

Brownfield Initial Site Screening (ISS)

Project Manager: Lambert Nnadi

☒ **3931 - Phase II Assessment Review - standard**

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 – 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

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

The site was residential in the late 1800s and early 1900s. Commercial buildings gradually replaced residential buildings between approximately 1910 and 1930. Businesses occupying the site included beverage distributors, electrical construction supplies, auto sales, contractor supply company, truck and tractor repair, Pioneer Hi-Bred Corn Company offices, Hi-Line Poultry Farms company offices, and the Interstate Assurance Company property. More recent history indicated the north building onsite, which is currently occupied by InTrust, was leased to the company in approximately 2001. The Amerus Life Annex at 1219 Cherry Street is situated on the southwest portion of the site. Mr. Mike Hartschen of Amerus Group indicated that the Interstate Assurance Company property was acquired when Amerus purchased the Interstate in approximately 1987.

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.)

Terracon Consultants advanced six (6) borings at the site for collection of soil and groundwater samples. Some of the borings were extended to bedrock as part of a geochemical investigation of the site. Shale bedrock was encountered at approximately 58 feet below ground surface.

Soil and groundwater samples were analyzed for volatile organic compounds (VOCs) and total extractable hydrocarbons (TEHs). Soil samples were collected continuously and examined to document lithology, color, moisture content and visual or olfactory evidence of impairment. In addition, soil samples were analyzed with a photoionization detector (PID) to detect presence of VOCs.

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.

No petroleum hydrocarbon or other VOC odors were detected in the soil samples collected from the soil borings. No PID readings above detection limit were measured in the soil samples. Analytical results for the groundwater samples collected from all six locations measured TEH as waste (motor) oil above Chapter 135 standard for a Protected Groundwater Source (400 ug/L). The results ranged from 500 ug/L to 1,790 ug/L. Chloroform was detected at 1.10 ug/L,

barely exceeding the statewide standards of 1.0 ug/L. Tert-Butylbenzene was detected in one temporary monitoring well at 2.70 ug/L. No statewide standard has been established for this chemical.

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 site is situated in a commercial, downtown area of the City of Des Moines. The nearest drinking water wells are the City of Des Moines wells located approximately 1.1 miles southwest of the site on the Raccoon River. The site is upstream of the wells. Three permitted water wells are indicated on Arcview as being within 1-mile radius of the site. Two of these wells are north (upgradient) of the site; the third well is east and possibly crossgradient of the site. Actual groundwater flow direction was not determined in the limited site investigation. However, it is presumed to be toward either the Des Moines or the Raccoon River since the site is located just west of the confluence of the two rivers.

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

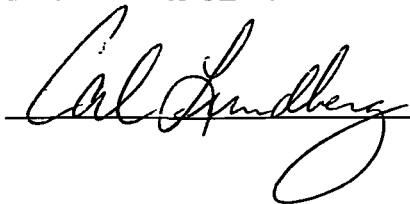
3

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

The major contaminant detected onsite was TEH as motor oil. The highest concentration of motor oil detected in groundwater was 1,790 ug/L observed on the right-of-way at the west end of the site. The next highest concentration was on the right-of-way at the southwest corner of the site, which showed a TEH concentration of 1,260 ug/L as motor oil. These concentrations are higher than Chapter 135 LUST standard for actual groundwater ingestion. On the other hand, the concentrations are less than 40,000 ug/l for potential groundwater ingestion. The city of Des Moines has an ordinance that prevents the installation of private wells within city limits. Therefore, it is highly unlikely that the groundwater at the site will be used as a drinking water source. Since motor oil was not detected in the soil, it is likely the site contamination is emanating from offsite. The land adjoining west was initially occupied by residential dwellings, followed by a railroad roundhouse and turn table associated with the Des Moines Union Railroad shops. The roundhouse appears in the 1901 Sanborn map and is evident through the 1956 topographic map. Historically, roundhouse operations typically used large volumes of petroleum products through underground and aboveground piping. Evidence of petroleum storage in the roundhouse can be seen in the 1901 Sanborn map. This might explain the presence of motor oil on the west side of the property.

Because of lack of known receptors and the fact that petroleum is involved, it is recommended the site be removed from further CERCLA consideration.

Form Reviewed:



Date Reviewed: 12/22/06

PRE-CERCLIS SCREENING ASSESSMENT CHECKLIST/DECISION FORM

This checklist can assist the site investigator during the Pre-CERCLIS screening. It will be used to determine whether further steps in the site investigation process are required under CERCLA. Use additional sheets, if necessary.

Checklist Preparer:	Lambert Nnadi	12-21-2006
	(Name/Title)	(Date)
	502 E. 9 th Street, Wallace State Office Bldg. DSM	515-281-4117
	(Address)	(Phone)
	Lambert.nnadi@dnr.state.ia.us	
	(E-mail Address)	
Site Name:	Nationwide Parking Garage	
Previous Names (if any):	Amerus Insurance Group, Iowa Health Home Care, Pioneer Hi-Bred, Hi-Line Poultry Farms, Electrical Contractors Equipment Company, etc.	
Site Location:	1206 Mulberry Street	
	Des Moines	IA 50309
	(City)	(ST) (Zip)
Latitude:	41.5829	Longitude: 93.6321

Compare the following checklist. If "yes" is marked, please explain below.

	YES	NO
1. Does the site already appear in CERCLIS?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
2. Is the release from products that are part of the structure of, and result in exposure within, residential buildings or businesses or community structures?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
3. Does the site consist of a release of a naturally occurring substance in its unaltered form, or altered solely through naturally occurring processes or phenomena, from a location where it is naturally found?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6. Are the hazardous substances potentially released at the site regulated under a statutory exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel, normal application of fertilizer, release located in a workplace, naturally occurring, or regulated by the NRC, UMTRCA, or OSHA)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>
8. Is there sufficient documentation that clearly demonstrates that there is no potential for a release that could cause adverse environmental or human health impacts (e.g., comprehensive remedial investigation equivalent data showing no release above ARARs, completed removal action, documentation showing that no hazardous substance release have occurred, EPA approved risk assessment completed)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>

Please explain all "yes" answer(s), attach additional sheets if necessary:

Petroleum contamination in the form of waste oil has been detected onsite. The source of the contamination is unknown at this time.

- Site Determination:**
- ☐ Enter the site into CERCLIS. Further assessment is recommended (Explain below).
 - ☒ The site is not recommended for placement into CERCLIS (Explain below).
 - ☐ Further assessment is recommended under PRE-CERCLA (Explain below).

DECISION/DISCUSSION/RATIONALE:

Waste oil was detected onsite and nearby offsite locations at concentrations above actual ingestion of groundwater pathway standard of 400 ug/L but below potential groundwater ingestion pathway standard of 40,000 ug/L. Waste oil levels in groundwater ranged from 500 ug/L to 1,790 ug/L. The City of Des Moines drinking water wells are upstream of the site. The city also has an ordinance that prevents the installation of private drinking water wells within city limits. There are no known receptors.

Based on the information provided and the Iowa Administrative Code Chapter 135 rules, no further investigation is required at this time. It is recommended the site be removed from further CERCLA consideration. No further action is also recommended under the state program.

Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:

Print Name/Signature

Date



REGION VII U.S. EPA SUPERFUND

SITE DISCOVERY ENTRY FORM

Discovery Lead (choose one):

Discovery Date: 12/15/06 ☐ F-EPA Fund Fin ☒ S-State Fund Fin ☐ FF-Fed Fac Removal ☐ EP-EPA-In-house ☐ TR Tribal Lead - Fund FinSite Name: Nationwide Parking Garage
☐ StatesCheck if, ☐ FUD Site
Initiated Date 12/22/06 Identified By: ☐ Removal ☒ Site AssessmentAddress: 1206 Mulberry Street

County Name: _____

City, State, Zip: Des Moines, IA 50309

State ID (if one exists): _____

Congressional District: 3NPL Status: ☐ Currently on the Final NPL
☐ Proposed for NPL☒ Not on the NPL ☐ Deleted on the final NPL
☐ Removed from Proposed NPL☐ Pre-Proposal Site ☐ Site is Part of NPL Site
☐ WithdrawnSection: ☐ C-(STAR) SPFD Technical Assistance/Re-Use Branch
☐ F-(FFSE) Federal Facilities/Apecial Emphasis Branch
☐ I-(IANE) IA/NE Remedial Branch☒ L-(EFLR) Enfr/Fund Lead RV Branch Fed Fac Ind: ☐ Federal Facility
☐ M-(MOKS) MO/KS Remedial Branch ☐ Not a Federal Facility
☐ O-(ER&R) Emergency Response & RV Branch ☐ Status UndeterminedList Site Alias Name (s): Amerus Insurance Group, Iowa Health Home CareDirections to Site: Proceed west on Grand from the Wallace Building. Make a left on 13th Street. Continue south till you get to Mulberry Street. The site is located on the city block between 12th and 13th Street and between Mulberry and Cherry Street.Site Description: The site is located in the downtown area of the City of Des Moines. The area is commercial. Currently there are two buildings onsite, one to the north and another to the south of the site. The two buildings are separated by an alley. The remainder of the site not occupied by the buildings is used as parking lot.Site Size: 1.806Site Dimension: ☒ Acres ☐ Square Feet
☐ Feet ☐ Square Miles ☐ MilesUSGS Quadrant: Des Moines, SW

USGS Hydro Unit: _____

Latitude: 41.5829 Longitude: 93.6321

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

Owner ☐ Bank/Loan Company ☐ Indian Lands
Operator ☐ County Owned ☐ Other
Type ☐ District Owned ☒ Private
☐ Federally Owned ☐ Mixed Ownership
☐ Former Federally Owned or Operated ☐ State Owned
☐ Government Owned/Contractor Operated ☐ Trustee, Federal
☐ Privately Owned/Government Operated ☐ Trustee, State
☐ Property Defaulted Back to Government
☐ MunicipalityOperational Status: ☐ Active ☐ Inactive ☐ Unknown

Non-NPL Status (Choose one):

☐ Addressed as part of NPL site (AX)
☐ Combined PA/SI Ongoing (CO)☐ Deferral of NPL Listing Dec. While States
Oversee Resp. (SD)☐ ESI Ongoing (EO)☐ ESI Start Needed (ES)☐ Fed Fac ESI Review Start Needed (FE)☐ Fed Fac Prelim Assessment Rev Ongoing (PG)☐ Fed Fac Prelim Assessment Rev Start Needed (PN)☐ Fed Fac Site Inspection Rev Ongoing (FG)☐ Fed Fac Site Inspection Rev Start Needed (FS)☐ HRS Ongoing (HO)☐ HRS Package Completed-Further Eval. Needed (HN)☐ HRS Start Needed (HS)☐ Integrated ESI RI Ongoing (IO)☐ Integrated ESI/RI Start Needed (IS)☐ Integrated Removal/Remedial Eval Ongoing (IN)☐ Integrated Removal/Remedial Eval Start Needed (IR)☒ NFRAP (NF)☐ Other Cleanup Activity:☐ Fed Fac-lead Cleanup (OF)☐ Other Cleanup Activity:
Private Party-Lead Cleanup(OP)☐ Other Cleanup Activity:☐ State-Lead Cleanup (OS)☐ Other Cleanup Activity:☐ Tribal-lead Cleanup (OT)☐ PA Ongoing (PO)☐ PA Start Needed (PS)☐ Ref to Rvl-Further Assess Needed (RW)☐ Referred to Rvl - NFRAP (RR)☐ Removal Only Site (No Site Assess Work) (RO)☐ SI Ongoing (SO)☐ SI Start Needed (SS)☐ SIP Ongoing (SG)☐ SIP Start Needed (SN)☐ Site Reassessment Ongoing (SR)☐ Status Not Specified (SX)☐ Site Reassessment Start Needed (RN)

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: _____

☐ **MP-Manufacturing/Processing/Maintenance - Applicable sub-categories:**☐ CA-Chemicals and allied products☐ CG-Coal gasification☐ CP-Coke production☐ **EP-Electric power generation and distribution.**☐ EE-Electronic/electrical equipment☐ FT-Fabrics/textiles☐ WP-Lumber and wood products/wood preserving/treatment☐ MF-Metal fabrication/finishing/coating and allied industries☐ OR-Oil and gas refining☐ OP-Ordnance production☐ PR-Plastics and rubber products☐ PM-Primary metals/mineral processing☐ RA-Radioactive products☐ TA -Tanneries ☐ OT-Other-Description(needed): _____☐ TS-Trucks/ships/trains/aircraft and related components☐ **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)☐ IL-Industrial waste landfill☐ MD-Mine tailings disposal ☐ OT-Other-Desc.(needed): _____☐ 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-Desc.(needed): _____☐ GP-Ground water plume site with no identifiable source☐ MO-Military/Other Ordinance☐ PS-Product storage/distribution☐ RD-Research, development, and testing facility☐ RC-Retail/commercial☐ 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☐ **RE-Recycling - Applicable sub-categories**☐ AT-Automobiles/tires ☐ DT-Drums/tanks ☐ WO-Waste/used oil☐ BS-Batteries/scrap metals/secondary smelting/precious metal recovery☐ CC-Chemicals/chemical waste (e.g., solvent recovery)☐ OT- Other-Description (needed): _____

Signatures:

(NOTE: Data analysts will send form to Records Center after data entry and QA.)

State:

Cal Delaney

Date:

12/22/06

RPM/OSC/SAM:

Date:

/ /



REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

Site Name: Nationwide Parking Garage Identified By: _____

Address: 1206 Mulberry Street

City, State, Zip: Des Moines, IA 50309

NPL Status: = : 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): Amerus Insurance Group, Iowa Health Home Care

Directions to Site: Proceed west on Grand Avenue from Wallace Building. Make a left on 13th Street. Continue south till you get to Mulberry Street. The site is located between Mulberry and Cherry and between 12th and 13th Street.

Site Description: The site is located in downtown of the City Des Moines. The area is commercial. Currently there are two buildings onsite - one on the north and the other on the south side of the site. The two buildings are separated by an alley. The remainder of the sites not occupied by buildings is used as parking lot.

Site Size: 1.806

Site Dimension: ☒ Acres ☐ Square Feet
☐ Feet ☐ Square Miles ☐ Miles

USGS Quadrant: Des Moines, SW

USGS Hydro Unit: _____

Latitude: 41.5829

Longitude: 93.6321

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

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

Owner ☐ Bank/Loan Company ☐ Indian Lands
Operator ☐ County Owned ☐ Other
Type ☐ District Owned ☒ Private
☐ Federally Owned ☐ Mixed Ownership
☐ Former Federally Owned or Operated ☐ State Owned
☐ Government Owned/Contractor Operated ☐ Trustee, Feder
☐ Privately Owned/Government Operated ☐ Trustee, State
☐ Property Defaulted Back to Government
☐ Municipality

Operational Status: ☒ Active ☐ Inactive ☐ Unknown

Non-NPL Status (Choose one):

☐ Not a Valid Site or Incident ☐ Not a Valid Site or Incident: NRC Lead
☐ Not a Valid Site or Incident: RCRA Lead ☒ Not a Valid Site or Incident: State Lead
☐ Not a Valid Site or Incident: Tribal Lead

Add Action: OU_00

: **PRE-CERCLIS SCREENING** Planned Complete: ____/____/____

Actual Complete: ____/____/____

Lead code (choose one):

☐ F-EPA Fund Financed ☐ FF - Federal Facility ☒ S - State, Fund Financed

SCAP Note: _____

Add below Action (if No Further Action):

OU_00 Lead: EP

☐ PRE-CERCLIS ARCHIVE Actual Complete: ____/____/____

SCAP Note: _____

Comments: ☐ Site or ☐ Action: No further action

Signatures:

(NOTE: Data analysts will send form to records center after data entry and QA.)

PRE-CERCLIS INITIATION FORM

NPL Status = O-NOT A VALID SITE OR INCIDENT

☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ States
☐ Other Federal Agency Check if ☐ FUD Site

County Name: Polk

ID (if one exists): _____

Congressional District: 3

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: _____

☐ **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
☐ 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
☐ PR-Plastics and rubber products
☐ PM-Primary metals/mineral processing
☐ RA-Radioactive products
☐ TA-Tanneries ☐ OT-Other-Description(needed): _____
☐ TS-Trucks/ships/trains/aircraft and related components

☐ **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-Desc.(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-Desc (needed) _____
☐ GP-Ground water plume site with no identifiable source
☐ MO-Military/Other Ordinance
☐ PS-Product storage/distribution
☐ RD-Research, development, and testing facility
☐ RC-Retail/commercial
☐ 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

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

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

States: Cal Hall Date: 12 / 22 / 06 RPM/OSC/SAM: _____ Date: ____ / ____ / ____



REGION VII
U.S. ENVIRONMENTAL PROTECTION AGENCY

ENFORCEMENT SENSITIVE INFORMATION
FOR INTERNAL USE ONLY

LOCATION FORM - (Required information highlighted in red)

SITE NAME: Nationwide Parking Garage, Des Moines

EPA ID: _____

Latitude: 41.5829
(Decimal Degree format)

Longitude: 93.6321

Measurement Sequence: _____
(See Comment A)

Lat/Long Source: ☒ Contractor
☐ Dun & Bradstreet
☐ EPA Region 7
☐ Geograph
☐ Other Federal Agency
☐ Regulated Entity
☐ State

☐ EPA Headquarters
☐ Epic
☐ Other
☐ Private
☐ SNAP
☐ Tribe
☐ Unknown

☐ (Blank)

Designate Lat/Long: ☐ Primary

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

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

Reference Datum: ☐ NAD27 ☒ NAD83 ☐ Other ☐ Unknown ☐ WGS84 ☐ (Blank)

Accuracy Meters +/-: _____ Collection Date: ____/____/____

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

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

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

COMMENTS: _____

Signatures:

RPM/OSC: _____ Date: ____/____/____ BRANCH CHIEF: _____ Date: ____/____/____

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.

Nationwide Garage Site, Des Moines

