



HAZARDOUS MATERIAL SPILLS INFORMATION REQUEST

EXXON (P.I.P.)
PALISADES PKWY

TAPPAN, NY NO ZIP PROVIDED

Spill Number: 8909584

Close Date:

ADDRESS CHANGE INFORMATION

Revised street: PALISADES INTERSTATE PKWY REST AREA

Revised zip code: 10983

Source of Spill: GASOLINE STATION OR PBS FACILITY

Spiller: PALISADES PARKWAY SERS
JAMES HALL – PALISADES INTERSTATE PARKWAY COMMISSION

Spiller Phone: (914) 786-2701

Notifier Type: Tank Tester
Caller Name: JOE MCDONALD
DEC Investigator: GHPRATT

Notifier Name:
Caller Agency: CENTRAL TESTING
Contact for more spill info:

Notifier Phone:
Caller Phone: (607) 692-4688
Contact Person Phone:

Category: Known release which created a fire/explosion hazards (inside or outdoors), drinking water supply contamination, or significant releases to surface waters.

Class: Willing RP – DEC Field Response – Corrective Action Initiated, Taken Over, or Completed by RP or Other Agency

| Spill Date | Date Cleanup Ceased | Cause of Spill | Meets Cleanup Standards | Penalty Recommended |
|------------|---------------------|-------------------|-------------------------|---------------------|
| 01/04/1990 | | TANK TEST FAILURE | NO | NO |

| Material Spilled | Material Class | Quantity Spilled | Units | Quantity Recovered | Units | Resource(s) Affected |
|--------------------------------|--------------------|------------------|---------|--------------------|---------|----------------------|
| GASOLINE | PETROLEUM | 0.00 | POUNDS | 0.00 | POUNDS | GROUNDWATER |
| MTBE (METHYL-TERT-BUTYL ETHER) | HAZARDOUS MATERIAL | 0.00 | UNKNOWN | 0.00 | UNKNOWN | |

TANK TEST INFORMATION

| Tank Number | Tank Size | Tank Test Method | Leak Rate | Gross Leak or Failure |
|-------------|-----------|------------------|-----------|-----------------------|
| | 0 | Unknown | 0.00 | UNKNOWN |

Caller Remarks:

1 PUMP RECOVERY SYSTEM PUMPING FROM 3 OR 4 RW'S THROUGH AIR STRIPPER. STORM SEWER DISCHARGE.

DEC Investigator Remarks:

Project Summary as of February 2007 –Kings Highway gas station is an active PBS facility situated in the median of the Palisades

parkway in the town of Orangetown, Rockland Co. The site is owned by the Palisades Interstate Parkway Commission(PIPC). –A DEC spill # of 8909584 was assigned to a tank test failure at the site in 1989 and is used to track the progress of remediation over the years since. –A public water supply well field owned by United Water of New York (UWNY) is situated to the east of the gas station site with the closest well about 300 feet away. The well field has not operated since the detection of the spill in 1989.

–Site investigation and remediation began in 1989 and continues to present under the sponsorship of PIPC. Significant petroleum impacts to groundwater and a minor amount of free phase product have been detected in monitoring wells at the gas station over the history of the site. –Remedies initially included tank and contaminated soil removal. A series of 5 recovery wells were subsequently installed for the purpose of ground water cleanup and containment. A pump and treat system with a large stripping tower for groundwater treatment prior to discharge was installed. This system ran intermittently for about 10 years but essentially failed to accomplish a complete cleanup of the site. –The treatment system was dismantled in about 2001. Since that time some measures have been taken by PIPC to further characterize groundwater quality and to test other cleanup technologies. Significant gasoline contamination still exists and completion of the cleanup remains to be done –Water quality data recently collected by UWNY in anticipation of restarting its wells revealed contamination consistent with gasoline. It is reasonable to assume this contamination is directly related to the PIPC service station site. Given this new data, the Department has now reached out to UWNY, PIPC, and the Rockland County Health Department to more fully assess the UWNY proposal, and the status of the PBS facility, groundwater quality and remediation at the site.

10/7/2010 --- Stip signed by Jeffrey Meyers of OPRHP on 9/3/2010 and by me today. ELM

In 2007 a new remedial plan was developed by PIPC and their consultant Malcolm Pirnie. It included dual phase extraction and air sparge technologies. The system was constructed by DEC contractor PES under a PIN #(see ISR for further explanation)and operations were begun in late 2008. PIPC has since piggybacked onto the DEC contract, signed a STIP and the site was returned to their control in late 2010. The dual phase extraction was run for roughly a year and a half before concentrations declined somewhat and the air sparge was added. Semi-annual reports of system operation have been provided and are in eDocs. High concentrations remain in the 10PPM range but have clearly trended downward nearly an order of magnitude. Mass removal rates are declining but still worthy of continued operation of both systems as per the contractor recommendations in the July 2012 report. PJD Sept. 2012

DEC, PIPC and PES met at Bear Mtn. PIP offices on July 19, 2013 to discuss the status of system operation and the recent PES status report of May 2013. The general consensus was to proceed with report recommendations as they pertain to: 1)The limiting of system operation to specific wells and target areas to the northerly part of site 2)The testing of pulsed operation of systems by timed controls. 3)The establishment of cleanup targets. One target discussed was the attainment of GW standards at the offsite MW-5R. It is DEC's contention that the GW conditions do not yet warrant temporary system shutdown(one of the report recommendations). A current increase in concs. at MW-5R was noted, possibly related to sparge operations(concern with GW containment noted. Methods for intermittent removal from this well, located across the highway from the current system, were discussed and something will be implemented. DEC also pointed out the difficulty with completing a cleanup at a site with an active gas station and the intermittent evidence of discharges contributing to the overall GW quality problems. PIPC plans to let the current lease lapse(few years?). PJD July 2013.

8-11-16 From the March 2016 PES semi annual report: The continued presence of dissolved phase contamination down-gradient of the site suggests that the active remediation system does not have hydraulic control over the contaminant plume. It is possible that a byproduct of air sparge application is the mobilization of dissolved phase hydrocarbons in a down-gradient groundwater flow direction; regardless, the capacity for enhance water table depression in active extraction wells has the potential to prevent down-gradient migration while enhancing mass removal. Further investigation of current onsite/offsite soil and groundwater quality through the installation of soil borings, monitoring wells, and piezometers, specifically up-gradient from the current remedial well network to verify/identify the location of a continuing source and cross gradient from the MW-5R

location to verify environmental quality down-gradient from the southern portion of the EW-1 and EW-2 wells is warranted.
Remedial Optimization is needed to protect downgradient supply wells. GHP

NYSDEC FALL 1998 MTBE SURVEY INFORMATION FOR 8909584

Maximum MTBE concentration: 67.0 PPB Current MTBE concentration: 67.0 PPB
BTEX offsite: No

| | | |
|------------------------------------|--|--|
| Source of MTBE | | Number of private drinking water wells impacted: 0 |
| Steel Underground Storage Tank - X | | Number of public water supply wells impacted: 1 |
| Fiberglass Underground Tank - | | Number of private drinking water wells impacted: 0 |
| Aboveground Storage Tank - | | Number of replacement wells drilled: 0 |
| Piping - X | | Number of water main extensions: 0 |
| Source not identified - | | Number of water main hookups: 0 |
| Other source - X | | Number of residences provided w/ bottled water: 0 |
| | | Number of people affected: *** |

Indoor Air Impacts : No
Aquifer Impacts : Yes

Ongoing remediation: Yes

Monitoring Frequency
Monthly - Quarterly - Semi-annual - Annual - Other -

Remedial Action used
No Action -

| | | | |
|-------------------------|--|-----------------------------|---|
| Groundwater | | Soil | |
| Pump and Treat - X | | Soil Vapor extraction | - |
| Air sparging - | | Excavation and disposal | - |
| Bioreactor - | | Bioremediation | - |
| Natural attenuation - | | Low temp thermal desorption | - |
| Oxygen injection - | | Oxygen injection | - |
| Biosparging - | | Other | - |
| Dual phase extraction - | | | |
| Other - | | | |

Under investigation: No
Dept. of Health involvement: Yes

Dept. of Health Remarks: No remarks given for this spill

General Remarks: Source other: pump. PBS # 3-99 61.