NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
PRAP/ROD ROUTING SLIP

TO: Sal Ervolina, Assistant Division Director
FROM: The attached is submitted for your approval by:

NAME	INITIAL	DATE
Project Manager: Peter Ouderkirk	PSO	6/16/10
Section Chief/RHWRE: Peter Taylor	PRT	6/16/10
Bureau Director: Robert Schick		

DATE: 6/16/2010

RE: **Site Name** Matt Petroleum **Site Code** B00192
City UTICA **County** Oneida

☐ **PRAP**

- ☐ Draft PRAP
- ☑ Clean copy of the PRAP
- ☑ Redline/Strikeout version of the PRAP
- ☐ Copies of edits to PRAP (Sal's/Dale's)
- ☑ Site Briefing Report
- ☐ NYSDOH concurrence letter
- ☐ USEPA concurrence letter
- ☐ OGC Referral
  - ☐ Attached
  - ☐ Not Required: Explain:
- ☐ Project Reviews (IGP-13) (if waived, explain why)
  - ☐ Scoping RI date: 12/17/09
  - ☐ Scoping FS date:

PRAP Release Approvals

Ass't Div Director: _____
Sal Ervolina

Division Director: _____
Dale Desnoyers

☐ **ROD**

- ☐ Draft ROD
- ☐ Signature-ready copy of the ROD
- ☐ Redline/Strikeout version of the ROD
- ☐ Copies of edits to ROD (Sal's/Dale's)
- ☐ Site Briefing Report
- ☐ NYSDOH concurrence letter
- ☐ USEPA concurrence letter

ROD Signoff

Ass't Div Director: _____
Sal Ervolina

☐ **BRIEFING**
Date: 06/14/10 **Time:** 11:00 - 12:00 **Room:** 1219

c: Dale Desnoyers
Other reviewers who are invited to Briefing

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION
DIVISION OF ENVIRONMENTAL REMEDIATION
Site Briefing Report

Site Code	B00192	**Site Name**	Matt Petroleum		
Classification	A	**Address**	Leland Avenue		
Region	6	**City**	UTICA	**Zip**	13502-
Latitude	43.1074	**Town**	Utica (c)	**Project Manager**	Peter Ouderkirk
Longitude	-75.2123	**County**	Oneida		
Site Type	Dump			**Estimated Size**	4.7000

Site Description

The Matt Petroleum Site is located on Leland Avenue in the City of Utica, Oneida County. The site is located in an industrial area in the northern part of the City. The City of Utica Fire Training Facility (former bulk petroleum terminal known as the Synthetic Fuel) and Universal Waste (scrap yard) are located to the east and southeast, the City of Utica Bus Garage, the former East Olive Oil Company and rail lines are located to the south, a former bulk petroleum terminal is located to the west and the Mohawk River is found directly north of the site. The Mohawk is listed as a Class C water body in this section of Utica.

The property is approximately 4.7 acres in size and has one intact building which housed the former Matt Petroleum offices and the maintenance facility. The site is relatively flat. The site soils are comprised of fill overlying a clay-silt unit. The overlying fill extends from the ground surface to between seven to twelve feet. This soil contains fine to coarse sand and gravel with brick fragments, concrete and other pieces of rubble and debris. The underlying clay-silt unit starts generally from seven to twelve feet below the ground surface. This material is characterized as a low permeability layer, which creates a barrier to downward contamination migration. Groundwater flows to the north and is found varying from two (2) to four (4) feet below the ground surface, depending on seasonal fluctuations.

The property was the site of a former brickyard during the first half of the 1900s. From about 1950 to the early 1990s the property had been the site of a bulk petroleum terminal. Since the 1990s the site has remained unused. Prior to the spring of 2004, the site was an abandoned petroleum bulk storage facility. From the November of 2003 to June of 2004, an IRM was conducted to remove all structures, including ten bulk petroleum tanks, three above ground blending tanks, a slop tank, an oil/water separator, five loading racks, two pump houses, buried piping, and four buildings.

An operable unit represents a portion of the site remedy that for technical or administrative reasons can be addressed separately to eliminate or mitigate a release, threat of release or exposure pathway resulting from the site contamination.

A Record of Decision (ROD) was signed on June 29, 2007 for Operable Unit No. 1, which required the site to be remediated utilizing a soil turning biological treatment process. In 2010, 46,476 tons of heavily contaminated soils were removed from the site and along the Mohawk River. Approximately 75 % of the site was remediated and backfilled with clean soil. An additional 20,000 cubic yards of petroleum impacted soils remains on site awaiting mechanical soil turning in order to meet soil

cleanup objectives (SCOs).

Operable Unit (OU) No. 2 consists of the sediments and surface water in the Mohawk River north of the Matt Petroleum Site. OU2 includes surface water and sediment found along the banks of the Mohawk River. The RI studied areas upstream, adjacent and downstream of the Matt Petroleum Site.

Contaminants of Concern (Including Materials Disposed)	Quantity Disposed
	UNKNOWN
BENZENE	UNKNOWN
ETHYLBENZENE	UNKNOWN
TOLUENE	UNKNOWN
XYLENE (MIXED)	UNKNOWN
NAPHTHALENE	UNKNOWN

Analytical Data Available for : Groundwater, Soil

Applicable Standards Exceeded for: Groundwater, Soil

Site Environmental Assessment

Based on the June 2007 Record of Decision for OU 1, it is understood that the onsite conditions have impacted site wide soils and groundwater. The RI conducted in 2009 for OU 2 has shown that contaminations in the subsurface soils are consistent with previous investigations. It also shows that offsite surface water and sediment contaminant levels found adjacent to the site are only slightly above SCGs.

The RI has shown that down gradient sediment conditions are the results of a separate offsite source, the former major oil storage facility (MOSF) known as Synthetic Oil. This site has been referred to the Departments Spill Response program for appropriate evaluation.

Site Health Assessment

The site is located in a remote industrial area of the City of Utica and is fenced. Drinking contaminated groundwater is not expected since the area is served by a public water supply. The potential for contaminated soil vapor to impact structures will need to be assessed for future site development.

Remedy Description and Cost

Remedy Description for Operable Unit 00

Total Cost

Capital Cost

OM&M Cost

Issues / Recommendations

Remedy Description for Operable Unit 01

The ROD includes:

1. A remedial design program will be implemented to provide the details necessary for the construction, operation, maintenance, and monitoring of the remedial program.

2. The remedial action will entail the development of a water management program to de-water the site and to collect and manage the water. Sheet-pile and/or other barriers may be utilized along the Mohawk River to prevent releases to the surface water, to stabilize the river bank and to prevent infiltration of water on to the site during remediation.

3. A soil management and treatment plan will be developed to coordinate the movement, treatment and replacement of soils. The site will be divided in to sections in order to manage and move soils in an effective and efficient manner. Soils will be screened to remove large pieces of debris such as wood, brick and metal. The soils will then be placed in rows and the soil turning will commence. Based on field indicators and subsequently laboratory analysis, soil turning will continue until SCGs are achieved.

4. Some soils which are deemed un-treatable and/or heavily contaminated will be taken off site for disposal at a permitted landfill. Treated soils will be placed back in the de-watered excavation. Imported clean back fill may be used as backfill, incorporated with the treated soil and/or placed on top of treated soil.

5. Soils found off site in the low lying areas to the southwest will be excavated for on site treatment and the areas will be restored.

6. Imposition of an institutional control in the form of an environmental easement that will require (a) limiting the use and development of the property to commercial use, which would also permit industrial use; (b) compliance with the approved site management plan; (c) restricting the use of groundwater as a source of potable or process water, without necessary water quality treatment as determined by NYSDOH; and (d) the property owner to complete and submit to the Department a periodic certification of institutional and engineering controls.

7. Development of a site management plan, if soil cleanup objective are not achieved, which will include the following institutional and engineering controls: (a) management of the final cover system to restrict excavation below the soil cover's demarcation layer, pavement, or buildings. Excavated soil will be tested, properly handled to protect the health and safety of workers and the nearby community, and will be properly managed in a manner acceptable to the Department; (b) continued evaluation of the potential for vapor intrusion for any buildings developed on the site, including provision for mitigation of any impacts identified; (c) monitoring of groundwater; (d) identification of any use restrictions on the site; (e) fencing to control site access; and (f) provisions for the continued proper operation and maintenance of the components of the remedy.

8. The property owner will provide a periodic certification of institutional and engineering controls, prepared and submitted by a professional engineer or such other expert acceptable to the Department, until the Department notifies the property owner in writing that this certification is no longer needed. This submittal will: (a) contain certification that the institutional controls and engineering controls put in place are still in place and are either unchanged from the previous certification or are compliant with Department-approved modifications; (b) allow the Department access to the site; and (c) state that nothing has occurred that will impair the ability of the control to protect public health or the environment, or constitute a violation or failure to comply with the site management plan unless otherwise approved by the Department.

9. The operation of the components of the remedy will continue until the remedial objectives have been achieved, or until the Department determines that continued operation is technically impracticable or not feasible.

Total Cost	$4,300,000
Capital Cost	$4,300,000
OM&M Cost	$0

Issues / Recommendations

In 2010, 46,476 tons of heavily contaminated soils were removed from the site and along the Mohawk River. Approximately 75 % of the site was remediated and backfilled with clean soil. An additional 20,000 cubic yards of petroleum impacted soils remains on site awaiting mechanical soil turning in order to meet soil cleanup objectives (SCOs).

Due to lack of funding the project has not been completed.

Remedy Description for Operable Unit 01A

The Matt Petroleum Site was a former major oil facility located along the barge canal in the City of Utica. The IRM cleaned and removed 17 above ground storage tanks which ranged from 750,000 to 1.5 million gallons in size. Additional smaller tanks, buildings, pipelines and other structures were dismantled.

Total Cost

Capital Cost

OM&M Cost

Issues / Recommendations

Project Completed

Remedy Description for Operable Unit 02

The RI has confirmed the presence of petroleum contamination in soils onsite along the banks of the Mohawk River. The RI has shown that impacts to both surface water and sediment exist, however, the sediment impacts are due to a separate downgradient source.

In 2010, 46,476 tons of heavily contaminated soils were removed from the site and along the Mohawk River. Approximately 75 % of the site was remediated and backfilled with clean soil. An additional 20,000 cubic yards of petroleum impacted soils remains on site awaiting mechanical soil turning in order to meet soil cleanup objectives (SCOs). By addressing the source materials found in soil in OU1, it has eliminated the migration of site related VOCs in groundwater, which are contributing to the surface water exceedances adjacent to the site in the Mohawk River.

Based on the finding of the RI for OU2, the Department is proposing No Action for OU2, with the implementation of the onsite remedy for OU1 as specified in the June 2007 ROD. By addressing the source materials found in OU1, the migration of site related VOCs in groundwater which are causing the surface water exceedances adjacent to the site in the Mohawk River would cease.

Total Cost

Capital Cost

OM&M Cost

Issues / Recommendations

No funding to complete mechanical soil turning.