

Ms. Karen Kromar and
Ms. Stacey Hendry-Van Patten
Minnesota Pollution Control Agency
520 Lafayette Road North
St. Paul, Minnesota 55155-4194

Subject:

North Parking Area
Supplemental Phase II - Exterior Investigation Work Plan
Ford Twin Cities Assembly Plant, St. Paul, Minnesota
MPCA VIC Project Number VP23530
MPCA PBP Number PB3682

Dear Ms. Kromar and Ms. Hendry-Van Patten:

On behalf of Ford Motor Company (Ford), ARCADIS has prepared this *North Parking Area Work Plan* (Work Plan) as an addendum to the *Supplemental Phase II - Exterior Investigation Work Plan* submitted to the Minnesota Pollution Control Agency (MPCA) on May 13, 2008. This Work Plan was developed in accordance with the requirements of the MPCA Voluntary Investigation and Cleanup (VIC) Program and Petroleum Brownfields Program (PBP).

This Work Plan describes the investigation activities to be completed as described in an email from Ms. Amy Hadiaris of the MPCA dated May 2, 2008 (Attachment 1). All utility clearance, sampling protocols, quality assurance/quality control (QA/QC) measures, decontamination procedures, surveying protocols, and data management procedures will be completed in accordance with the field sampling plan (FSP) dated June 18, 2007 and the site-specific health and safety plan (HASP) dated March 12, 2007 that have been prepared for the Twin Cities Assembly Plant (TCAP) site, as well as described in the *Supplemental Phase II - Exterior Investigation Work Plan* dated May 13, 2008.

Background

Property Location and Description

TCAP is located at 966 South Mississippi River Boulevard in St. Paul, Ramsey County, Minnesota at the approximate easting coordinate 484562.5 meters (m) and northing coordinate 4973822.5 m. TCAP is located in a mixed industrial-,

ARCADIS
430 First Avenue North
Suite 720
Minneapolis
Minnesota 55401
Tel 612.339.9434
Fax 612.336.4538
www.arcadis-us.com

ENVIRONMENT

Date:

May 19, 2008

Contact:

Bryan Zinda

Phone:

612.373.0234

Email:

bryan.zinda@arcadis-us.com

Our ref:

MN000593.0003

commercial-, and residential-use area on the eastern shore of the Mississippi River, along the east side of South Mississippi River Boulevard, south of Ford Parkway and west of South Cleveland Avenue.

Scope of Work

The North Parking Area consists of approximately 29 acres and is mainly used for employee parking, as well as storage for newly built Ford Ranger and Mazda B-series trucks prior to shipment off-site. The area was divided into 1-acre grids and is depicted on Figure 1.

One boring will be installed within each grid except for those grid locations in which either a well or boring is currently installed or a well or boring will be installed during the Supplemental Phase II – Exterior Investigation.

Two soil samples will be collected from each boring and will be submitted for the following analytes: Resource Conservation and Recovery Act (RCRA) metals using United States Environmental Protection Agency (USEPA) Method 6010, polynuclear aromatic hydrocarbons (PAHs) using USEPA Method 8270, and diesel range organics (DRO) using the Wisconsin Modified Method. Default sampling intervals (in the absence of field indications of impacts) will be 2 to 4 feet and 6 to 8 feet below ground surface. In addition, if elevated photoionization detector (PID) readings (i.e., greater than 10 parts per million) are present, samples will also be analyzed for volatile organic compounds (VOCs) using USEPA Method 8260 and gasoline range organics (GRO) using the Wisconsin Modified Method. If oily staining is present, analysis will also include polychlorinated biphenyls (PCBs) using USEPA Method 8082.

In the event that potential impacts appear to extend to the water table (based on visual observations, odors, or PID readings), temporary monitoring wells may be installed and a groundwater grab sample collected and analyzed (a maximum of five temporary wells will be installed). Groundwater samples will be submitted for one or more of the following analyses: VOCs using USEPA Method 8260, PAHs using USEPA Method 8270, GRO using the Wisconsin Modified Method, DRO using the Wisconsin Modified Method, RCRA metals using USEPA Method 6010, and PCBs using USEPA Method 8082.

Reporting

The results of the North Parking Area Investigation will be submitted to the MPCA along with the results of the Supplemental Phase II – Exterior Investigation.

Schedule

Site investigation activities will be scheduled approximately one to two months after approval of this Work Plan by the MPCA. The start date for field activities will be dependent on contractor schedule and availability.

We appreciate your assistance with this project. If you have questions or need additional information, please call Bryan Zinda of ARCADIS at your convenience.

Sincerely,

ARCADIS



Bryan Zinda, PE
Project Manager



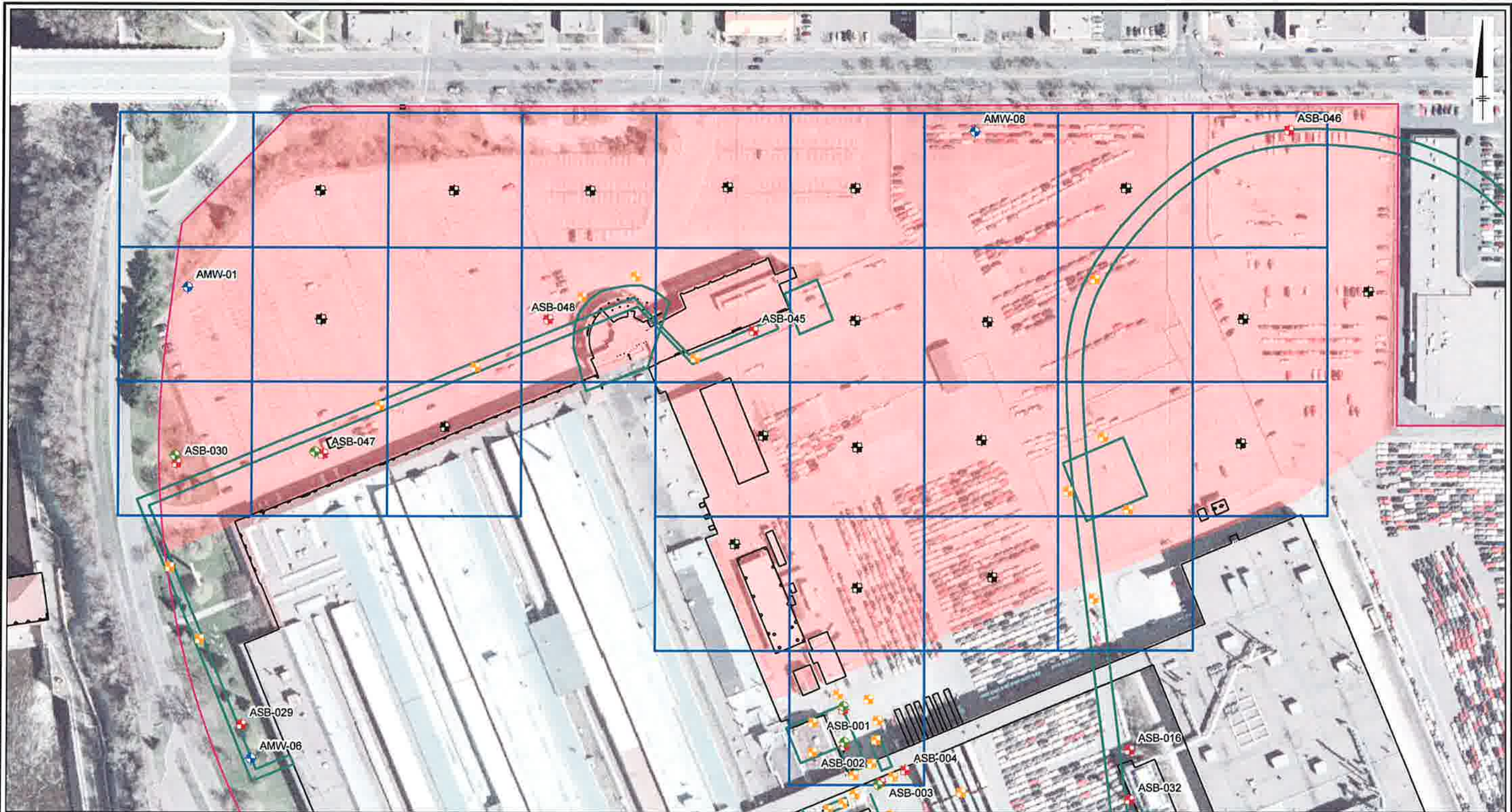
Andrew Fiskness, PG
Staff Geologist













Eric Carman
Principal In Charge
Vice President

Copies:

Ms. Barbara Rusinowski, Ford Motor Company, Dearborn, Michigan
Mr. John Meyers, Ford Twin Cities Assembly Plant, St. Paul, Minnesota





CITY: Minneapolis, MN DB: McGress PW: Bryan Zinda
 Project: MN0000593
 G:\GIS\Projects\Ford Ranger\ArcMap\Delimitation_WorkPlan\Final\NorthParkingArea_20080505.mxd

LEGEND:			
Supplemental Phase II - Exterior	Initial Phase II - Exterior		1 - Acre Grid
Proposed Locations	Completed Locations		Feature
 Monitoring Well	 Monitoring Well		Buildings
 Soil Boring	 Soil Boring		North Parking Area
 Additional Borings for Main Parking Area	 Ford Property Boundary		

NOTES:

1. Imagery Source:
 United States Geological Survey
 High Resolution Orthoimagery for the
 Minneapolis-St. Paul, Minnesota Urban Area


 0 150 300 450 Feet
 1 inch equals 150 feet

	Twin Cities Assembly Plant Ford Motor Company St. Paul, Minnesota
North Parking Area Proposed Soil and Groundwater Sampling Locations Supplemental Exterior Phase II Investigation	
	FIGURE 1

Zinda, Bryan

From: Hadiaris, Amy [Amy.Hadiaris@state.mn.us]
Sent: Friday, May 02, 2008 3:46 PM
To: Zinda, Bryan
Cc: Kromar, Karen; Oulgout, Bassou; VanPatten, Stacey
Subject: Ford - parking lot investigation

Hi Bryan,

Let's plan on one boring per acre. Two soil samples per boring. Default sampling intervals (in the absence of field signs of contamination) 2-4 ft and 6-8 ft. Analyze all soil samples for RCRA metals, PAHs, and DRO. If elevated organic vapors, include VOCs and GRO. If oily stains, include PCBs.

This will give us a good overview of general soil/fill conditions beneath existing paved areas. Depending on the outcome of this investigation, conditions observed during future removal of the pavement, and the future use of that area, additional investigation may be necessary in the future.

Call any one of us if you have questions.

Amy K. Hadiaris, P.G.
Voluntary Investigation and Cleanup Program
Minnesota Pollution Control Agency
520 Lafayette Road
St. Paul, MN 55155
Phone: (651) 296-8947
Fax: (651) 296-9707
Email: amy.hadiaris@state.mn.us

-----Original Message-----

From: Zinda, Bryan [mailto:Bryan.Zinda@arcadis-us.com]
Sent: Tuesday, April 29, 2008 8:04 AM
To: Hadiaris, Amy; Kromar, Karen; Oulgout, Bassou
Subject: Ford - TCAP

Hello,

The acreage for the north parking area is just over 29 acres. This is the portion of the site we were discussing on the possible need for borings since a good portion of it does not contain features in which we are investigating.

Thanks

Bryan Zinda, PE (MN, MI, IA, SD)
Senior Engineer
ARCADIS

ARCADIS U.S., Inc.
430 1st Ave North, Suite 720
Minneapolis, Minnesota 55401
Tel 612.373.0234
Fax 612.336.4538
Cell 612.868.5875
Email: bryan.zinda@arcadis-us.com

NOTICE: This e-mail and any files transmitted with it are the property of ARCADIS U.S., Inc. and its affiliates. All rights, including without limitation copyright, are reserved. The proprietary information contained in this e-mail message, and any files transmitted with it, is intended for the use of the recipient(s) named above. If the reader of this e-mail is not the intended recipient, you are hereby notified that you have received this e-mail in error and that any review, distribution or copying of this e-mail or any files transmitted with it is strictly prohibited. If you have received this e-mail in error, please notify the sender immediately and delete the original message and any files transmitted. The unauthorized use of this e-mail or any files transmitted with it is prohibited and disclaimed by ARCADIS U.S., Inc. and its affiliates.