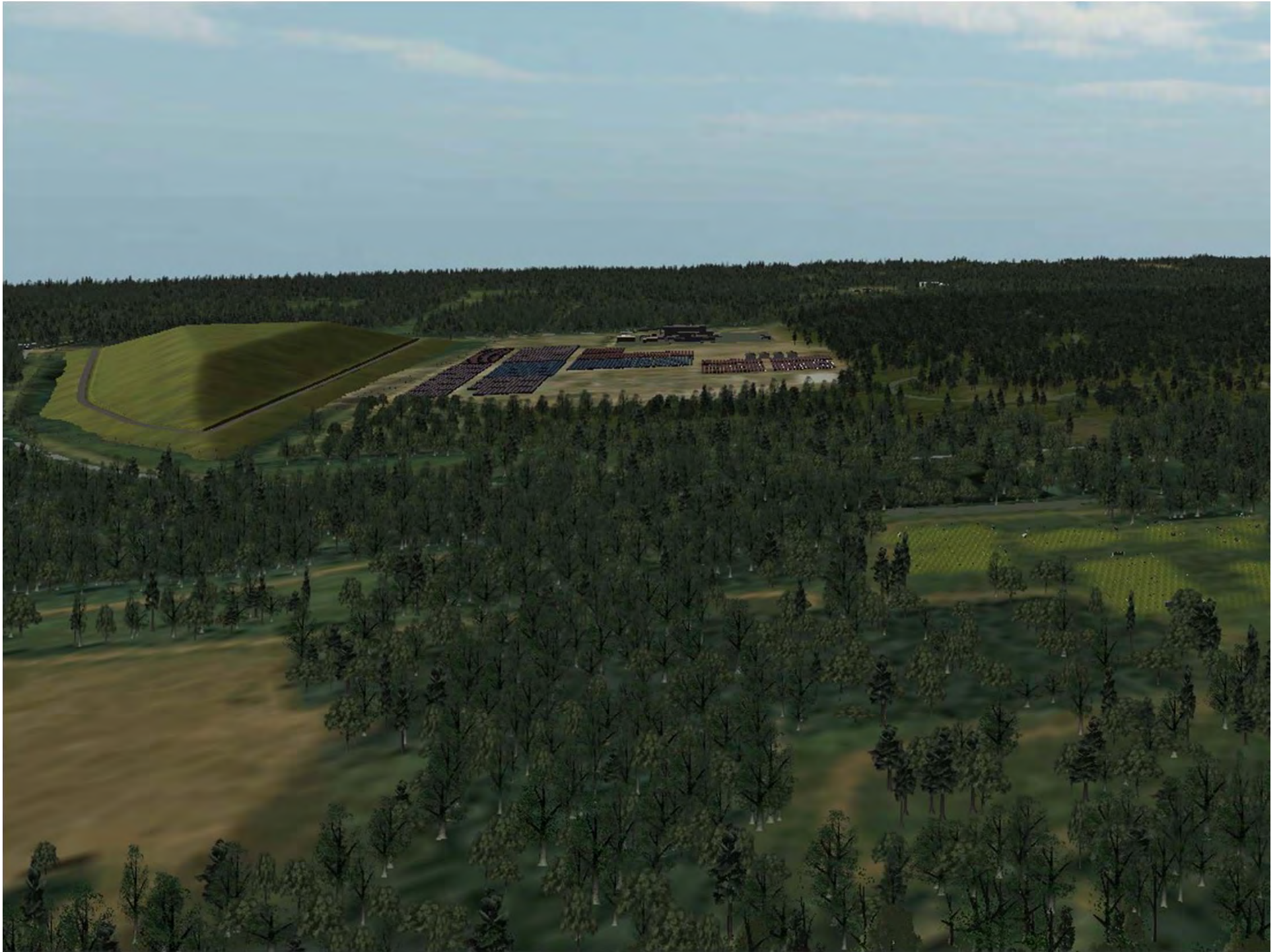


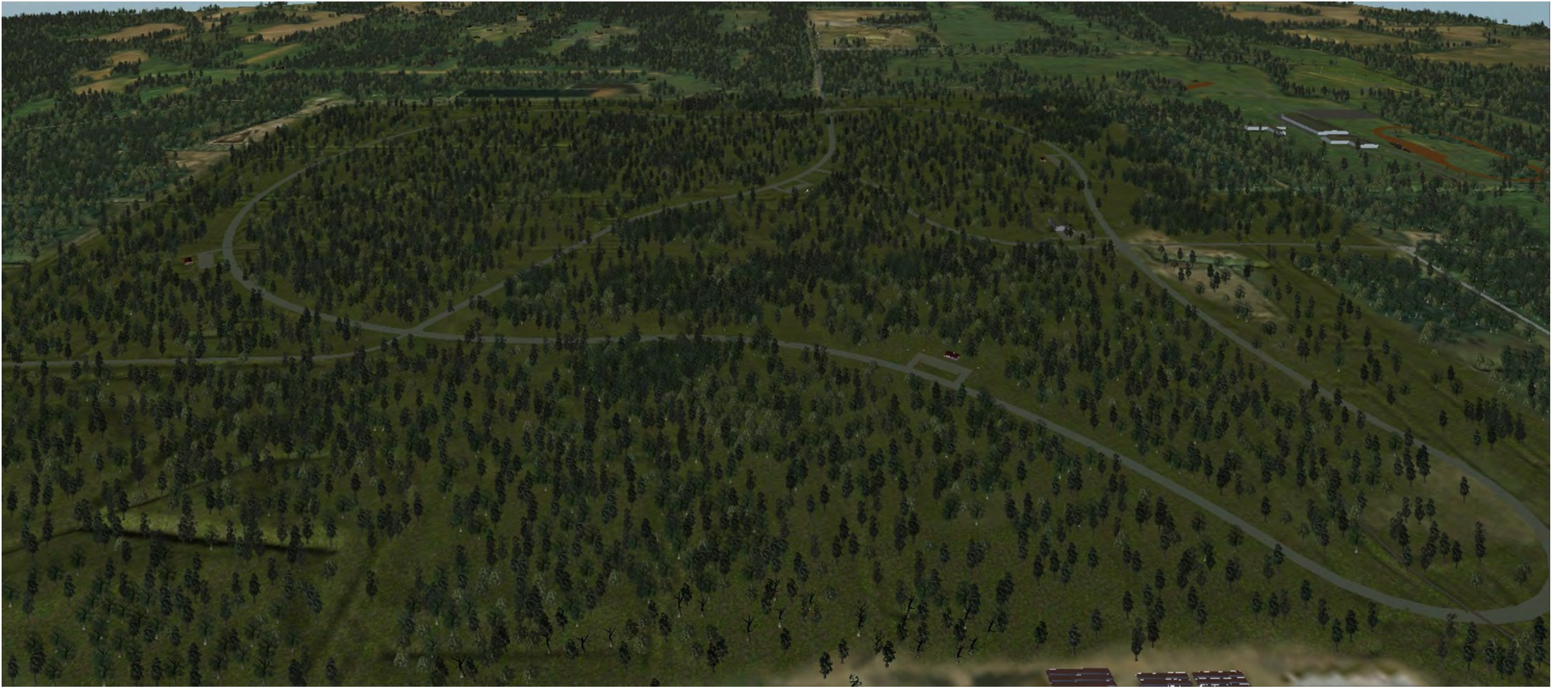


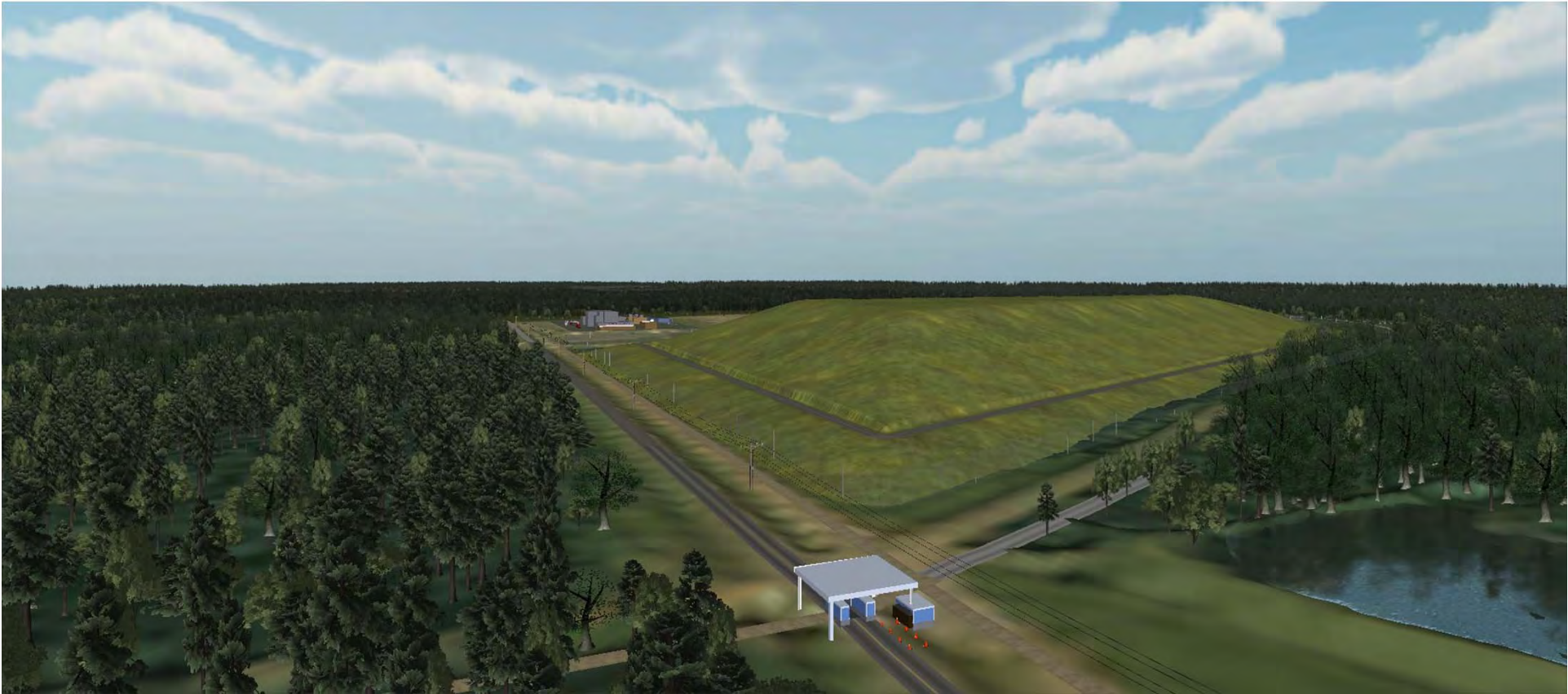


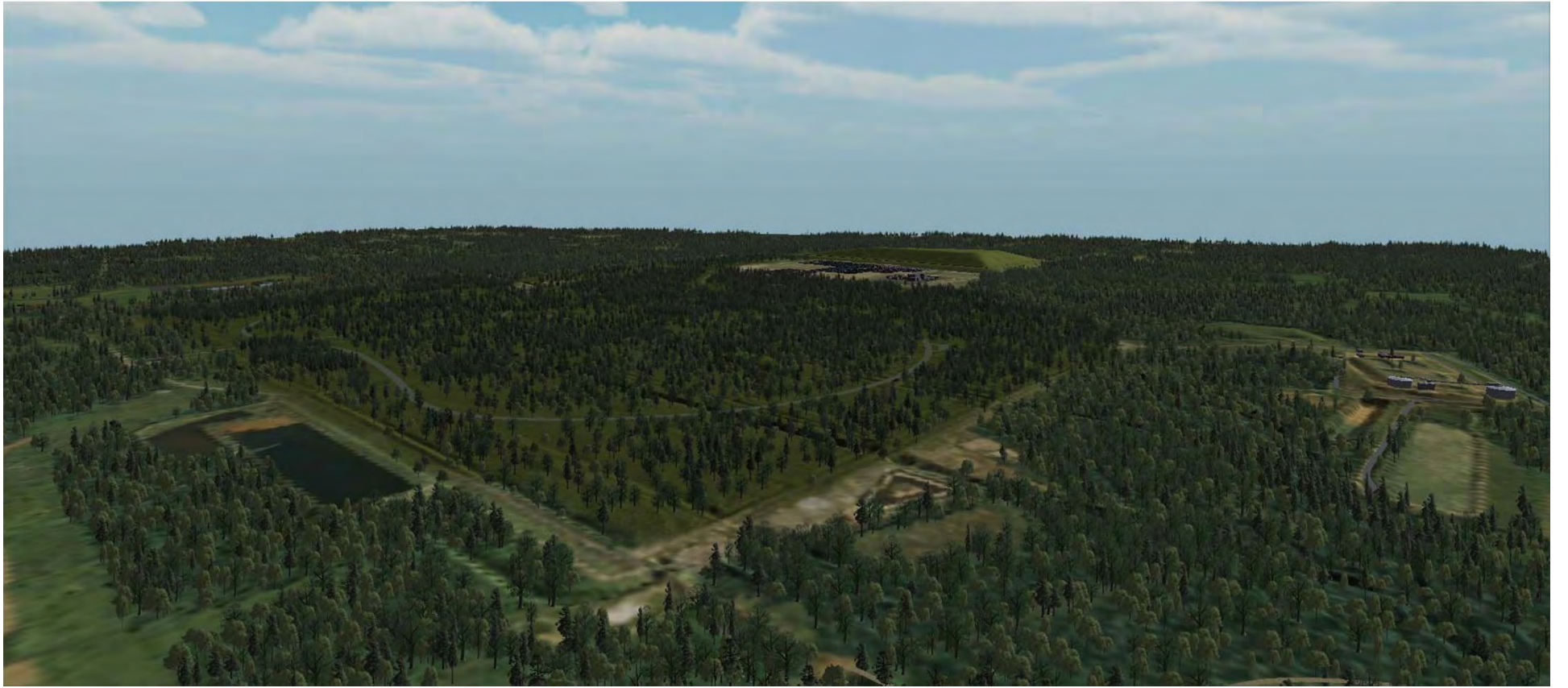
Scenario 8

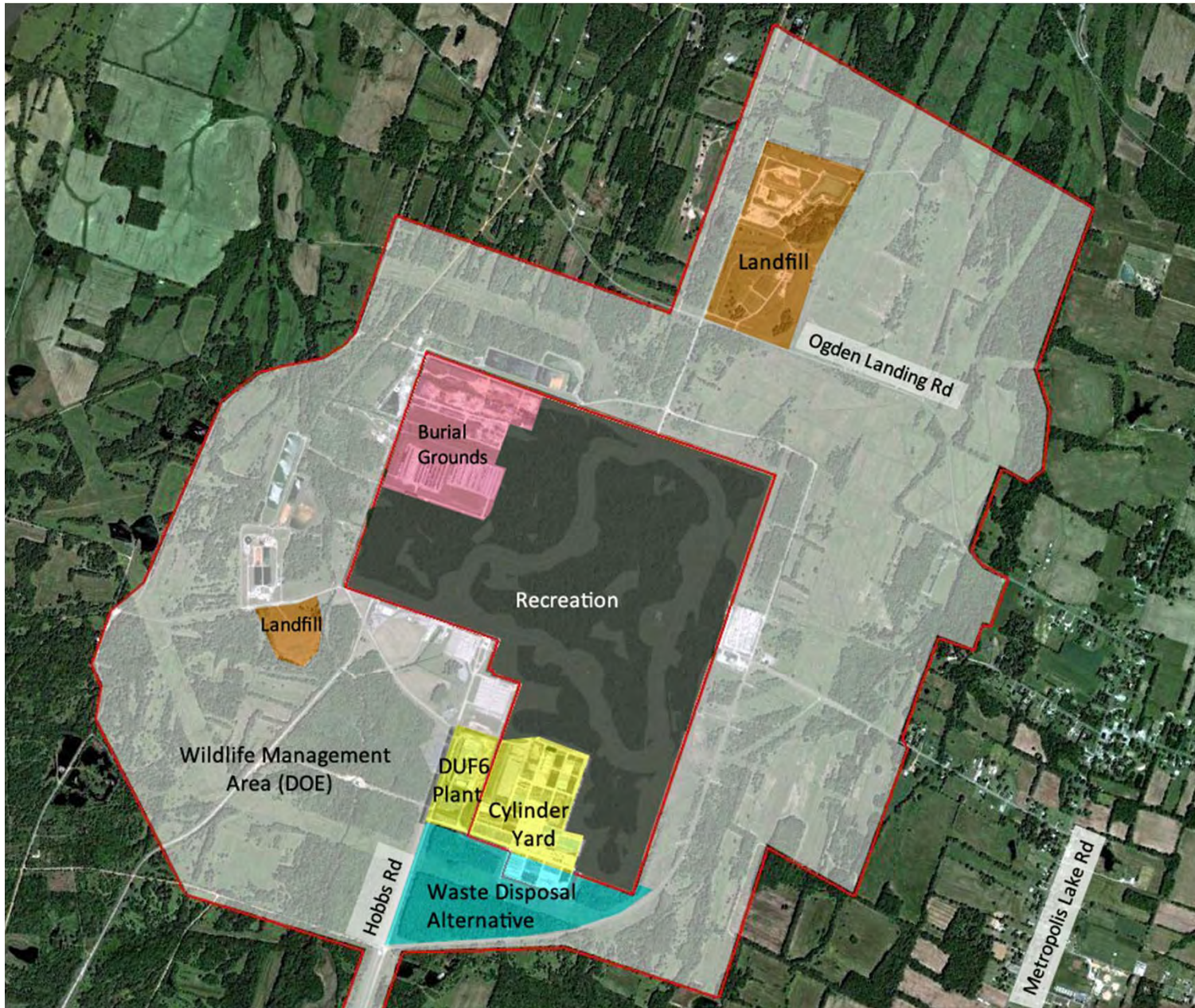
- * Passive Recreational Facilities on Plant Site
- * Active Recreational Facilities added to PGDP WMA
- * All Plant Decommissioning Waste kept onsite in WDA
- * All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.











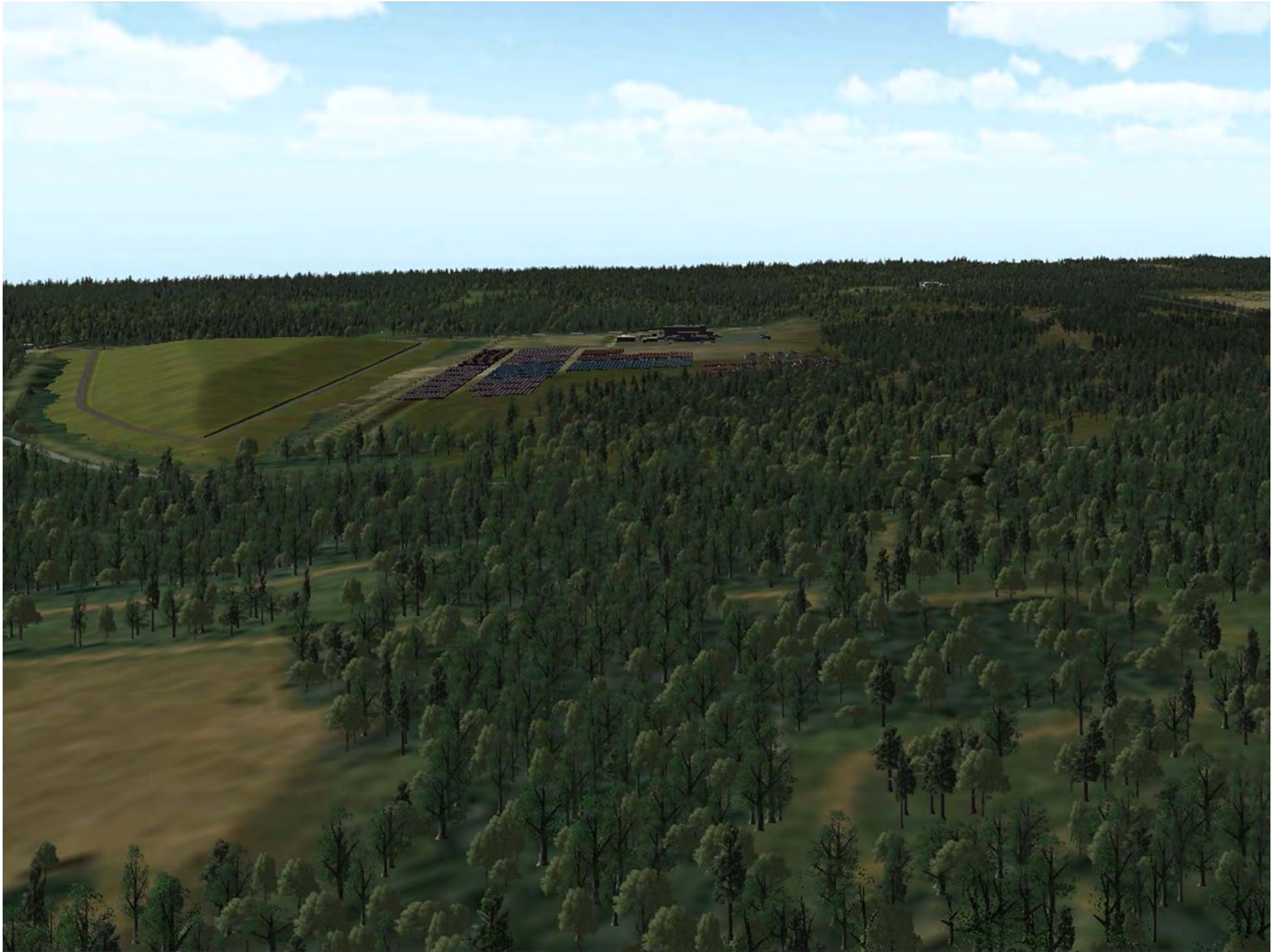
Scenario 7

***Passive
Recreational
Facilities on Plant
Site**

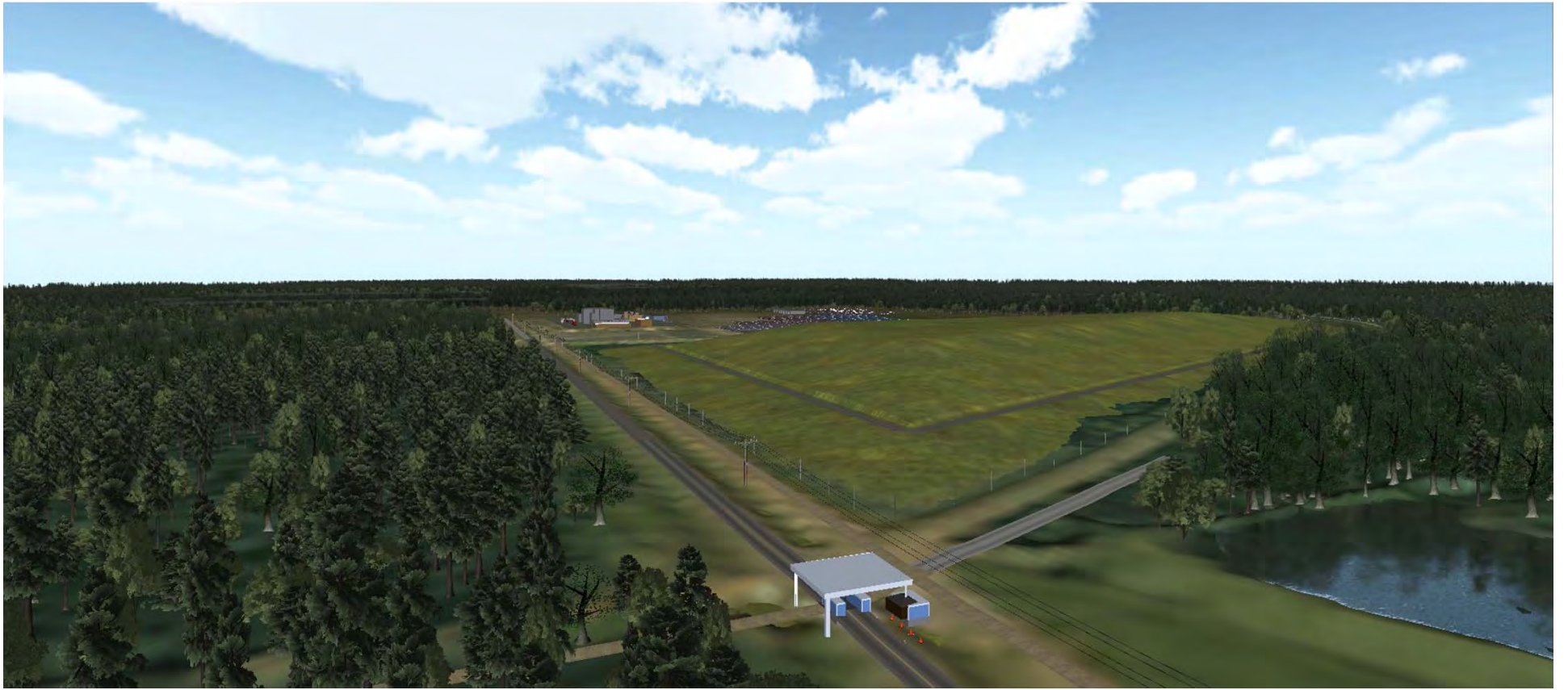
*** PGDP WMA
Remains**

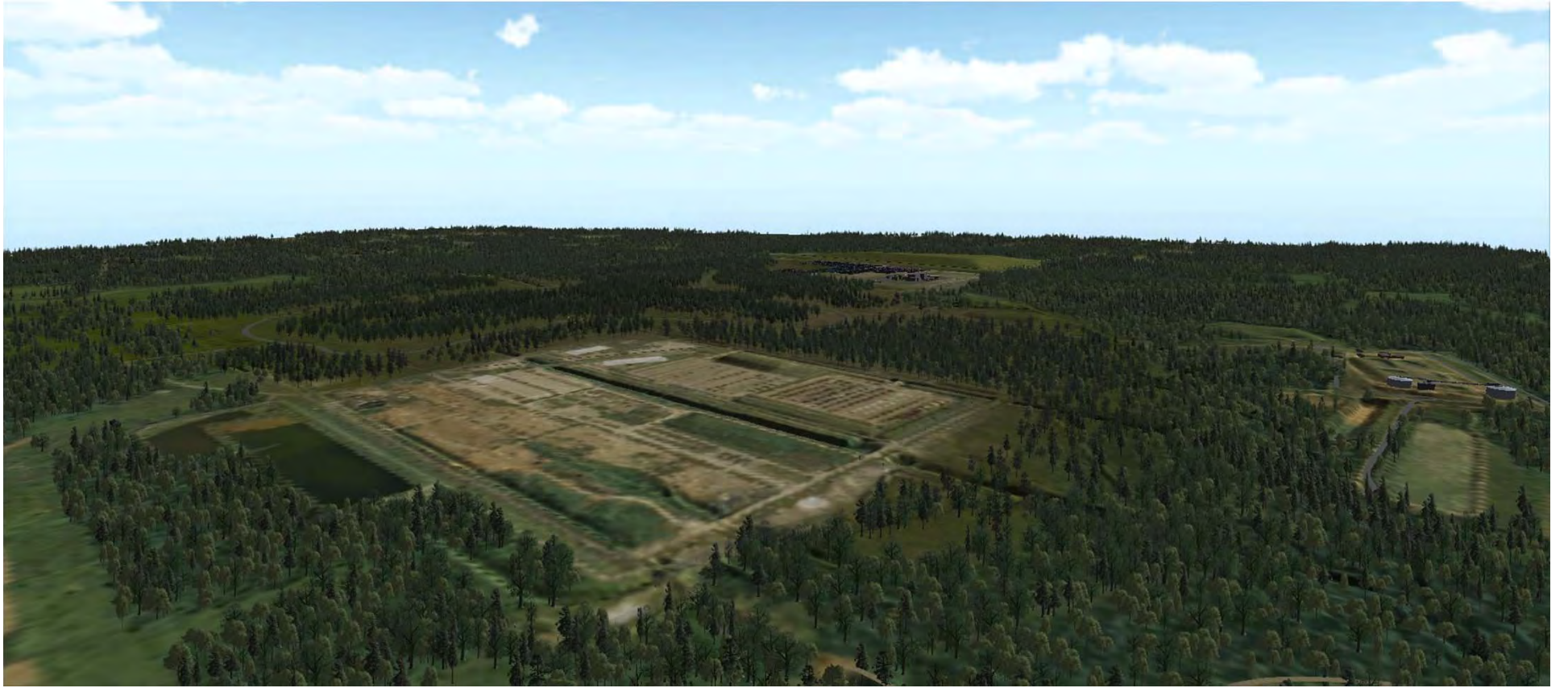
***Part of Plant
Decommissioning
Waste kept
onsite in WDA
and part placed
in DOE managed
Landfill**

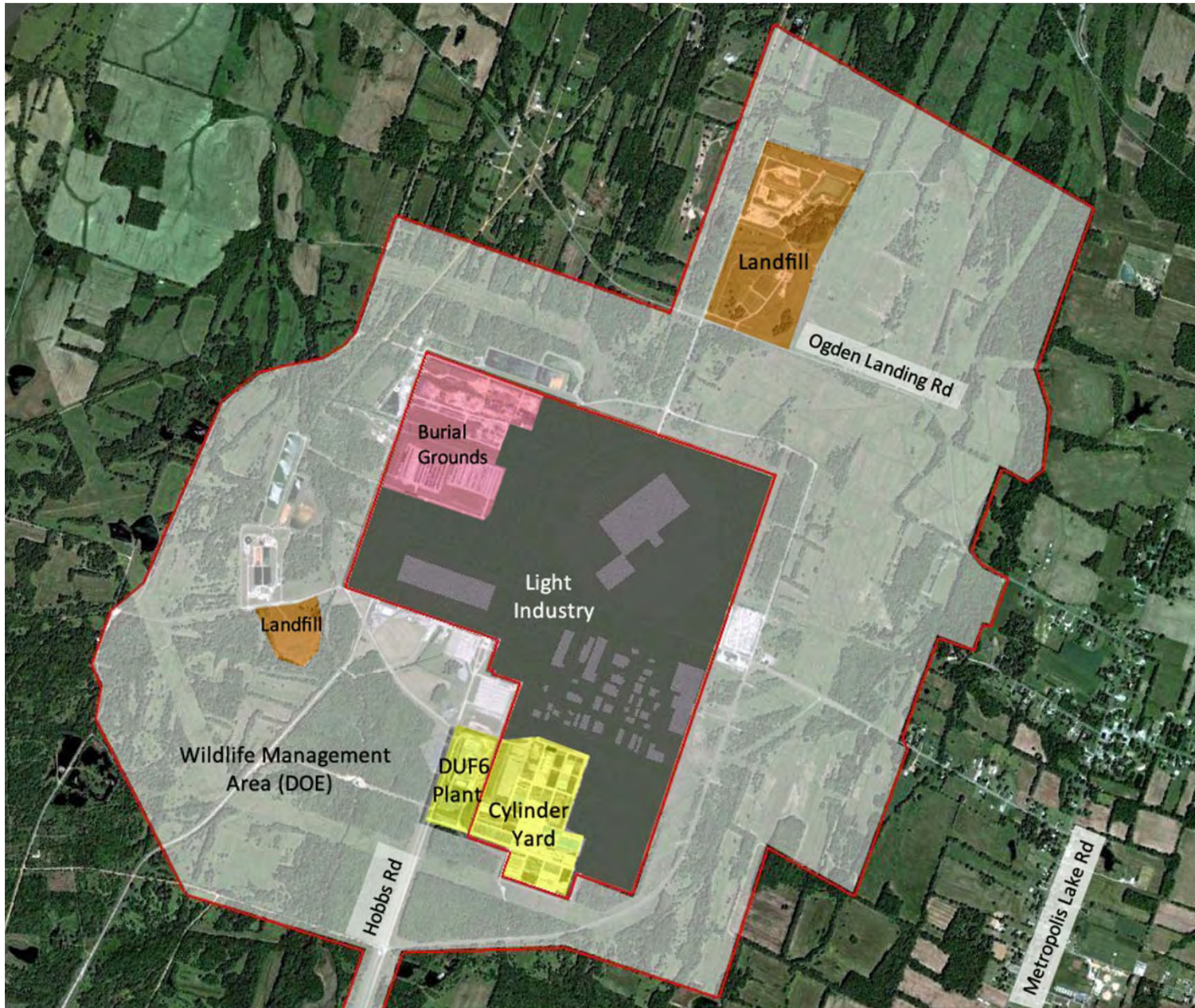
*** Some existing
Burial Grounds
sealed and left in
place, the rest
put in WDA.**





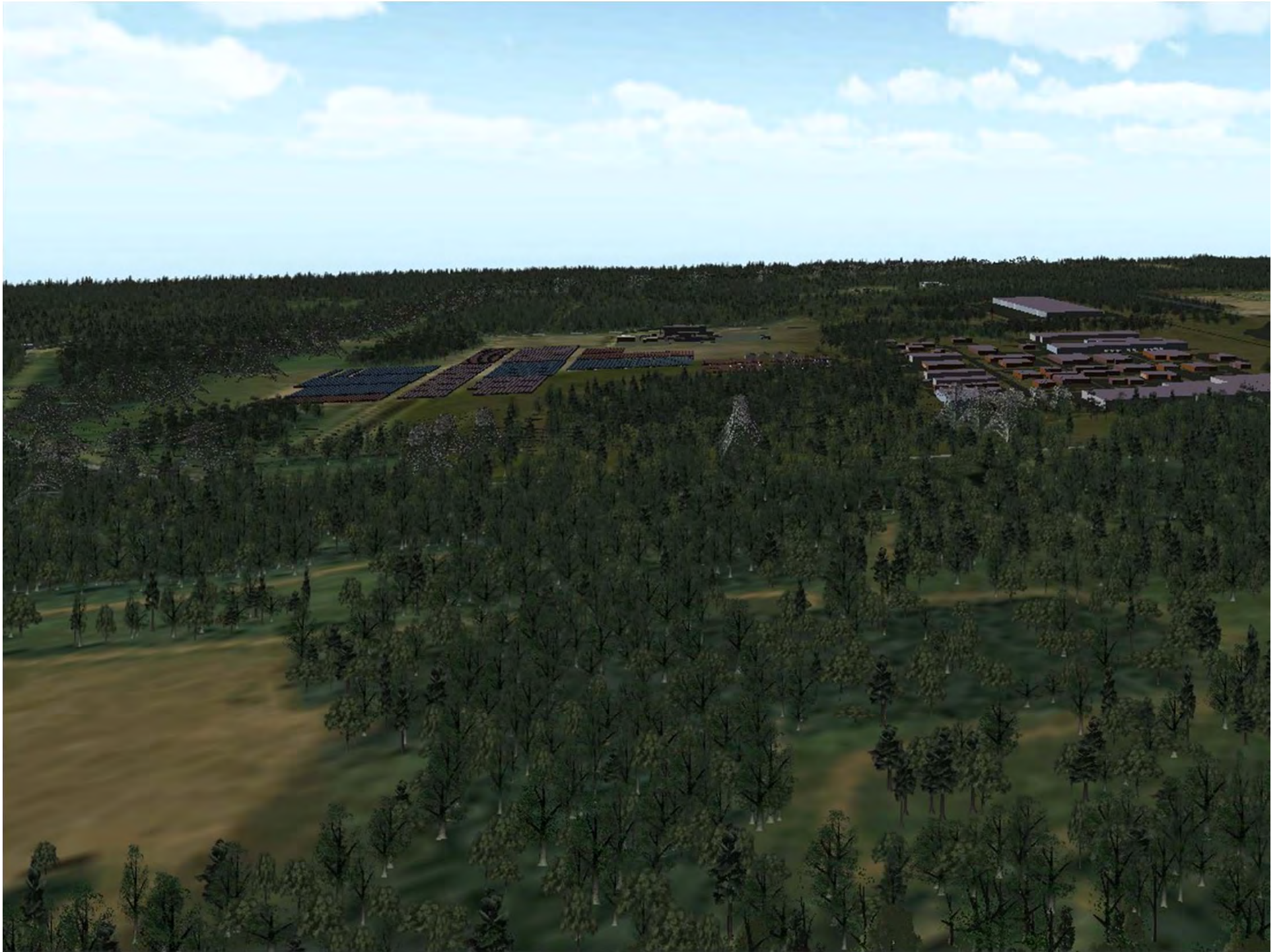


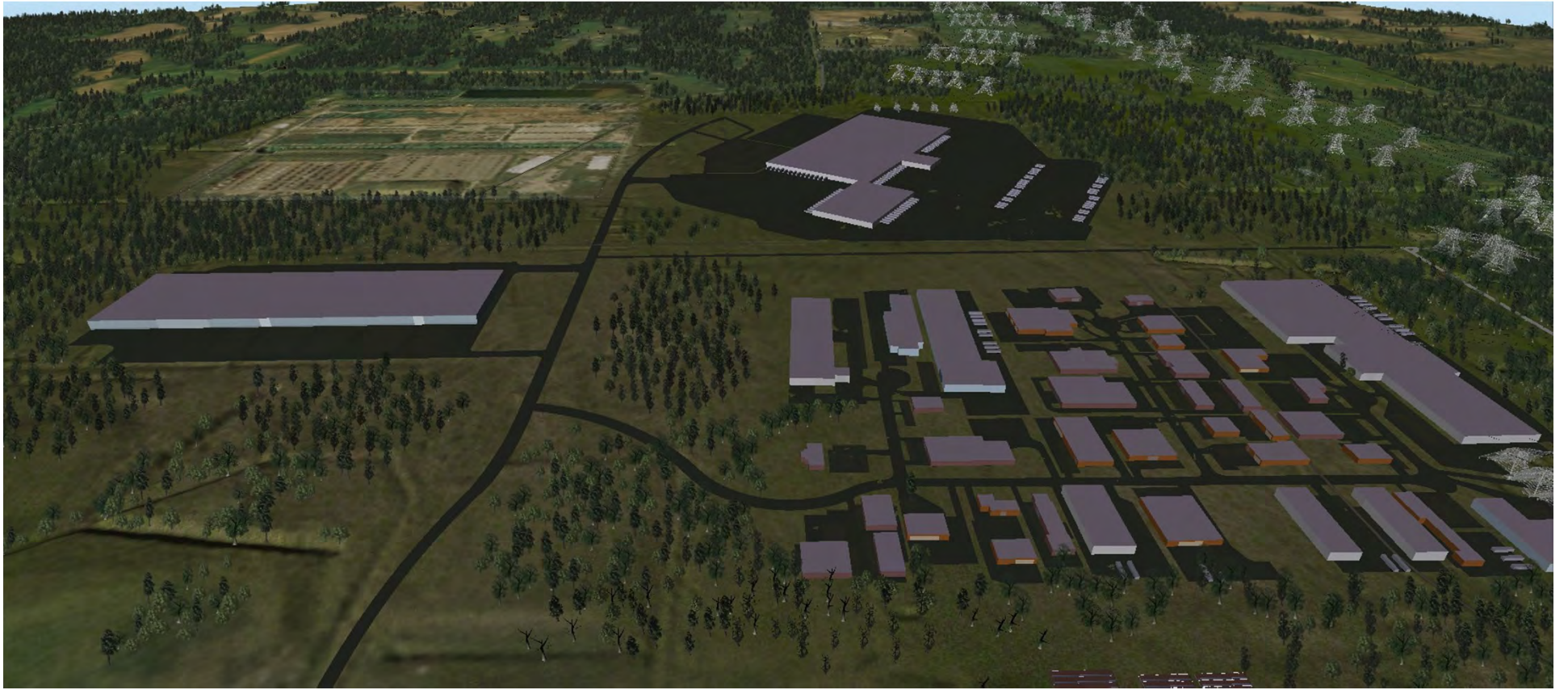


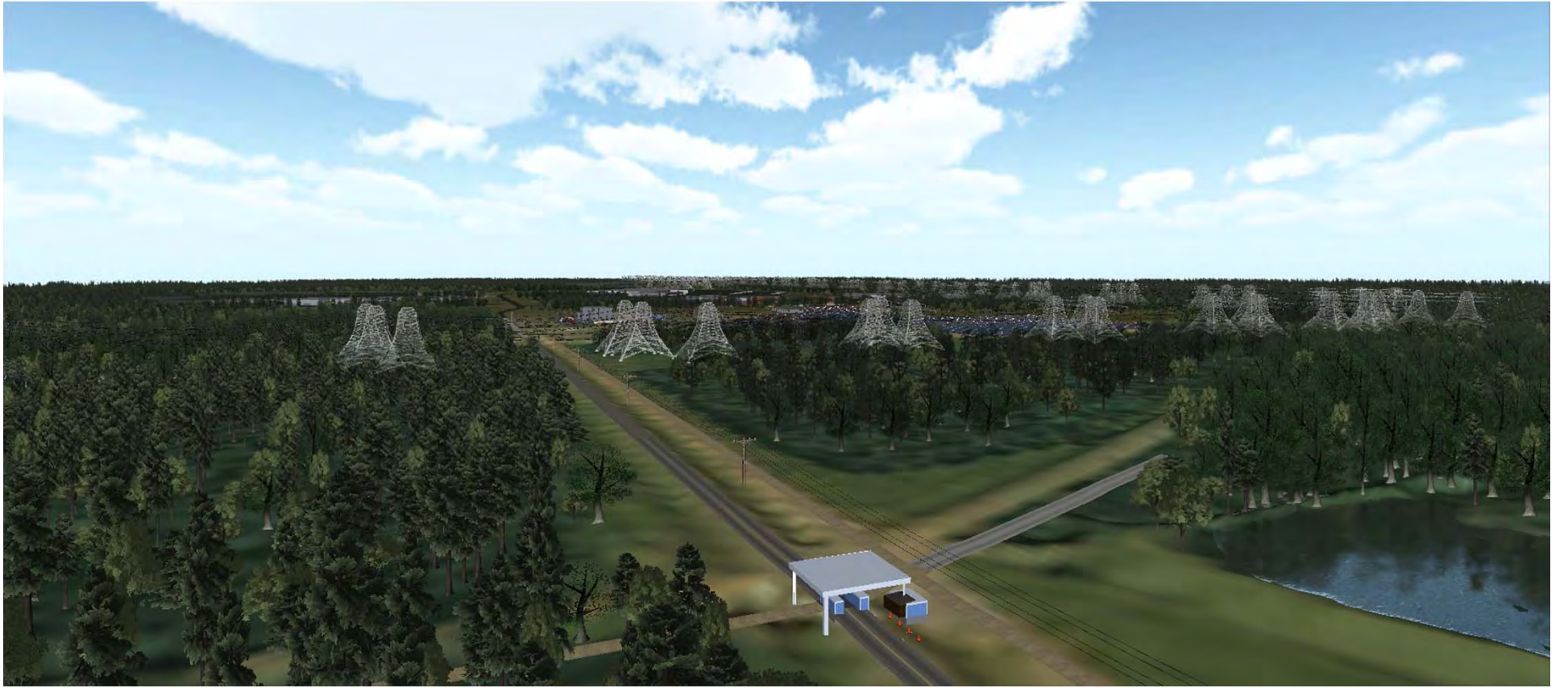


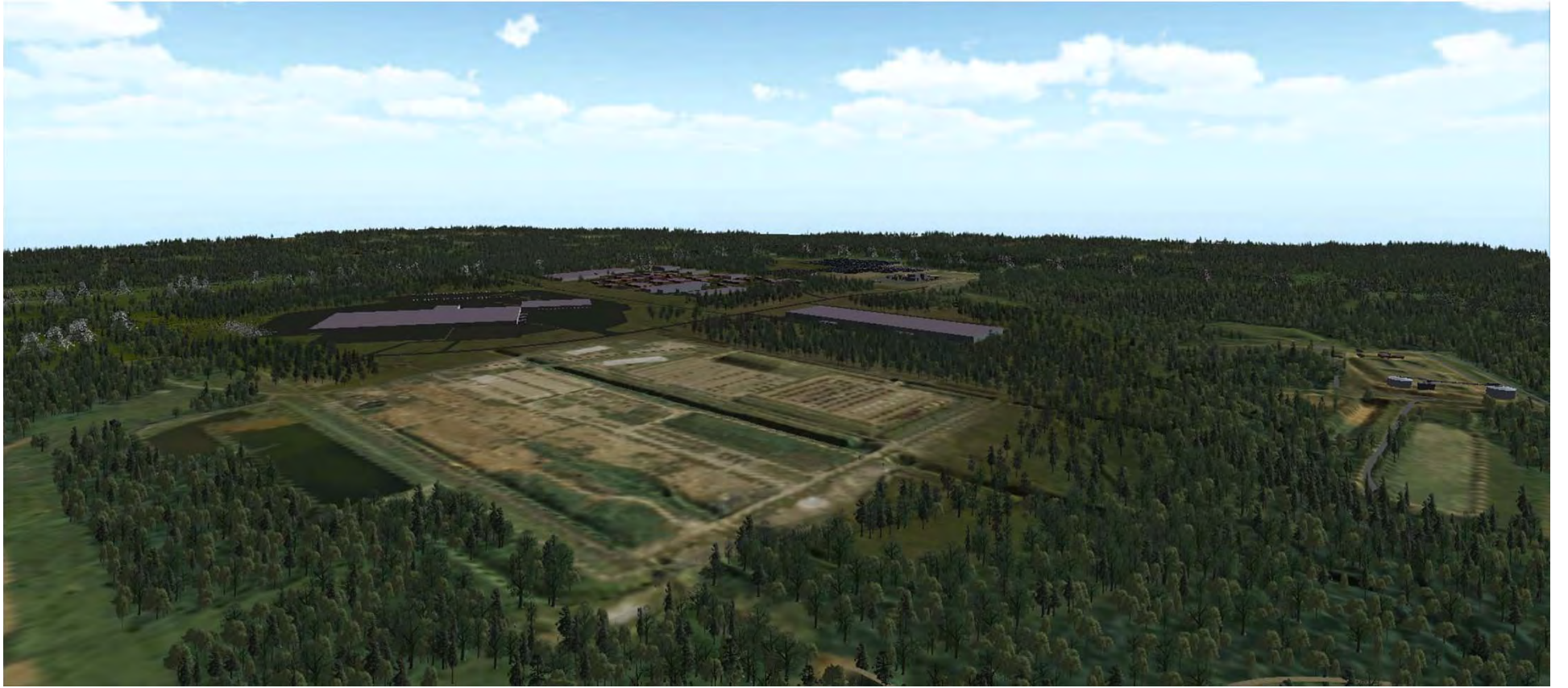
Scenario 6

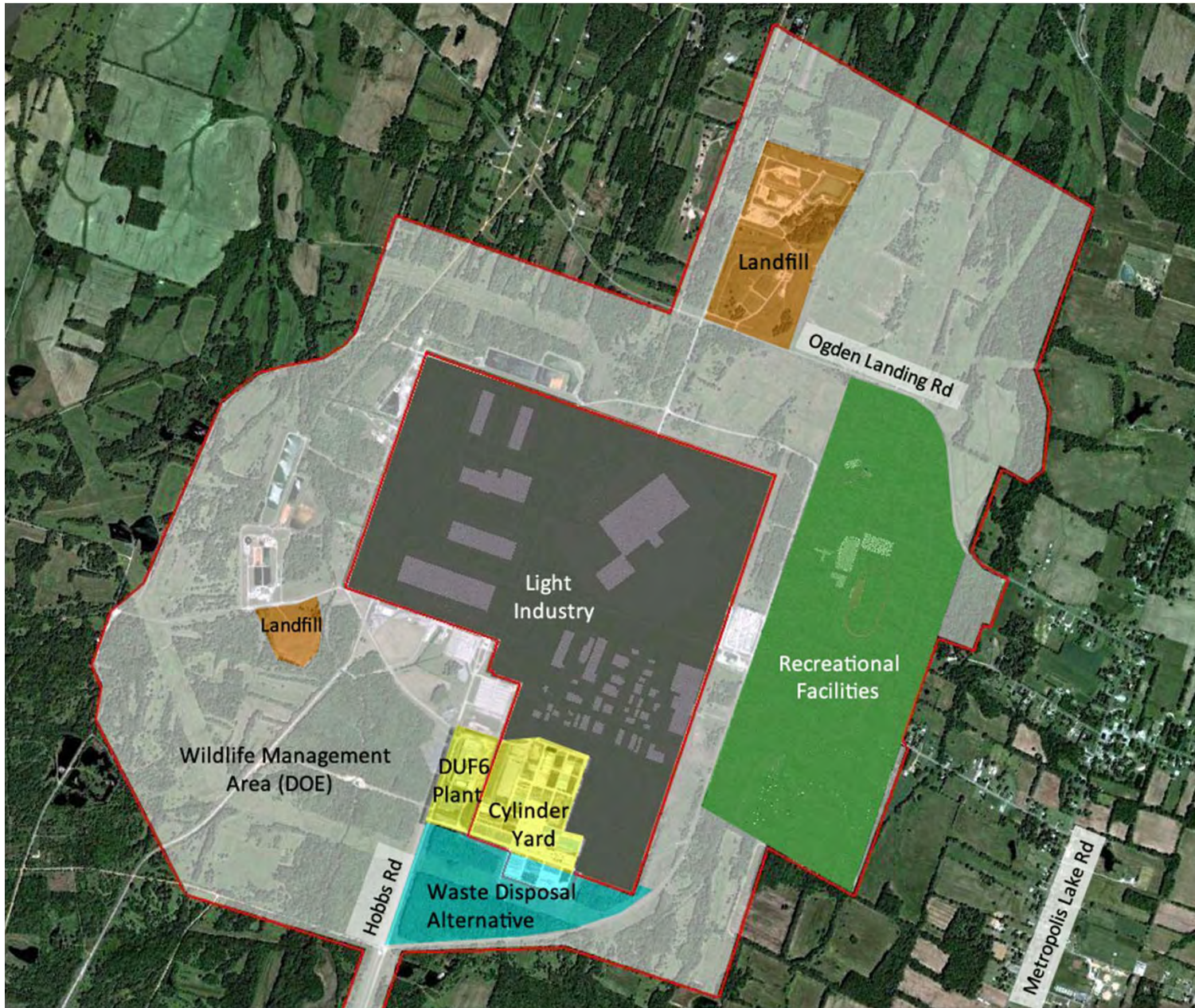
- * Light Industry on Plant Site
- * PGDP WMA Remains
- * All Plant Decommissioning Waste Removed from Site.
- * Some existing Burial Grounds sealed and left in place, the rest are excavated and shipped off-site





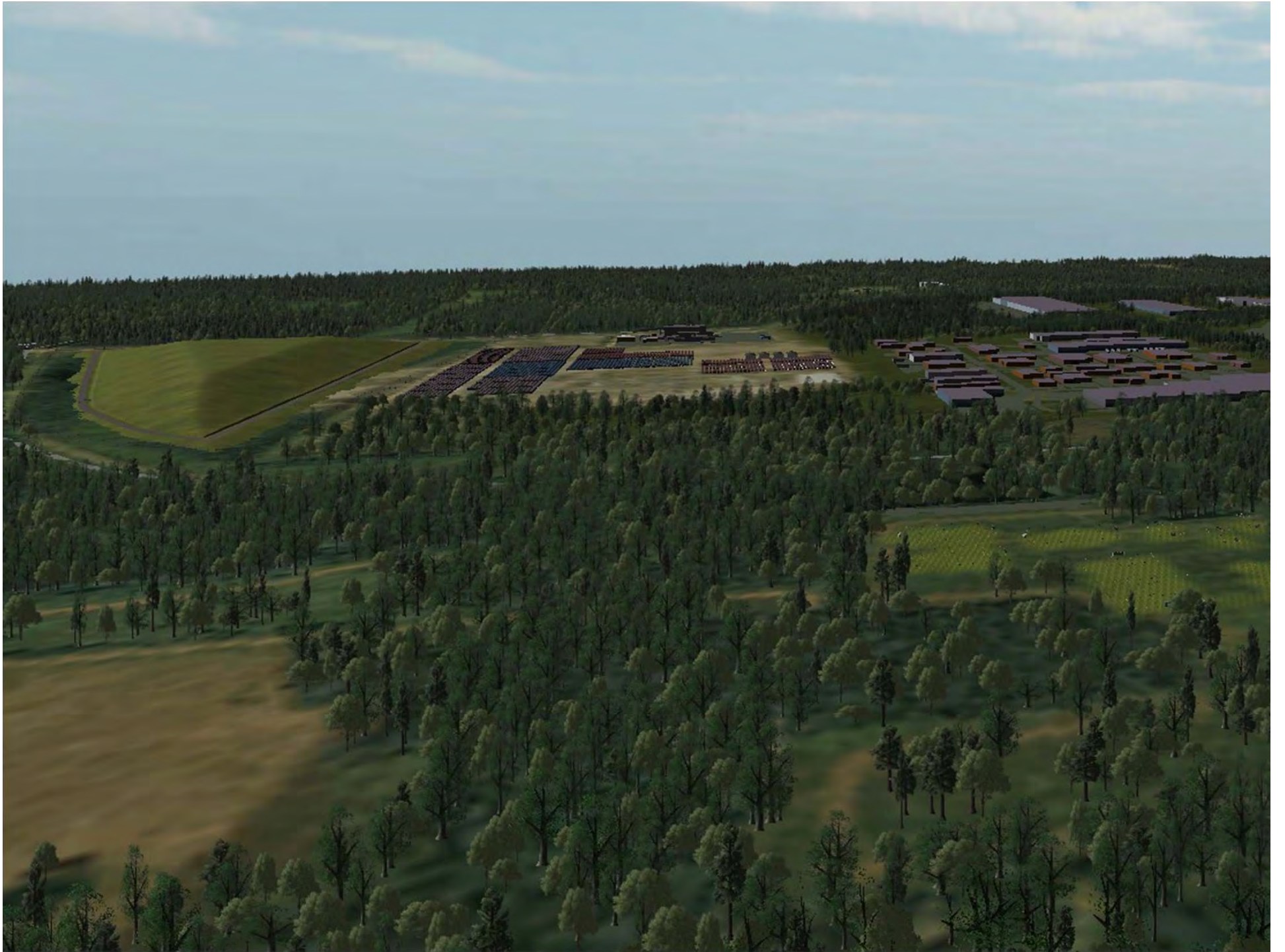




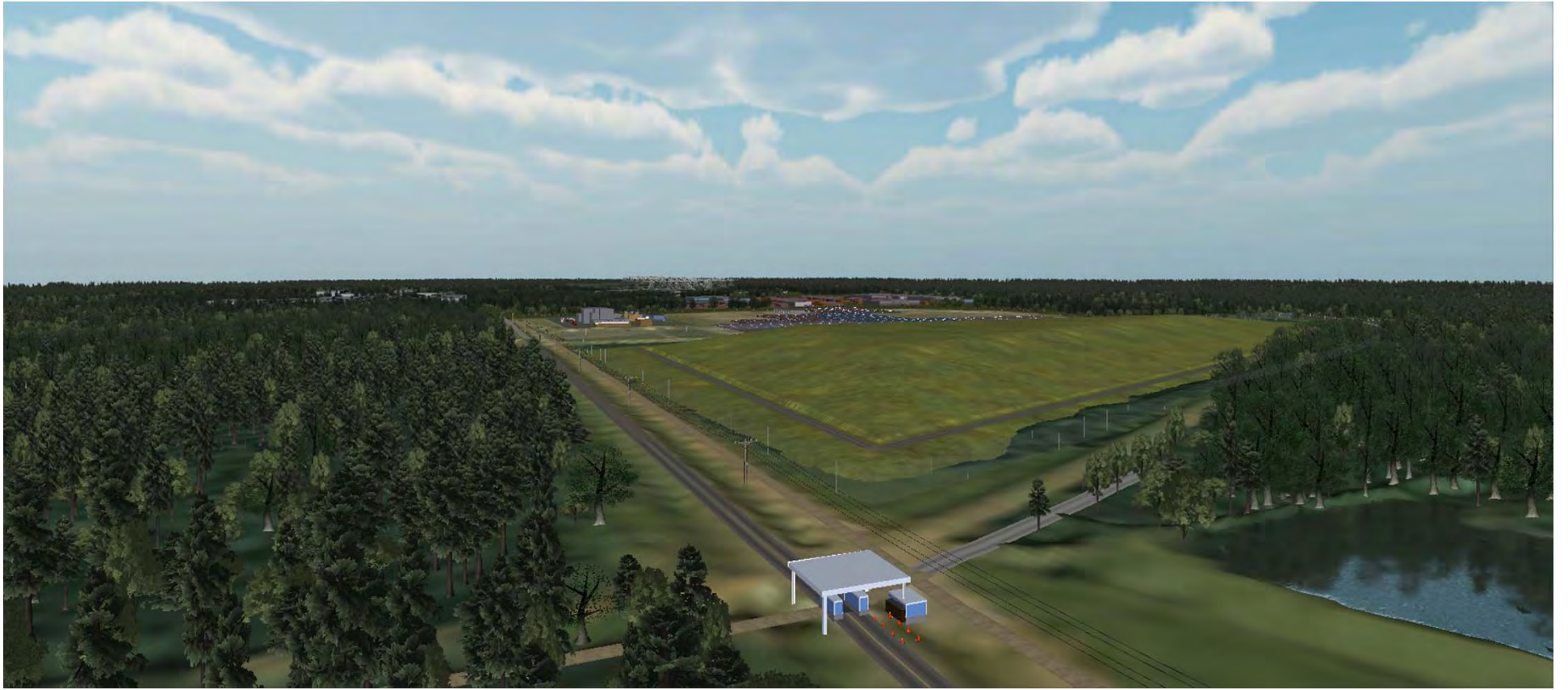


Scenario 5

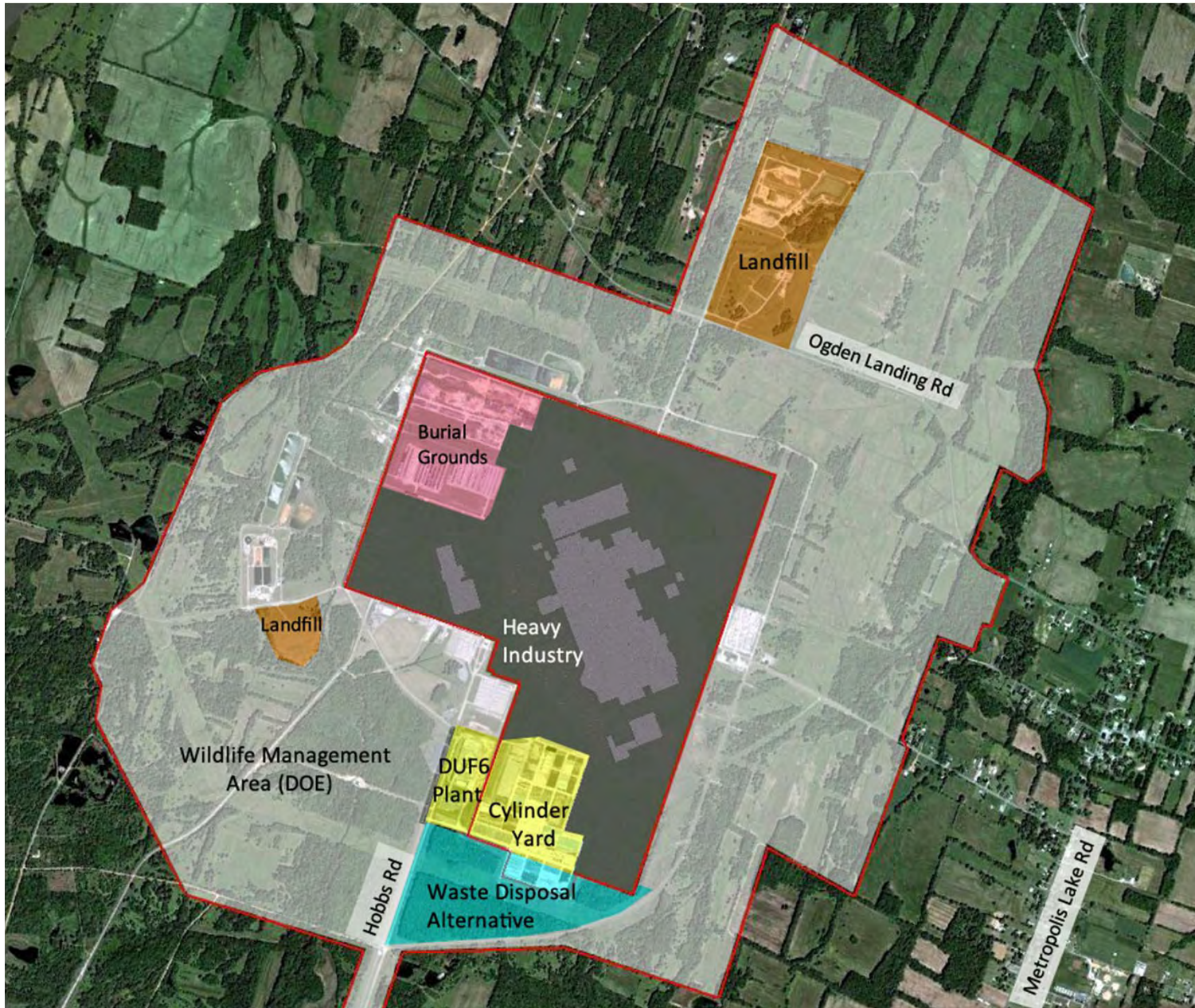
- * Light Industry on Plant Site
- * Active Recreational Facilities added to PGDP WMA
- * Part of Plant Decommissioning Waste kept onsite in WDA and part placed in managed Landfill
- * All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.





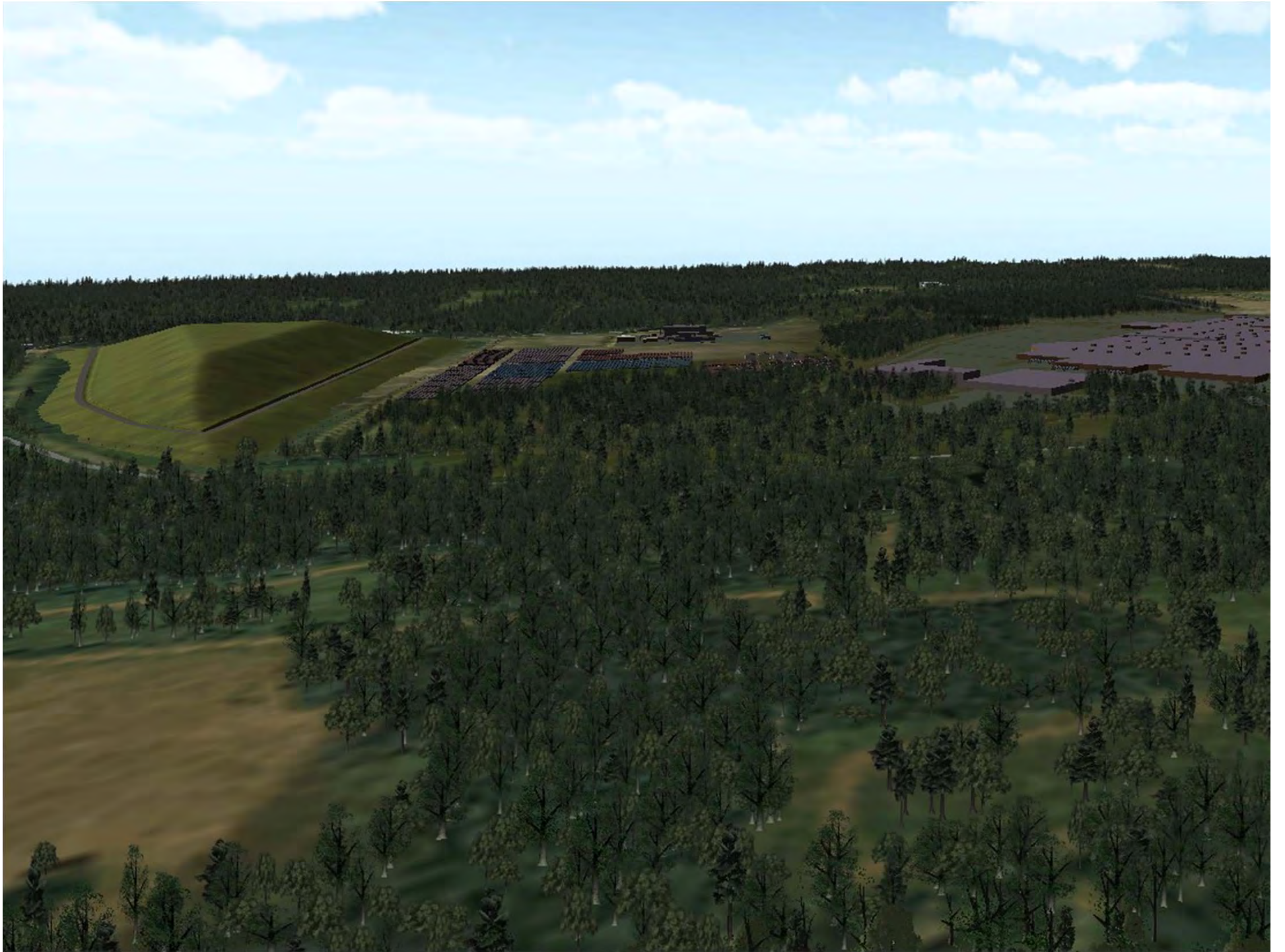




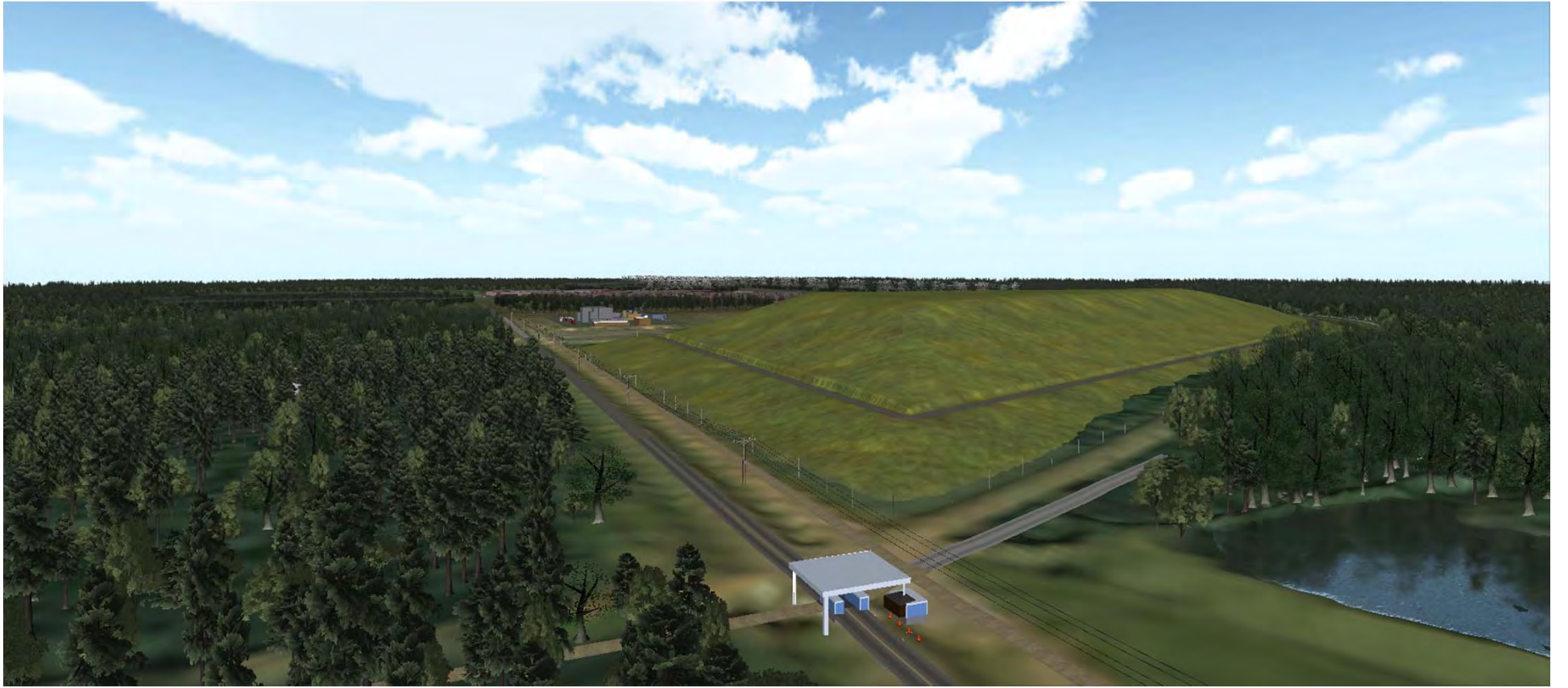


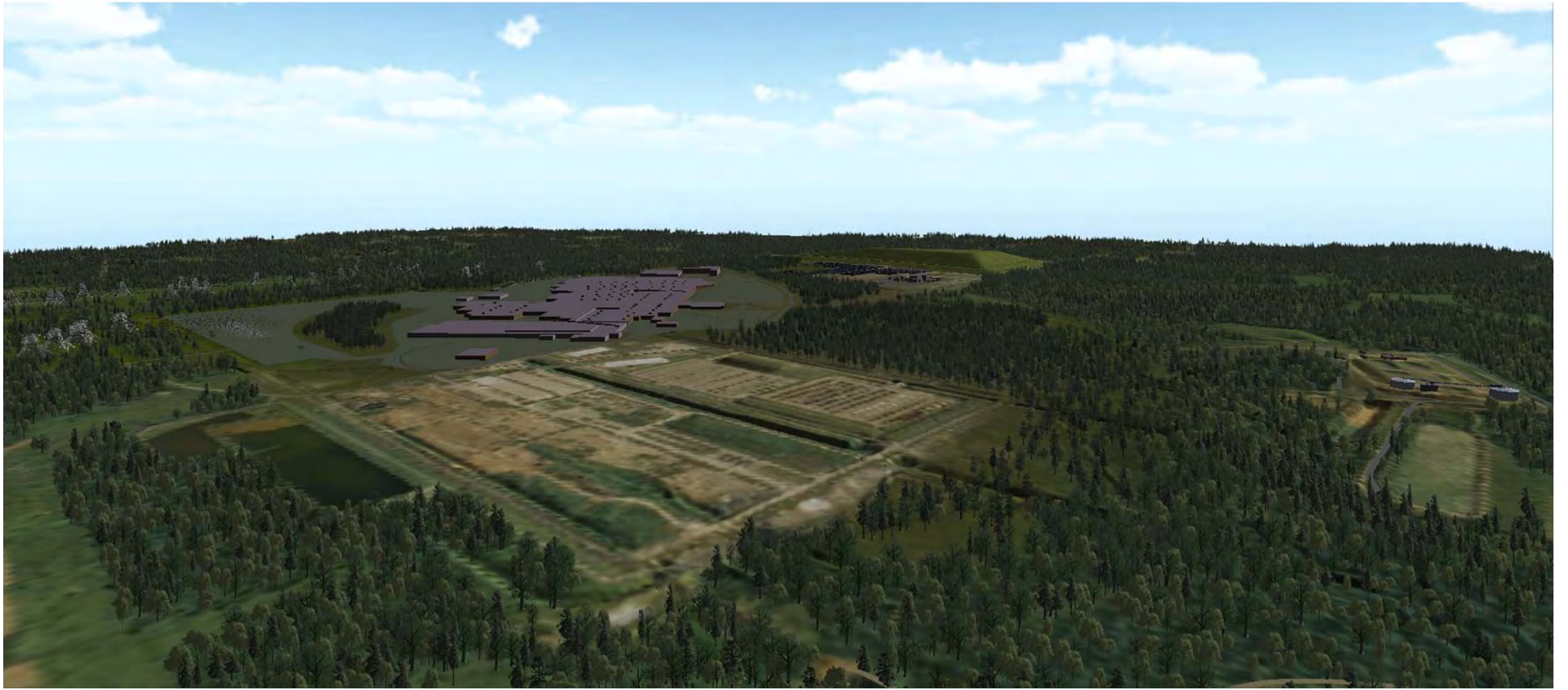
Scenario 4

- * Heavy Industry on Plant Site
- * PGDP WMA Remains
- * All Plant Decommissioning Waste kept onsite in WDA
- * Some existing Burial Grounds sealed and left in place, the rest excavated placed in WDA.





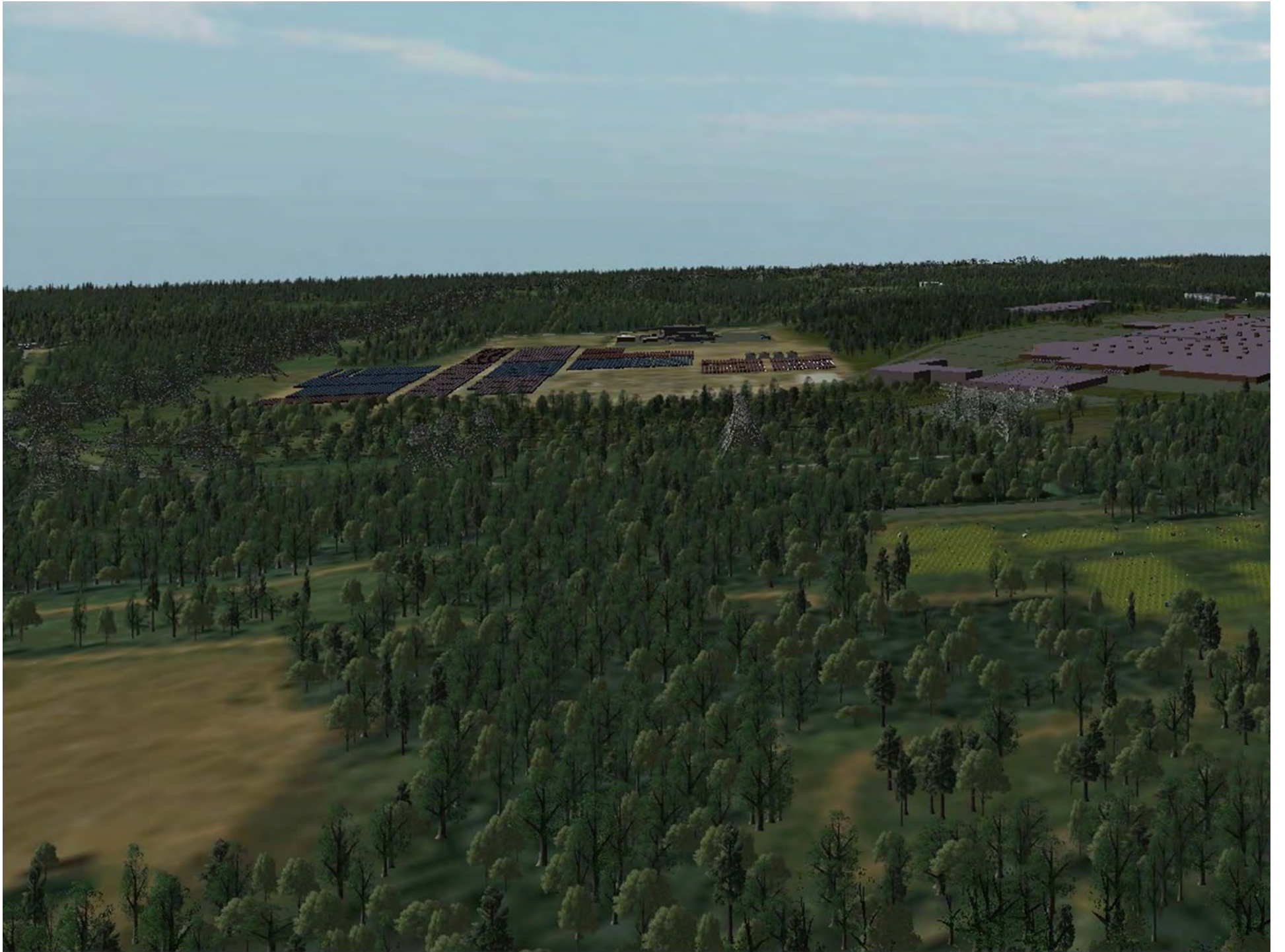




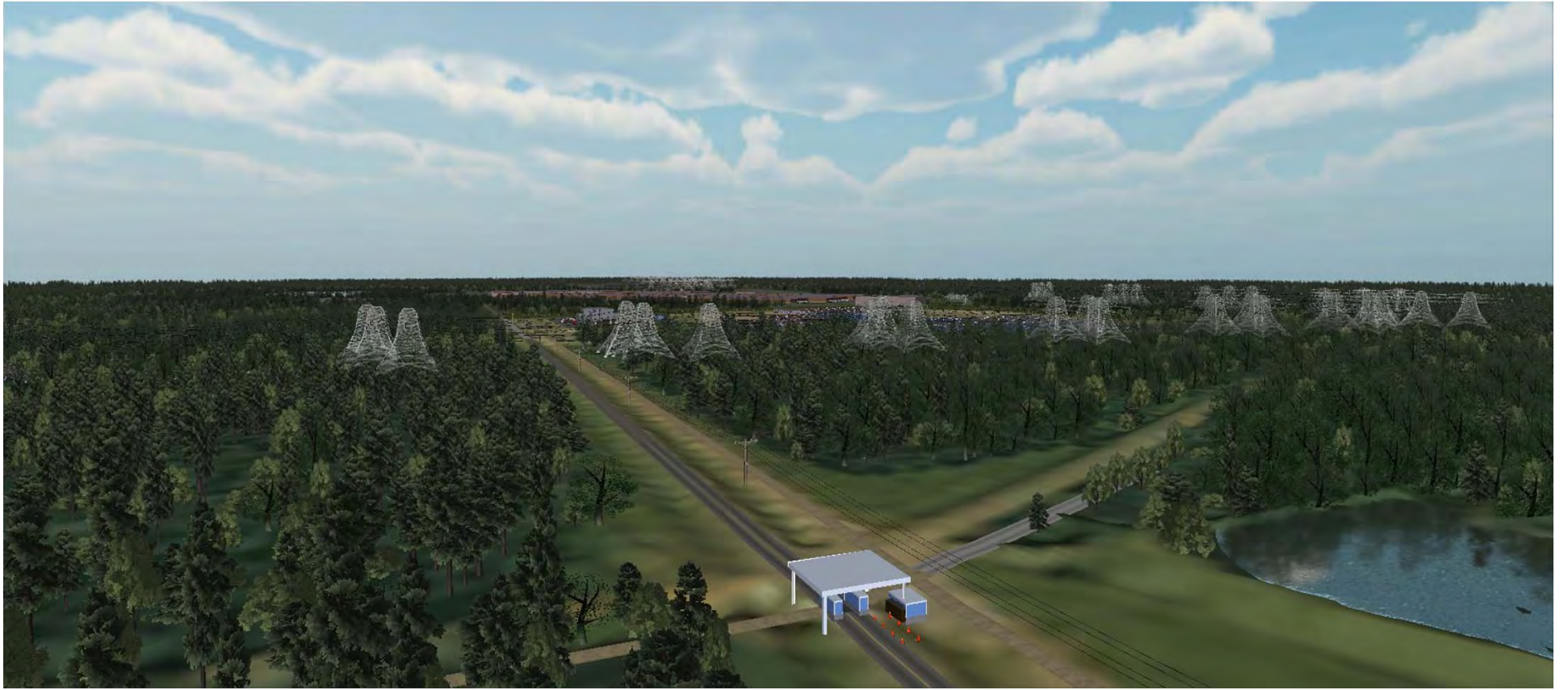


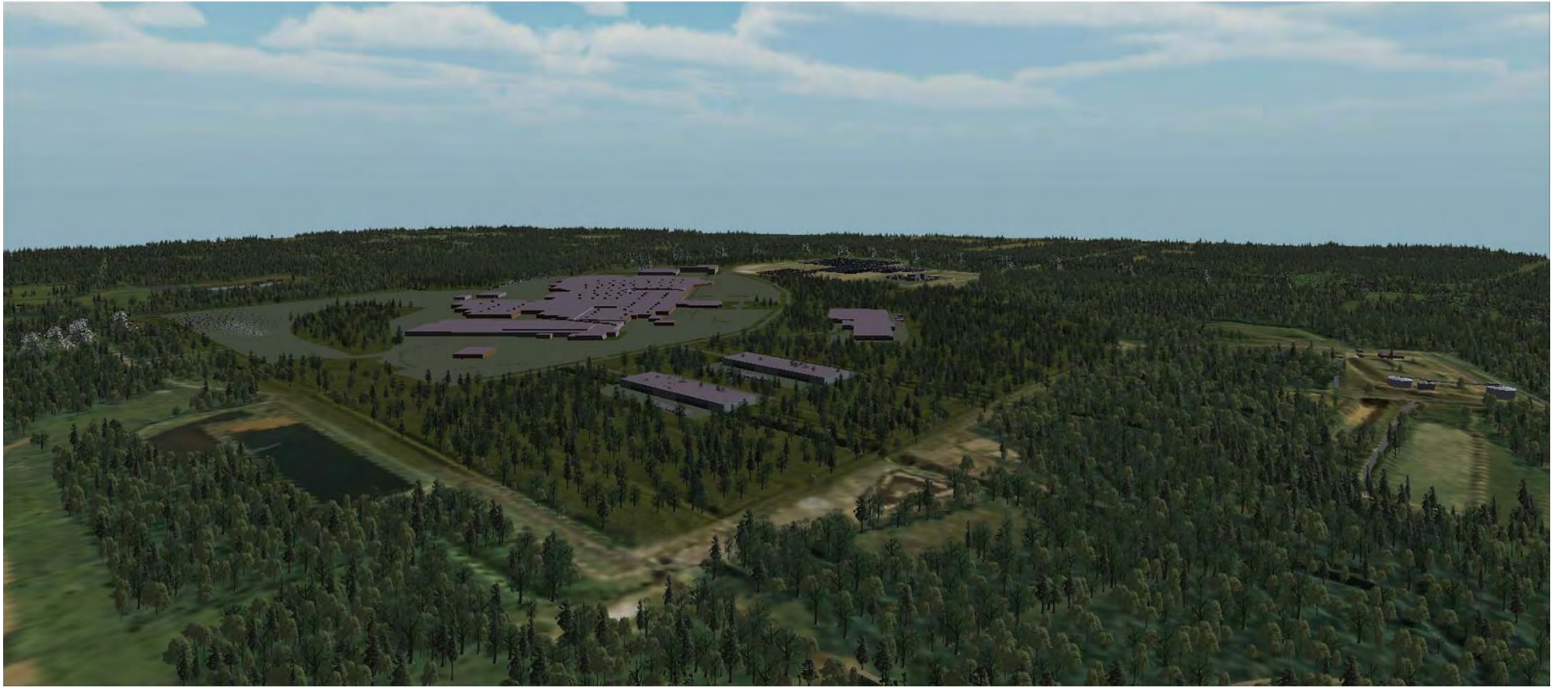
Scenario 3

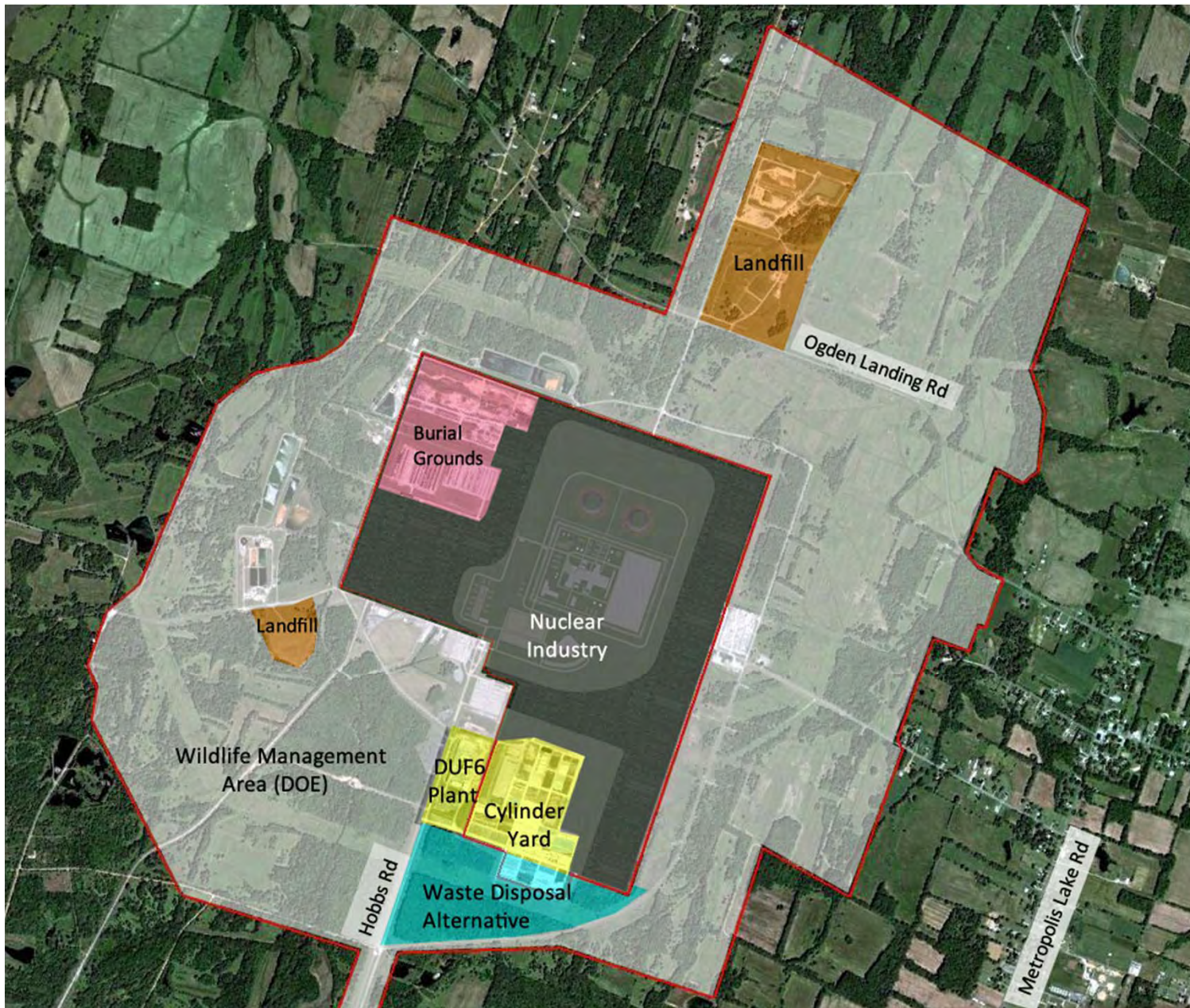
- *Heavy Industry on Plant Site
- * Active Recreational Facilities added to PGDP WMA
- *All Plant Decommissioning Waste Removed from Site
- *All Existing Burial Grounds excavated and shipped off-site.











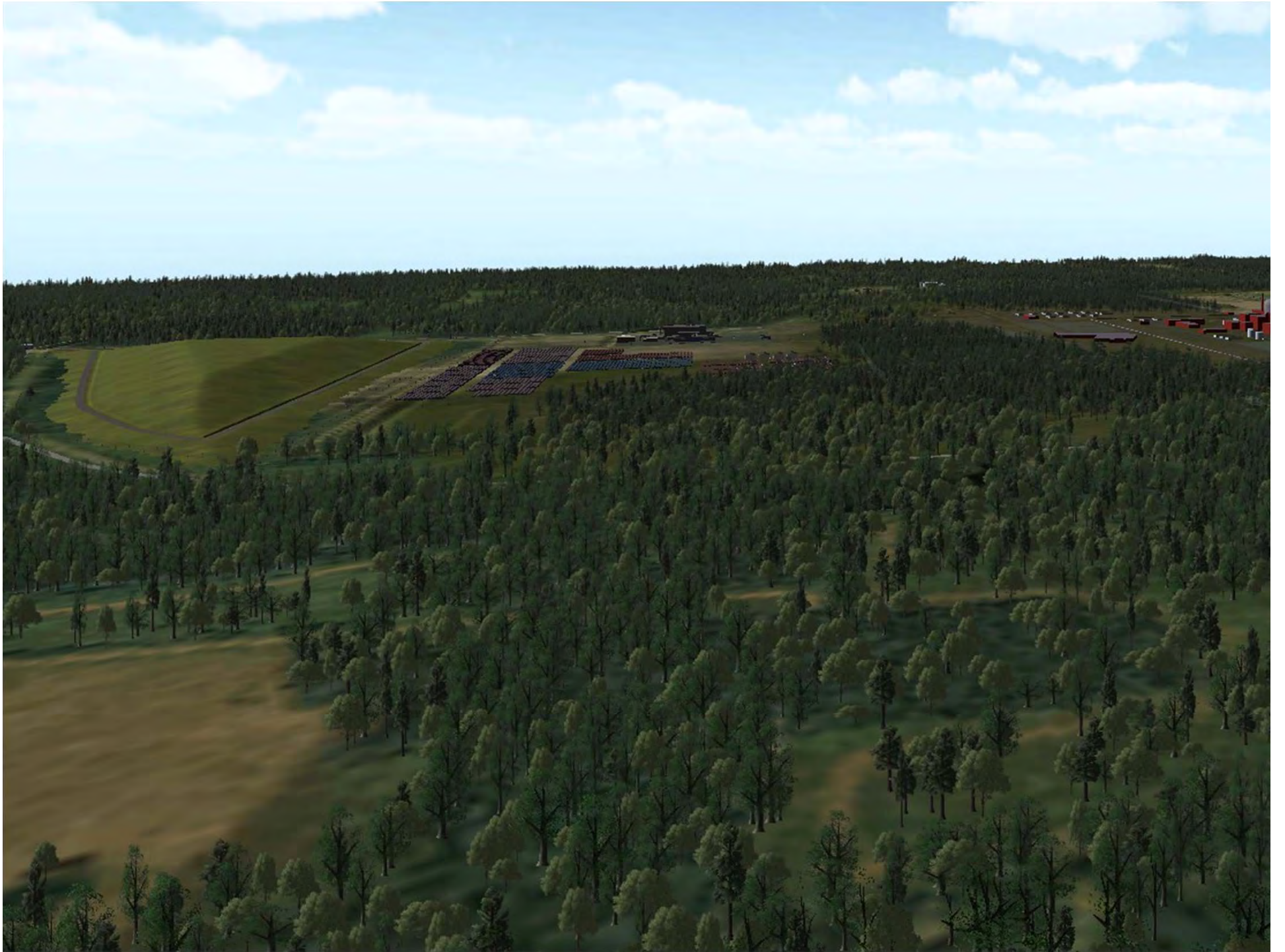
Scenario 2

* Nuclear Industry on Plant Site

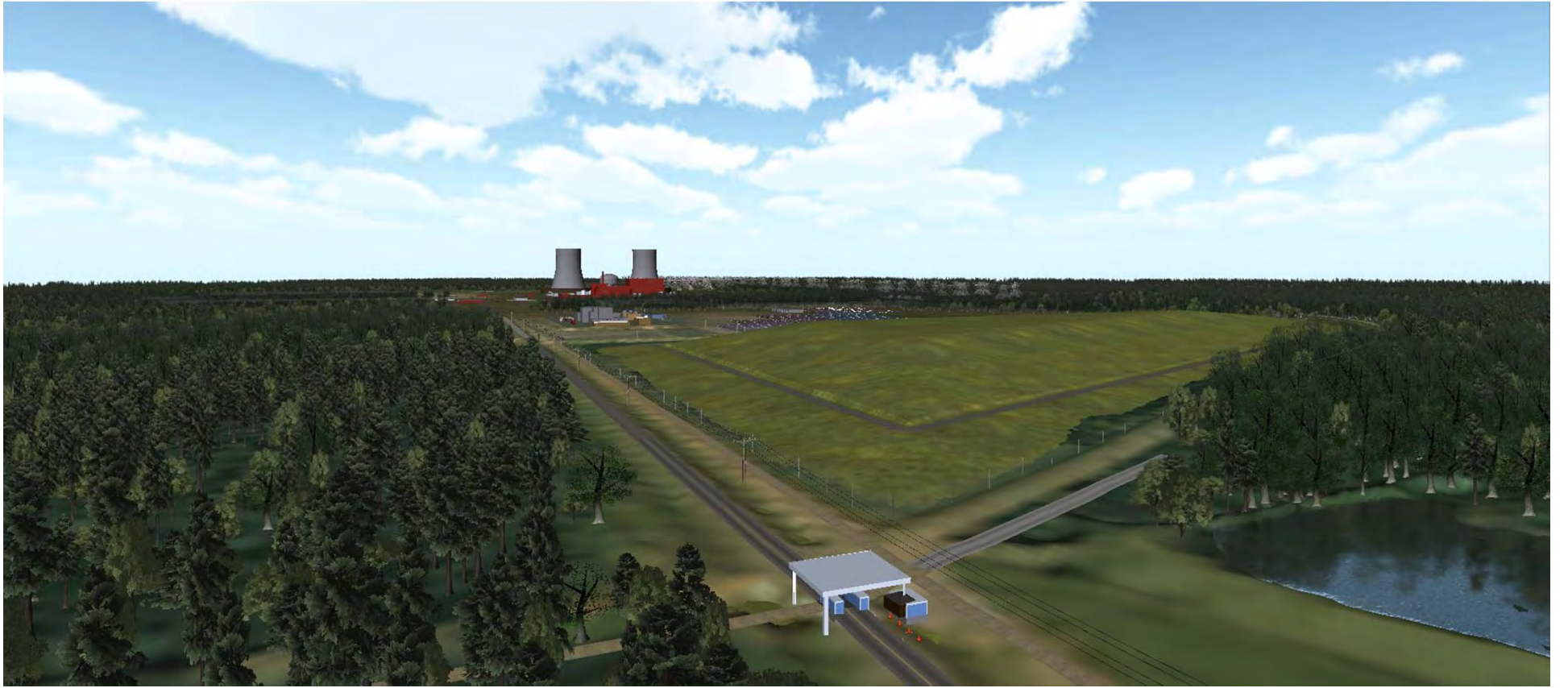
* PGDP WMA Remains

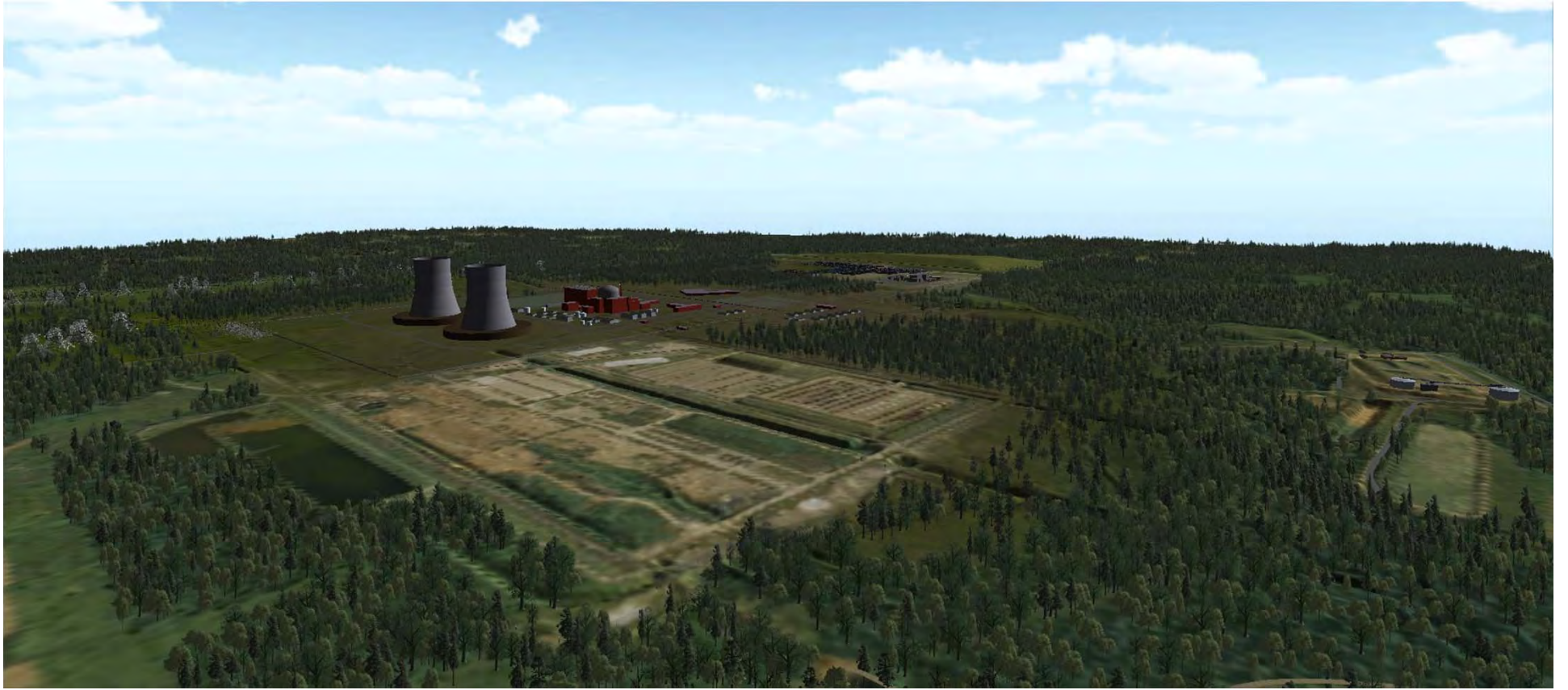
* Part of Plant Decommissioning Waste kept onsite in WDA and part placed in DOE managed Landfill

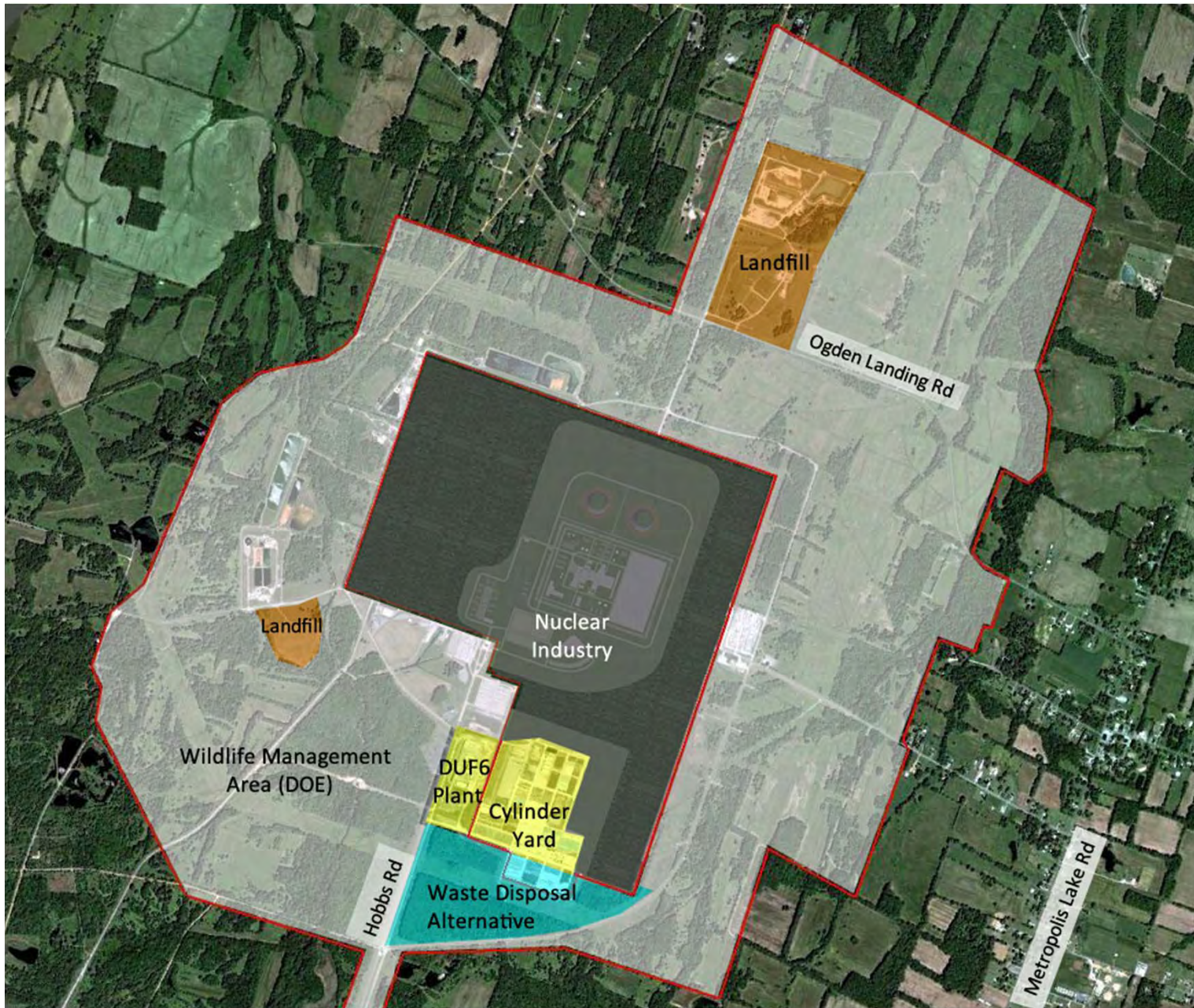
* Some existing Burial Grounds sealed and left in place, the rest excavated placed in WDA.











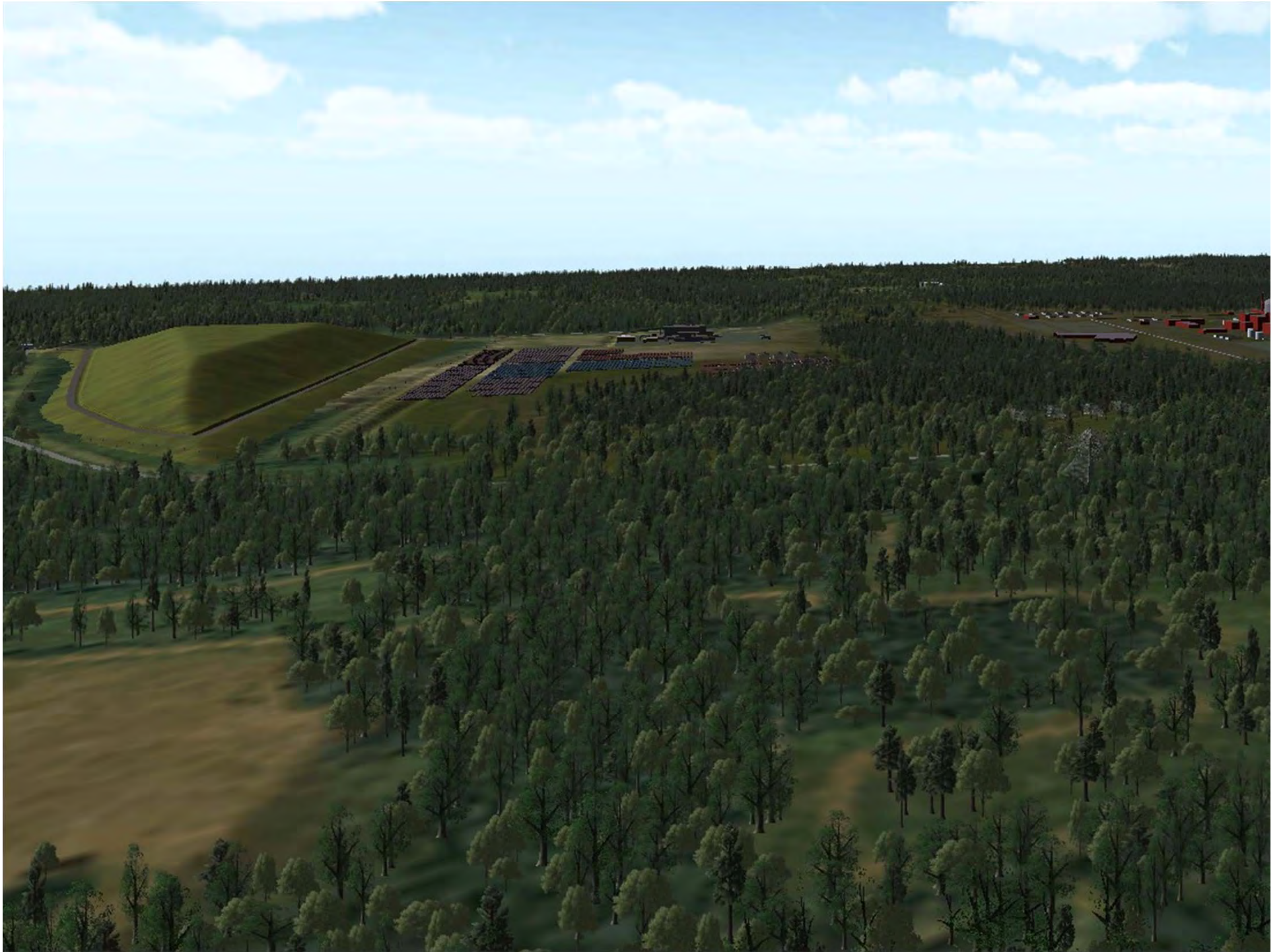
Scenario 1

* Nuclear Industry on Plant Site

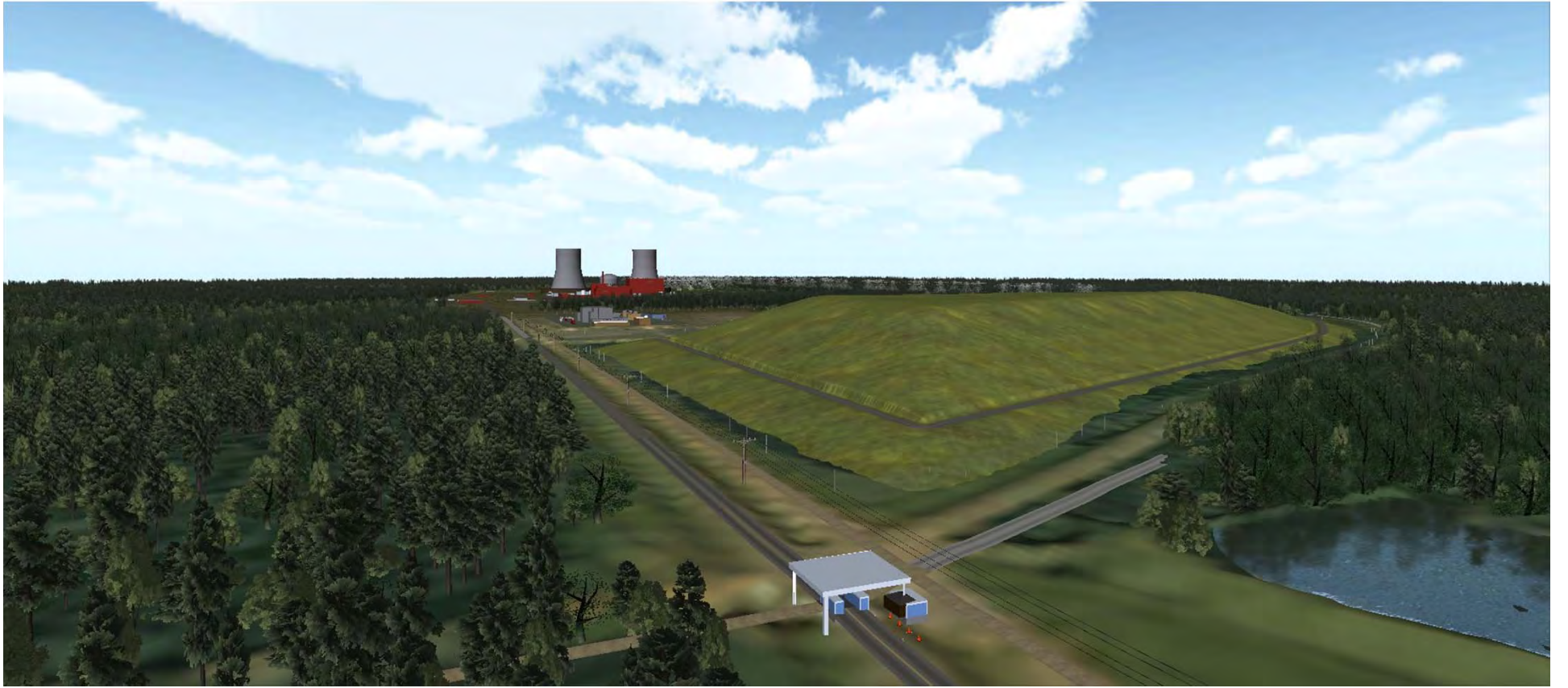
* PGDP WMA Remains

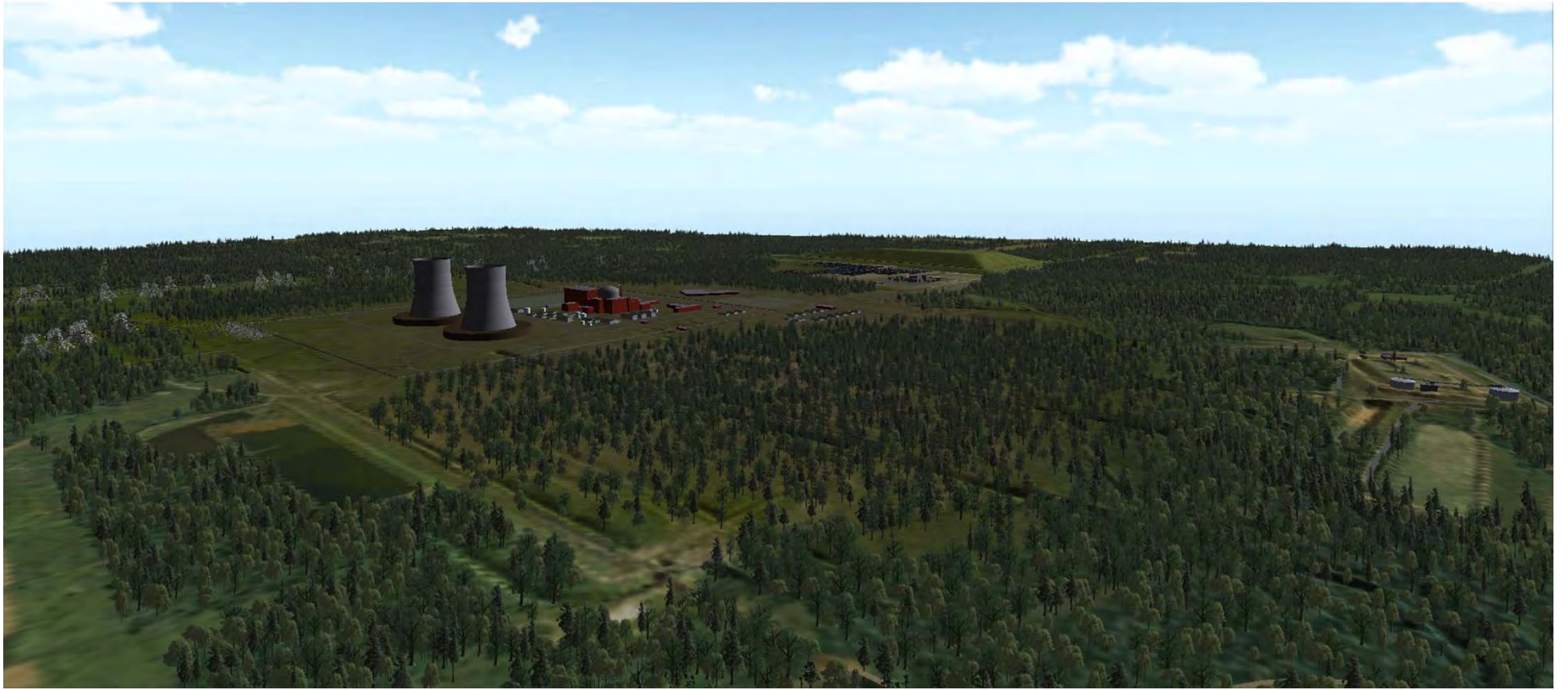
* All Plant Decommissioning Waste kept onsite in WDA

* All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.









Score these scenarios





Scenario 12

* Plant Site sealed, fenced, access restricted

* Active Recreational Facilities added to PGDP WMA

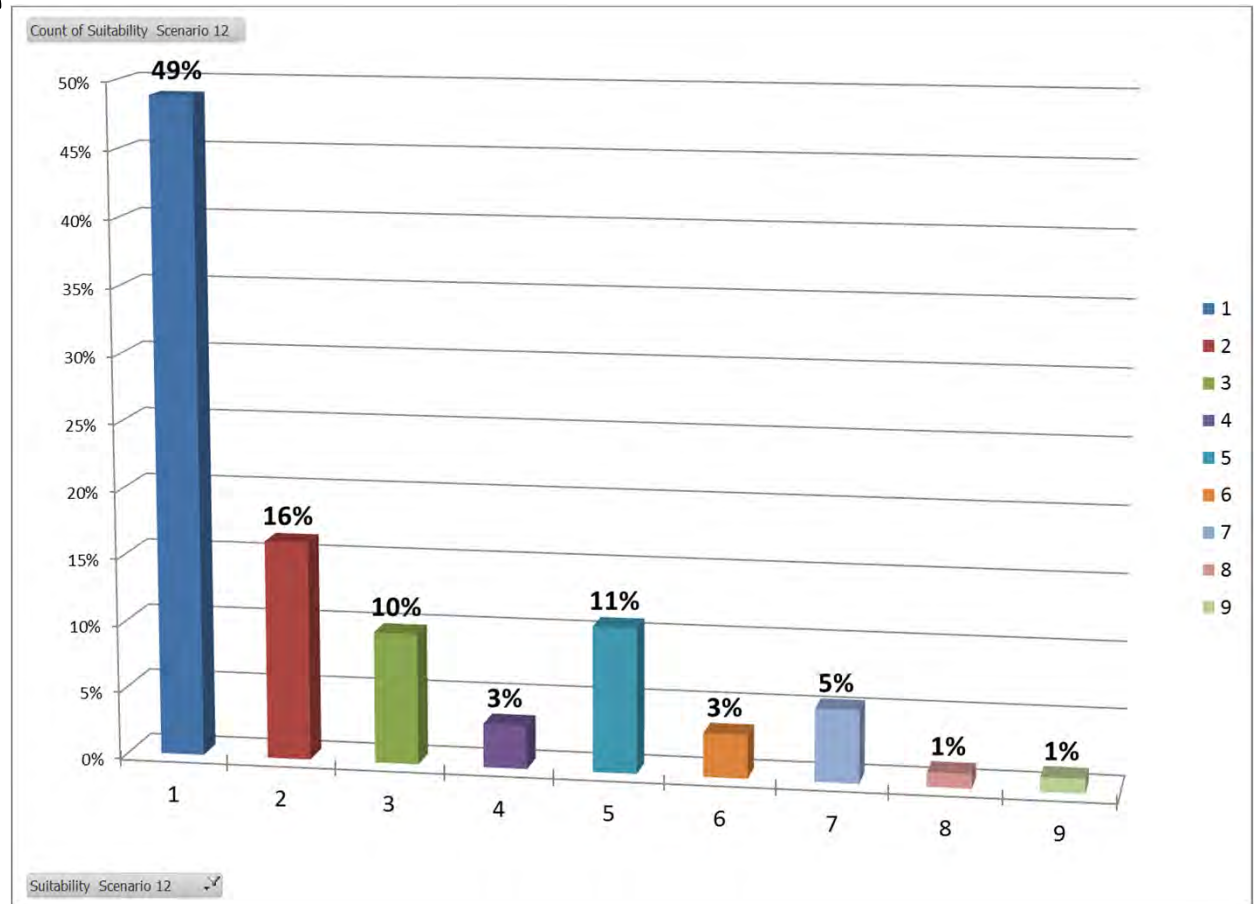
NOTE: Rec facilities shown in the same location for consistency. Actual location can vary!

* All Plant Decommissioning Waste kept onsite in WDA

* Some existing Burial Grounds sealed and left in place, the rest put in WDA.

Suitability Scenario 12

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.05

Mean = 2.54



Scenario 11

* Plant Site sealed,
fenced, access
restricted

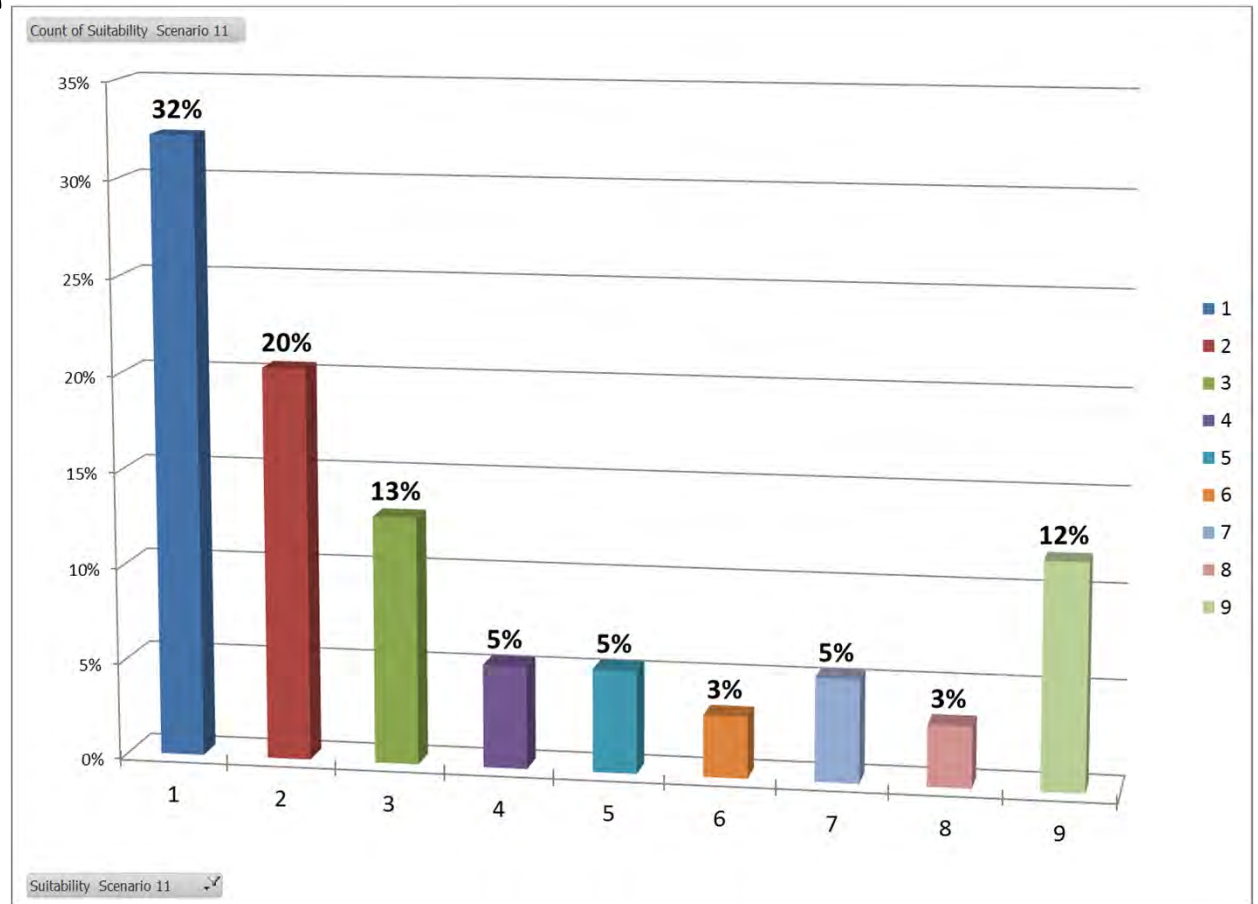
* PGDP WMA
Remains

* All Plant
Decommissioning
Waste Removed
from Site.

* All existing
Burial Grounds
excavated and
shipped off-site.

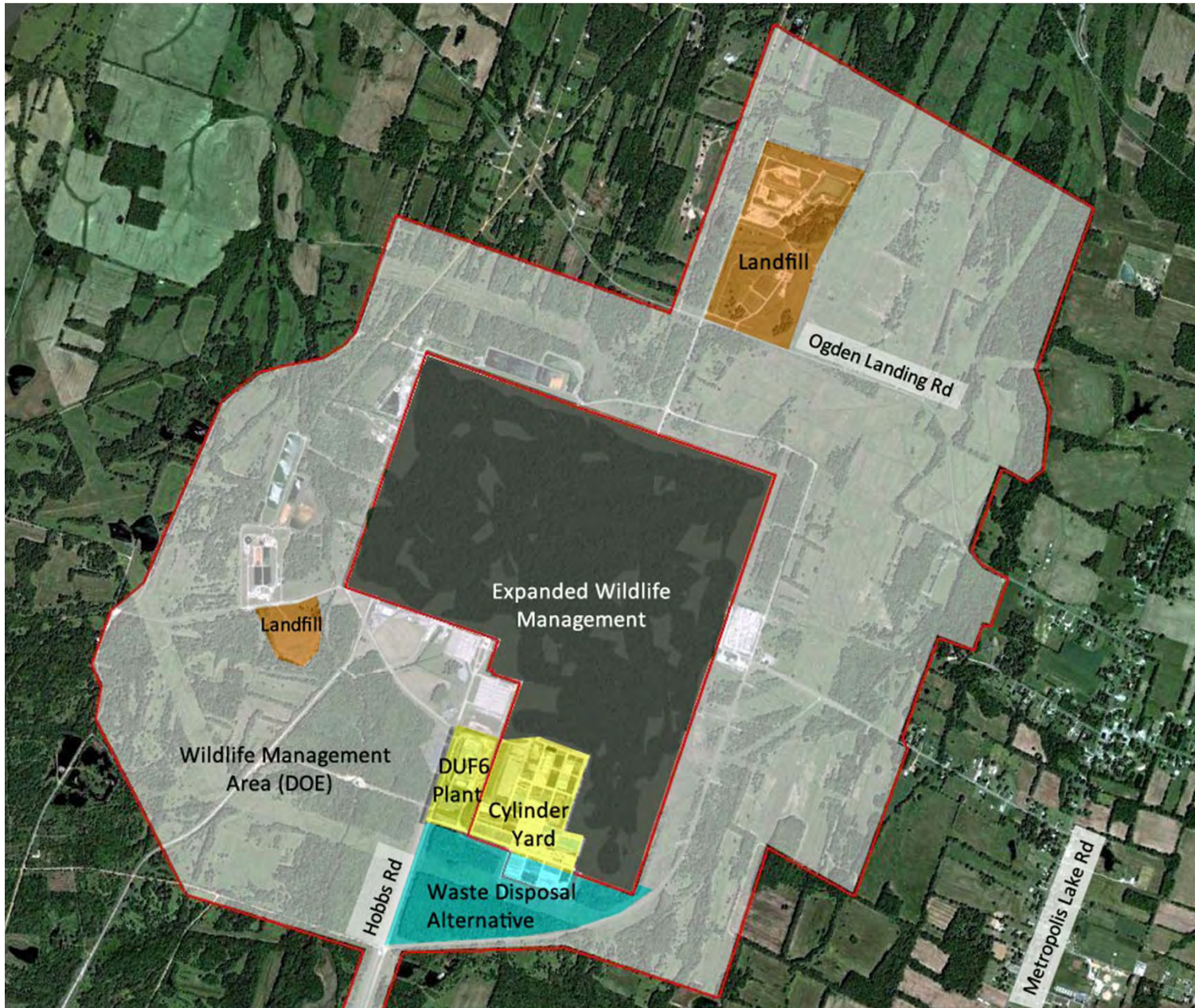
Suitability Scenario 11

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.78

Mean = 3.49

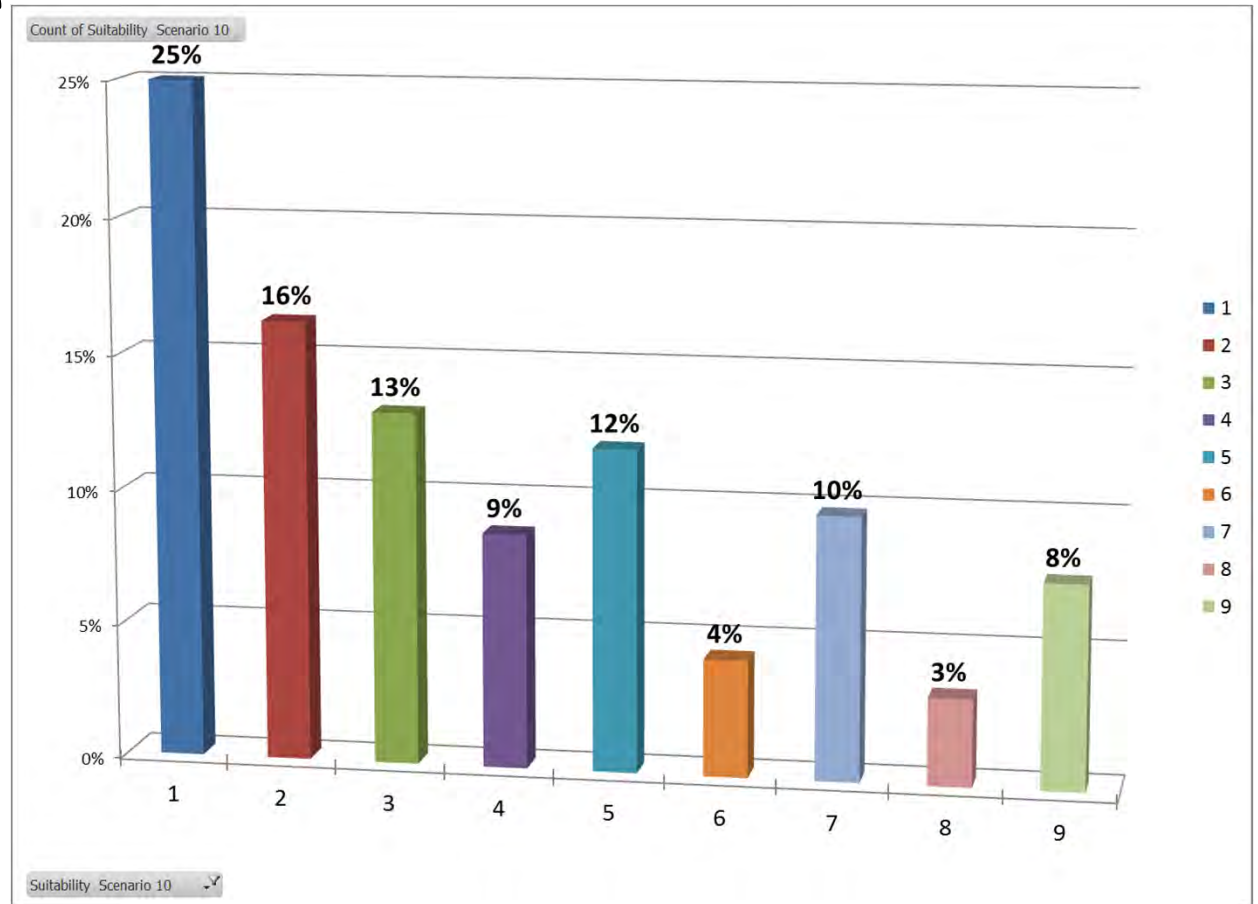


Scenario 10

- * Expanded Wildlife Management on Plant Site
- * PGDP WMA Remains
- * Part of Plant Decommissioning Waste kept onsite in WDA and part placed in DOE managed landfill
- * All existing Burial Grounds excavated - some placed in WDA and the rest shipped off-site.

Suitability Scenario 10

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.57

Mean = 3.80

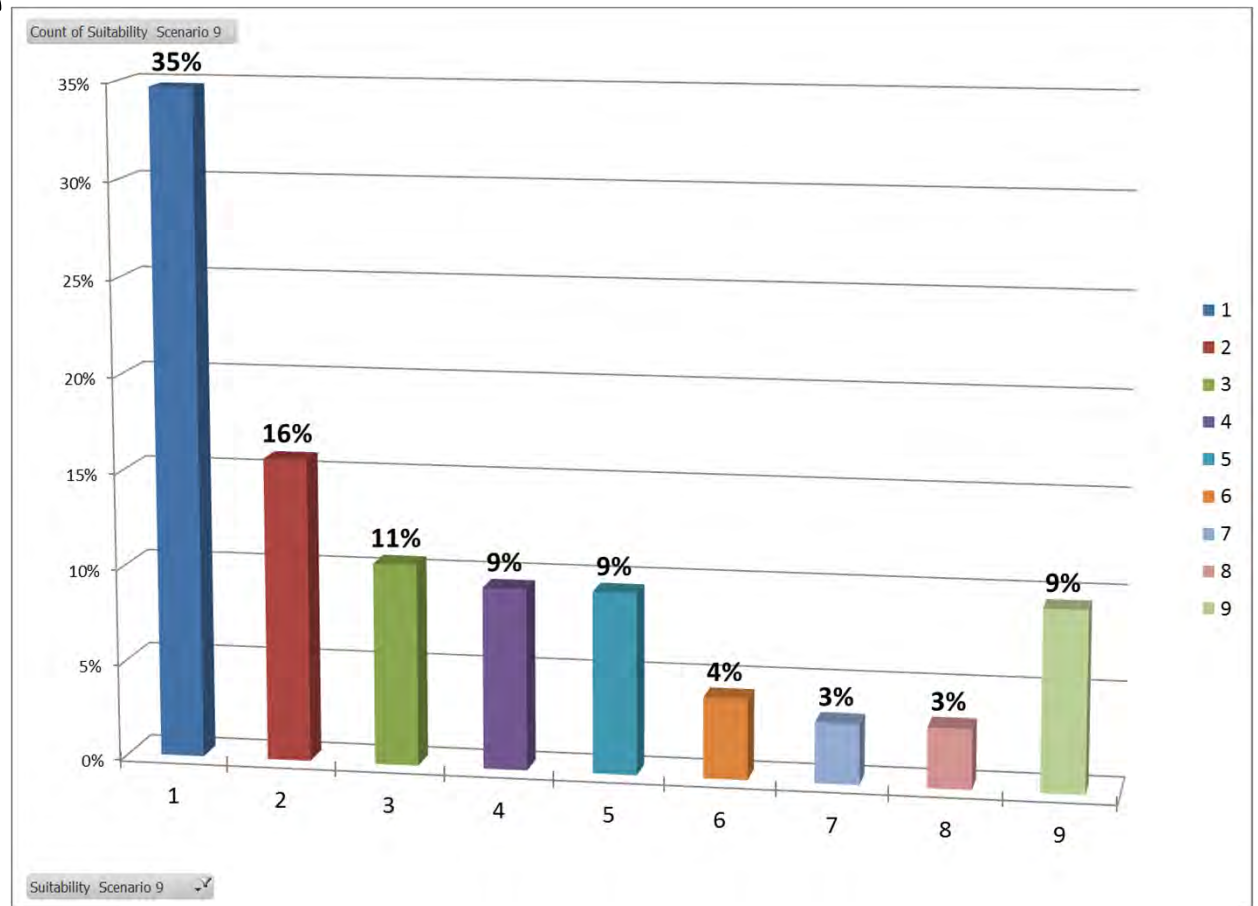


Scenario 9

- *Expanded Wildlife Management on Plant Site
- * Recreational Facilities added to PGDP WMA
- * All Plant Decommissioning Waste Removed from Site.
- * Some existing Burial Grounds sealed and left in place, the rest excavated and shipped off-site.

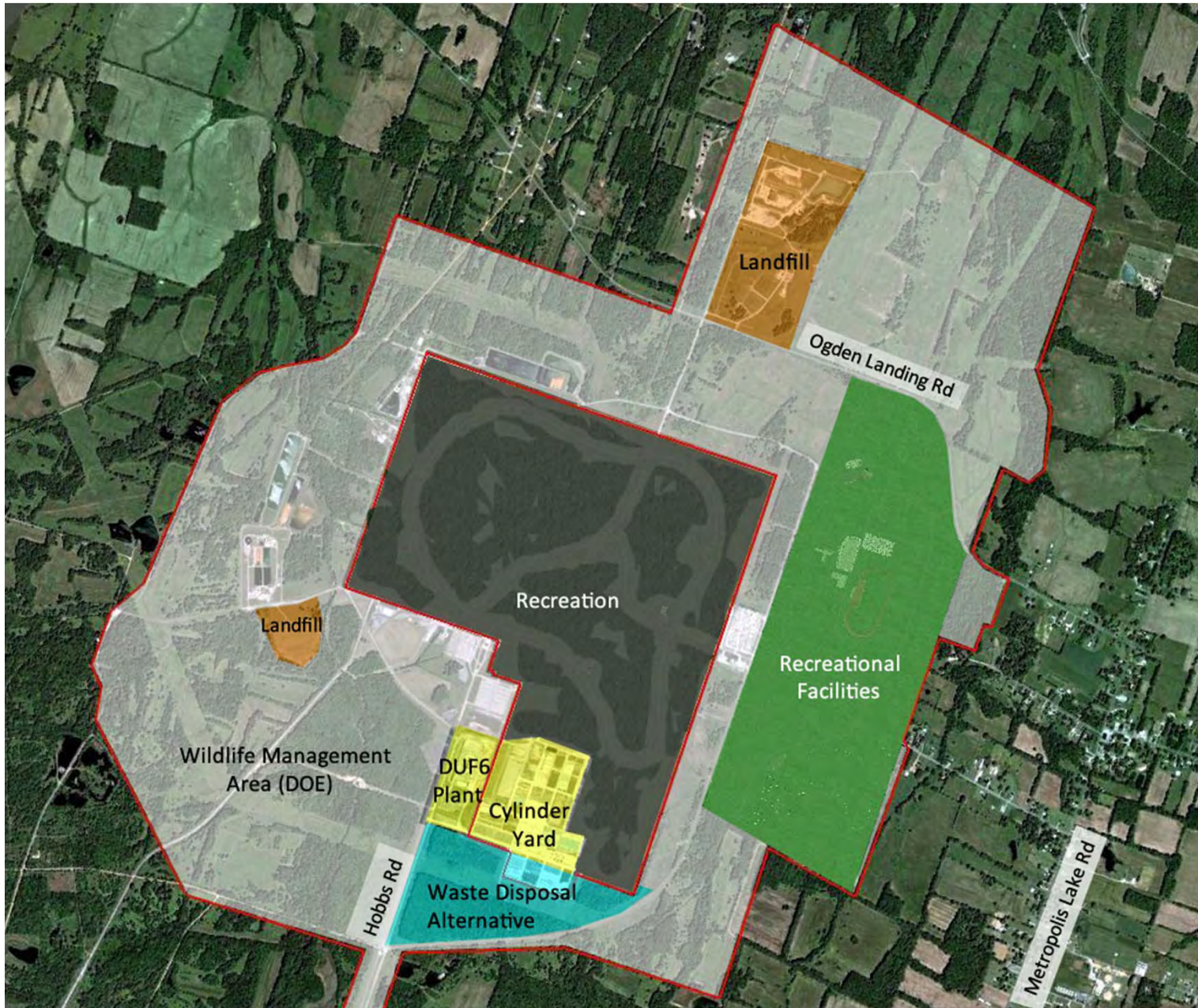
Suitability Scenario 9

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.63

Mean = 3.41



Scenario 8

- * Passive Recreational Facilities on Plant Site
- * Active Recreational Facilities added to PGDP WMA
- * All Plant Decommissioning Waste kept onsite in WDA
- * All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.

Suitability Scenario 8

1. Least suitable

2. ...

3. ...

4. ...

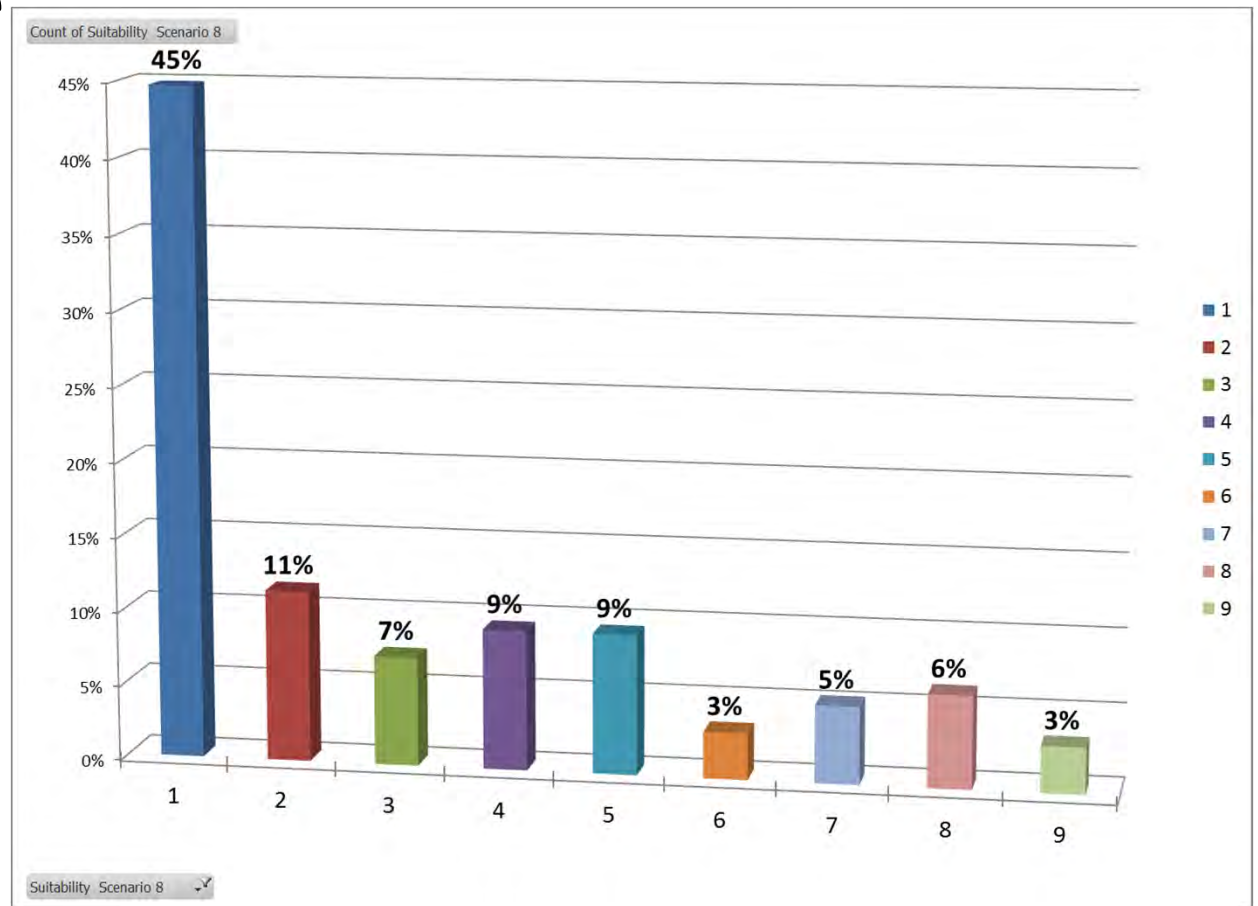
5. ...

6. ...

7. ...

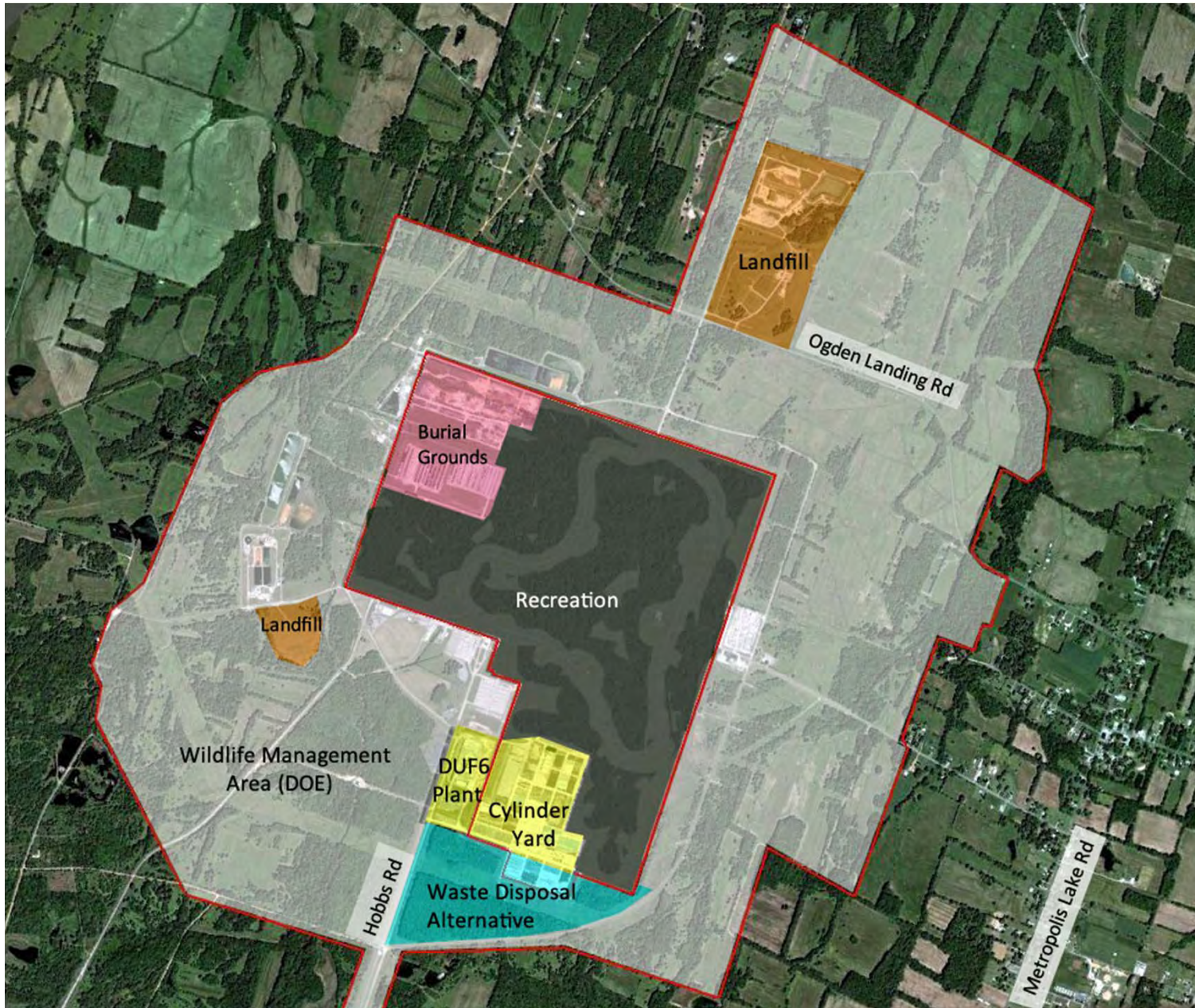
8. ...

9. Most suitable



StdDev = 2.48

Mean = 3.07



Scenario 7

***Passive
Recreational
Facilities on Plant
Site**

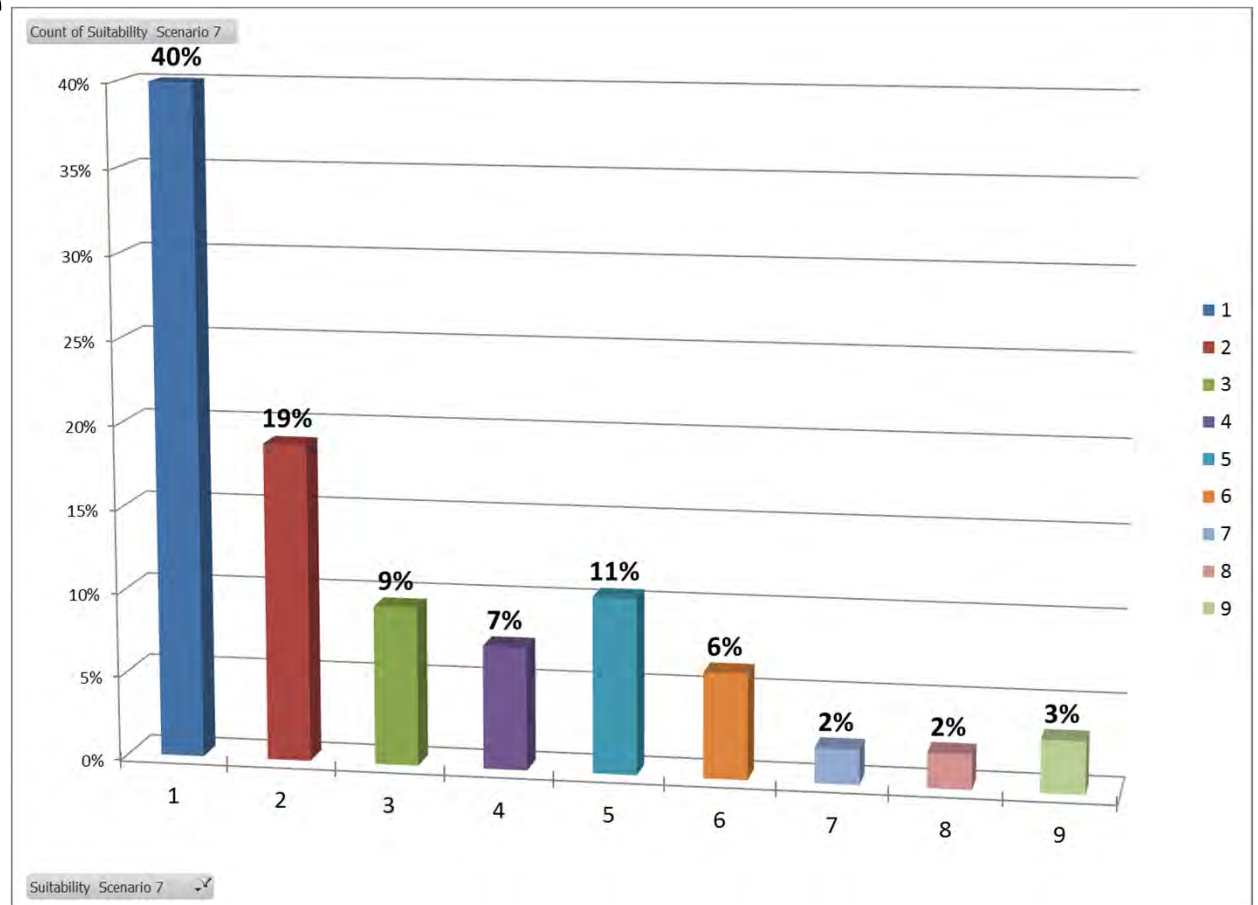
*** PGDP WMA
Remains**

***Part of Plant
Decommissioning
Waste kept
onsite in WDA
and part placed
in DOE managed
Landfill**

*** Some existing
Burial Grounds
sealed and left in
place, the rest
put in WDA.**

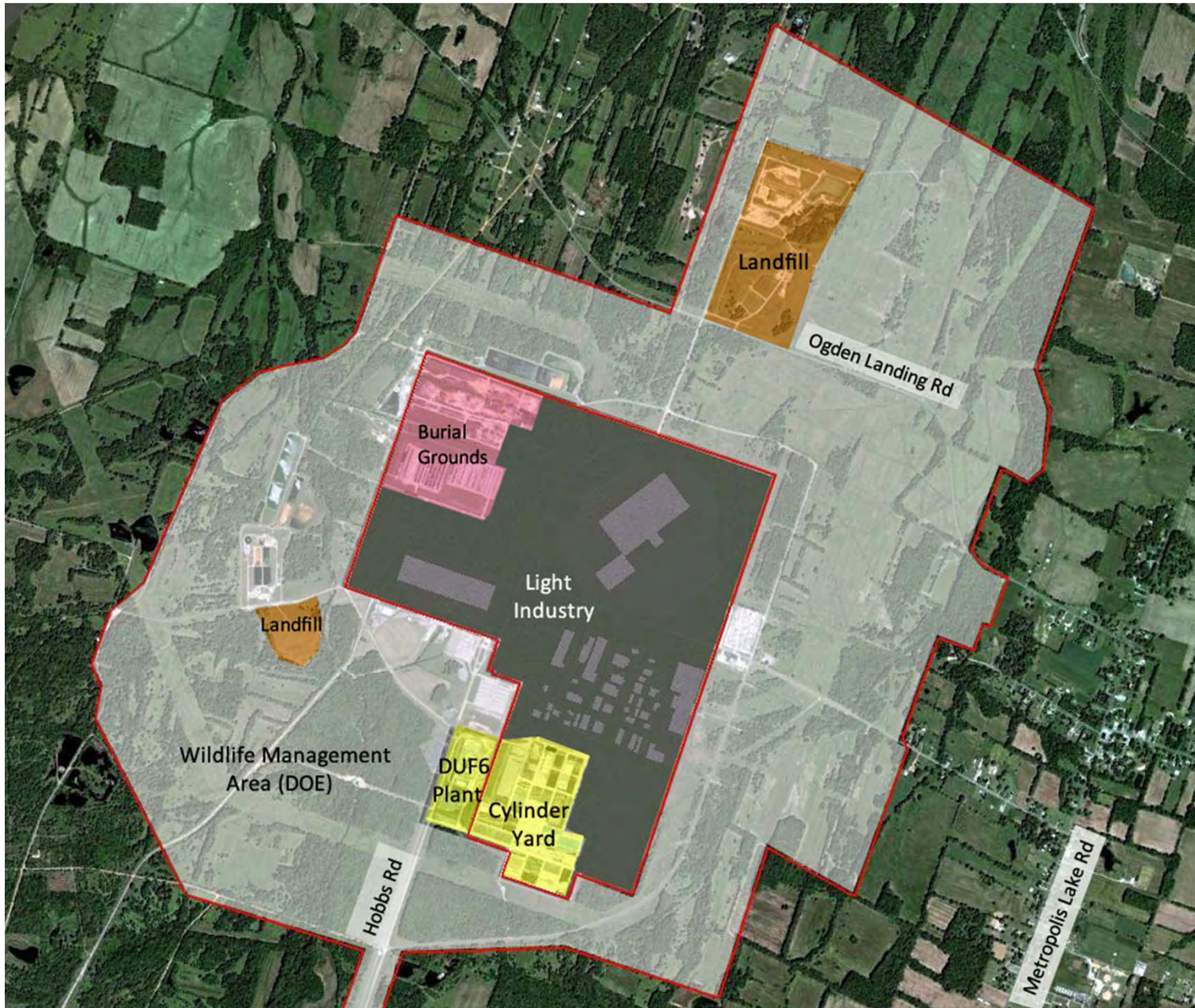
Suitability Scenario 7

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.20

Mean = 2.86

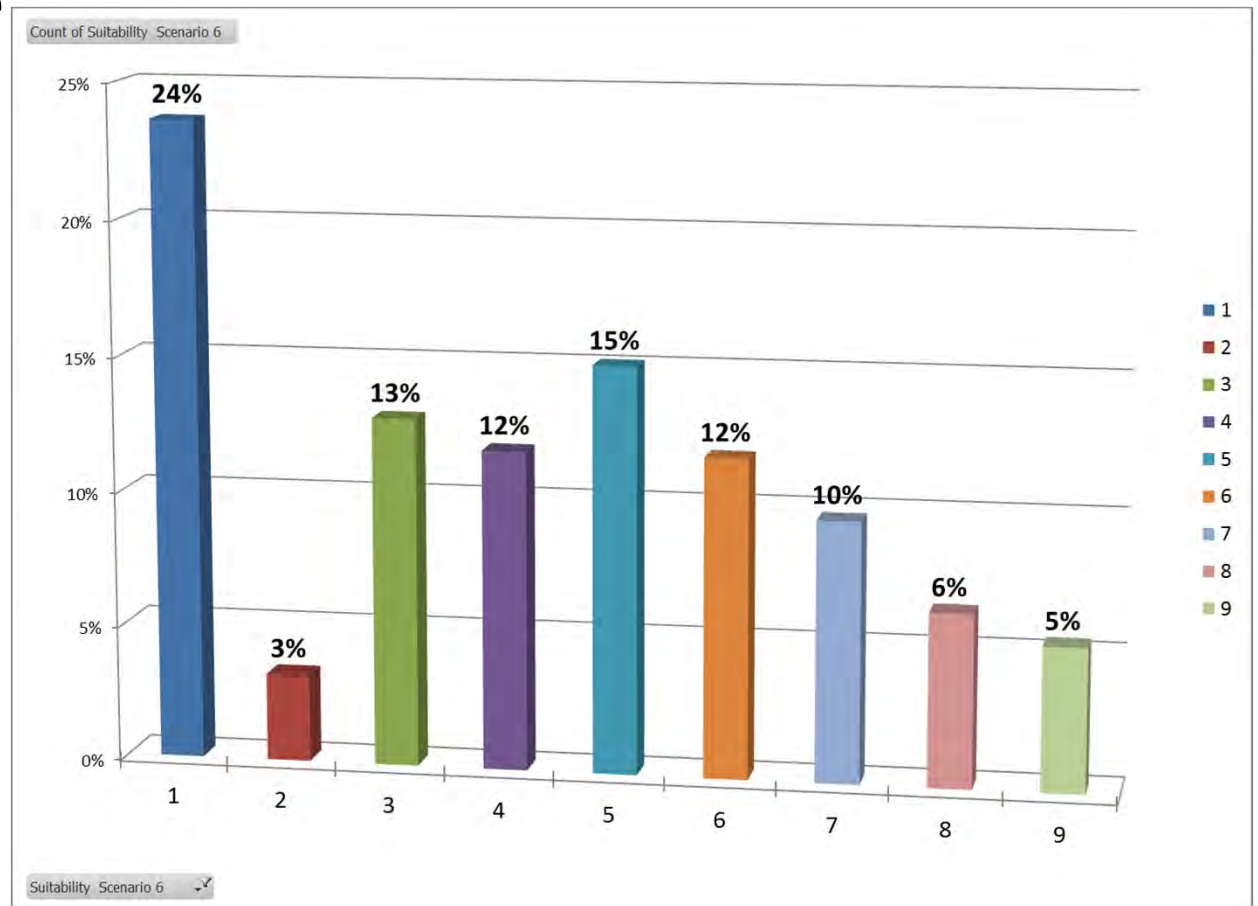


Scenario 6

- * Light Industry on Plant Site
- * PGDP WMA Remains
- * All Plant Decommissioning Waste Removed from Site.
- * Some existing Burial Grounds sealed and left in place, the rest are excavated and shipped off-site

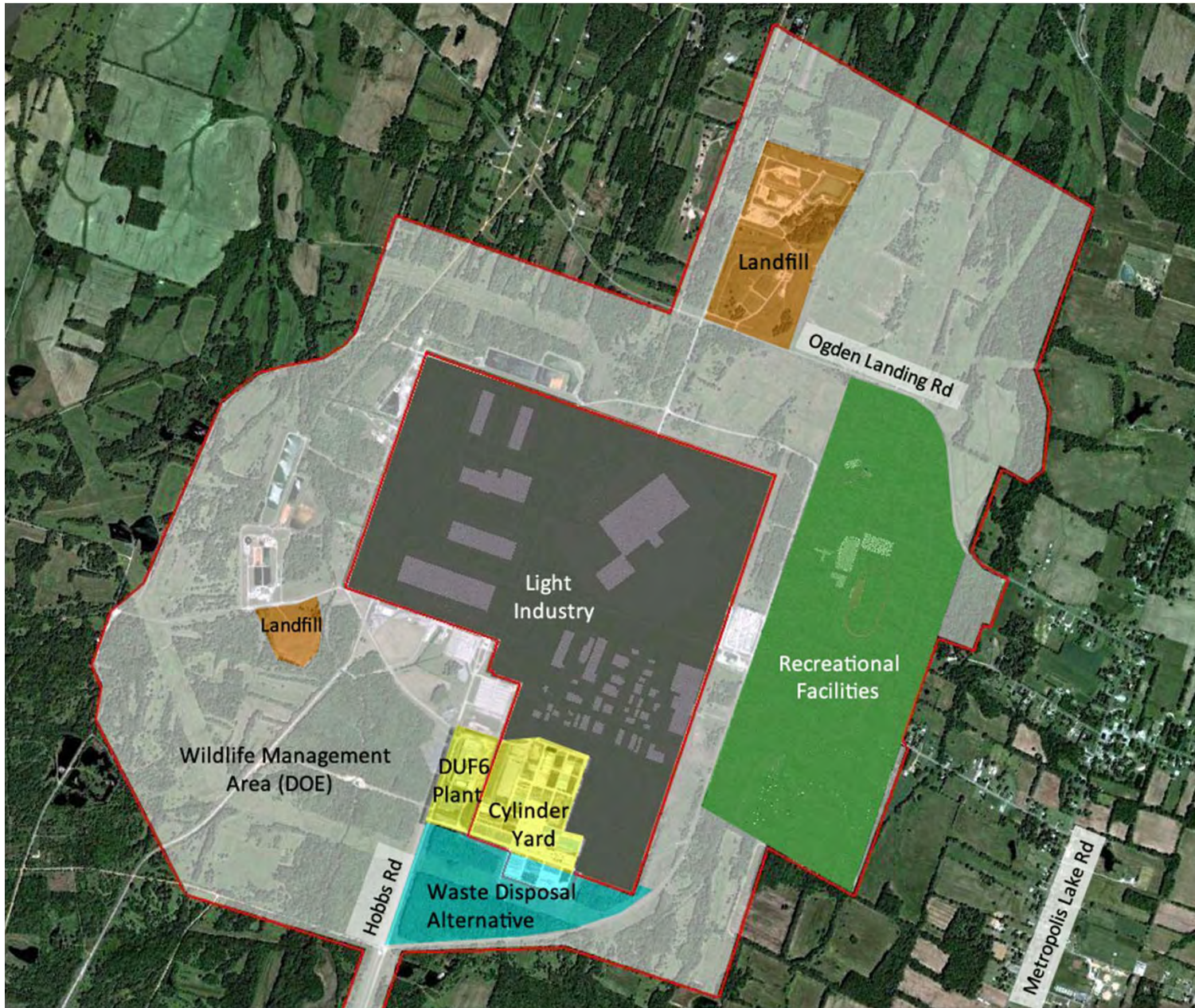
Suitability Scenario 6

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.48

Mean = 4.30

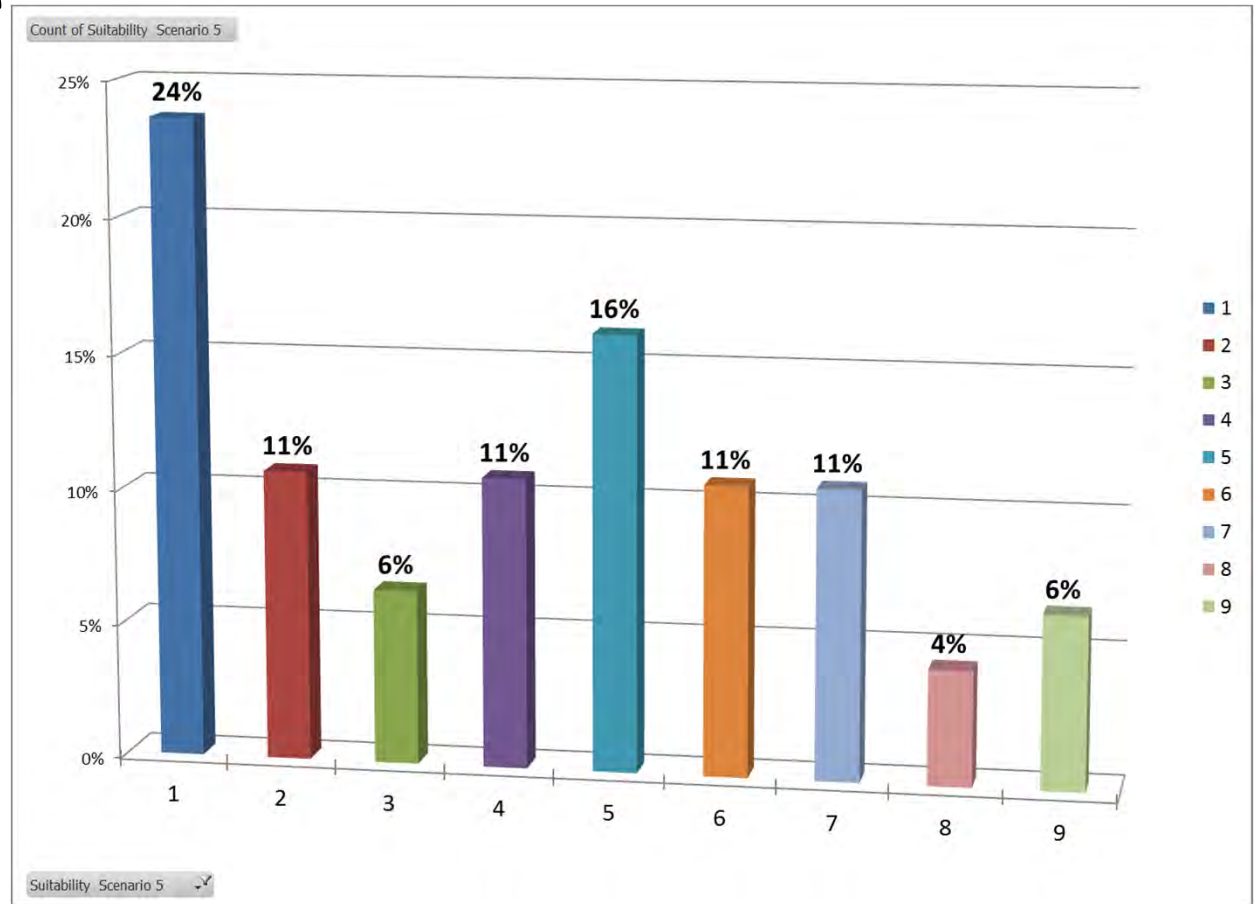


Scenario 5

- * Light Industry on Plant Site
- * Active Recreational Facilities added to PGDP WMA
- * Part of Plant Decommissioning Waste kept onsite in WDA and part placed in managed Landfill
- * All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.

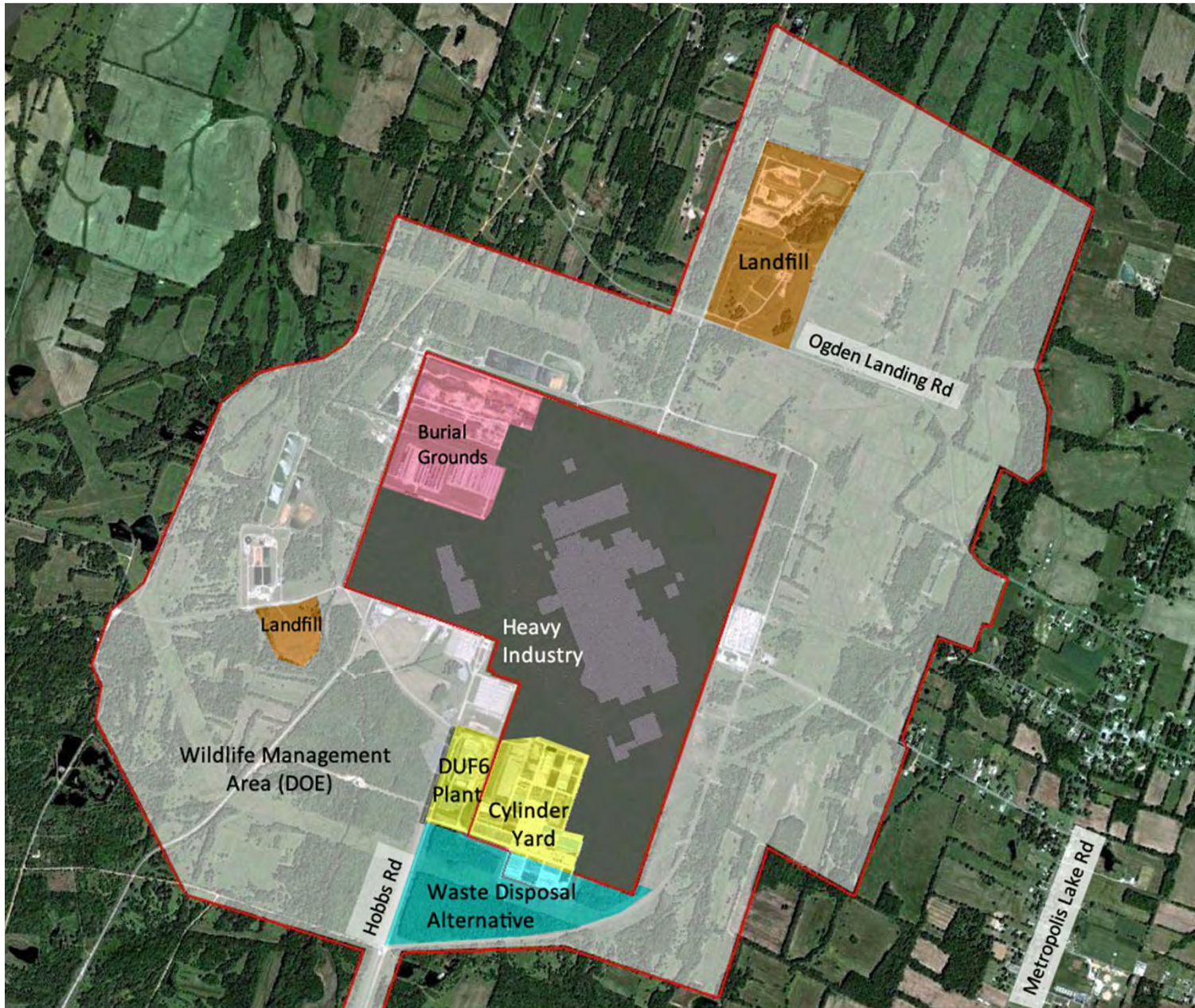
Suitability Scenario 5

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.54

Mean = 4.20

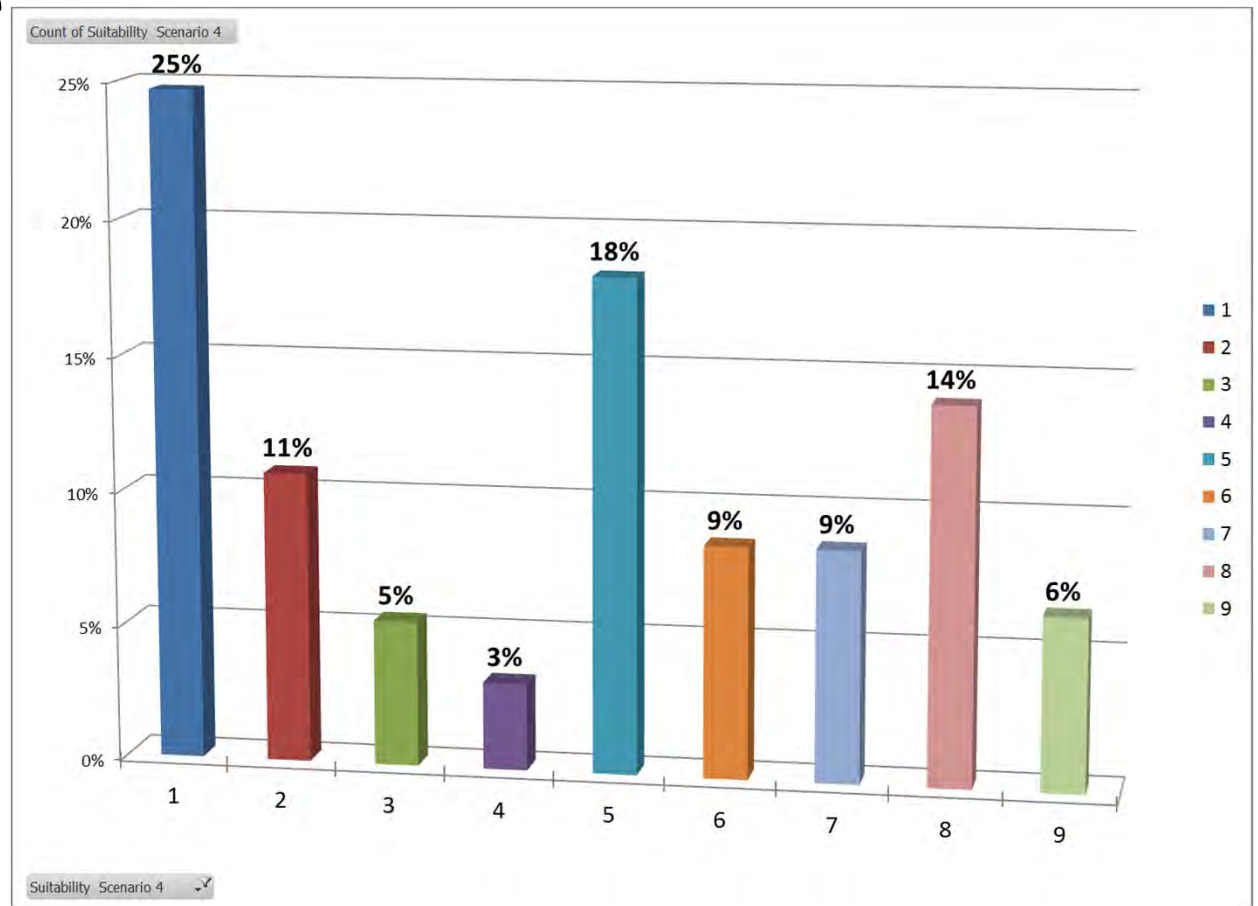


Scenario 4

- * Heavy Industry on Plant Site
- * PGDP WMA Remains
- * All Plant Decommissioning Waste kept onsite in WDA
- * Some existing Burial Grounds sealed and left in place, the rest excavated placed in WDA.

Suitability Scenario 4

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.76

Mean = 4.48



Scenario 3

*Heavy Industry
on Plant Site

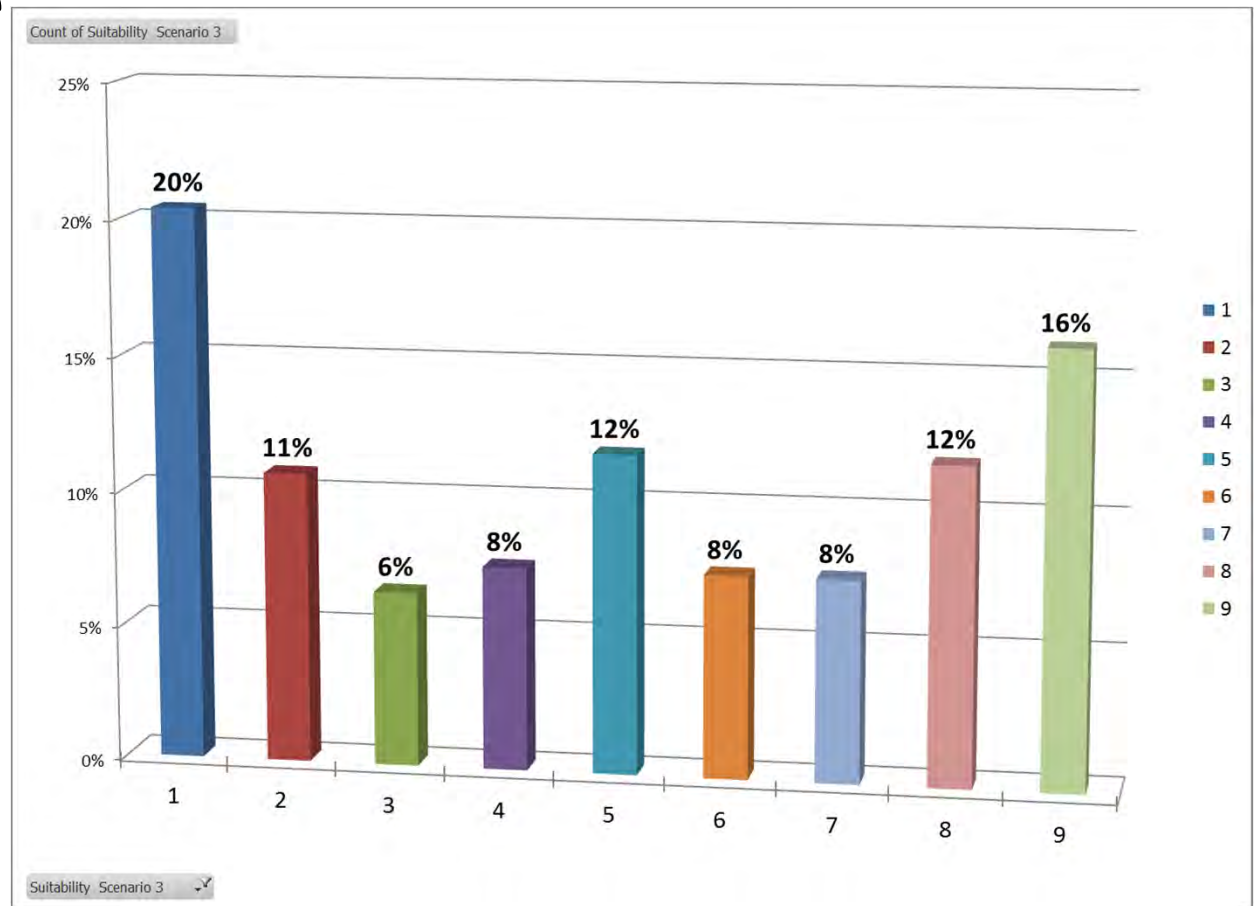
* Active
Recreational
Facilities added
to PGDP WMA

*All Plant
Decommissioning
Waste Removed
from Site

*All Existing
Burial Grounds
excavated and
shipped off-site.

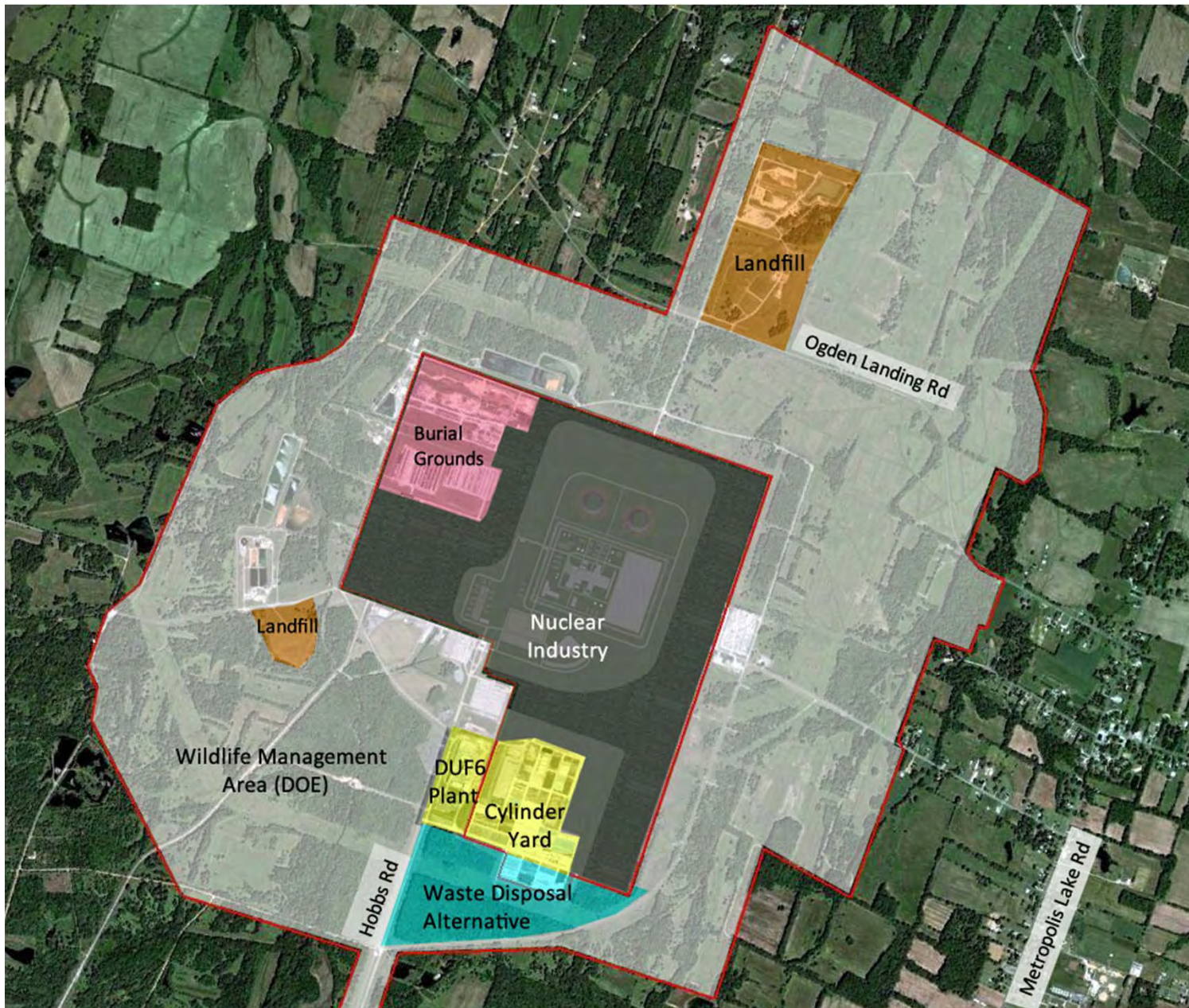
Suitability Scenario 3

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 2.93

Mean = 4.88



Scenario 2

* Nuclear Industry on Plant Site

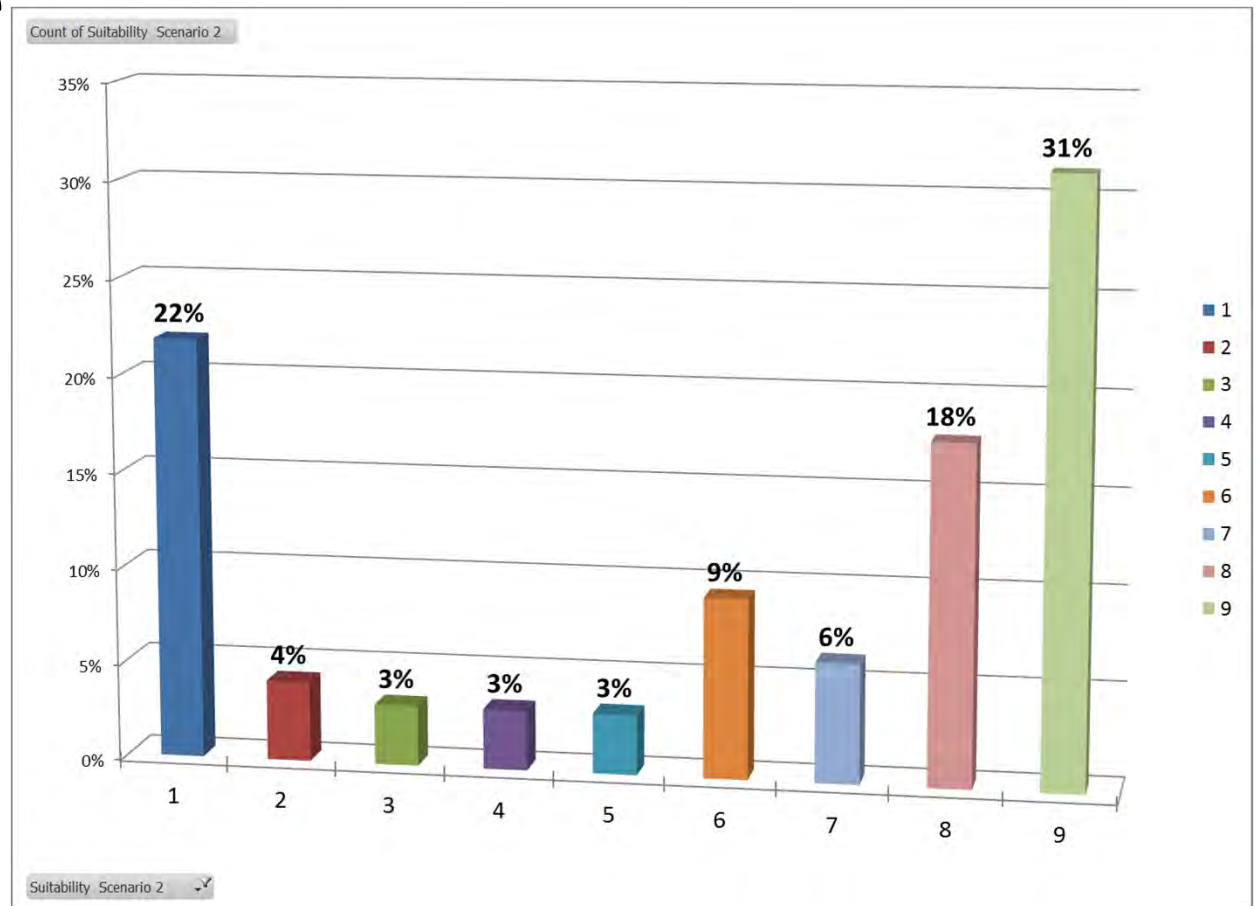
* PGDP WMA Remains

* Part of Plant Decommissioning Waste kept onsite in WDA and part placed in DOE managed Landfill

* Some existing Burial Grounds sealed and left in place, the rest excavated placed in WDA.

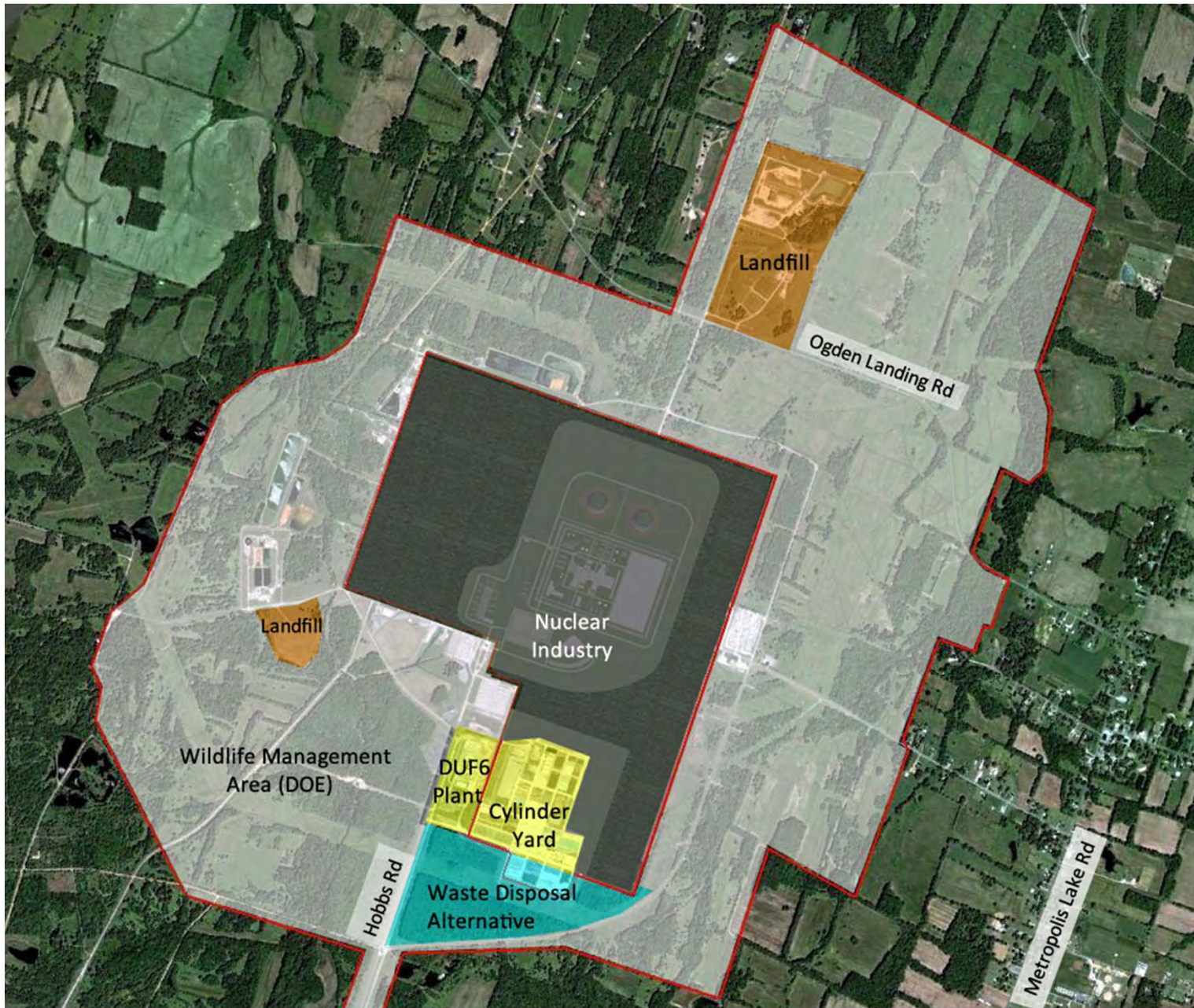
Suitability Scenario 2

1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



StdDev = 3.19

Mean = 5.91



Scenario 1

* Nuclear Industry on Plant Site

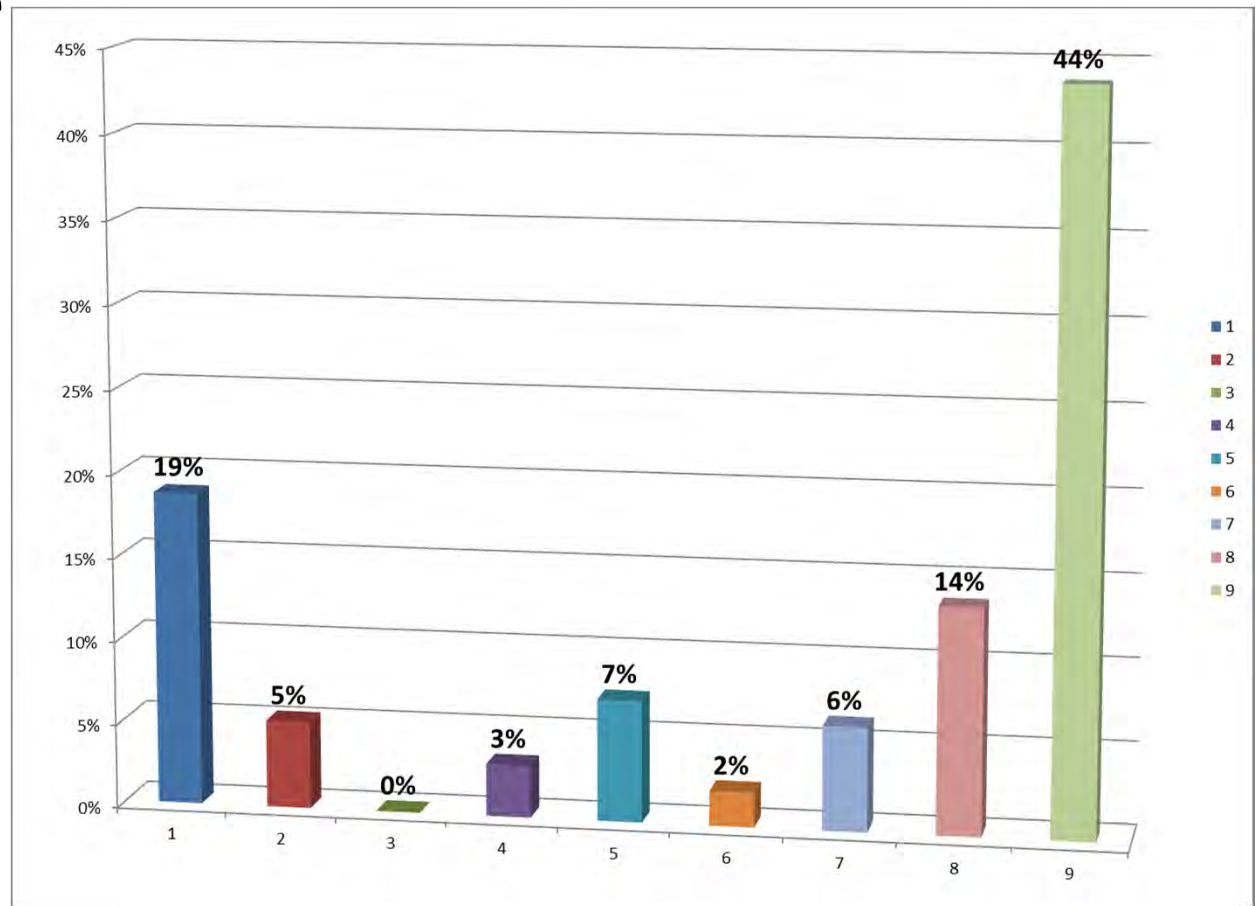
* PGDP WMA Remains

* All Plant Decommissioning Waste kept onsite in WDA

* All Existing Burial Grounds excavated, some placed in the WDA and the rest shipped off-site.

Suitability Scenario 1

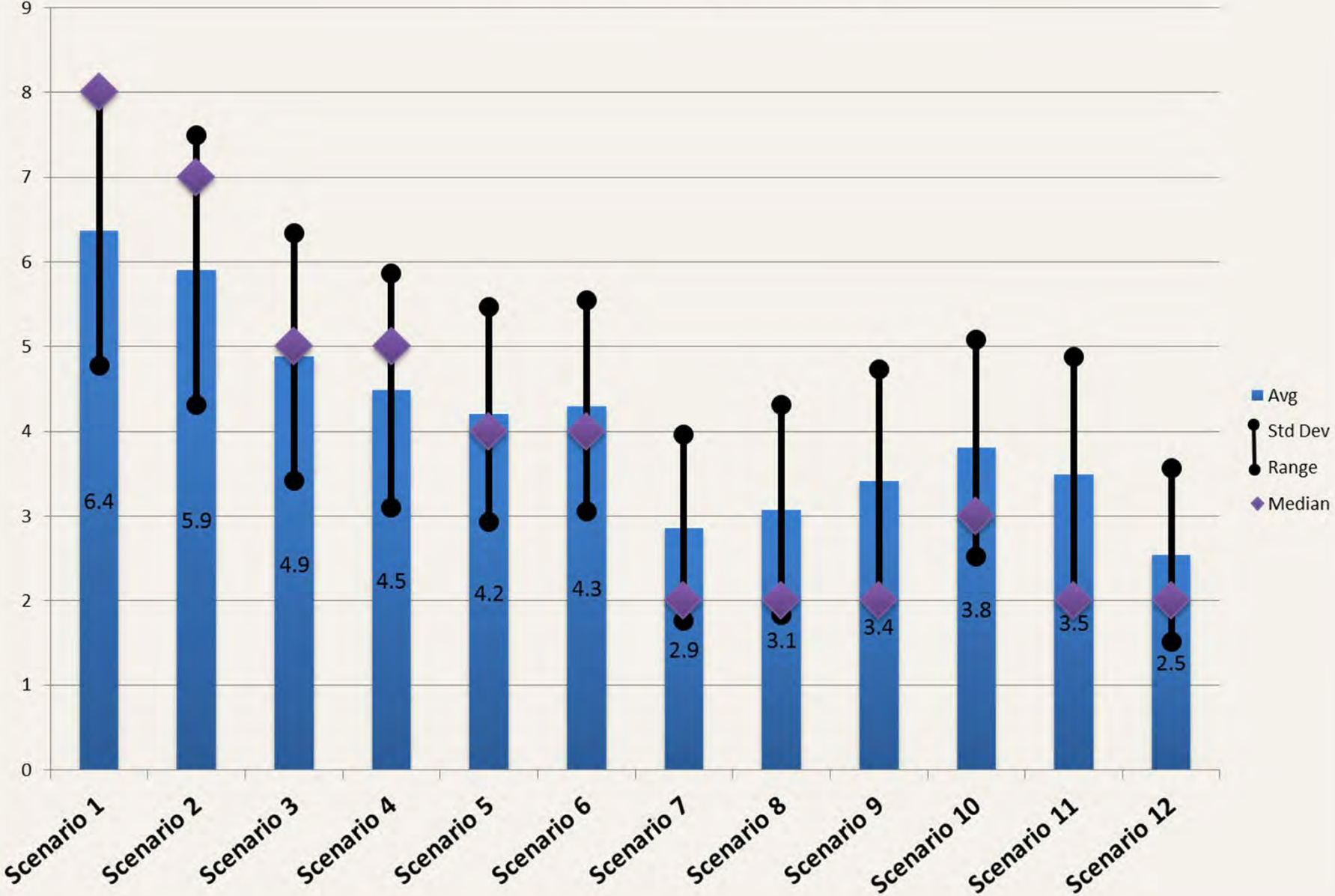
1. Least suitable
2. ...
3. ...
4. ...
5. ...
6. ...
7. ...
8. ...
9. Most suitable



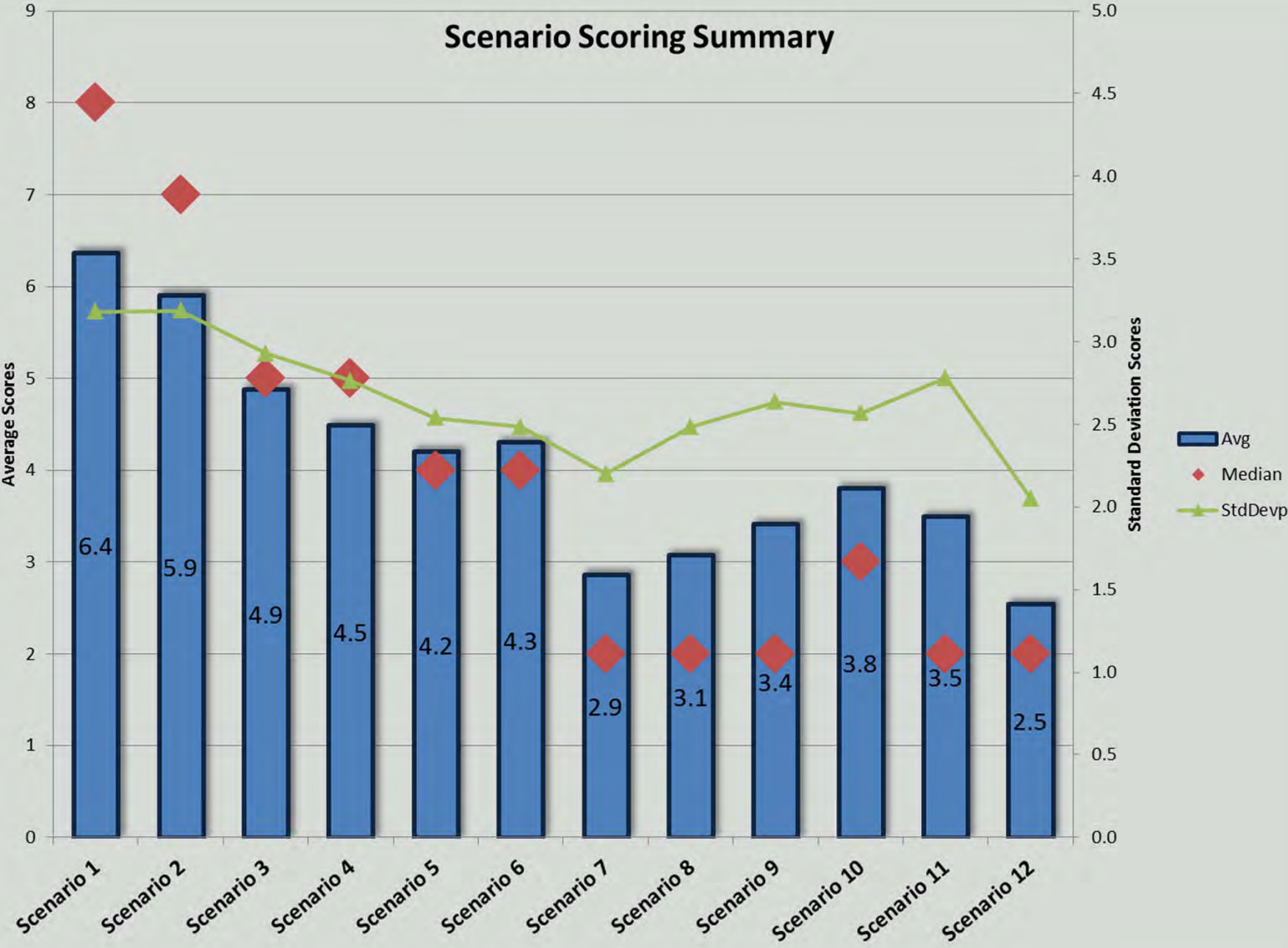
StdDev = 3.18

Mean = 6.36

Scenario Scoring Summary

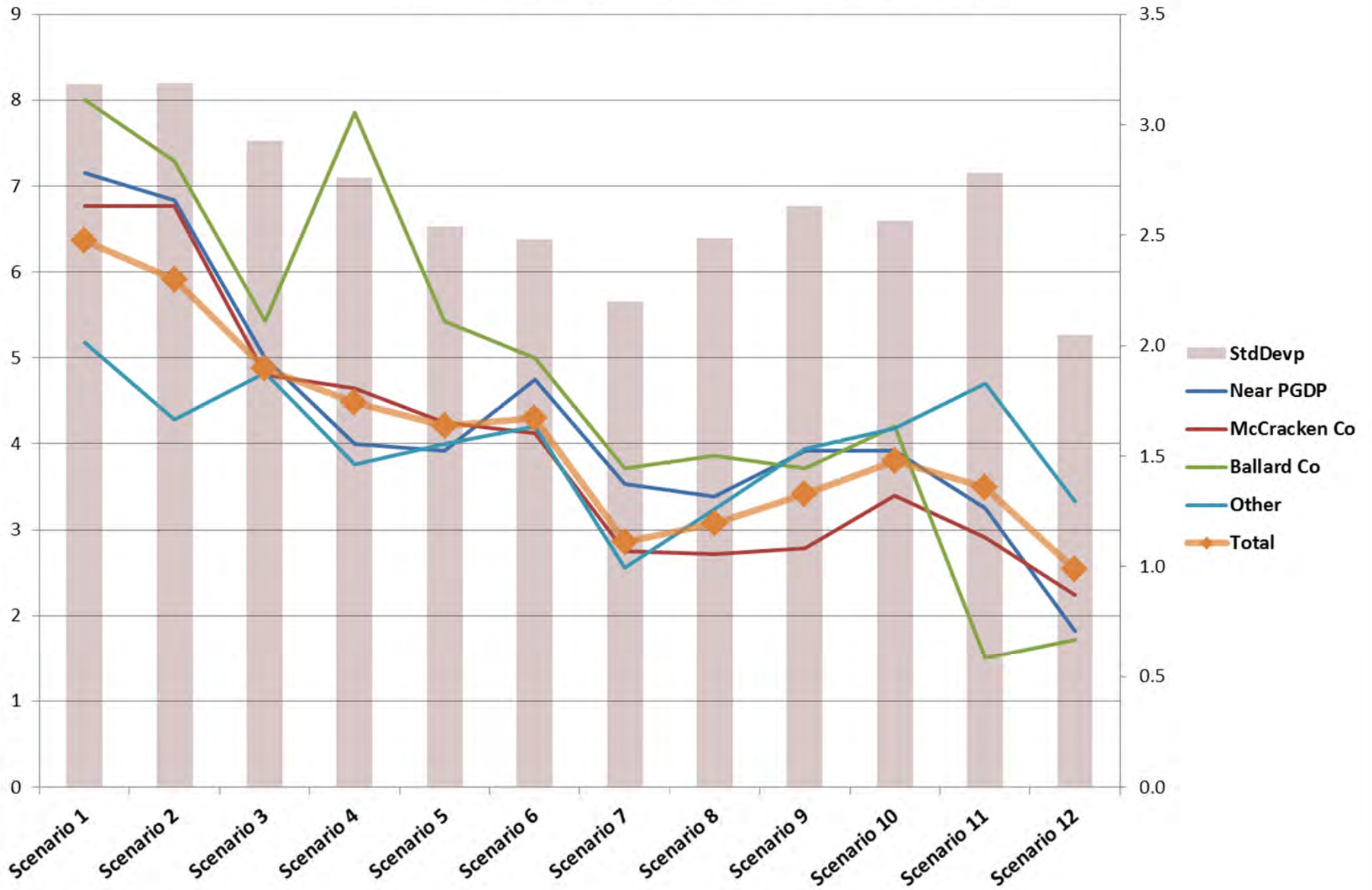


Scenario Scoring Summary



Scenario Scores by "Where do you live?"

Average Scores (Line) with Overall Standard Deviation (Bar)



Please rate your satisfaction with tonight's process?

1. Not satisfied at all

2. ...

3. ...

4. ...

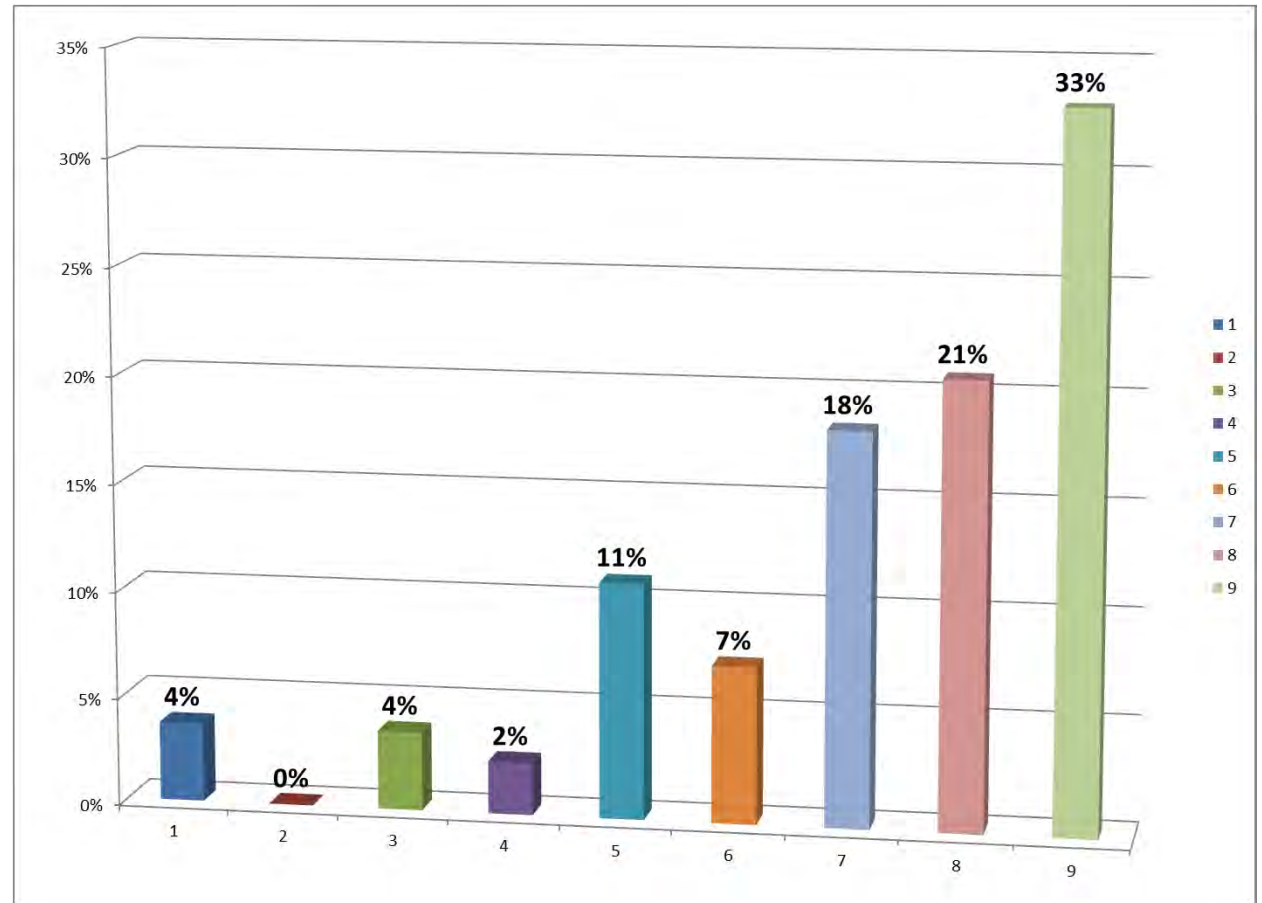
5. ...

6. ...

7. ...

8. ...

9. Extremely satisfied



Mean = 7.13

Bonus Round!

- Talk about specific land uses in more detail
- Have you rate those

Preference

Nuclear Industry - Power Plant

1. Lowest

2. ...

3. ...

4. ...

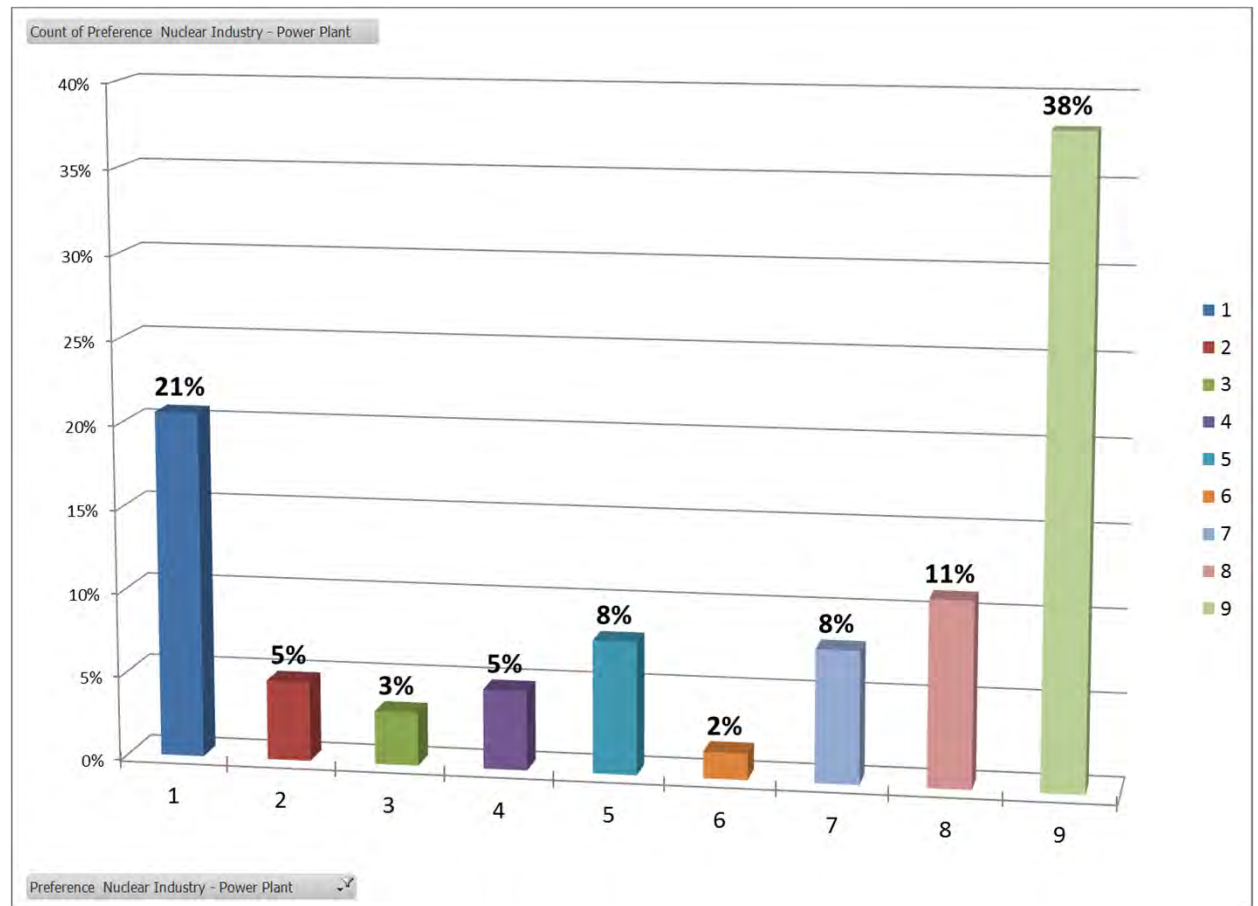
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.23

Mean = 5.95

Preference

Nuclear Industry - Enrichment

1. Lowest

2. ...

3. ...

4. ...

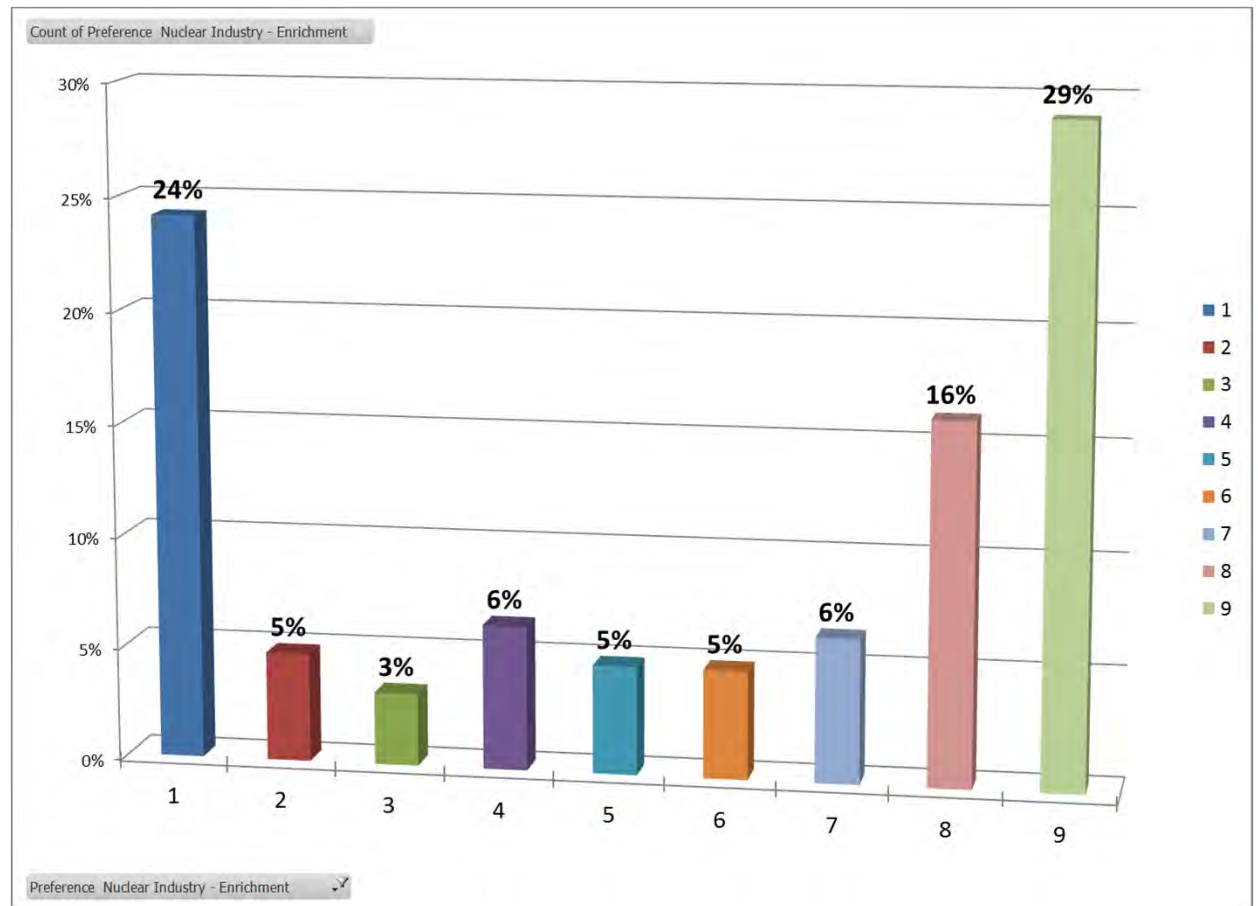
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.25

Mean = 5.58

Preference

Nuclear Industry - Recycling

1. Lowest

2. ...

3. ...

4. ...

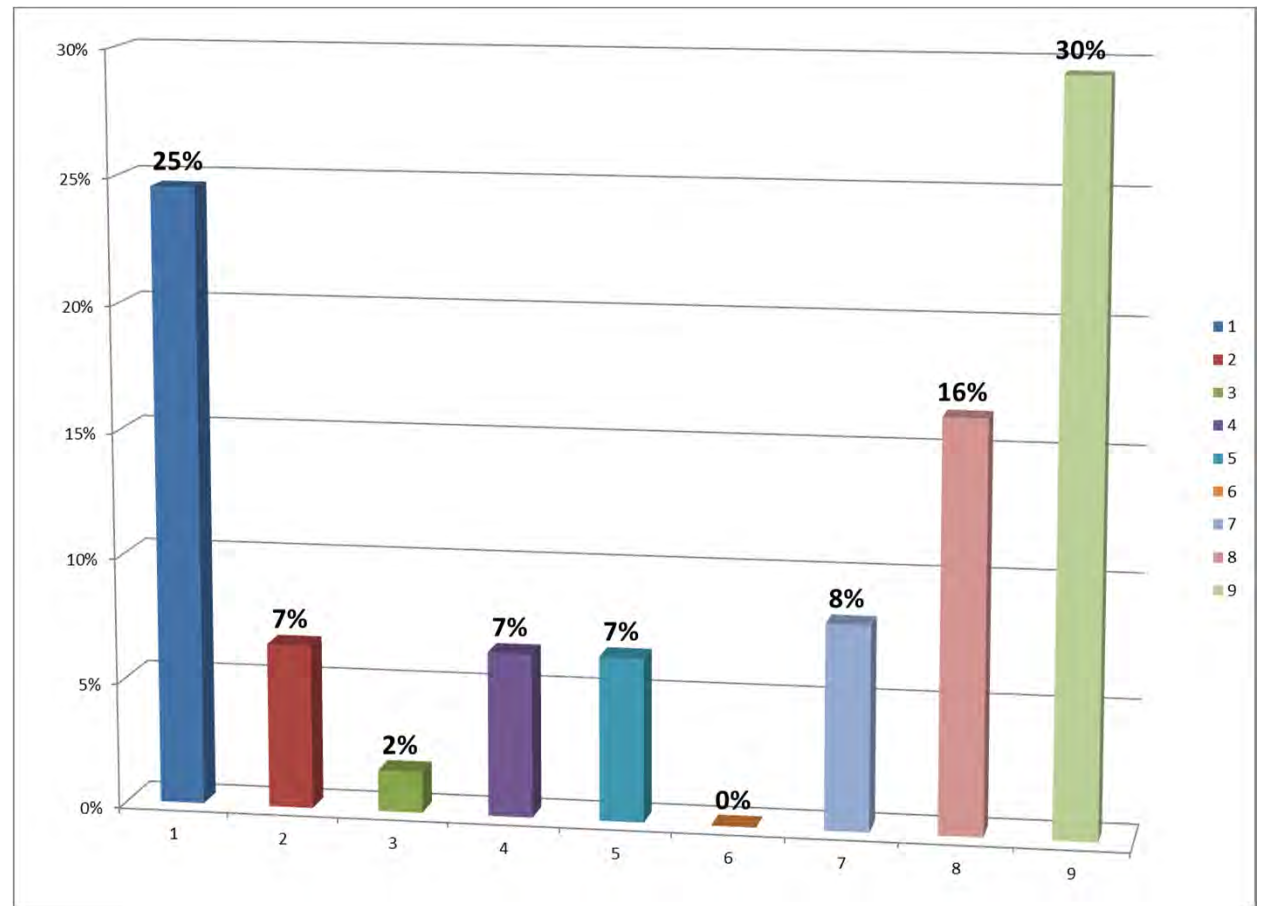
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.30

Mean = 5.56

Preference

Heavy Industry - Auto Manufacturing

1. Lowest

2. ...

3. ...

4. ...

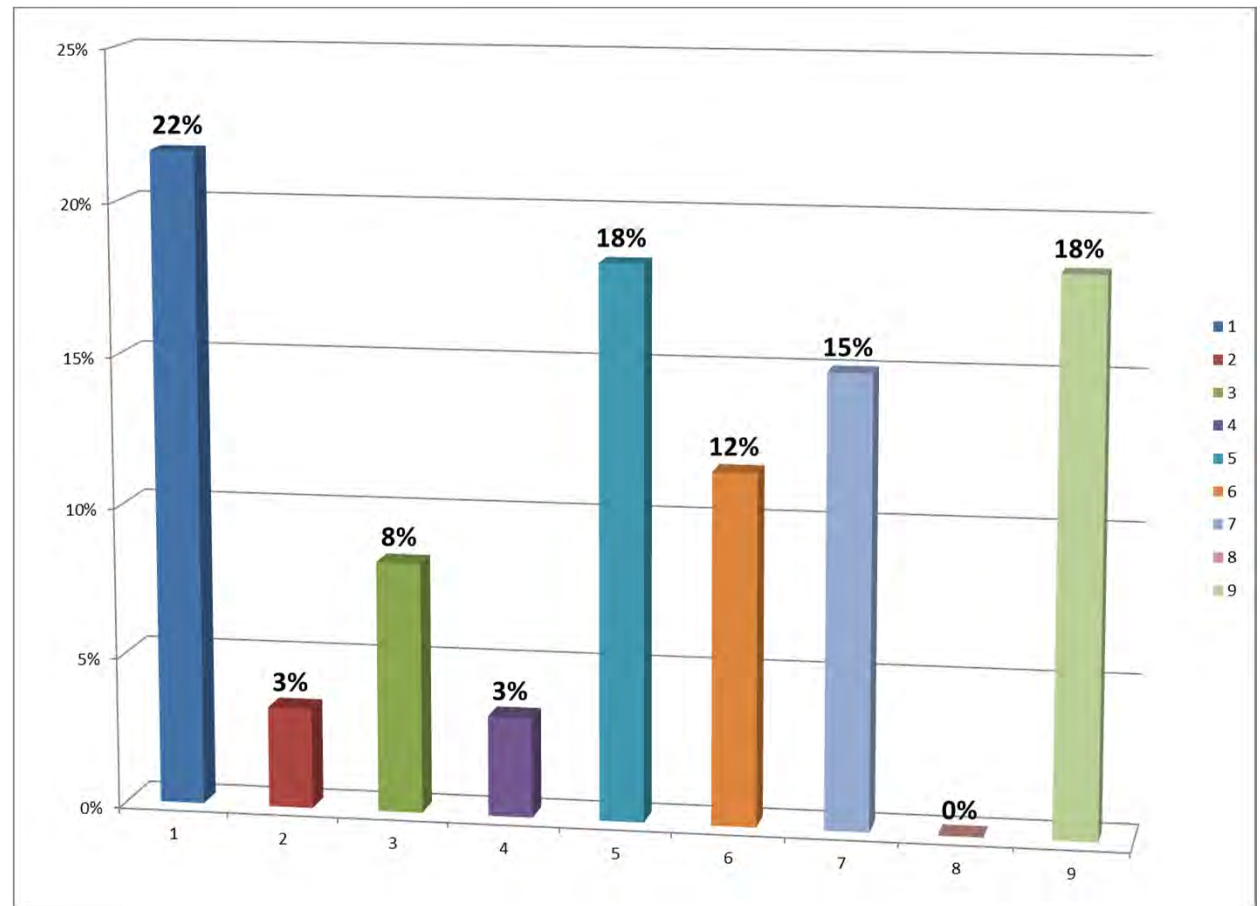
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.79

Mean = 4.98

Preference

Heavy Industry - Coal Liquefaction / Gasification

1. Lowest

2. ...

3. ...

4. ...

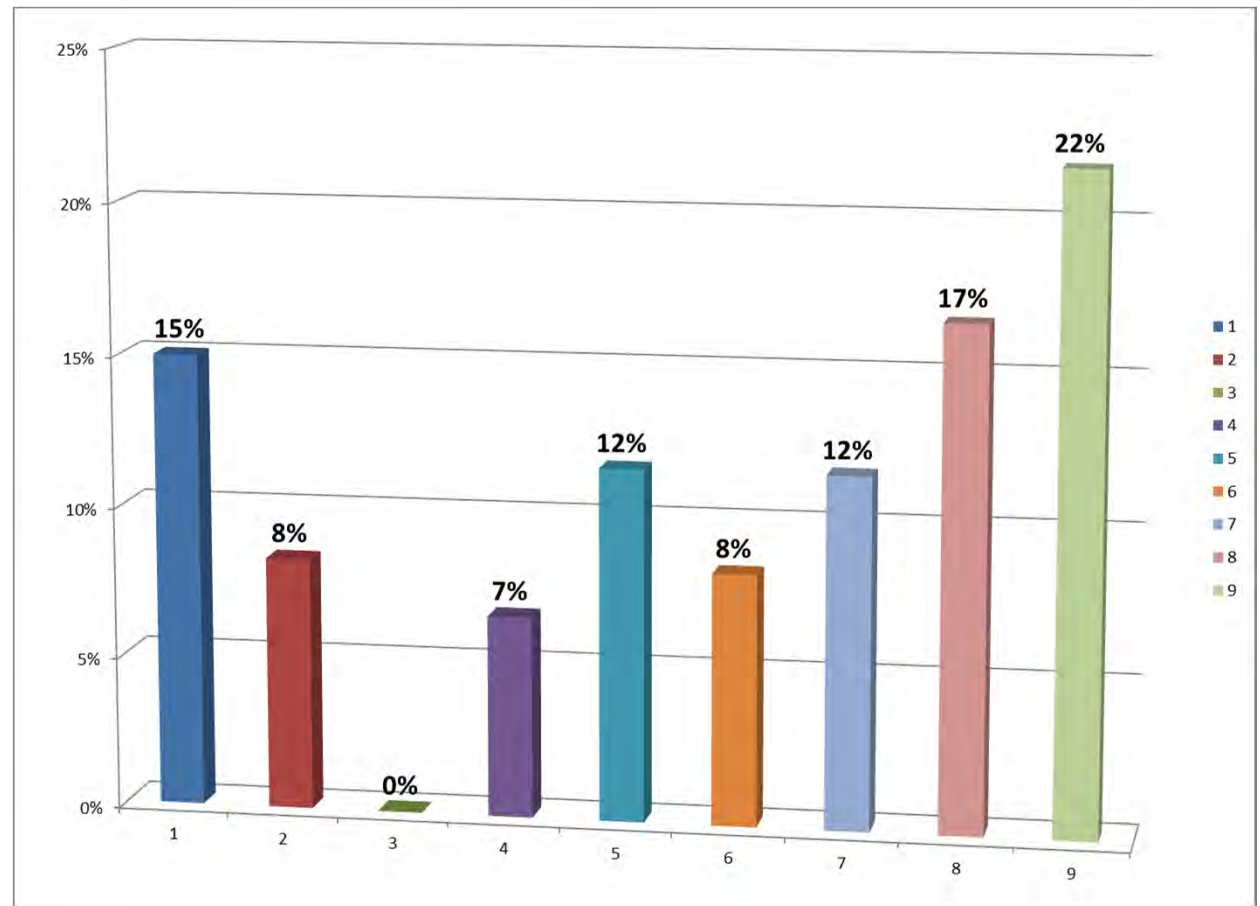
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.85

Mean = 5.77

Preference

Heavy Industry - Steel Plant

1. Lowest

2. ...

3. ...

4. ...

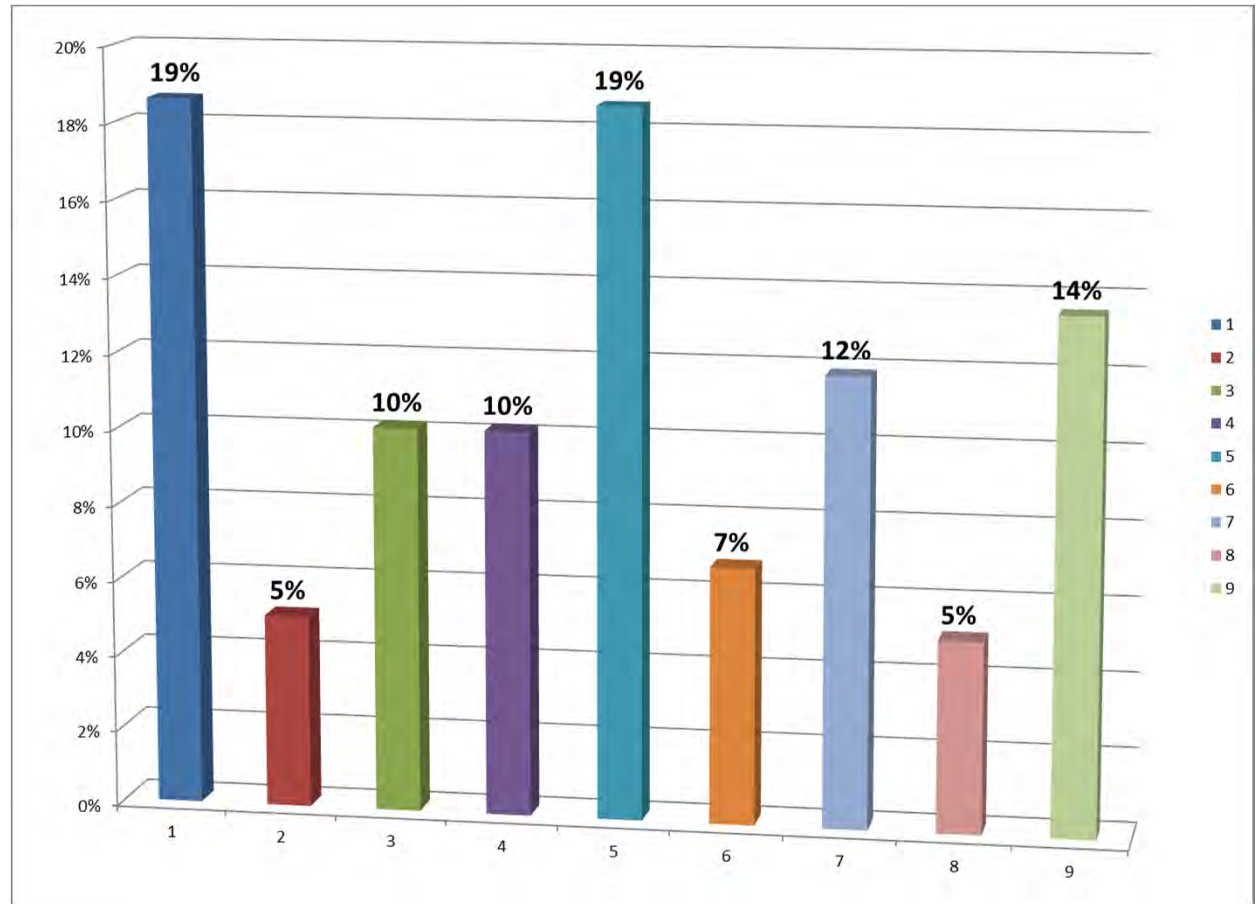
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.66

Mean = 4.80

Preference

Light Industry - Distribution Center

1. Lowest

2. ...

3. ...

4. ...

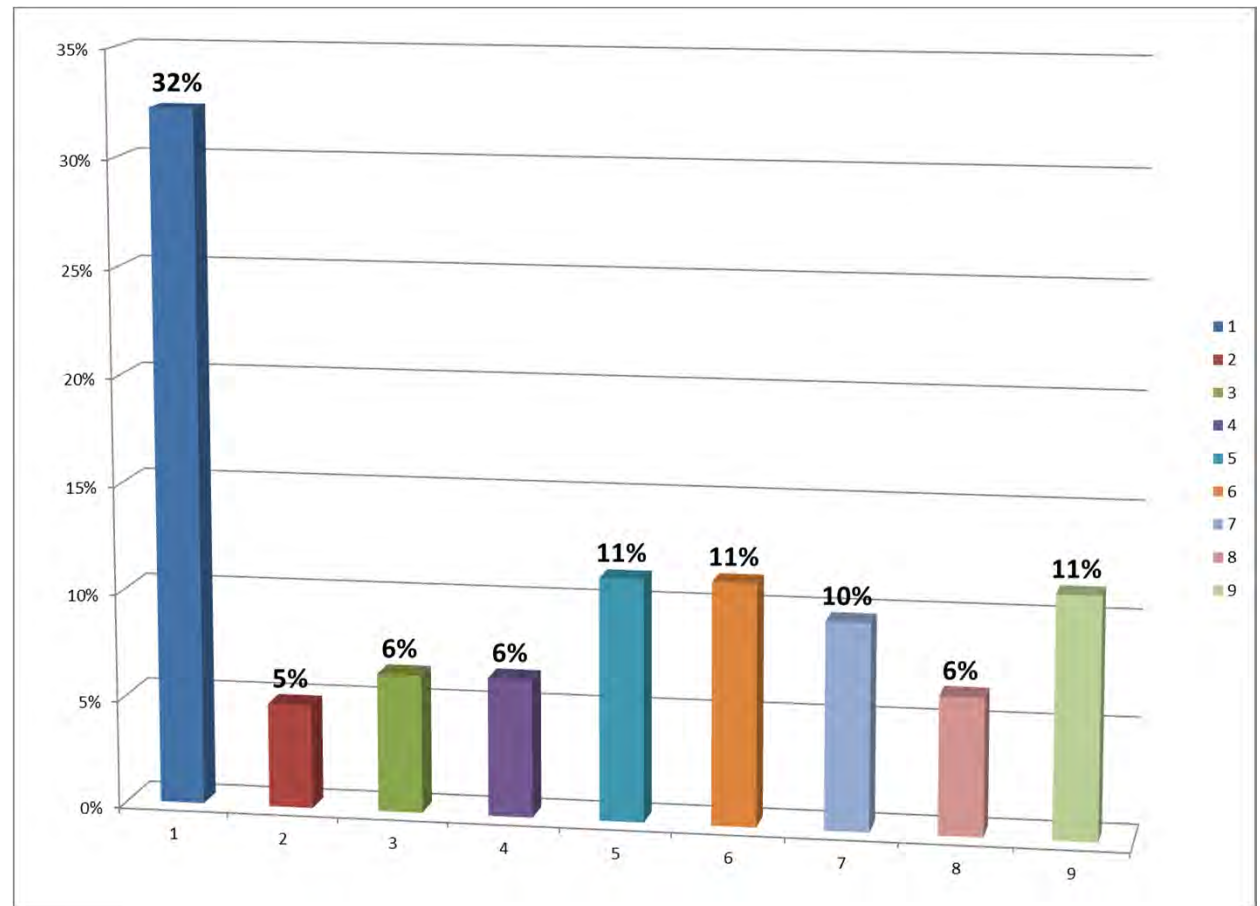
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.89

Mean = 4.32

Preference

Light Industry - Data Server Farm

1. Lowest

2. ...

3. ...

4. ...

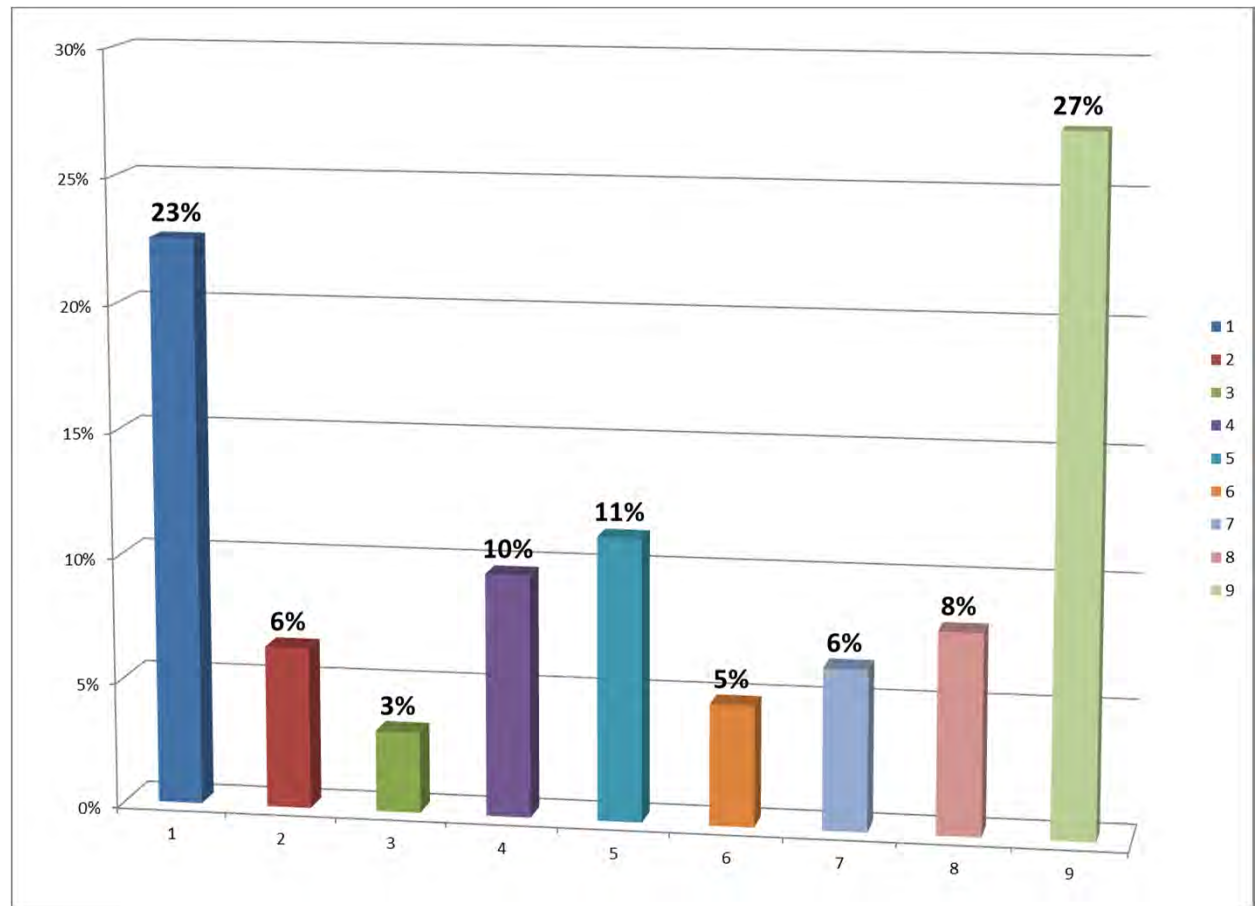
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.13

Mean = 5.26

Preference

Light Industry - Biomass

1. Lowest

2. ...

3. ...

4. ...

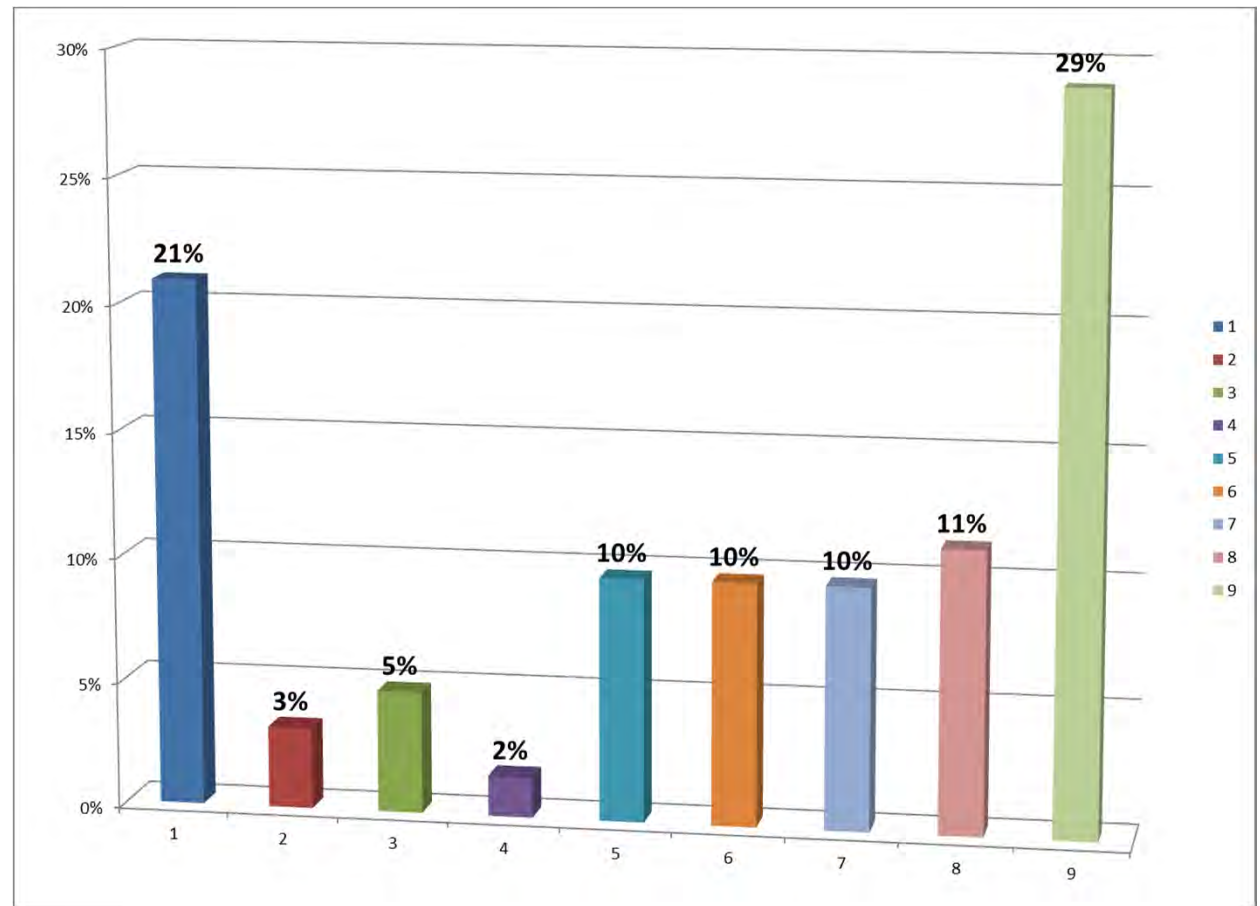
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.07

Mean = 5.74

Preference

Permanent Site Closure - Cover it up with dirt

1. Lowest

2. ...

3. ...

4. ...

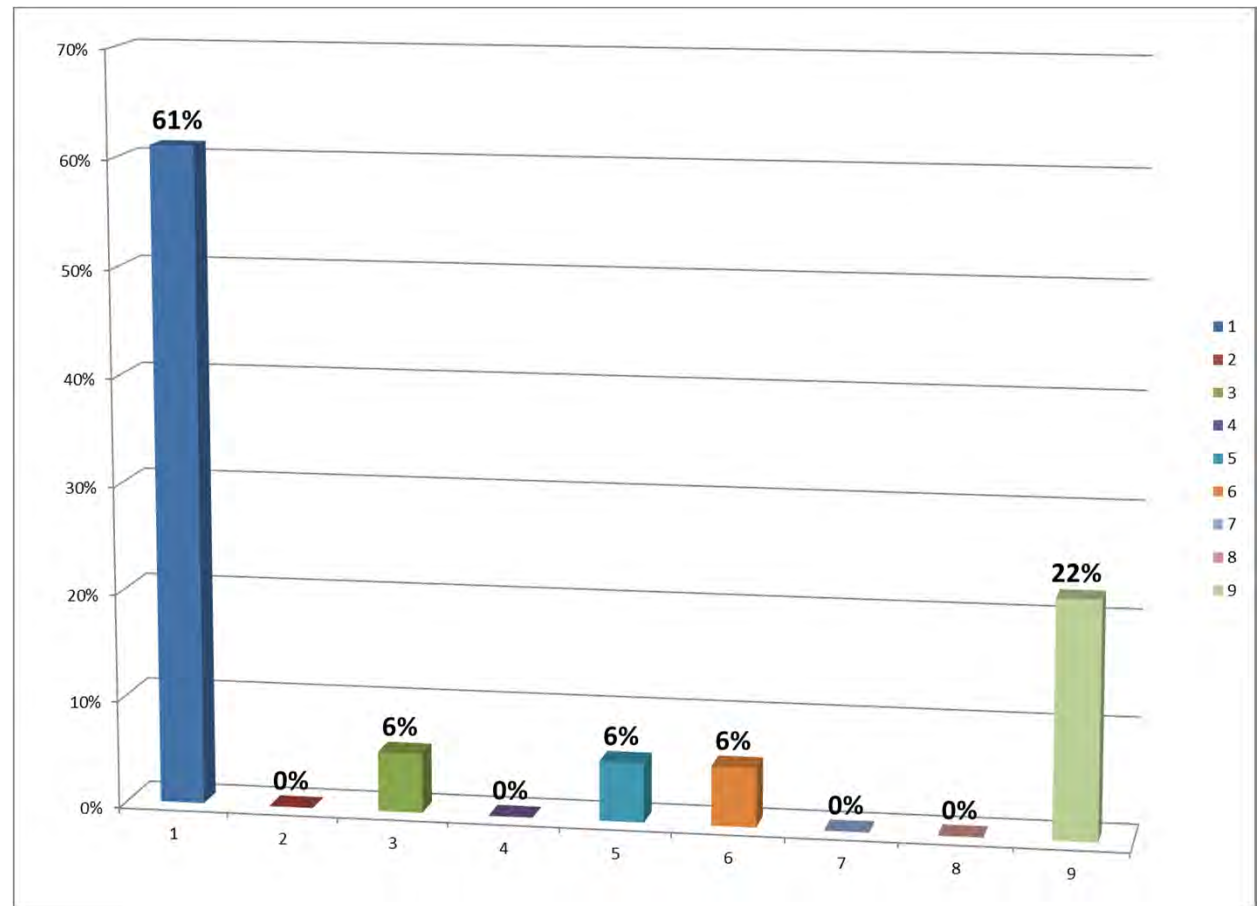
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.32

Mean = 3.39

Preference

Alternative Energy Research Center

1. Lowest

2. ...

3. ...

4. ...

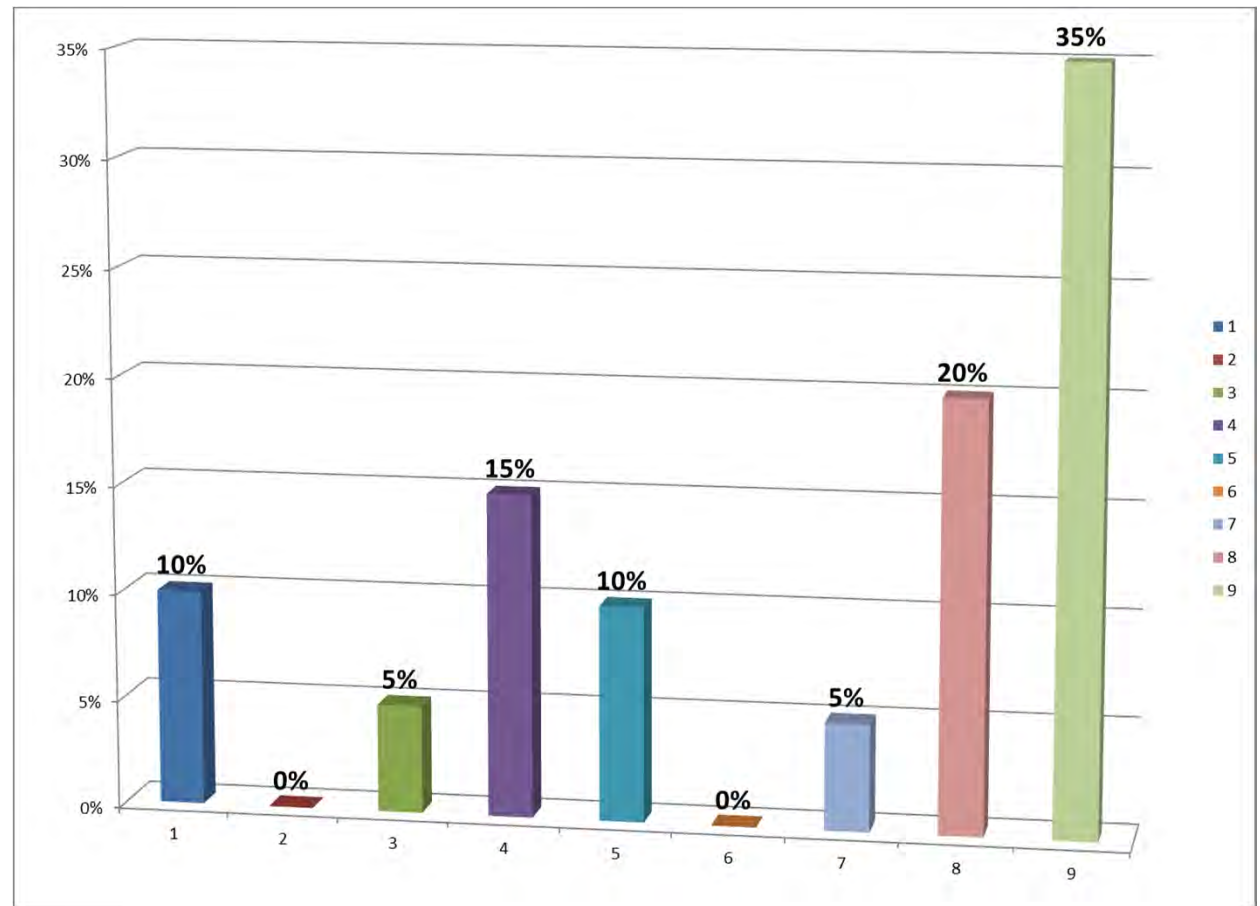
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.73

Mean = 6.45

Preference Federal Prison

1. Lowest

2. ...

3. ...

4. ...

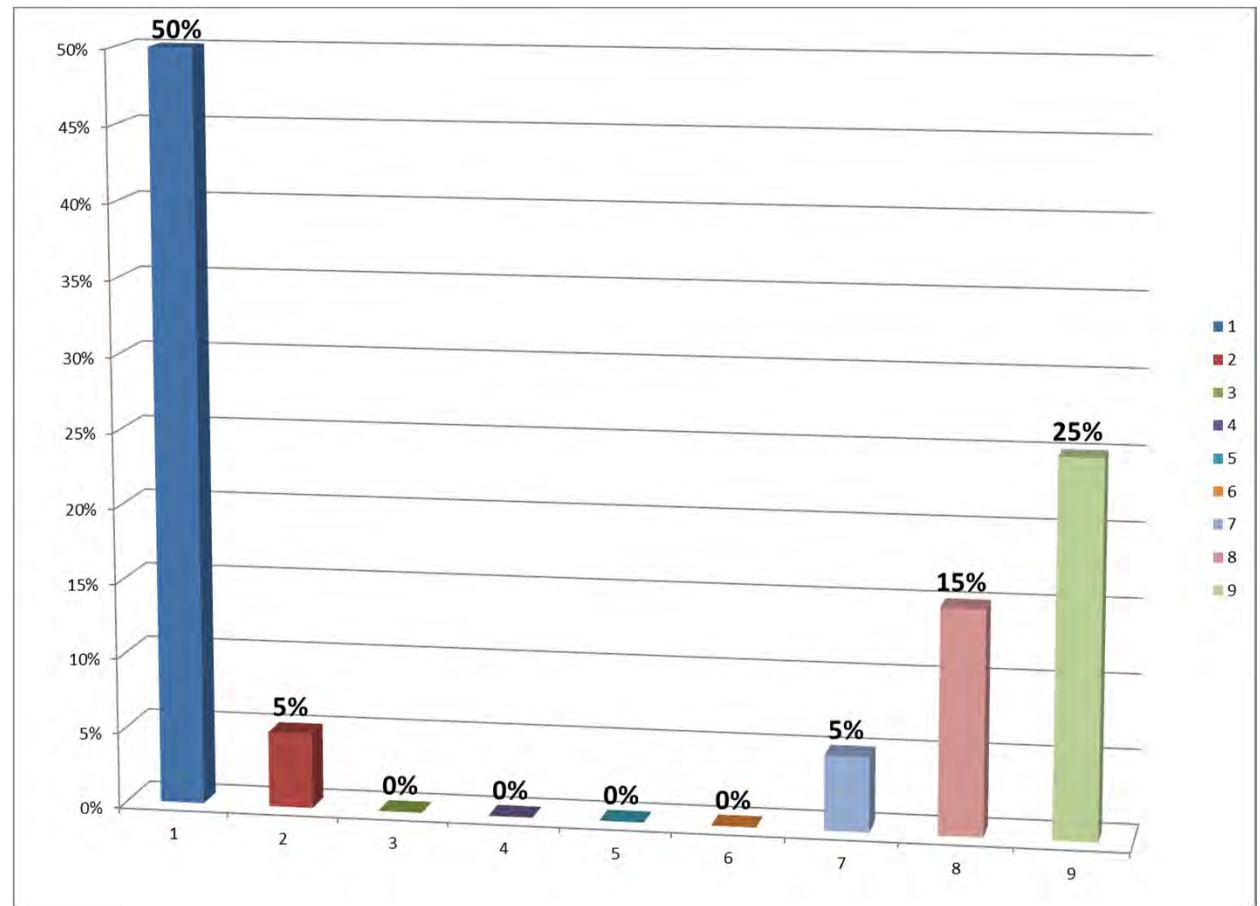
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.69

Mean = 4.40

Preference

Federal Lab to Test Cleanup

1. Lowest

2. ...

3. ...

4. ...

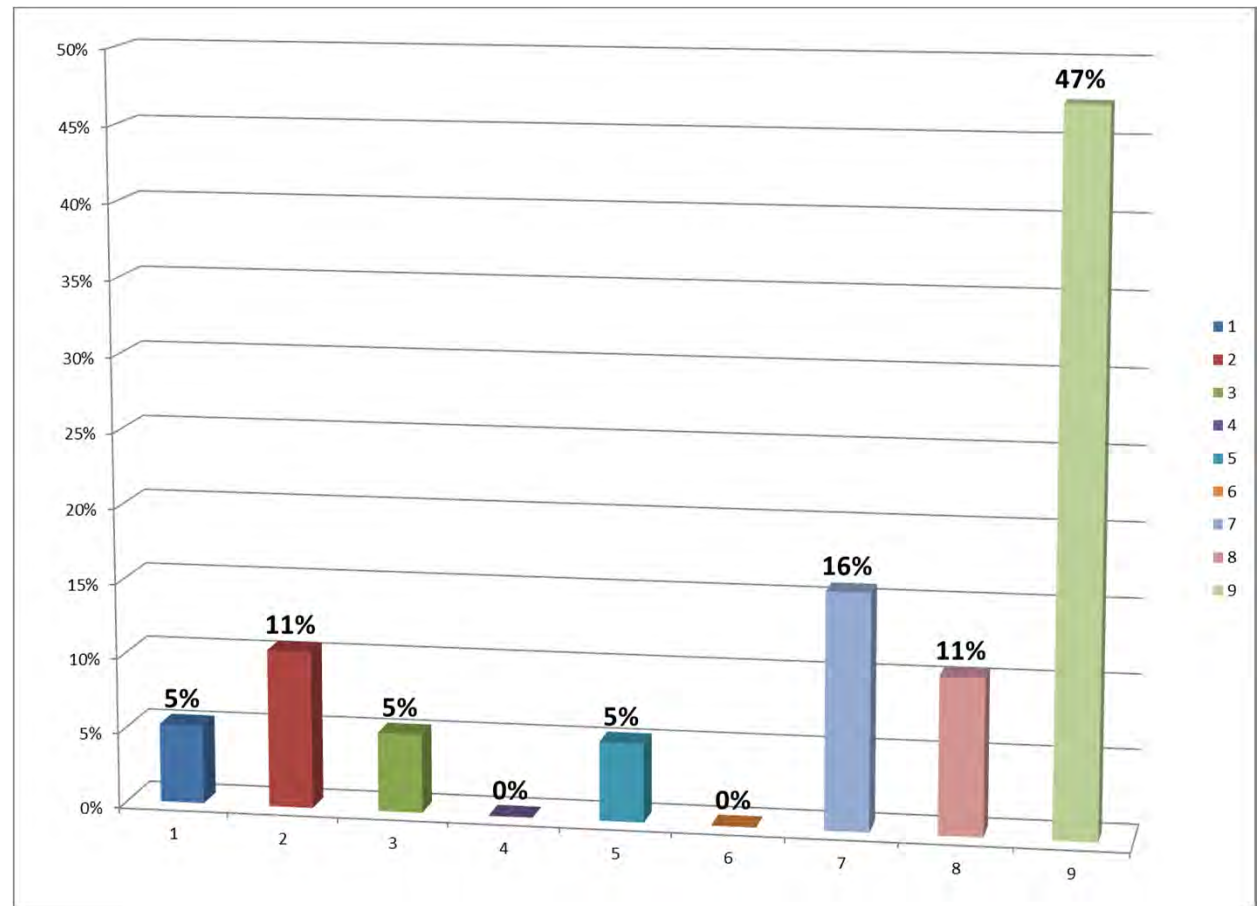
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.75

Mean = 6.89

Preference

Mixed use of all of it

1. Lowest

2. ...

3. ...

4. ...

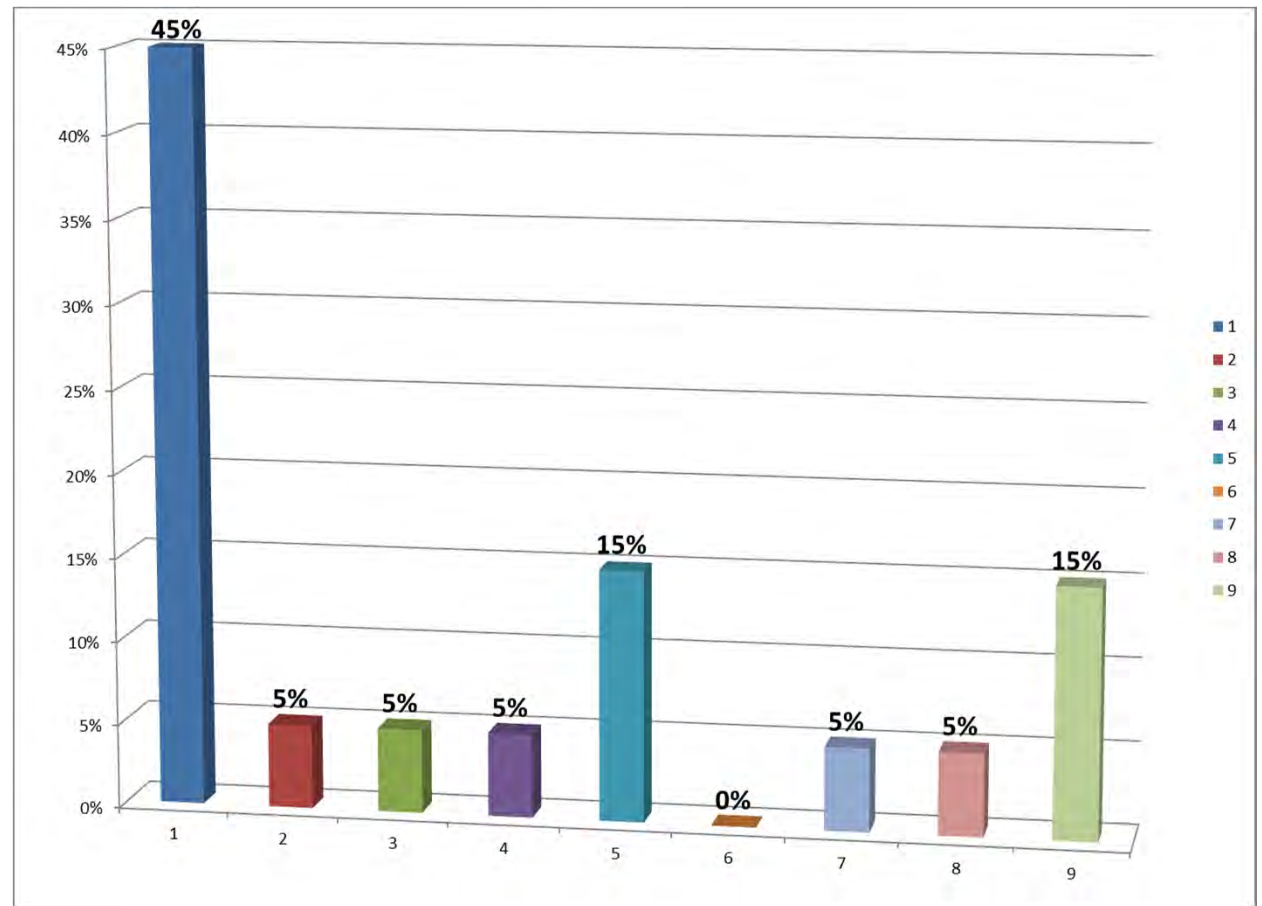
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.06

Mean = 3.75

Preference

Remediation Research Facility Combined with Power Plant

1. Lowest

2. ...

3. ...

4. ...

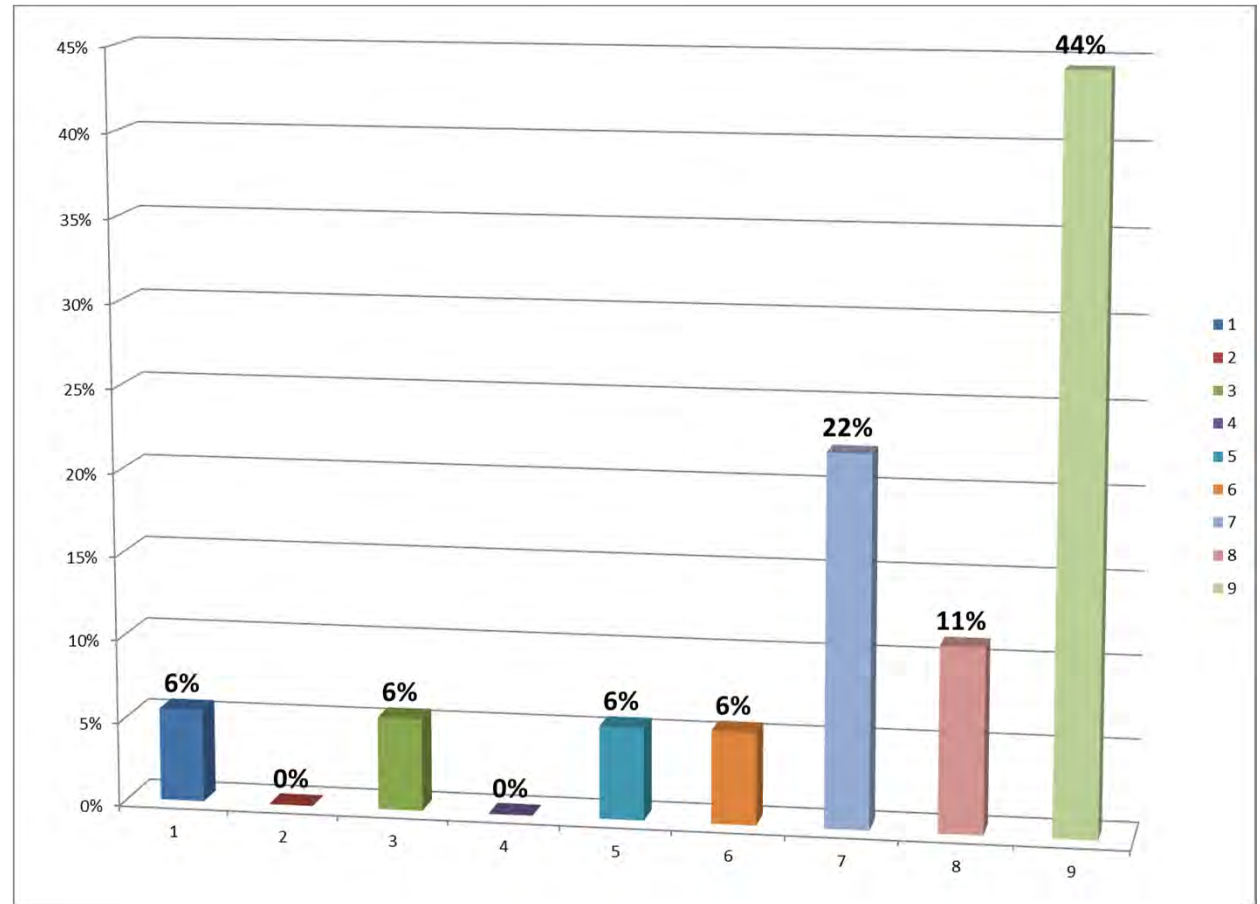
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.23

Mean = 7.28

Preference River Port

1. Lowest

2. ...

3. ...

4. ...

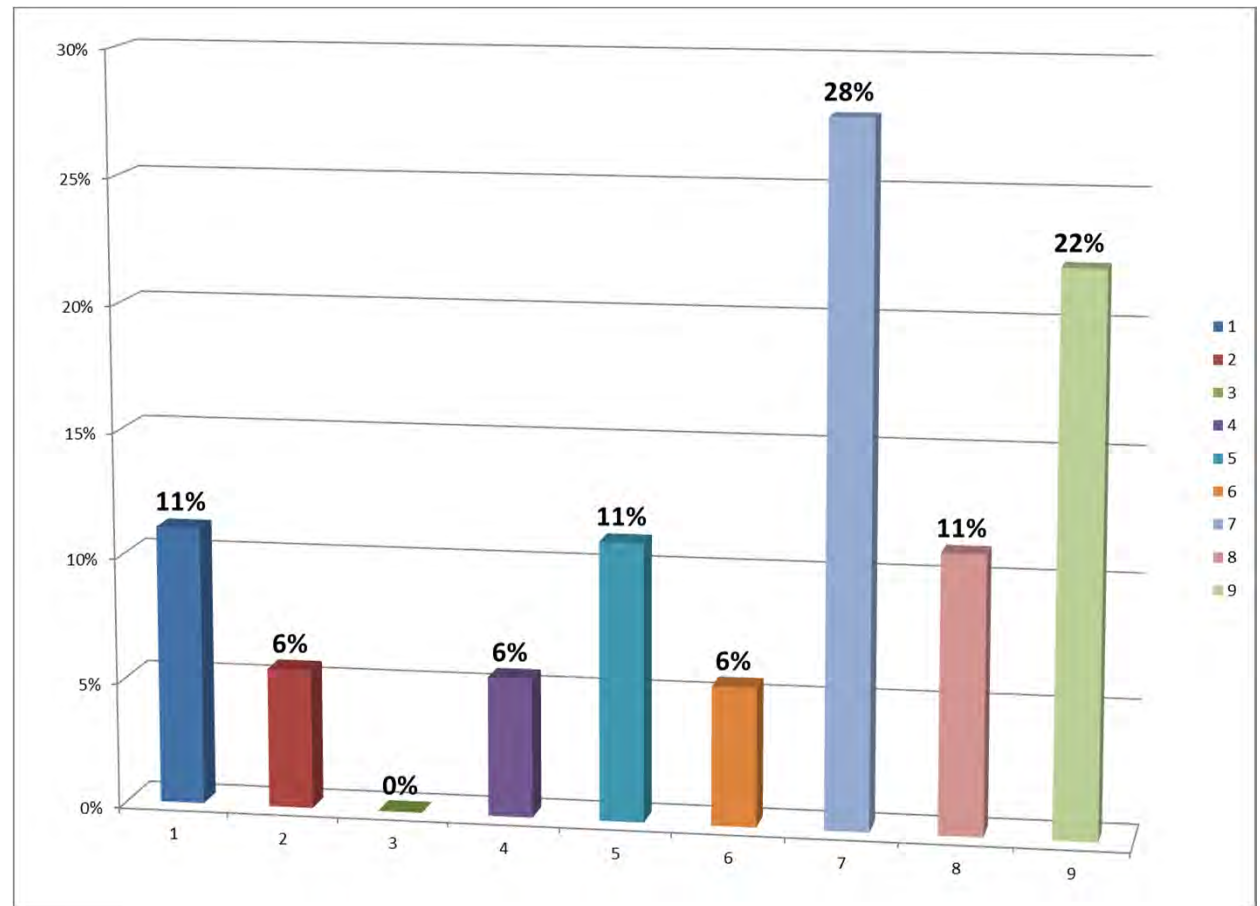
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.59

Mean = 6.17

Preference Strip Mine

1. Lowest

2. ...

3. ...

4. ...

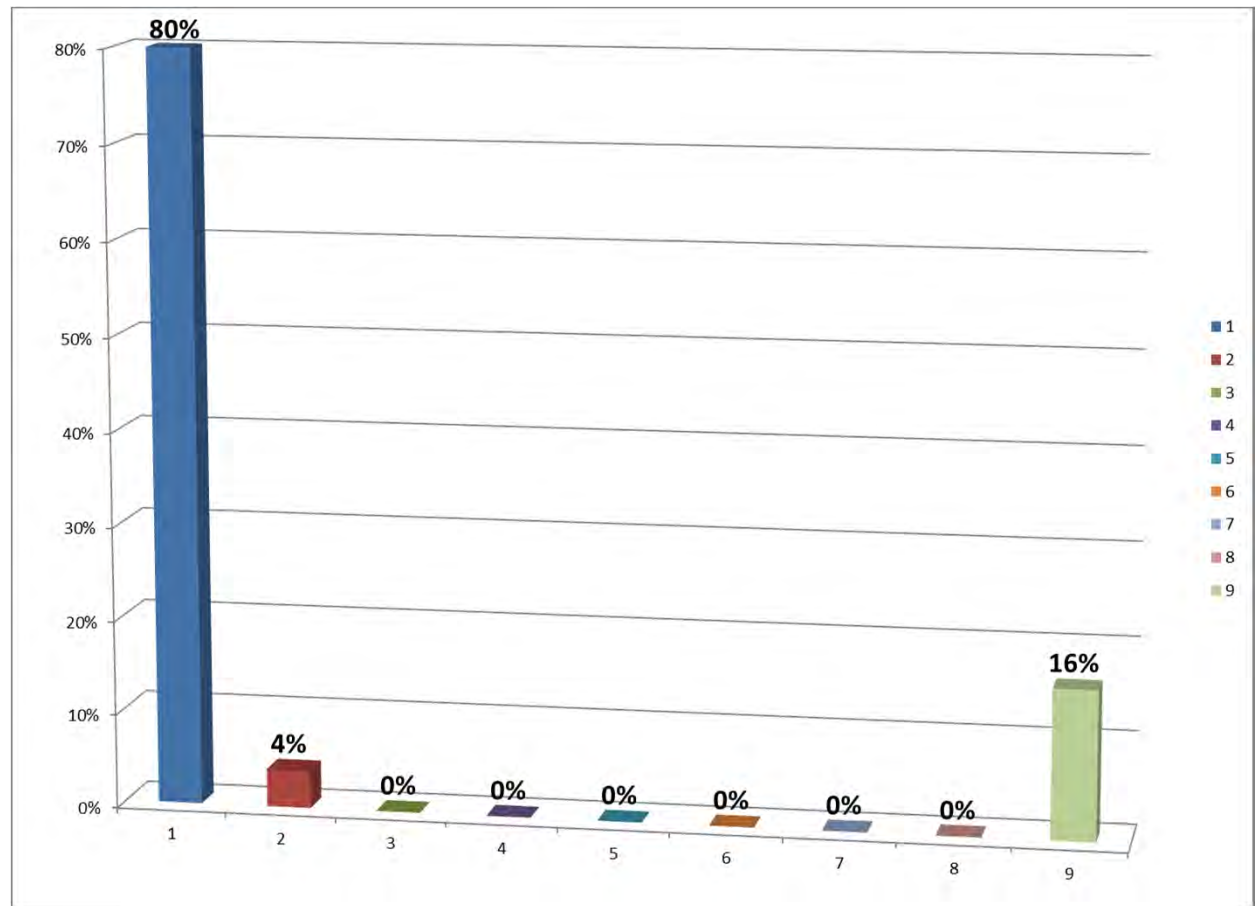
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 2.92

Mean = 2.32

Preference Cleanup Research Facility

1. Lowest

2. ...

3. ...

4. ...

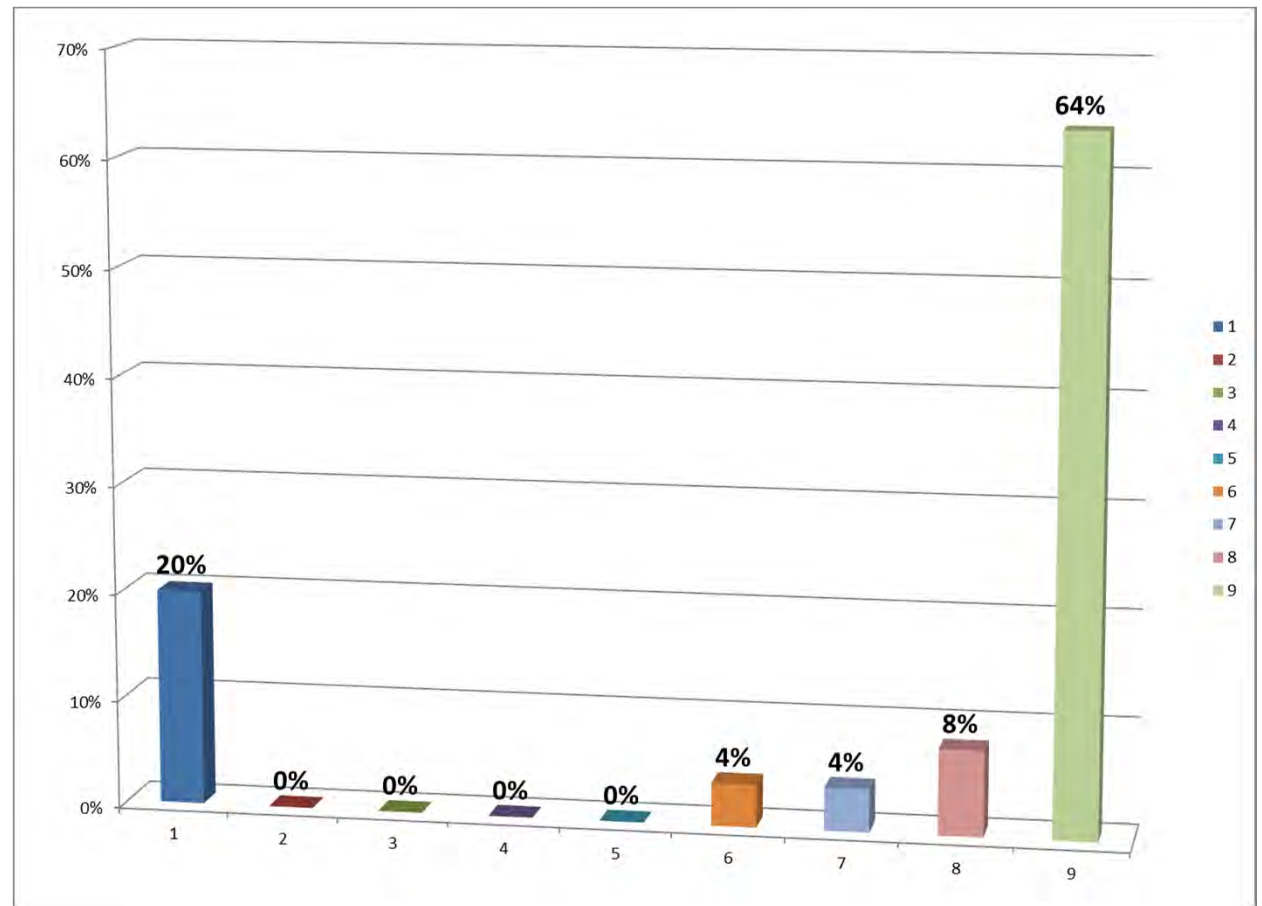
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.14

Mean = 7.12

Preference Amusement Park

1. Lowest

2. ...

3. ...

4. ...

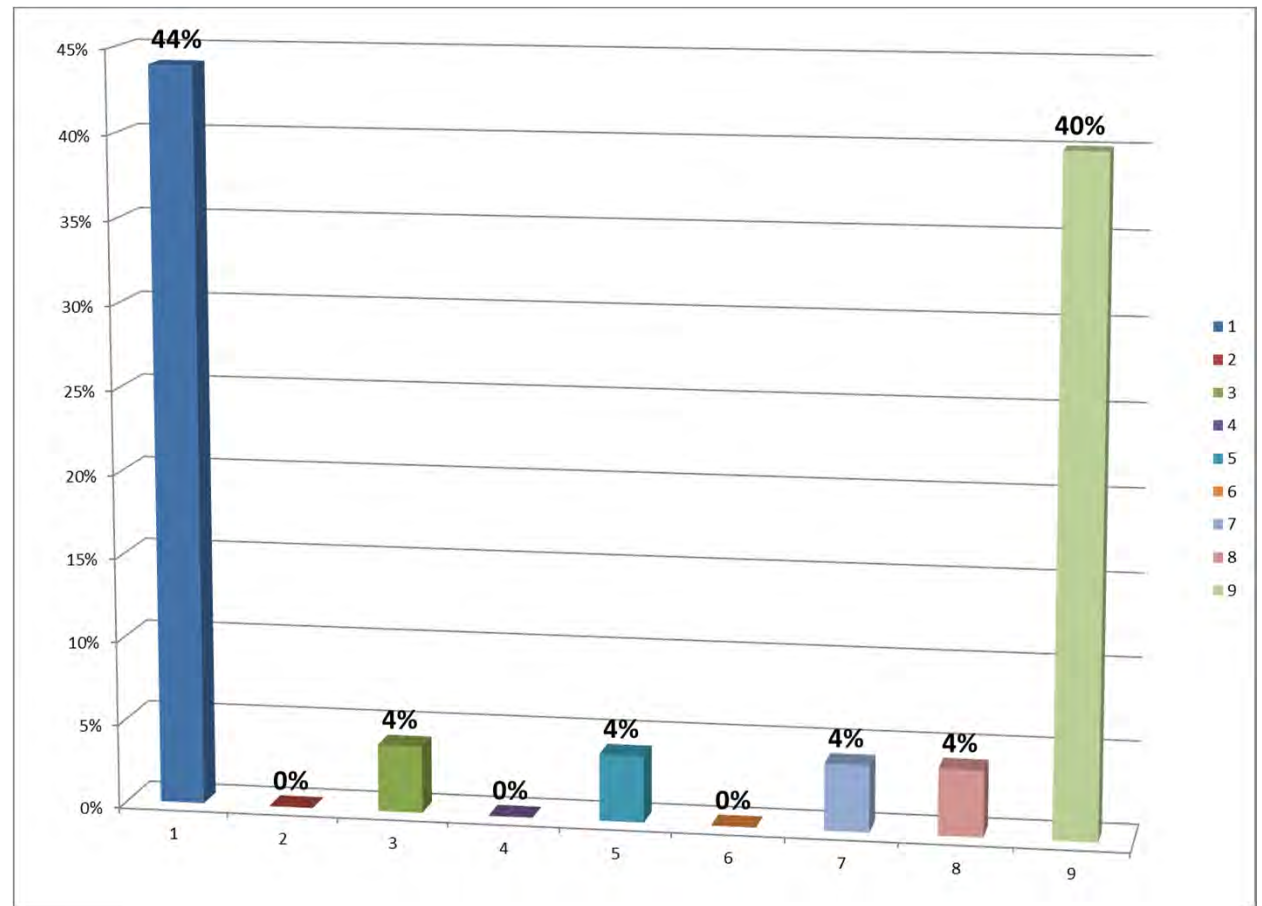
5. ...

6. ...

7. ...

8. ...

9. Highest



StdDev = 3.76

Mean = 4.96

Land Use Preference Ratings

