Site Name: Johnson Oil, Lease No. 84010, Muscatine

Initial Site Screening (ISS)

CON 12-15 Doc #28976

Project Manager: Tami S. Quam

Date: December 17, 2013

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:					
Latitude: 41.4001 Longitude: -91.0728 County: Muscatine					
USGS Quadrant:					
Site Size: <u>2,150</u>					
Site Dimension: Acres Square Feet Square Miles Miles					
Site Alias Name(s):					
Congressional District: 2					
Grant Recipient Name, Address & Contact: <u>NA</u>					
Current Owner & Address: <u>Canadian Pacific, 120 South Sixth Street, Suite 900, Minneapolis, Minnesota 55402</u>					
Responsible Party Name(s) & Address, if different from current owner: Unknown at this time					
Site Street Address or Tier, Range, Section & Subsections (if street address is unknown)					
NW 1/4 of Section 10, T76N, R2W, Muscatine, Muscatine County, Iowa					
Directions to site: From Des Moines, go east om I-80. Take exit 239A to merge					

Directions to site: From Des Moines, go east on 1-80. Take exit 239A to merge onto US-218 S. Take exit 80 and turn left onto IA-22. Turn right onto US-61 S and turn left onto Grandview Ave. Take the 1st right onto Sampson St and the site is located on the east side of the RR tracks north of Sampson St.

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 is owned by Canadian Pacific and is currently vacant. The railroad has leased the property since about 1947 and it has been used to store petroleum products for about the last 40 years. The site was at one time occupied by three vertical aboveground storage tanks (ASTs) and a building. A Phase I Environmental Site Assessment dated July 2013 identified the following recognized environmental conditions (RECs):

- Johnson Oil (onsite)- the site has been used to store and distribute petroleum products for the past 40 years. In addition, the presence of debris stockpiled onsite represented a REC.
- HON Industries (offsite)- this property has been used for storage and distribution of petroleum products, naphtha, and other chemicals for over 50 years.
- Petroleum Storage Southeast of the Site (offsite)- this property has stored petroleum products since about 1948. There was an underground storage tank (UST) previously located onsite and a petroleum release has been documented on the property.

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.)

The site assessment consisted of four soil borings (SB-1 through SB-4) drilled to 25 feet deep. Soil was field screened using a photoionization detector (PID) and one soil sample from each boring was submitted for analysis of total petroleum hydrocarbons (TPH), total extractable hydrocarbons (TEH), volatile organic compounds (VOCs), semi-volatile organic compounds (SVOCs), and RCRA metals. Temporary monitoring wells were installed in each boring to collect groundwater samples which were analyzed for TPH, TEH, VOCs, SVOCs, and dissolved RCRA metals. Groundwater was encountered onsite at about 21 feet deep; however, saturated soil was observed at 12 to 15 feet deep.

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.

VOCs were observed in soil samples SB-1, SB-2, and SB-3; SVOCs were observed in soil samples SB-1 and SB-3; and TEHs were observed in soil sample SB-3. RCRA metals were detected in all of the soil samples. TPH was detected in SB-1 and SB-3; however, there is no standard for TPH in soil. In groundwater, RCRA metals were detected in all of the samples while TEHs were detected in SB-1, SB-2, and SB-3. None of the contaminant concentrations detected in soil or groundwater exceeded an applicable standard. No light non-aqueous phase liquid (LNAPL) was observed in the temporary monitoring wells prior to abandoning the wells.

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.

Within a quarter mile radius of the site there are four commercial wells owned by Grain Processing Corp. which range in depth from 75 feet to 81 feet. Between a quarter mile and half mile radius of the site, there are several plugged wells, a 93 foot deep USGS exploration well, and approximately 13 commercial wells owned by Grain Processing Corp. that range in depth from 57 feet to 79 feet deep. The Mississippi River is located approximately 3,700 feet east of the site. The site is located in the 5 year capture zone for the alluvial aquifer utilized by Muscatine Power & Water.

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

Summarize the reasoning, knowledge or any other information used in determining your recommendation regarding the priority assigned to this site. As noted above, several contaminants were detected in soil and groundwater onsite but none of the concentrations exceeded a standard. Elevated PID readings and petroleum odors were observed in soil from boring SB-3; however no elevated concentrations of contaminants were observed in soil or groundwater onsite. Based on the low contaminant concentrations observed onsite, additional investigation is not required at this time. The site is not a candidate for the Extended Site Screening (ESS).

 ☑ No further action ☐ Additional investigation under state ☐ Additional investigation under CER ☐ Transfer to LUST/UST 	
Form Reviewed: <u>(al Gundlerg</u>	Date Reviewed: <u>/2/20//3</u> Revised 11/2012

Site recommended for:

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:	Tami S. Quam Dec. 19	Dec. 19, 2013					
	(Name/Title) (Date)						
	1-4420						
•	502 E 9 th Street, Des Moines, Iowa 50319 515-281- (Address) (Phone)						
-	tami:quam@dnr.iowa.gov (E-mail Address)						
Site Name:	Johnson Oil, Lease No. 84010						
Previous Names (if any):							
Site Location:	NW 1/4 Sec. 10, T76N, R2W						
	Muscatine lowa 52761						
•	(City) (ST) (Zip)	-					
Latitude:	41.4001 Longitude: -91.0728						
-							
	checklist. If "yes" is marked, please explain below.	YES	NO				
1. Does the site already							
	roducts that are part of the structure of, and result in exposure within, businesses or community structures?		\boxtimes				
	of a release of a naturally occurring substance in its unaltered form,						
	naturally occurring processes or phenomena, from a location where						
it is naturally found?		_					
	a public or private drinking water supply due to deterioration of		\boxtimes				
the system through or							
5. Is some other program actively involved with the site (i.e., another Federal, State, or Tribal program)?							
	ubstances potentially released at the site regulated under a statutory						
exclusion (i.e., petroleum, natural gas, natural gas liquids, synthetic gas usable for fuel,							
	tilizer, release located in a workplace, naturally occurring, or	\boxtimes					
regulated by the NRC, UMTRCA, or OSHA)? 7. Are the hazardous substances potentially released at the site excluded by policy							
	ferral to RCRA Corrective Action)?		$oxed{oxed}$				
	cumentation that clearly demonstrates that there is no potential for a						
	e adverse environmental or human health impacts (e.g.,						
	Il investigation equivalent data showing no release above ARARs, on, documentation showing that no hazardous substance release		$ \boxtimes $				
	proved risk assessment completed)?						
	answer(s), attach additional sheets if necessary:		·····				
Petroleum products w	vere detected onsite.						
•							
L			_				

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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).
were detected in soil says soil standard. TPH, barno standard for TPH and standard. In groundward groundwater samples ITEH as waste oil was dexceedence was observing estion standard for aqueous phase liquid (abandoning the wells.	VOCs, SVOCs, and TEH were detected in soil sample SB-1 and SVOCs ample SB-2 but the concentrations observed did not exceed a respective frium, and chromium were detected in all of the soil samples but there is not the concentrations of barium and chromium observed did not exceed a ster, SVOCs were detected in SB-1 and barium was detected in all the out the concentrations observed did not exceed a standard. In addition, detected in all of the groundwater samples but the only groundwater rived in SB-3 at a concentration of 446 ug/L. The actual groundwater TEH as waste oil from the Tier 1 Look-Up Table is 400 ug/L. No light non-LNAPL) was observed in the temporary monitoring wells prior to Based on the low contaminant concentrations observed onsite, additional uired at this time. The site is not a candidate for the Extended Site
Regional EPA Reviewer	Print Name/Signature Date
State Agency/Tribe:	CAL LUNDBERG Col Gandle 12/20/13 Print Name/Signature Date



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

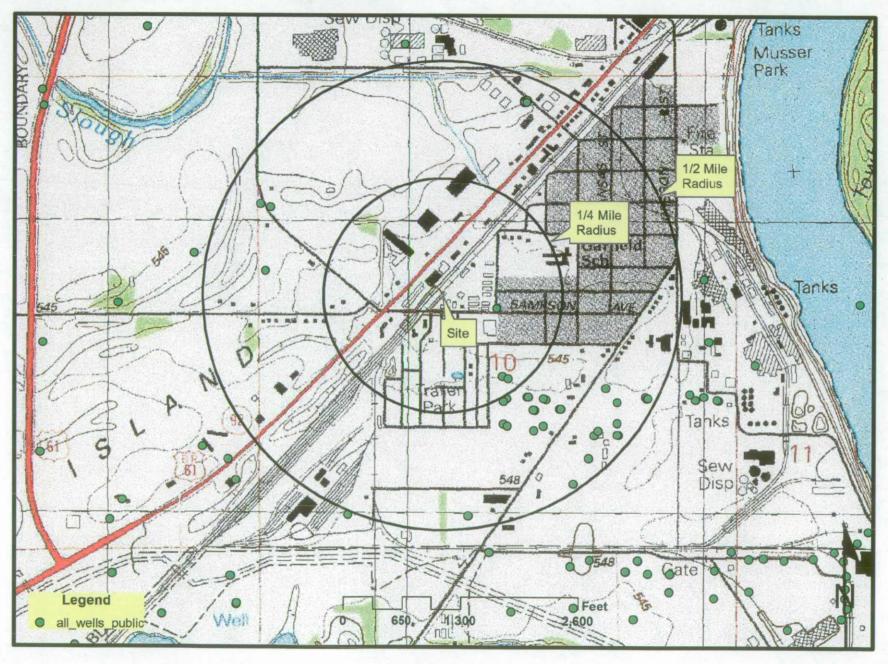
Site Name: <u>Johnson Oil, Lease No. 84010, Muscatine</u> Identified By:	☐ Removal ☐ Site Assessment ☐ Federal Facilities ☐ States ☐ Other Federal Agency Check if: ☐ FUD Site
Address: NW 1/4 Sec. 10, T76N, R2W County Name: M	<u>Muscatine</u>
City, State, Zip: Muscatine, lowa 52761 State ID (if one exists):	Congressional District: 2 deral Facility
) Enfr/Fund Lead RV Branch
List Site Alias Name (s):	
Directions to Site: <u>Take 180 east and take exit 239A to merge onto US-218 S</u> . <u>Take 1 Take 1 st right onto Sampson St and the site is on the east side of the RR tracks north</u>	exit 80 and turn left onto IA-22. Turn right onto US-61S and left onto Grandview Ave, of Sampson St.
Site Description: Vacant land adjacent to the railroad tracks that was previously used	d to store/distribute petroleum products.
USGS Quadrant: USGS Hydro Unit:	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):
Latitude: <u>41.4001</u> Longitude: <u>-91.0728</u>	
(Decimal Degree format) (with release of 3.17 see attached required location data form)	Primary Designation: OT MP-Manufacturing/Processing/Maintenance - Applicable sub-categories:
Lat/Long Accuracy: Seconds Miles Feet	CA-Chemicals and allied products
☐ Degrees ☐ Minutes ☐ Kilometers ☐ Meters	CG-Coal gasification
	CP-Coke production
	EP-Electric power generation and distribution.
Owner Bank/Loan Company Municipality	FT-Fabrics/textiles
Operator County Owned Other	EE-Electronic/electrical equipment
Type District Owned Private Federally-Owned Mixed Ownership	LW-Lumber and wood products/pulp and paper WP-Lumber and wood products/wood preserving/preserving/treatment
Former Federally Owned or Operated State Owned	MF-Metal fabrication/finishing/coating and allied industries
Former Federally Owned or Operated State Owned	OR-Oil and gas refining
Government Owned/Contractor Operated Trustee, Federal	OP-Ordnance production
Privately Owned/Government Operated Trustee, State	PR-Plastics and rubber products
Property Defaulted Back to Government Unknown	PM-Primary metals/mineral processing
Brownfields/Public	RA-Radioactive products
Operational Status: Active Inactive Unknown Blank	TA-Tanneries OT-Other-Description(needed): TS-Trucks/ships/trains/aircraft and related components
Native American Interest: Yes No	MI-Mining - Applicable sub-categories
	CO-Coal ME-Metals MM-Non-metal minerals
	OG-Oil and Gas OT-Other-Description(needed):
Non-NPL Status (Choose one):	WM-Waste Management - Applicable sub-categories
	CL-Co-disposal landfill (municipal and industrial)
Not a Valid Site or Incident NRC Lead	ID-Illegal disposal/open dump
Not a Valid Site or Incident: RCRA Lead ☐ Not a Valid Site or Incident: State Lead ☐ Not a Valid Site or Incident: Tribal Lead	☐ IF-Industrial waste facility (non-generator) ☐ MD-Mine tailings disposal ☐ OT-Other-Desc.(needed):
Not a valid Site of inicident. Those bead	ML-Municipal solid waste landfill
	RW-Radioactive waste treatment, storage, disposal (non-generator)
Add Action: OU_00_	OT-Other - Applicable sub-categories
PRE-CERCLIS SCREENING: Planned Complete:/	AG-Agricultural (e/g.,grain elevator)
	CS-Contaminated sediment site with no identifiable source
. A atomic Commission	DC-Dust control OT-Other-Desc (needed): GP-Ground water plume site with no identifiable source
Actual Complete:/	MO-Military/Other Ordinance
F-EPA Fund Financed FF - Federal Facility S - State, Fund Financed	PS-Product Storage/distribution
	RD-Research, development, and testing facility
·	RC-Retail/commercial
SCAP Note:	SE-Spill or other one-time event
	TP-Transportation (e.g., railroad yards, airport, barge docking, site)
Add b. L A sking (CNo Foreth - A sking)	TW-Treatment works/septic tanks/other sewage treatment
Add below Action (if No Further Action):	RE-Recycling - Applicable sub-categories
OU_00 Lead: EP PRE-CERCLIS ARCHIVE Actual Complete://	AT-Automobiles/tires DT-Drums/tanks WO-Waste/used BS-Batteries/scrap metals/secondary smelting/precious metal recovery
SCAP Note:	CC-Chemicals/chemical waste (e.g., solvent recovery)
Comments: Site or Action:	OT-Other-Description(needed):
Signatures: 7 1	- , , , , , , , , , , , , , , , , , , ,
States: Date: 22013 RPM/	OSC/SAM:

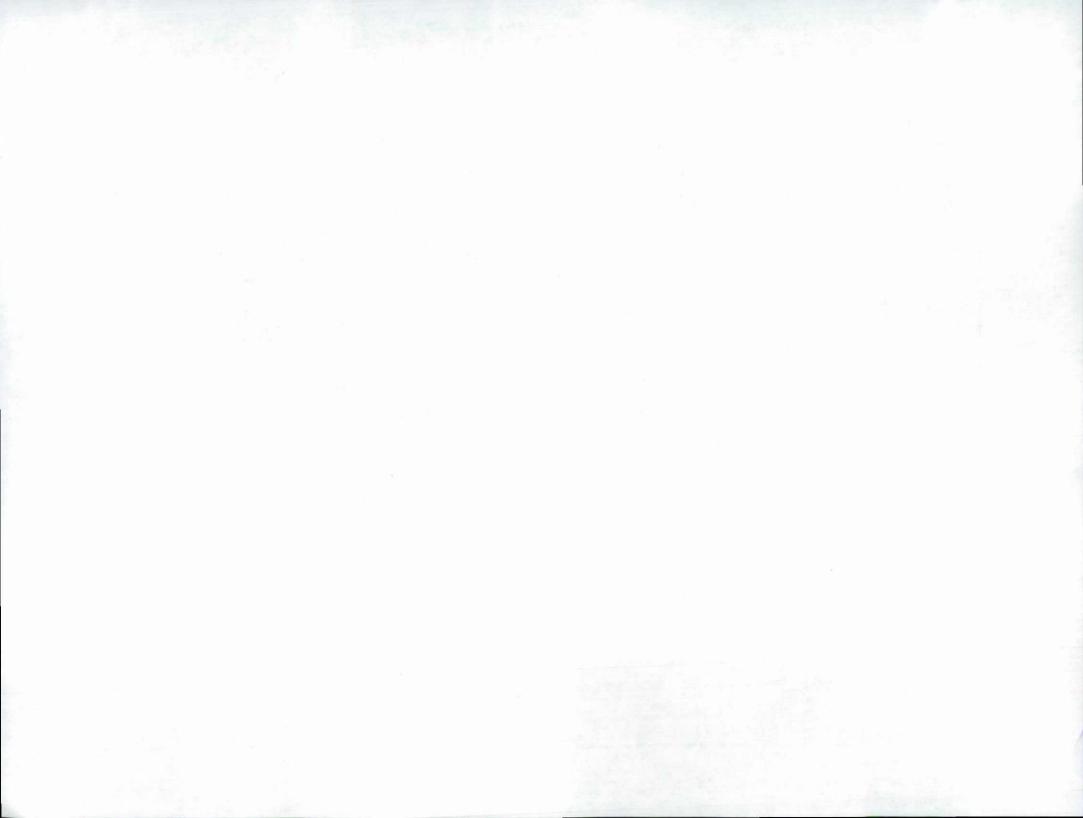
ENFORCEMENT SENSITIVE INFORMATION FOR INTERNAL USE ONLY

LOCATION FORM - (Required information highlighted in red)

SITE NAME: Johns	son Oil, Lease No. 84010, Musc	EP	EPA ID:			
Latitude: 41.4001 (Decimal Decree form	Longitude: <u>-91</u> . <u>0728</u> nat)	Measurement S	equence:(See Commen	t 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	☐ NPL Coordinate	
Address Matchi Address Matchi Census Block/T GPS Carrier Ph GPS Code (Pse GPS Code (Pse Interpolation-Ma	ract - 1990 - Centroid ase Static Relative Position ado Range) Differential ado Range) Standard Position ap Interpolation -MS	Address Matching - Print Census Block - 1990 - Census Block - 1990	nary Name Centroid chniques ematic Relative Position) Precise Position	GPS Code (Pseudo Ran nterpolation-Digital Map ellite	- Digitized up 1990-Centroid an Active Control System ge) Standard Position (SA-Off) Source (TIGER) nterpolation - SPOT Public Land Survey-Footing	
☐ Atmos. Emissio ☐ Intake Point	orage Area 🔲 Solid Waste Tr	Liquid Waste Total Liquid Waste Total Liquid Waste Total NW Corner of L (Personnel) Process U tmnt/Disp. Unit Store	ce ⊠ Facility/ reatment Unit ☐ Loading and Parcel ☐ Other Init Area Centroid ☐ F age Tank ☐ SW Col	Centroid Cent	Air Release Vent Facility/Station Bldg Entrance Loading Facility Plant Entrance (Freight) SE Corner of Land Parcel Unknown Treatment/Storage Plant	
Reference Datum:	□ NAD27 □ NAD83	Other	Unknown [☐ WGS84		
Accuracy Meters	+/-: 🔀 Accur	racy Unknown	Collection Date	e: <u>12/18/2013</u>		
Verification Method:	☐ Ground Truth Conducted ☐ Point in Polygon (Zip) ☐ Proximity to Polygon Cent ☐ Verified Relative to Map Form ☐ Verified Relative to Map Form ☐ Proximity to Polygon Cent	roid(Other)	Point In Polygon (County) Proximity to Alternative F Proximity to Polygon Cer /erified Relative to Map R /erified, Unknown Metho Point in Polygon (Other)	acility Coordinate) ntroid (Zip Code) Features (1:24K)	☐ Blank ☑ Not Verified	
Point/ Line/ Area:	☐ AREA ☐ LINE ☒	POINT REGION [ROUTE (BLAN	IK)		
Source Map Scale 1:62,500 OTHER	e:			☐ 1:25,000 ☐ 1:25,000 ☐ NONE	1:50,000 UNKNOWN	
COMMENTS:						
Signatures:						
RPM/OSC:		Date:/	BRANCH CHIEF:		Date:/	
	umber to indicate the order in w ure is polygonal or linear 3 num		are connected. For an a	area, the maximum poin	t is connected to the first.	

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