



Site
Investigation
Report
Review

SIRR Report
for
Unassigned Uncontrolled Sites

SIRR ID P63-0005
Site Name BNSF, GLOVER
City Location Knoxville
Site Type Property Audit
County Marion

Screening Activity Initial Site Screening

SITE INFORMATION

Property Owner Burlington Northern & Santa Fe Railroad Co.
Mailing Address 920 SE Quincy, P.O. Box 1738
Topeka, KS 66601-1738
Location/Legal Description 120' X 130' lot ((15,600 sq. ft.)
SW corner of Rock Island Street and Kent Street
Knoxville, IA
Size Of Property 15,600 sq. feet
Report Prepared By EMR, Inc.
Report Submitted By BNSF, K. Jack Clay

Date Report Submitted 01/20/2004

Current Usage Inactive

REPORT INFORMATION SUMMARY

I. Summarize the data submitted (no., type, depth of soil borings, surface samples, ground water samples, other sampling conducted, analyses performed, contamination identified, etc.)

Three borings (20, 16, and 12 feet bgs) were completed on-site and the results were used in preparation of a Limited Phase II Assessment Report. No Phase I has been done. All borings were advanced to groundwater. A soil sample was obtained from each boring at depths ranging from 2 to 5 feet bgs and submitted for laboratory analysis. TEH as diesel, gasoline range hydrocarbons and xylenes were detected in the soil samples.

A groundwater sample from each boring was submitted for laboratory analysis. All samples tested for OA-1 (BTEX) and OA-2 (TEH). TEH as diesel, gasoline range hydrocarbons, TPH, benzene, ethylbenzene, and xylenes were detected groundwater.

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

The property was formerly a bulk oil storage site operated by Sinclair Refining. The site is currently owned by Burlington Northern Santa Fe Railroad Company and had been leased (1993) to Dwight Glover, operator of Glover Sanitation. The site was used for storing a truck and cars and the location of the business' shop. A concrete drainage culvert crosses the north sloping site. There is one section of exposed piping in the southwest corner of the site and exposed piping on the neighboring site to the west.



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III. Summarize the other relevant information (include what may have been learned or known from sources other than the report itself, such as DNR files)

The site lies within the 2-year Source Water Protection Area for the Knoxville Municipal PWS.

REVIEW SUMMARY

Contaminant Type Petroleum

I. Summarize your findings and conclusions regarding the contaminants found and their extent and concentrations. Relate those values known criteria such as water quality standards, MCLs, established cleanup levels, background or any other relevant or useful benchmarks used to determine the site's priority.

Soil:

TEH as diesel fuel was detected in GP-1 at 3,700 mg/kg and was close to exceeding the statewide standard of 3,800 mg/kg.

Groundwater:

TEH as diesel fuel was detected in GP-2 at 3,000 ug/L and exceeded the statewide standard of 1,200 ug/L. It was the only contaminant exceeding a statewide standard.

II. Summarize the potential or actual impacts of the contamination. What is known about the neighboring area, i.e., are there residences, businesses, public use areas, etc.? Are there wells in the area that could be potentially impacted? Are there identified contaminant pathways such as water or sewer lines, drain tiles, or fissures? Identify any other use/location issues that deserve consideration in any priority assignment.

One sealed 55-gallon drum of unknown material is stored on-site and must be properly removed/disposed of. A concrete drainage culvert crosses the north sloping site. There is one section of exposed piping in the southwest corner of the site and exposed piping on the neighboring site to the west. The site is approximately 700 feet west/northwest of Knoxville's Municipal Well #1 and is in the 2-year source water protection zone.

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

One water sample (from GP-2) exceeds the statewide standard for TEH as diesel in groundwater. The three borings were all placed in the northern ½ of the site. There are some indications (exposed piping and the proximity of the rail siding) that there may be some environmental concerns along the southern portion of the site. At this point, insufficient data has been submitted to determine the potential environmental risks or legal responsibility of any party.

In order to assess the site status, the Department is requesting that BNSF submit a work plan that will address some of these possible environmental concerns as well as identifying the content of the 55-gallon drum. The work plan will be due 60 days after BNSF receives the request. The site will continue under will go on to an ESS under CERCLA.

PRIORITY LEVEL

Priority Level 2

PROGRAM AUTHORITY REFERRAL

Program Authority Referral CERCLA Pre-Remedial

Other Referral



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ISS/Form Completed By Hylton Jackson

Date ISS Completed 05/17/2004

ESS Completed B

Date ESS Completed

Date Completed

Form Reviewed

A handwritten signature in cursive script, reading 'Cal Smalley', is written over the 'Form Reviewed' label.

Date Reviewed

5/19/2004

REGION VII U.S. EPA SUPERFUND
NO DISCOVERY DATE

PRE-CERCLIS INITIATION FORM
NPL Status = O-NOT A VALID SITE OR INCIDENT

Identified By: ☐ Brownfields ☐ Other Federal Agency ☐ States
☐ Removal ☒ Site Assessment ☐ Federal Facilities ☐ FUD Site

Site Name: BNSF, Glover

Address: Southwest corner of Rock Island Street and Kent Street

County Name: Marion

City, State, Zip: Knoxville, IA 50138

State ID (if one exists): _____

Congressional District: 3

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): _____

Directions to Site: From the intersection of Iowa Hwy 5 and Iowa Hwy 14 on the south side of Knoxville, proceed north on Iowa Hwy 14 (South Lincoln Street) 3 miles to West Rock Island Street. Proceed east on West Rock Island Street to North Kent Street. The Site sits approximately 150 feet southwest of the intersection of West Rock Island Street and North Kent Street.

Site Description:

Site Size: 15,000

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

USGS Quadrant: Knoxville 7.5' USGS Hydro Unit: _____

Latitude: 41.326514 Longitude: 93.102930

(Decimal Degree format)

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

Lat/Long Source: ☐ EPA Region 7 ☐ EPIC
☐ Regulated Entity ☐ Private ☐ Geograph
☐ SNAP ☒ Other ☐ Other Fed Agency
☐ Contractor ☐ EPA HQ

Owner ☐ Bank/Loan Company ☐ Indian Lands
Operator ☐ County Owned ☐ Other
Type ☐ District Owned ☒ Private
(choose 1): ☐ 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
☐ Municipality

Operational Status: ☐ Active ☒ Inactive ☐ Unknown
Incident Type: ☐ Non-Oil Spill ☐ Oil Spill ☒ 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: 5/10/2004

Actual Complete: 5/17/2004

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: _____

Comment: ☐ Site or ☐ Action:

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

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
☐ LW-Lumber and wood products/pulp and paper
☐ 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 G 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) Site was leased to Glover Saitation for use as equipment storage/maintenance
☐ 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 G 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): _____

Signatures: States: Cal Lundberg

Date: 5/19/04

RPM/OSC/SAM: _____

Date: _____

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, IDNR Environmental Specialist 5/10/2004
 (Name/Title) (Date)
502 East 9th Street, Des Moines, IA 50319 (515) 242-5084
 (Address) (Phone)
Hylton.Jackson@dnr.state.ia.us
 (E-mail Address)

Site Name: BNSF Glover

Previous Names (if any): _____

Site Location: SW of intersection of Rock Island Street and Kent Street
 (Street)
Knoxville IA 50138
 (City) (ST) (Zip)

Latitude: 41.326514 **Longitude:** 93.102930

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:

Contamination detected during the Limited Phase II Assessment is attributed to petroleum.

- 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 site lies within the 2-year Source Water Protection Area for the Knoxville Municipal PWS. One water sample (from GP-2) exceeds the statewide standard for TEH as diesel in groundwater. The three borings were all placed in the northern ½ of the site. There are some indications (exposed piping and the proximity of the rail siding) that there may be some environmental concerns along the southern portion of the site. At this point, insufficient data has been submitted to determine the potential environmental risks or legal responsibility of any party.

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Regional EPA Reviewer:

Print Name/Signature

Date

State Agency/Tribe:

Print Name/Signature

Date

Cal Lundberg Cal Lundberg 5/19/04

BNSF, Glover

