



Initial Site Screening (ISS)

Site Name: 3M Knoxville

Project Manager: Matthew Graesch

Date: 09/19/24

☐ **3931 - Phase II Assessment Review – Brownfield Funded**

Phase II submitted as part of standard real estate development, pre-purchase agreement, or other due diligence, not a part of a community grant project, or

☐ **3837 - Phase II Assessment – Brownfield Grant Funded**

Phase II submitted as part of an EPA grant funded community-wide or targeted assessment project – see Mel Pins if questions on this determination, or

☒ **3321 - Phase II Assessment Review – CERCLA Pre-Remedial Funded**

Phase II submitted that is not part of a real estate transaction

Location: (Decimal Degree format)

Latitude: 41.319

Longitude: -93.065

County: Marion

USGS Quadrant: Knoxville

Site Size: ~80 acres

Site Dimension:

☒ Acres

☐ Square Feet

☐ Feet

☐ Square Miles

☐ Miles

Site Alias Name(s): NA

Congressional District: 2

Grant Recipient Name: _____

Grant Recipient Address: _____

Grant Recipient Phone: _____

Grant Recipient Email: _____

Current

Owner(s): 3M Corporation

Current Owner Address: 3406 East Pleasant St, Knoxville, IA 50138

If different from current owner:

Responsible Party Name(s): Same

Responsible Party Address: Same

Site Street Address or Tier, Range, Section & Subsections (if street address is unknown)

Same

Directions to site: From Interstate 35, take Hwy 92 east to Knoxville. Exit on McKimber St, and proceed east. McKimber St will become Pleasant St; continue east through Knoxville. The site is on the south side of East Pleasant St one mile east of Knoxville at the intersection of county highway G44.

Summarize the site history (past usages, past ownerships, wastes, known or suspected contamination pathways such as tanks, septic tank/tile field, lagoon, land applications, SW burial, etc.)

Site History:

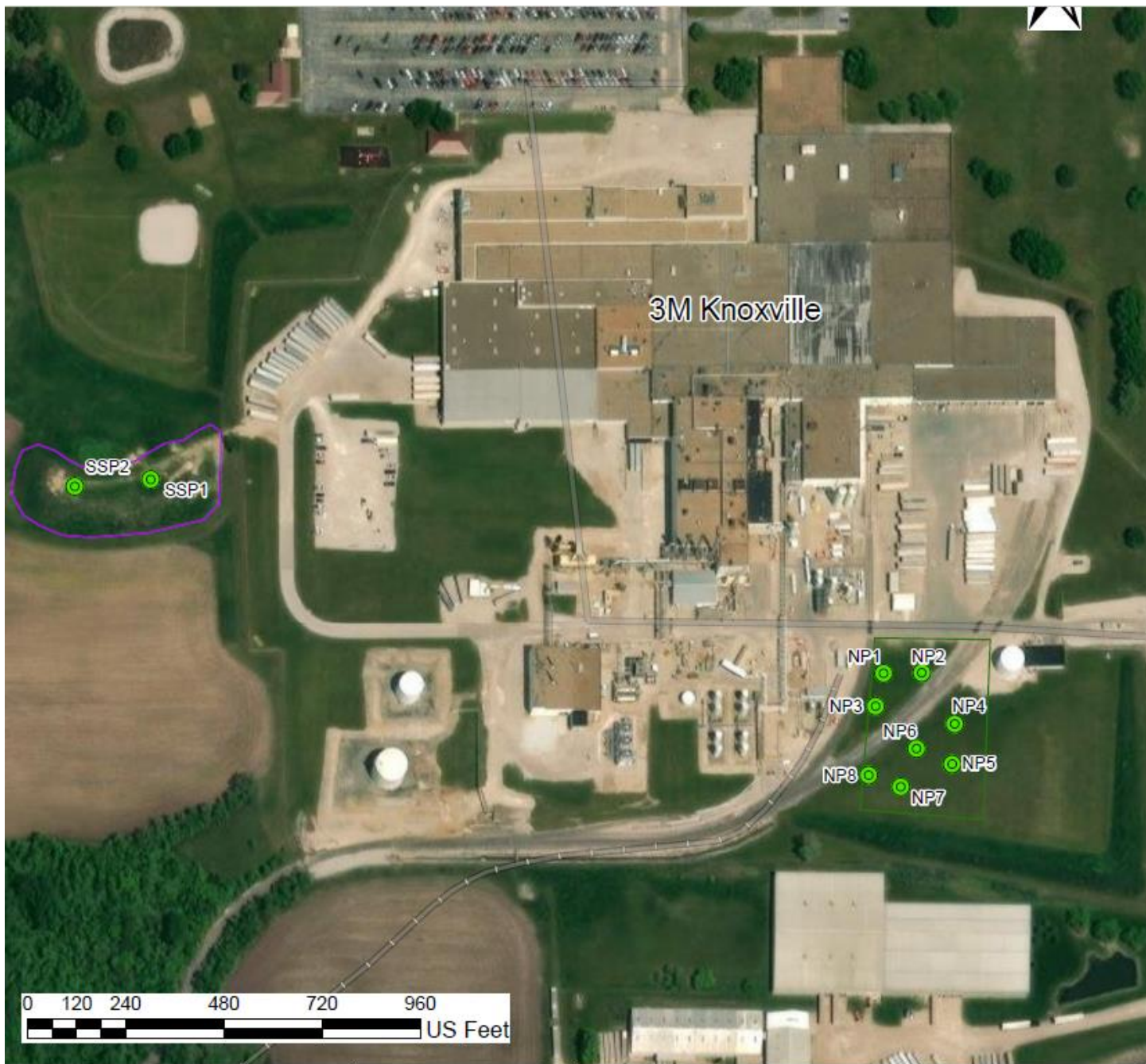
The site has been used for industrial manufacturing of tape and adhesives for ~50 years, and was previously used for rowcrop agriculture. It is not believed that PFAS chemicals were manufactured on site, but fire extinguishing equipment containing AFFF was stored, and used for training at the site.

Recognized Environmental Conditions (REC):

PFOS and PFOA have been found in soil samples collected in advance of an expected new construction project that will require movement of soil

Briefly describe the site assessment that was conducted (number of borings, monitoring wells, number of samples, depth of soil samples and monitoring wells, analysis, etc.)

Ten soil borings were completed for PFAS, petroleum compounds (light and heavy), and VOCs (8260). These borings were completed in the areas where soil disturbance is expected during an upcoming construction project. Samples were collected both at the surface, and at 4-5' depth.



Summarize the findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values to known criteria such as statewide standards, MCLs, water quality standards, background levels or other benchmarks used to determine site priority.

Table 1: Soil Sample Results (Detected Analytes Only)

Analyte Group	Analyte	Iowa Statewide Standard for Soil (mg/kg)	Sample Location/Depth							
			NP1			NP2		NP3		NP4
			0 - 1 foot	0 - 1 foot DB	4 - 5 feet ¹	0 - 1 foot	4 - 5 feet ¹	0 - 1 foot	4 - 5 feet ¹	0 - 1 foot
			Results (mg/kg)							
Total Extractable Hydrocarbons	Diesel	28000	< 5.44	8.17	< 4.9	< 5.39	< 5.12	8.42	< 4.75	NA
	Waste Oil	9400	< 13.6	23.9	< 12.2	< 13.5	< 12.8	20.3	< 11.9	NA
	Total	NS	15	32.1	< 12.2	< 13.5	< 12.8	28.8	< 11.9	NA
Perfluoroalkyl Substances	Perfluorohexanoic acid (PFHxA)	39	0.00034	0.00032	NA	0.00028	NA	0.00025	NA	0.00022
	Perfluorooctanoic acid (PFOA)	35	0.00057	0.00084	NA	0.00034	NA	0.00051	NA	0.00045
	Perfluorohexane sulfonic acid (PFHxS)	1.6	0.0024	0.0019	NA	0.0025	NA	0.0017	NA	0.00046
	Perfluorooctane sulfonic acid (PFOS)	0.00048	0.0074	0.0080	NA	0.012	NA	0.013	NA	0.0035
VOCs	P-Isopropyltoluene	NS	< 0.0088	< 0.0779	< 0.0076	< 0.00869	< 0.00823	< 0.00837	< 0.00713	NA

Analyte Group	Analyte	Iowa Statewide Standard for Soil (mg/kg)	Sample Location/Depth					
			NP5	NP6	NP7	NP8	SSP1	SSP2
			0 - 1 foot	0 - 1 foot	0 - 1 foot	0 - 1 foot	4 - 5 feet ¹	4 - 5 feet ¹
			Results (mg/kg)					
Total Extractable Hydrocarbons	Diesel	28000	NA	NA	NA	NA	< 4.76	< 5.1
	Waste Oil	9400	NA	NA	NA	NA	< 11.9	< 12.7
	Total	NS	NA	NA	NA	NA	< 11.9	< 12.7
Perfluoroalkyl Substances	Perfluorobutane Sulfonate (PFBS)	18	<0.00020	<0.00020	<0.00020	<0.00020	0.00041	<0.00020
	Perfluorohexanoic acid (PFHxA)	39	<0.00020	0.00022	0.00024	<0.00020	0.001	<0.00020
	Perfluorooctanoic acid (PFOA)	35	0.00042	0.00031	0.00046	<0.00020	<0.00020	<0.00020
	Perfluorohexane sulfonic acid (PFHxS)	1.6	0.00052	0.00039	0.00052	0.00054	0.0038	0.00049
	Perfluorooctane sulfonic acid (PFOS)	0.00048	0.0022	0.0019	0.0026	0.0054	0.015	0.0027
VOCs	p-Isopropyltoluene	NS	NA	NA	NA	NA	0.0109	< 0.00793

Notes:

Soil Findings

See above

Groundwater Findings:

NA

Identify on-site or off-site potential and actual targets (e.g., municipal wells, private wells, drinking water intakes). What is known of the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there utility lines that could be impacted by site contaminants? Identify any other use/location issues that deserve consideration.

The neighboring areas of the site are undeveloped, or are used for agriculture. There are no known nearby drinking water wells, and the city obtains its drinking water from wells >2000' deep that are located a significant distance north of the site.

Rate the site on a scale of 1 to 4, in decreasing order of severity or priority.

This site receives a Priority 3 rating

Summarize the reasoning, knowledge or any other information used in determining your recommendation regarding the priority assigned to this site.

PFAS chemicals were detected at the 3M Knoxville plant in routine soil sampling in advance of expected construction work. PFOA and PFOS were the chemicals detected, though only PFOS exceeded statewide soil standards. This particular plant is not believed to have manufactured or made extensive use of PFAS chemicals, though commercial grade AFFF fire extinguishing equipment was housed on site, and likely training took place in the past.

The site is assigned a priority 3 rating, and will not require additional sampling at this time, but will be required to submit a soil management plan in advance of moving soil known to contain PFAS. No receptors are present in the immediate vicinity that could be affected by soil leaching or shallow groundwater (ingestion).

A risk calculation for exposure to indoor air was not conducted by DNR because the contaminants detected in groundwater are not volatile.

Site recommended for:

- ☒ No further action under CERCLA Pre-Remedial
- ☐ Additional investigation under state program (activity code 2824)
- ☐ Additional investigation under CERCLA (Extended Site Screening)
- ☐ Transfer to LUST/UST

Form Reviewed: _____

Date Reviewed: September 20, 2024



REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

PRE-CERCLIS INITIATION FORM

(Required information marked with a * and in red)

NPL Status = O-Not a Valid Site or Incident

*Site Name: 3M Knoxville *Identified By: ☐ Removal ☒ Site Assessment ☐ Federal Facilities

☐ States ☐ Other Federal Agency Check if: ☐ FUD Site

*Address: 3406 East Pleasant *County: Marion

*City, State, Zip: Knoxville, IA 50139 State ID (if one exists): 2817 Congressional District: 2

NPL Status = O-Not a Valid Site or Incident Federal Facility Indicator: ☐ Federal Facility ☒ Not a Federal Facility ☐ Status Undetermined

*Section:
☐ C-(STAR) SPFD Technical Assistance/Re-Use Branch ☐ L-(EFLR) Enfr/Fund Lead RV Branch ☐ F-(FFSE) Federal Facilities/Special Emphasis Branch
☐ M-(MOKS) MO/KS remedial Branch ☐ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch

List Site Alias Name(s): NA

Directions to Site: From Interstate 35, take Hwy 92 east to Knoxville. Exit on McKimber St, and proceed east. McKimber St will become Pleasant St; continue east through Knoxville. The site is on the south side of East Pleasant St one mile east of Knoxville at the intersection of county highway G44.

Site Description: Large industrial site with manufacturing related to adhesives and tape, surrounded by rural/agricultural land

*Latitude: 41.319 *Longitude: -93.065 USGS Quadrant: Knoxville USGS Hydro Unit: 071000081405

(Decimal Degree Format) (with release of 3.17 see attached required location data form)

Lat/Long Accuracy: ☒ Seconds ☐ Degrees ☐ Minutes ☐ Miles ☐ Feet ☐ Kilometers ☐ Meters

*Owner Operator Type: ☐ Federally-Owned ☐ Other ☐ Trustee, Federal
☐ Bank/Loan Company ☐ Former Federally Owned or Operated ☒ Private ☐ Trustee, State
☐ Brownfields/Public ☐ Government Owned/Contractor Operated ☐ Privately Owned/Government Operated ☐ Unknown
☐ County Owned ☐ Mixed Ownership ☐ Property Defaulted Back to Government
☐ District Owned ☐ Municipality ☐ State Owned

*Operational Status: ☒ Active ☐ Inactive ☐ Unknown ☐ Blank Native American Interest: ☐ Yes ☒ No

*Non-NPL Status (Choose one): ☐ Not a Valid Site or Incident ☐ Not a Valid Site or Incident: RCRA Lead ☒ Not a Valid Site or Incident: State Lead
☐ Not a Valid Site or Incident: NRC Lead ☐ Not a Valid Site or Incident: Tribal Lead

*Add Action: OU *PRE-CERCLIS SCREENING: *Planned Complete: *Actual Complete:

*Lead code (choose one) ☐ F-EPA Fund Financed ☐ FF - Federal Facility ☐ S - State, Fund Financed

SCAP Note: Lead:

Add below Action (if No Further Action): OU ☐ PRE-CERCLIS ARCHIVE Actual Complete:

SCAP Note: Comments: ☐ Site or ☐ Action:

*Site Type: (Choose all that apply; for every main category chosen, in bold, at least one sub-category must be selected; if more than one main and sub-category is selected indicate which is primary)

Primary Designation: OT

☒ **MP-Manufacturing/Processing/Maintenance** - Applicable sub-categories:

- ☐ CA-Chemicals and allied products
- ☐ CG-Coal gasification
- ☐ CP-Coke production
- ☐ EP-Electric power generation and distribution
- ☐ FT-Fabrics/textiles
- ☐ EE-Electronic/electrical equipment
- ☐ LW-Lumber and wood products/pulp and paper
- ☐ WP-Lumber and wood products/ wood preserving/ preserving/ treatment
- ☐ MF-Metal fabrication/finishing/coating and allied industries
- ☐ OR-Oil and gas refining
- ☐ OP-Ordnance production
- ☒ OT-Other-Description (needed): Adhesives
- ☐ PR-Plastics and rubber products
- ☐ PM-Primary metals/mineral processing
- ☐ RA-Radioactive products
- ☐ TA-Tanneries
- ☐ TS-Trucks/ships/trains/aircraft and related components

☐ **RE-Recycling** - Applicable sub-categories:

- ☐ AT-Automobiles/tires
- ☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery
- ☐ CC-Chemicals/chemical waste (e.g., solvent recovery)
- ☐ DT-Drums/tanks
- ☐ OT-Other-Description (needed):
- ☐ WO-Waste/used

☐ **MI-Mining** - Applicable sub-categories:

- ☐ CO-Coal
- ☐ ME-Metals
- ☐ NM-Non-metal minerals
- ☐ OG-Oil and Gas
- ☐ OT-Other-Description (needed):

☐ **WM-Waste Management** - Applicable sub-categories:

- ☐ CL-Co-disposal landfill (municipal and industrial)
- ☐ ID-Illegal disposal/open dump
- ☐ IF-Industrial waste facility (non-generator)
- ☐ MD-Mine tailings disposal
- ☐ OT-Other-Description (needed):
- ☐ ML-Municipal solid waste landfill
- ☐ RW-Radioactive waste treatment, storage, disposal (non-generator)

☐ **OT-Other** - Applicable sub-categories:

- ☐ AG-Agricultural (e.g., grain elevator)
- ☐ CS-Contaminated sediment site with no identifiable source
- ☐ DC-Dust control
- ☐ OT-Other-Description (needed):
- ☐ GP-Ground water plume site with no identifiable source
- ☐ MO-Military/Other Ordinance
- ☐ PS-Product Storage/distribution
- ☐ RC-Retail/commercial
- ☐ RD-Research, development, and testing facility
- ☐ SE-Spill or other one-time event
- ☐ TP-Transportation (e.g., railroad yards, airport, barge docking, site)
- ☐ TW-Treatment works/septic tanks/other sewage treatment

Signatures:

States: Matthew Graesch

Date: 091924

RPM/OSC/SAM: _____

Date: _____



REGION VII
U.S. ENVIRONMENTAL PROTECTION AGENCY

ENFORCEMENT SENSITIVE INFORMATION
FOR INTERNAL USE ONLY

LOCATION FORM

(Required information marked with a * and in red)

*Site Name: 3M Knoxville *EPA ID: _____

*Latitude: 41.319 *Longitude: -93.065 Measurement Sequence: NA

Decimal Degree Format

(See Comment A)

*Lat/Long Source: ☐ Contractor ☐ Regulated Entity ☐ Private **Designate Lat/Long:** ☒ Primary
☐ Dun & Bradstreet ☐ State ☐ SNAP ☐ NPL Coordinate
☐ EPA Region 7 ☐ EPA Headquarters ☐ Tribe
☐ Geograph ☐ Epic ☐ Unknown
☐ Other Federal Agency ☒ Other ☐ (Blank)

***Collection Method:**

<input type="checkbox"/> Address Matching -House Number	<input type="checkbox"/> Address Matching -Nearest Intersection	<input type="checkbox"/> Address Matching - Other
<input type="checkbox"/> Address Matching - Block Face	<input type="checkbox"/> Address Matching - Primary Name	<input type="checkbox"/> Public Land Survey-Footing
<input type="checkbox"/> Address Matching - Street Centerline	<input type="checkbox"/> Address Matching - Digitized	<input type="checkbox"/> Public Land Survey-Section
<input type="checkbox"/> Census Block - 1990 - Centroid	<input type="checkbox"/> ZIP+2 Centroid	<input type="checkbox"/> Public Land Survey-Quarter Section
<input type="checkbox"/> Census Block/Group 1990-Centroid	<input type="checkbox"/> ZIP+4 Centroid	<input type="checkbox"/> Public Land Survey-Eighth Section
<input type="checkbox"/> Census Block/Tract - 1990 - Centroid	<input type="checkbox"/> ZIP Code - Centroid	<input type="checkbox"/> Public Land Survey-Sixteenth Section
<input type="checkbox"/> Census - Other	<input type="checkbox"/> GPS Code (Pseudo Range) Differential	<input type="checkbox"/> GPS-Unspecified
<input type="checkbox"/> GPS Carrier Phase Static Relative Position	<input type="checkbox"/> GPS Code (Pseudo Range) Precise Position	<input type="checkbox"/> Classical Surveying Techniques
<input type="checkbox"/> GPS Carrier Phase Kinematic Relative Position	<input type="checkbox"/> GPS Code (Pseudo Range) Standard Position (SA-Off)	<input type="checkbox"/> LORAN
<input type="checkbox"/> GPS, with Canadian Active Control System	<input type="checkbox"/> GPS Code (Pseudo Range) Standard Position Service SA-On	<input type="checkbox"/> Unknown
<input type="checkbox"/> Interpolation-Digital Map Source (TIGER)	<input type="checkbox"/> Interpolation -Photo	<input type="checkbox"/> Interpolation-TM
<input type="checkbox"/> Interpolation-Map	<input checked="" type="checkbox"/> Interpolation - Satellite	<input type="checkbox"/> Interpolation - Other
<input type="checkbox"/> Interpolation -MSS	<input type="checkbox"/> Interpolation - SPOT	

*Reference Point:	<input type="checkbox"/> Facility/Station Bldg Entrance	<input type="checkbox"/> Other	<input type="checkbox"/> Solid Waste Trtmnt/Disp. Unit
<input type="checkbox"/> Administrative Building	<input type="checkbox"/> Intake Point	<input type="checkbox"/> Plant Entrance (Freight)	<input type="checkbox"/> Storage Tank
<input type="checkbox"/> Air Monitoring Station	<input type="checkbox"/> Lagoon or Settling Pond	<input type="checkbox"/> Plant Entrance (General)	<input type="checkbox"/> SW Corner of Land Parcel
<input type="checkbox"/> Air Release Stack	<input type="checkbox"/> Liquid Waste Treatment Unit	<input type="checkbox"/> Plant Entrance (Personnel)	<input type="checkbox"/> Treatment/Storage Plant
<input type="checkbox"/> Air Release Vent	<input type="checkbox"/> Loading Area Centroid	<input type="checkbox"/> Process Unit Area Centroid	<input type="checkbox"/> Unknown
<input type="checkbox"/> Atmos. Emissions Trtmnt Unit	<input type="checkbox"/> Loading Facility	<input type="checkbox"/> Process Unit	<input type="checkbox"/> Water Monitoring Station
<input type="checkbox"/> Boundary Point	<input type="checkbox"/> Monitoring Point	<input type="checkbox"/> Release Point	<input type="checkbox"/> Water Release Pipe
<input type="checkbox"/> Building Entrance	<input type="checkbox"/> NE Corner of Land Parcel	<input type="checkbox"/> SE Corner of Land Parcel	<input type="checkbox"/> Well
<input checked="" type="checkbox"/> Facility/Centroid Cent	<input type="checkbox"/> NW Corner of Land Parcel	<input type="checkbox"/> Solid Waste Storage Area	<input type="checkbox"/> Well Protection Area

*Reference Datum: ☐ NAD27 ☐ NAD83 ☐ Other ☒ Unknown ☐ WGS84

*Accuracy Meters +/-: ☐ *Accuracy Unknown *Collection Date: _____

Verification Method: ☐ Proximity to Alternative Facility Coordinate ☐ Verified Relative to Map Features (1:24K)
☐ Ground Truth Conducted ☐ Proximity to Polygon Centroid (County) ☐ Verified Relative to Map Features (Other)
☐ Point In Polygon (County) ☐ Proximity to Polygon Centroid (Other) ☐ Verified, Unknown Method
☐ Point in Polygon (Zip) ☐ Proximity to Polygon Centroid (Zip Code) ☒ Not Verified
☐ Point in Polygon (Other) ☐ Verified Relative to Map Features (1:100K/Tiger) ☐ Blank

*Point/Line/Area: ☐ AREA ☐ LINE ☒ POINT ☐ REGION ☐ ROUTE ☐ BLANK

*Source Map Scale: ☐ 1:10,000 ☐ 1:20,000 ☐ 1:50,000 ☐ 1:100,000 ☐ 1:500,000
☐ 1:12,000 ☐ 1:24,000 ☐ 1:62,500 ☐ 1:125,000 ☒ NONE
☐ 1:15,840 ☐ 1:25,000 ☐ 1:63,360 ☐ 1:250,000 ☐ UNKNOWN

☐ OTHER _____

COMMENTS: _____

Signatures:

RPM/OSC: Matthew Graesch Date: 091924

Branch Chief: _____ Date: _____

Comment A: A sequential number to indicate the order in which points on a line or area are connected. For an area, the maximum point is connected to the first. Required if the feature is polygonal or linear 3 numeric.