CON 12-15
Doc # 2691

Union Pacific Railroad Fueling Facility, Mason City
ISS

Hylton Jackson
8/22/2005

RECORD COPY

File Name_____

Sender's Name_____

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 17.2 acre site is used for fueling diesel locomotives. A few storage buildings and the fuel storage and distribution system occupy the site. There are 4 fueling points located along the fuel tracks. Two were capped at an unspecified date and 2 remain active. The site is located in an industrial area in the northwest corner of Mason City. The nearest residential area is approximately 1,000 feet to the west.

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.)

DAHL Associates was contracted by Chicago & North Western Transportation Company (CNW) and performed an environmental site audit on May 25, 1994. Sixteen test borings (TB) were advanced and soil samples were submitted and analyzed for total extractable hydrocarbons (TEH) by Iowa Method OA-2. TB-7 and TB-16 were developed as monitoring wells, MW-1 and MW-2. Groundwater samples were collected from each and analyzed for BTEX and TEH.

On November 3, 2004 Delta Environmental Consultants arrived on-site and attempted to collect groundwater samples. MW-1 was observed to be damaged and was unusable as a groundwater monitoring point. MW-2 was not located and was presumed to be destroyed during fueling area improvements. On April 19, 2005 two monitoring wells, MW-1R & MW-2R, were advanced on-site to depths of 14 feet bgs where bedrock was encountered. These wells were sited as close as possible to the presumed locations of the original monitoring wells MW-1 and MW-2. Soil from MW-2R was FID field screened at 2-foot intervals and a sample for laboratory analysis (TEH & BTEX) was selected from 7.5 feet bgs (just above the field-observed water table). No soil was sampled from MW-1R. A groundwater sample from each well was collected and analyzed for TEH and BTEX.

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.

Soil:
MW-2R
No detects

Groundwater
MW-1R

Toluene, ethylbenzene, and xylene were detected below the Statewide Standard.
TEH Diesel, and TEH Motor Oil were detected below Tier I levels for potential ingestion.
TEH Gasoline was detected (no Tier I level)

MW-2R
TEH Motor Oil was detected below Tier I levels for potential ingestion.

During the 1994 site assessment, 0.17 feet of free product was detected in groundwater at MW-1. TPH was detected in soil at this location at 23,000 ppm.

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 located in the source water protection area (10-year capture zone) for the City of Mason City. Records indicate that the 6 wells in this well-field are from 1,200 to 1,300 feet deep. No shallow wells (< 200 feet deep) are located within 2,000 feet of the site.

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 original (1994) site assessment classified the site as "high risk" based on the fact that free product had been detected and it was not known if or to what extent bedrock (encountered at 14 feet bgs) had been affected. Only 1 soil sample and 2 groundwater samples were collected on-site in 2005. Shallow groundwater at the site is not presently accessed and is not anticipated to be utilized in the future. The limited data does not indicate a serious risk to human health and the environment. Contaminants detected at the site can be attributed to petroleum (AST) and are covered under 567 IAC 133. No further investigation is currently required.

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: Hylton Jackson (Name/Title) 8/24/2005 (Date)
502 East 9th Street, Des Moines, IA 50319 (Address) 515 242 5084 (Phone)
Hylton.Jackson@dnr.state.ia.us (E-mail Address)

Site Name: Union Pacific Railroad Fueling Facility, Mason City

Previous Names (if any): Chicago & North Western Transportation Company

Site Location: 700 feet west of Quincy Ave. & 16 St.
Mason City (City) IA (ST) 00000 (Zip)

Latitude: 43.170259 **Longitude:** 93.213458

Compare the following checklist. If "yes" is marked, please explain below.	YES	NO
1. Does the site already appear in CERCLIS?	☐	☒
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?	☐	☒
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?	☐	☒
4. Is the release into a public or private drinking water supply due to deterioration of the system through ordinary use?	☐	☒
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?	☐	☒
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)?	☒	☐
7. Are the hazardous substances potentially released at the site excluded by policy considerations (e.g., deferral to RCRA Corrective Action)?	☐	☒
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)?	☐	☒

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

Contaminants detected can be attributed to petoleum (AST) and are covered under 567 IAC 133.

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:
The original (1994) site assessment classified the site as "high risk" based on the fact that free product had been detected and it was not known if or to what extent bedrock (encountered at 14 feet bgs) had been affected. Only 1 soil sample and 2 groundwater samples were collected on-site in 2005. Shallow groundwater at the site is not presently accessed and is not anticipated to be utilized in the future. The limited data does not indicate a serious risk to human health and the environment. Contaminants detected can be attributed to petroleum (AST) and are covered under 567 IAC 133. No further investigation is currently required.

Regional EPA Reviewer:

Print Name/Signature | Date

State Agency/Tribe:

AL LUNDGREN | 9/8/05

Print Name/Signature | Date

REGION VII U.S. EPA SUPERFUND

SITE DISCOVERY ENTRY FORM

Discovery Lead *(choose one)*:

Discovery Date: 8/17/2005 ☒ F-EPA Fund Fin ☐ S-State Fund Fin ☐ FF-Fed Fac ☐ EP-EPA-In-house ☐ TR Tribal Lead - Fund Fin

Removal **Check if,** ☐ FUD Site

Site Name: Union Pacific Railroad Fueling Facility, Mason City **Initiated Date** ____/____/____

Identified By: ☐ Removal ☒ Site Assessment ☐ States

☐ Fed. Facilities ☐ Other Fed. Agency

Address: 700 feet west of Quincy Ave. & 16th St. County Name: Cerro Gordo

City, State, Zip: Mason City, IA 00000 State ID (if one exists):____ Congressional District: 4

NPL Status: ☐ Currently on the Final NPL ☒ Not on the NPL ☐ Deleted on the final NPL ☐ Pre-Proposal Site ☐ Site is Part of NPL Site
☐ Proposed for NPL ☐ Removed from Proposed NPL ☐ Withdrawn

Section: ☐ C-(STAR) SPFD Technical Assistannce/Re-Use Branch ☐ L-(EFLR) Enfr/Fund Lead RV Branch **Fed Fac Ind:** ☐ Federal Facility
☐ F-(FFSE) Federal Facilities/Apecial Emphasis Brnach ☐ M-(MOKS) MO/KS Remedial Branch ☐ Not a Federal Facility
☒ I-(IANE) IA/NE Remedial Branch ☐ O-(ER&R) Emergency Response & RV Branch ☐ Status Undetermined

List Site Alias Name (s): Chicago & North Western

Directions to Site: From I-35 west of Mason City take exit #194/US-18 WEST/IA-122 toward CLEAR LAKE/MASON CITY - go 0.3 mi. Turn right on 265TH ST[US-18-BUS] - go 4.3 mi. Continue to follow US-18-BUS - go 2.2 mi. US-18-BUS becomes IA-122 EAST - go 0.3 mi. Turn left on PIERCE AVE - go 1.0 mi. Turn right on 12TH ST NW - go 0.5 mi. Turn left on N QUINCY AVE - go 0.4 mi. The site is located 700 feet west.

Site Description: Railroad freight switching yard and locomotive fueling area

Site Size: 17.2

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

USGS Quadrant: Mason City 7.5' USGS Hydro Unit: ____

Latitude: 43. 170259 **Longitude:** 93.213458
(Decimal Degree format/with release of 3.17 see attached required location data form)

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

Operational 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.)

Updated by System Research Group
17FEB 05

State: Cal Fed Date: 9/8/05 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: Union Pacific Railroad Fueling Facility **EPA ID:** _____

Latitude: 43.170259 *(Decimal Decree format)* **Longitude:** 93.213458 **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-Footin
- ☐ 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 Trtmnt Unit
- ☐ Boundary Point
- ☐ Building Entrance
- ☒ Facility/Centroid Cent
- ☐ Facility/Station Bldg Entranc
- ☐ 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 Trtmnt/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 +/-: 5 **Collection Date:** 8/29/2005

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

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:

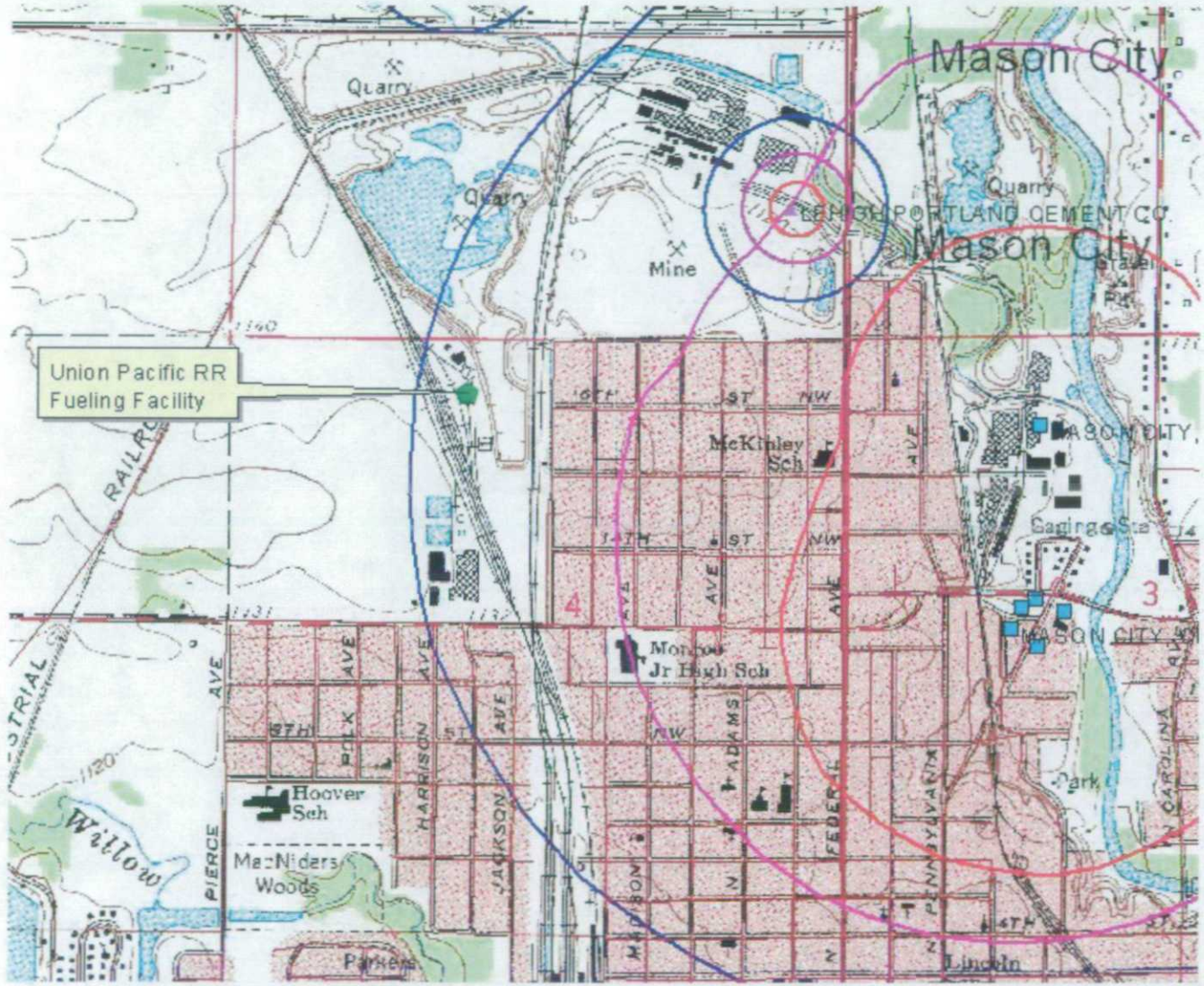
RPM/OSC:_____ **Date:**____/____/____ **BRANCH CHIEF:**_____ **Date:**____/____/____

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.

Updated by System Research Group

Last Update: 02/17/2005

UPRR
Fueling Facility



Fields of Opportunities

STATE OF IOWA

THOMAS J. VILSACK, GOVERNOR
SALLY J. PEDERSON, LT. GOVERNOR

DEPARTMENT OF NATURAL RESOURCES
JEFFREY R. VONK, DIRECTOR

September 13, 2005

Mr. Jeffrey McDermott
Union Pacific Railroad Company
1400 Douglas Street – Stop 1030
Omaha, NE 68179

RE: Union Pacific Railroad Fueling Facility, Mason City

Dear Mr. McDermott

The IDNR has reviewed the Site Reconnaissance Report for the Union Pacific Railroad Fueling Facility in Mason City, Iowa.

Some contaminants were detected at the site in groundwater samples. The original (1994) site assessment classified the site as "high risk" based on the fact that free product had been detected and it was not known if or to what extent bedrock (encountered at 14 feet bgs) had been affected. Only 1 soil sample and 2 groundwater samples were collected on-site in 2005. Shallow groundwater at the site is not presently accessed and is not anticipated to be utilized in the future. The limited data does not indicate a serious risk to human health and the environment. Contaminants detected at the site can be attributed to petroleum (AST) and are covered under 567 IAC 133.No further investigation is currently required.

Please note, however, that it is the position of the department that environmental reports (such as the Site Reconnaissance Report for the Union Pacific Railroad Fueling Facility) are not considered in-depth investigations but cursory in nature and do not completely characterize conditions at most sites. The decision to defer further action at the Union Pacific Railroad Fueling Facility, Mason City is subject to revision if future information about this site suggests a change is warranted.

Please contact me at (515) 242-5084 if you have any questions regarding this decision.

Sincerely,

Hylton Jackson, Environmental Specialist-IDNR

Cc: Cal Lundberg, Contaminated Sites Supervisor-IDNR
IDNR Field Office #2
Heidi Peterson, Delta Environmental Consultants, Inc., 985 Lincoln Road, Bettendorf, IA 52722