# 14<sup>th</sup> Street (Upper Zone) Corrective Action Plan Completion Report

Exxon Mobil Corporation Baltimore Terminal Baltimore, Maryland

August 4, 2008

Prepared for:

ExxonMobil Environmental Services 1545 Route 22 East Room CCM 09D Annandale, New Jersey 08801

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#### 1.0 INTRODUCTION

In accordance with the November 8, 2007 Consent Order between ExxonMobil and the Maryland Department of the Environment (MDE), and the approved 14<sup>th</sup> Street (Upper Zone) Corrective Action Plan dated March 3, 2008, GeoTrans, Inc. presents the following Corrective Action Completion Report. This completion report presents the results of the corrective action plan activities to meet the Consent Order remedial goal of LNAPL removal to the maximum extent practicable. The activities included the excavation of the remaining remedial trenches and excavation/abandonment of monitoring wells. Parcel maps highlighting the former trench areas, monitoring wells which were excavated and monitoring wells which were abandoned are presented in **Figures 1 and 2**. Photographs of the corrective action activities are presented in **Appendix A**.

#### 2.0 EXCAVATION OF FORMER REMEDIAL TRENCHES

Corrective action activities included the excavation of the remaining three remedial trenches which were supervised by trained GeoTrans personnel with LNAPL excavation experience. The work was completed during the months of March and April 2008.

Prior to excavation activities, ExxonMobil subsurface clearance protocols were completed which included calling "Miss Utility" and utilizing an "air knife" to install pilot test holes in the area of the proposed excavations. A Health and Safety Plan and site-specific Job-Safety Analysis were also developed and reviewed in an on-site kick off meeting with the subcontractor prior to the start of field activities.

Following the completion of the kick off meeting, the excavation team was mobilized to the site. A fractionation tank was placed in a location central to all excavations to receive dewatering fluids during trench backfilling. Excavation was completed to remove the former recovery trench material, soil, geotextile fabric, and gravel. Excavated materials were segregated into two piles based on the visual presence or absence of LNAPL saturated soils (product pooling observed in the backhoe bucket). LNAPL saturated soils were stockpiled and covered in the vicinity of the excavation on 6 mil plastic and graded to direct run off back into the excavation. Non LNAPL saturated soils were stockpiled and used for subsequent on-site backfill. LNAPL saturated soils were removed vertically to a maximum depth of the water table (approximately 10 to 12 feet BGS). LNAPL saturated soils were removed horizontally until clean soils were encountered. When LNAPL was encountered, the excavation was allowed to remain open for a period of 24 hours. After 24 hours the trench was dewatered utilizing a trash pump and the water stored in a fractionation tank. Any remaining LNAPL was removed. The excavation was then backfilled with soil in 1' lifts to ensure soil compaction equal to surrounding conditions.

#### 3.0 EXCAVATION OF MONITORING WELLS

Corrective action activities also included the excavation of wells with LNAPL greater than one foot and any corresponding LNAPL saturated soils in the immediate vicinity of the wells. A list of the wells excavated is included in **Table 1**.

Monitoring well excavation was completed following the same procedures as described for trench excavation (Section 2.0). Excavation was completed in a 10 foot radius around each of the monitoring wells and was extended vertically to the water table with removal of the PVC well casing. Wells 3025, 3043, 3049, 3059, 3066 and 3071 were excavated per the Corrective Action Plan dated February 15, 2008 and well 3033 was excavated per the March 3<sup>rd</sup> MDE approval letter. Excavation was also completed in the locations of former wells 3004 and 3056 in an attempt to locate the previously destroyed wells, however no well casing was discovered in either excavation.

#### 4.0 MONITORING WELL ABANDONMENT

Remaining monitoring wells not associated with the Janney Run investigation or the remaining remedial trench along the western property boundary were abandoned by a Maryland licensed well driller and supervised by trained GeoTrans personnel. **Table 1** presents a list of the wells abandoned. At each location, the driller attempted to remove the PVC well casing and each well was tremie grouted to the surface using a bentonite/cement grout material. Any remaining well casings or protective coverings were removed to an elevation below the current ground surface. Monitoring well abandonment reports can be found in **Appendix B**.

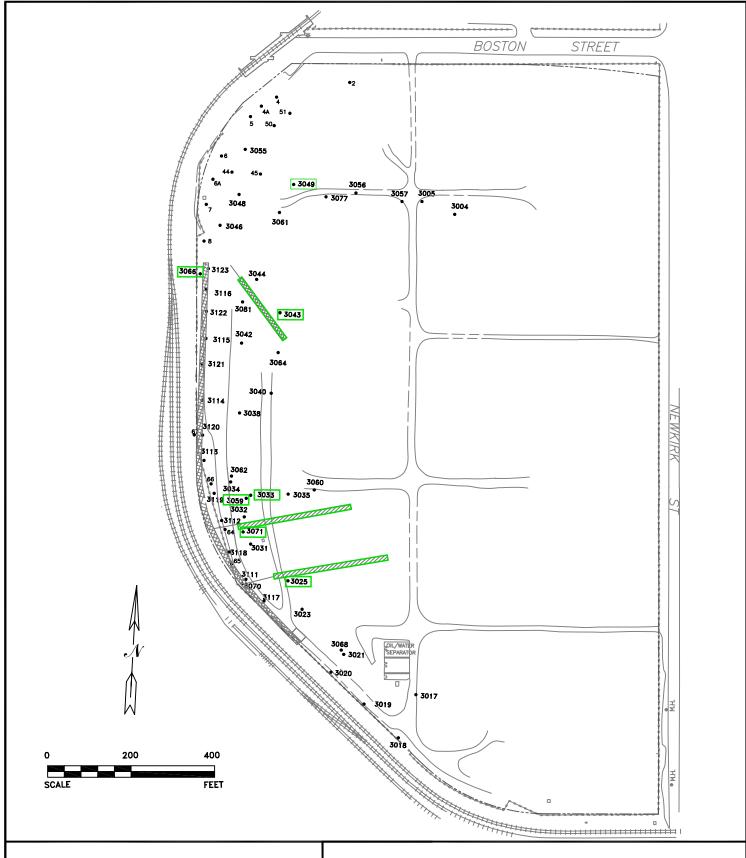
#### 5.0 SOIL STOCKPILE RECYCLING AND PURGE WATER HANDLING

Stockpiled LNAPL saturated soils generated during the excavation were transported to Soil Safe for treatment by encapsulation and subsequently returned to the site for use as backfill in other portions of the parcel. A total of approximately 100 tons of soil were treated and utilized as backfill on site.

Purge water removed from the excavations prior to backfill was removed from the fractionation tank by vacuum truck and taken to a Clean Harbors facility for treatment and disposal. A total of approximately 4,500 gallons of water were generated during the excavation activities and removed from site by Clean Harbors.

Laboratory analysis from the soil stockpile recycling and purge water handling are presented in **Appendix C.** 

# **FIGURES**



LEGEND

■ GROUNDWATER MONITORING WELL

EXISTING R.R. TRACKS

REMIDIAL TRENCHES EXCAVATED

\*3043 MONITORING WELLS EXCAVATED

NOTE: WELL LOCATIONS ARE APPROXIMATE



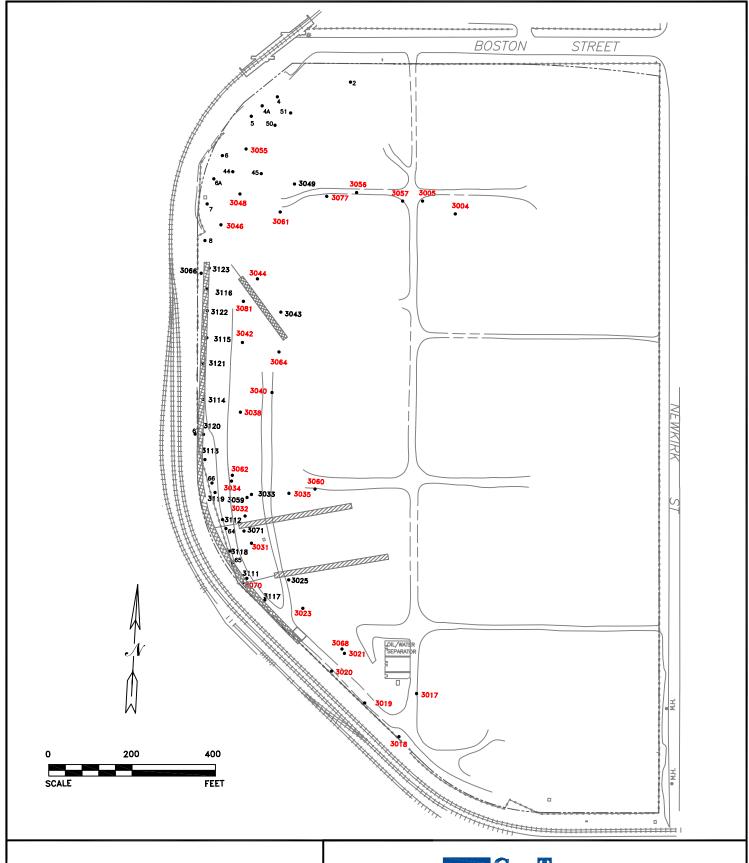
## FIGURE 1

TRENCH/WELL EXCAVATION LOCATION MAP

EXXONMOBIL CORPORATION BALTIMORE TERMINAL

14TH STREET AREA

BALTIMORE, MD 21224





■ GROUNDWATER MONITORING WELL

EXISTING R.R. TRACKS

Z FORMER REMIDIAL TRENCH LOCATIONS

• 3043 MONITORING WELLS ABANDONED

NOTE: WELL LOCATIONS ARE APPROXIMATE



#### FIGURE 2

WELL ABANDONMENT LOCATION MAP

EXXONMOBIL CORPORATION BALTIMORE TERMINAL

14TH STREET AREA

BALTIMORE, MD 21224

# **TABLES**

Table 1
Monitoring Wells Excavated/Abandoned
14th Street Parcel (Upper Zone) Corrective Action
Exxon Mobil Corporation Baltimore Terminal

| Well Number | Completed Activities | Justification   |
|-------------|----------------------|---|
|             | 5                    | Records indicate this is a 2-inch monitoring pipe which was |
|             |                      | destroyed. Excavated in area with no evidence of well       |
| 3004        | Well Abandoned       | located.  |
| 3005        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.45 ft                     |
| 3017        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3018        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3019        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.01 ft                     |
| 3020        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3021        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3023        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.28 ft                     |
| 3025        | Well Excavated       | Maximum LNAPL since 12/15/06 is 1.29 ft                     |
| 3031        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3032        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.05 ft                     |
| 3033        | Well Excavated       | Maximum LNAPL since 12/15/06 is 0.39 ft                     |
| 3034        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.60 ft                     |
| 3035        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.08 ft                     |
| 3038        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3040        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3042        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.08 ft                     |
| 3043        | Well Excavated       | Maximum LNAPL since 12/15/06 is 1.08 ft                     |
| 3044        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3046        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3048        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.10 ft                     |
| 3049        | Well Excavated       | Maximum LNAPL since 12/15/06 is 2.42 ft                     |
| 3055        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
|             |                      | Records indicate this is a 4-inch well covered over during  |
|             |                      | parcel grading. Excavated in area with no evidence of well  |
| 3056        | Well Abandoned       | located.  |
| 3057        | Weil Abandoned       | No LNAPL detected over last year of monitoring              |
| 3059        | Well Excavated       | Maximum LNAPL since 12/15/06 is 1.28 ft                     |
| 3060        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3061        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3062        | Well Abandoned       | Maximum LNAPL since 12/15/06 is 0.02 ft                     |
| 3064        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3066        | Well Excavated       | Maximum LNAPL since 12/15/06 is 3.3 ft                      |
| 3068        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3070        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3071        | Well Excavated       | Maximum LNAPL since 12/15/06 is 2.56 ft                     |
| 3077        | Well Abandoned       | No LNAPL detected over last year of monitoring              |
| 3081        | Weil Abandoned       | No LNAPL detected over last year of monitoring              |

## **APPENDIX A**



PHOTOGRAPH 1 Excavation of Northern Trench



PHOTOGRAPH 2 Dewatering of Northern Trench



PHOTOGRAPH 3 Backfill of Northern Trench



PHOTOGRAPH 4 Compaction of Northern Trench



**PHOTOGRAPH 5** Excavation of Central Trench and well 3071



PHOTOGRAPH 6 Dewater of Central Trench



PHOTOGRAPH 7 Backfill of Central Trench



PHOTOGRAPH 8 Compaction of Central Trench



**PHOTOGRAPH 9** Excavation of Southern Trench and well 3025



PHOTOGRAPH 10 Backfill of Southern Trench



PHOTOGRAPH 11 Compaction of Southern Trench



**PHOTOGRAPH 12** Wells 3033 and 3059 prior to excavation



PHOTOGRAPH 13 Excavation of wells 3033 and 3059



PHOTOGRAPH 14 Well 3043 prior to excavation



PHOTOGRAPH 15 Well 3043 post excavation



**PHOTOGRAPH 16** Well 3049 prior to excavation



PHOTOGRAPH 17 Well 3049 post excavation



PHOTOGRAPH 18 Well 3066 prior to excavation



PHOTOGRAPH 19 Well 3066 post excavation



PHOTOGRAPH 20 Well 3005 prior to abandonment



PHOTOGRAPH 21 Well 3017 prior to abandonment



PHOTOGRAPH 22 Well 3018 prior to abandonment



PHOTOGRAPH 23 Well 3019 prior to abandonment



PHOTOGRAPH 24 Well 3020 prior to abandonment



PHOTOGRAPH 25 Well 3023 prior to abandonment



PHOTOGRAPH 26 Well 3031 prior to abandonment



PHOTOGRAPH 27 Well 3032 prior to abandonment



PHOTOGRAPH 28 Well 3035 prior to abandonment



PHOTOGRAPH 29 Well 3036 prior to abandonment



PHOTOGRAPH 30 Well 3038 prior to abandonment



PHOTOGRAPH 31 Well 3040 prior to abandonment



PHOTOGRAPH 32 Well 3042 prior to abandonment



PHOTOGRAPH 33 Well 3044 prior to abandonment



PHOTOGRAPH 34 Well 3046 prior to abandonment



PHOTOGRAPH 35 Well 3048 prior to abandonment



PHOTOGRAPH 36 Well 3057 prior to abandonment



PHOTOGRAPH 37 Well 3060 prior to abandonment

PHOTOGRAPH 38 Well 3061 prior to abandonment





PHOTOGRAPH 39 Well 3062 prior to abandonment

PHOTOGRAPH 40 Well 3064 prior to abandonment





**PHOTOGRAPH 41** Wells 3021 and 3068 prior to abandonment

PHOTOGRAPH 42 Well 3070 prior to abandonment





PHOTOGRAPH 43 Well 3071 prior to abandonment

**PHOTOGRAPH 44** Well 3077 prior to abandonment



PHOTOGRAPH 45 Well 3081 prior to abandonment

## **APPENDIX B**

MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL PERSON ABANDONING WELL: Chaol Chiom WELL DRILLERS LICENSE NUMBER: 560-00 CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exxon Mobile SITE LOCATION MAP WELL LOCATION: COUNTY: Bake City NEAREST TOWN: Canton TAX MAP \_\_\_\_\_ BLOCK \_\_ \_ PARCEL \_ SUBDIVISION: \_\_\_\_ SECTION: \_\_\_\_ LOT: NEAREST ROAD: Boston 97 TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL DRILLED BORED/AUGERED \_\_\_\_\_HAND DUG FEET **MATERIAL** \_\_ OTHER (specify) \_\_\_ **FROM** TO USE CODE: \_\_ DOMESTIC \_\_MUNICIPAL/PUBLIC IRRIGATION \_\_\_ INDUSTRIAL TEST/OBSERVATION \_\_\_\_\_GEOTHERMAL TYPE OF CASING: \_ PLASTIC STEEL \_ OTHER (specify) \_ CONCRETE SIZE OF CASING: \_\_\_\_\_ INCHES IN DIAMETER **VOLUME OF MATERIAL USED** 50 163 Cancert DEPTH OF WELL: 20 FEET DEEP 3 165 bent WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_ if yes, length removed, in feet: WAS CASING RIPPED OR PERFORATED? \_\_\_ YES \_\_\_\_ NO MWD/MSD/MGIZ 63

LICENSE #

**DENV 828** 

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

# MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION

| 2500 BROENING HIGHWAY, BALTIMORE, MARYLA                                 | ********                | ******   |
|--|-------------------------|--|
| **************************   | *******                 | ******   |
| SUBMIT COPIES OF COMPLETED FORM TO:                                      | 요리 사랑 돌은 은 연호 수         |  |
| ★ COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)         |                         |  |
| * WELL OWNER   |                         |  |
| * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM                     |                         |  |
| DATE WELL ABANDONED: 4/1/08 (month/day/year)                             |                         |  |
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| * PERMIT NUMBER OF REPLACEMENT WELL                                      | <u> </u>                |  |
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|  |                         | CIRCLE: MWD/MSD/MGI  |
| * OWNER'S NAME: Exvos Mobile   |                         |  |
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| SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LIC              | ENSE # CIRCLE ONE       | DATE   |

DENV 929 IIII V 1007

3) WELL OWNER

CIRCLE ONE

DATE **(A)** 

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL PERSON ABANDONING WELL: Charles WELL DRILLERS LICENSE NUMBER: 560 666 CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exvan Mobile SITE LOCATION MAP WELL LOCATION: COUNTY: Both Cit NEAREST TOWN: Cantan TAX MAP \_\_\_\_\_ BLOCK \_\_ \_\_ PARCEL SUBDIVISION: \_\_ LOT: SECTION: \_ NEAREST ROAD: 19 1 9 TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL *W*\_DRILLED BORED/AUGERED \_\_\_\_\_HAND DUG **FEET MATERIAL** OTHER (specify) FROM TO ement 9 USE CODE: \_ DOMESTIC \_ MUNICIPAL/PUBLIC IRRIGATION \_\_ INDUSTRIAL TEST/OBSERVATION \_\_\_ GEOTHERMAL TYPE OF CASING: PLASTIC \_ STEEL \_ CONCRETE OTHER (specify) SIZE OF CASING:\_ INCHES IN DIAMETER VOLUME OF MATERIAL USED 50163 Cerr 2 \_\_ FEET DEEP DEPTH OF WELL: \_\_\_ 3165 H3 WAS ANY CASING REMOVED? \_\_\_\_ YES \_ if yes, length removed, in feet: \_\_\_ WAS CASING RIPPED OR PERFORATED? \_\_\_\_ YES \_\_\_\_ NO

# MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION

| 2500 BROENING HIGHWAY, BALTIMORE, MARY   | LAND 21224, (410) 631-3784   | ************  |
|--|--|---|
| WATER WELL ABANDONMENT-SEALIN  | NG REPORT FORM   |   |
| ************   | ********   | *****   |
| SUBMIT COPIES OF COMPLETED FORM TO:  | 그래 경우 시설을 통하고 있는데  |   |
| * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address need                              | led)   |   |
| <ul> <li>WELL OWNER</li> <li>MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM</li> </ul> |  |   |
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| * OWNER'S NAME: Exvor Mobile   |  | CLE: MWD/MSD/MGI                                      |
| * OWNER'S NAME: EXVON Mobile   |  | ADD. HIWD/MOD/MOD                                     |
|  | SITE LOCATION MAP  |   |
| * WELL LOCATION: ,   |  |   |
| COUNTY: Bolt-City NEAREST TOWN: Contest  |  |   |
| NEAREST TOWN: Contest  |  |   |
| TAX MAP BLOCK PARCEL   |  |   |
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| Her  | MWD/MSD/MGD/   | 15 4/1/8  |
| SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN                                    | LICENSE # CIRCLE ONE   | ' DATE  |

3) WELL OWNER

CIRCLE ONE DATE

: **A** 

## MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM ma 708/ SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT, ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: (month/day/year) PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL WELL DRILLERS LICENSE NUMBER: 500-06 CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exyan Mobile SITE LOCATION MAP WELL LOCATION: COUNTY: Balt: C.t. NEAREST TOWN: \_\_\_\_\_\_ TAX MAP \_\_\_\_\_ BLOCK \_\_\_\_ PARCEL \_ SUBDIVISION: \_\_ LOT: 4301 SECTION: \_\_\_\_ NEAREST ROAD:\_ TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL DRILLED \_\_\_JETTED \_\_\_BORED/AUGERED \_\_\_\_\_HAND DUG FEET MATERIAL \_OTHER (specify)\_ FROM TO USE CODE: MUNICIPAL/PUBLIC \_ DOMESTIC \_\_\_ IRRIGATION \_INDUSTRIAL \_\_TEST/OBSERVATION \_ \_\_\_ GEOTHERMAL TYPE OF CASING: STEEL \_\_\_\_ CONCRETE SIZE OF CASING: \_\_\_\_\_ INCHES IN DIAMETER **VOLUME OF MATERIAL USED** DEPTH OF WELL: \_\_\_\_\_ FEET DEEP 5 las bent

\* WAS CASING RIPPED OR PERFORATED? \_\_\_ YES \_\_\_ NO
SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_\_ if yes, length removed, in feet: \_\_\_\_\_

MWD/MSD/MGD 256 3

## MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784 SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL! PERSON ABANDONING WELL: Chad Ch CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exxon Mebi. SITE LOCATION MAP WELL LOCATION: COUNTY: Balti NEAREST TOWN: \_\_\_ \_ BLOCK \_\_\_\_ TAX MAP \_ \_\_ PARCEL SUBDIVISION: \_\_\_ SECTION: \_ NEAREST ROAD:\_ TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL DRILLED BORED/AUGERED \_\_\_\_\_HAND DUG **FEET MATERIAL** OTHER (specify) \_\_\_ **FROM** TO USE CODE: 22 DOMESTIC \_\_\_ MUNICIPAL/PUBLIC IRRIGATION \_\_\_ INDUSTRIAL TEST/OBSERVATION \_\_\_\_ GEOTHERMAL TYPE OF CASING: PLASTIC STEEL CONCRETE OTHER (specify)

TYPE OF CASING:

STEEL
CONCRETE

PLASTIC
OTHER (specify)

SIZE OF CASING:

INCHES IN DIAMETER

DEPTH OF WELL:

FEET DEEP

WAS ANY CASING REMOVED?

YES
NO
if yes, length removed, in feet:

94163 Coment 5183 Bent. 7 gal. Ho

**VOLUME OF MATERIAL USED** 

WAS CASING RIPPED OR PERFORATED? \_\_\_\_YES \_\_\_\_\_NO

MWD/MSD/MGD263

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM ma 3070 SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL WELL DRILLERS LICENSE NUMBER: \_ CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exx SITE LOCATION MAP WELL LOCATION: COUNTY: Dalt NEAREST TOWN: Castors \_\_ BLOCK \_ PARCEL \_ TAX MAP\_ SUBDIVISION: \_ LOT: SECTION: \_ NEAREST ROAD:\_\_\_ TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL **DRILLED** JETTED BORED/AUGERED \_\_\_\_\_HAND DUG FEET MATERIAL OTHER (specify)\_ **FROM** TO 10,0001 / G USE CODE: MUNICIPAL/PUBLIC DOMESTIC IRRIGATION INDUSTRIAL TEST/OBSERVATION \_ \_\_ GEOTHERMAL TYPE OF CASING: **∠**PLASTIC \_ STEEL OTHER (specify) \_ CONCRETE SIZE OF CASING: **INCHES IN DIAMETER VOLUME OF MATERIAL USED** DEPTH OF WELL: \_\_\_\_\_ FEET DEEP WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_ if yes, length removed, in feet: \_\_\_\_

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

CIRCLE ONE

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM MN 3068 SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: \_\_ (month/day/year) PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL PERSON ABANDONING WELL: Charles Chilm WELL DRILLERS LICENSE NUMBER: TGD-066 CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exvas mobile SITE LOCATION MAP WELL LOCATION: COUNTY: Balti Cit-NEAREST TOWN: Content TAX MAP \_\_\_\_\_ BLOCK \_\_ \_\_ PARCEL \_ SUBDIVISION: LOT: 4 ? SECTION: \_\_ NEAREST ROAD:\_ TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL BORED/AUGERED \_\_\_\_\_HAND DUG FEET MATERIAL OTHER (specify)\_ FROM TO USE CODE: 0 Bentale DOMESTIC MUNICIPAL/PUBLIC **IRRIGATION** \_ INDUSTRIAL

 $\subseteq$  TEST/OBSERVATION  $\_$ \_\_\_\_ GEOTHERMAL TYPE OF CASING:

\_ STEEL \_ OTHER (specify) \_\_\_\_ CONCRETE

SIZE OF CASING: \_\_\_\_\_\_ INCHES IN DIAMETER

DEPTH OF WELL: 2 / FEET DEEP

WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_\_ if yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED? \_\_\_\_ YES \_

**VOLUME OF MATERIAL USED** 

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

9411 Coment

511 bent Y sole H32

4) WELL OWNER

**DENV 828** 

**JULY 1997** 

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL Mod Chizara Well Drillers License Number: 360-06 CIRCLE: MWD/MSD/MGD OWNER'S NAME: Exyon SITE LOCATION MAP WELL LOCATION: COUNTY: Malt. NEAREST TOWN: Canton TAX MAP \_\_\_\_\_ BLOCK \_ \_ PARCEL \_ SUBDIVISION: \_ LOT: \_\_ SECTION: \_\_ **NEAREST ROAD:** TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL DRILLED BORED/AUGERED \_\_\_\_\_HAND DUG FEET MATERIAL OTHER (specify) \_\_ FROM TO USE CODE: 30 DOMESTIC \* \_\_ MUNICIPAL/PUBLIC **IRRIGATION** \_\_ INDUSTRIAL TEST/OBSERVATION \_\_ \_\_\_ GEOTHERMAL TYPE OF CASING: STEEL PLASTIC \_ CONCRETE OTHER (specify) SIZE OF CASING: \_\_\_\_ INCHES IN DIAMETER **VOLUME OF MATERIAL USED**

SIZE OF CASING: \_\_\_\_\_ INCHES IN DIAMETER VOLUME OF MATERIAL USED

DEPTH OF WELL: \_\_\_\_\_ FEET DEEP

WAS ANY CASING REMOVED? \_\_\_ YES \_\_\_\_\_ NO

if yes, length removed, in feet: \_\_\_\_\_

WAS CASING RIPPED OR PERFORATED? \_\_\_\_YES \_\_\_\_ NO

MWD/MSD/MGD

4/1/2

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

CIRCLE ONE

| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MA   | NAGEMENT  | ADMINISTRY   | ATION                                    |                                       |
|--|---|--|--|---------------------------------------|
| 1800 Washington Blvd., Baltimore, Maryland 21230   |   |  |  |                                       |
| **************************************   | RT FORM   | *****  | *********<br>:                           | ****                                  |
| ****************   | *****   | *****  | *****                                    | *****                                 |
| BMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)   |   |  |  |                                       |
| WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM  |   |  |  |                                       |
| TE WELL ABANDONED: 4/1/08 (month/day/year)   |   |  |  |                                       |
| TE WELL ABANDONED (monunday/year)  |   |  |  |                                       |
| DEDINIT NUMBER OF ARANDONED WELL (S)   | BC -  | -81-   | 0398                                     | 3                                     |
| PERMIT NUMBER OF ABANDONED WELL (if any)   | <del>// _</del>   |  | <u> </u>                                 |                                       |
| PERMIT NUMBER OF REPLACEMENT WELL  | 14 -  | <u> </u>   | <u> </u>                                 |                                       |
| PERSON ABANDONING WELL: Chord Chorn WELL DR  | RILLERS LICE  | ENSE NUMBE   | R: <i>560</i>                            | -066                                  |
| OWNER'S NAME: Exxon Mobile   |   |  | RCLE: MWI                                |                                       |
| OWNER'S NAME: EXVOIT FIGHT   | SITE LO   | CATION MAP   |  |                                       |
| WELL LOCATION:   | 1 .   |  |  | :                                     |
| NEAREST TOWN: Landon   |   |  | * .                                      | •                                     |
| TAX MAP BLOCK PARCEL   |   |  |  |                                       |
| SUBDIVISION:   | . •   | 20015  |  |                                       |
| SECTION: LOT: 4301  NEAREST ROAD: Gos for 57   |   | 30   |  |                                       |
| W Silver   | Name and the same | X.   | -  |                                       |
| The state of the s |   | 1  |  |                                       |
|  |   | Territoria de la compansión de la compan |  |                                       |
|  |   | e is, be es indicate.  | e la | a a a a a a a a a a a a a a a a a a a |
| TYPE OF WELL BEING ABANDONED:  |   |  | · · · · ·                                |                                       |
|  | L   | OG OF SEALI  | NG MATERI                                | AL                                    |
| DRILLEDJETTEDBORED/AUGEREDHAND DUG   |   |  | FE                                       | ET                                    |
|  | MA  | TERIAL   |  |                                       |
| OTHER (specify)  | 1   |  | I RRAM I                                 | TO                                    |
|  |   | a game de  | FROM                                     |                                       |
| USE CODE:  | Come  | att  | 3C                                       | 0                                     |
| USE CODE: DOMESTIC MUNICIPAL/PUBLIC  | Come  | art ent  |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL   | Come  | att  |  | 0                                     |
| USE CODE: DOMESTIC MUNICIPAL/PUBLIC  | Come  | ato<br>ent,  |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL   | Come  | are<br>enk   |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING:  | Come  | arto enk   |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING:  | Come  | are<br>enk   |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: STEEL PLASTIC  | Come  | aro<br>enk   |  | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: STEEL PLASTIC  |   |  | 30                                       | 0                                     |
| USE CODE: DOMESTICMUNICIPAL/PUBLIC   | V   | OLUME OF M   | 3C ATERIAL U                             | 0                                     |
| USE CODE: DOMESTICMUNICIPAL/PUBLIC   | V   | OLUME OF M   | 3C  ATERIAL U                            | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO  | V   |  | 3C  ATERIAL U                            | 0                                     |
| USE CODE: DOMESTICMUNICIPAL/PUBLIC   | V   | OLUME OF M   | 3C  ATERIAL U                            | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO  | V   | OLUME OF M   | 3C  ATERIAL U                            | 0                                     |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC INDUSTRIAL INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO  | V 8413<br>6 9<br>5 p  | OLUME OF M   | ATERIAL U                                | 0                                     |

**DENV 828** JULY 1997 4) WELL OWNER

#### MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 1800 Washington Blvd., Baltimore, Maryland 21230 (410) 537-3784 WATER WELL ABANDONMENT-SEALING REPORT FORM SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM DATE WELL ABANDONED: PERMIT NUMBER OF ABANDONED WELL (if any) PERMIT NUMBER OF REPLACEMENT WELL PERSON ABANDONING WELL: Charles Chizm WELL DRILLERS LICENSE NUMBER: 560 -aloco CIRCLE: MWD/MSD/MGD OWNER'S NAME: FYXON Mobile SITE LOCATION MAP WELL LOCATION: COUNTY: Ball. Con NEAREST TOWN: Landon \_\_\_\_\_ BLOCK \_\_\_ TAX MAP \_\_\_ PARCEL\_ SUBDIVISION: \_\_\_\_ \_\_ LOT: 430 1 SECTION: \_\_ NEAREST ROAD: Doston TYPE OF WELL BEING ABANDONED: LOG OF SEALING MATERIAL DRILLED **FEET** BORED/AUGERED \_\_\_\_\_HAND DUG **MATERIAL** OTHER (specify) **FROM** TO USE CODE: 38 0 Bankonde DOMESTIC \_\_ MUNICIPAL/PUBLIC IRRIGATION \_\_INDUSTRIAL TEST/OBSERVATION \_\_\_\_\_GEOTHERMAL TYPE OF CASING: \_\_\_\_\_ OTHER (specify) \_\_\_\_ CONCRETE SIZE OF CASING: \_\_\_\_\_\_ INCHES IN DIAMETER

VOLUME OF MATERIAL USED 6 god. 772

WAS CASING RIPPED OR PERFORATED? \_\_\_\_YES \_\_\_\_NO

DEPTH OF WELL: 38 FEET DEEP

WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_ if yes, length removed, in feet:

MWD/MSD/MGD

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

CIRCLE ONE

| 018   |  |                    |             |
|---|--|--------------------|-------------|
| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER M<br>1800 Washington Blvd., Baltimore, Maryland 212 |  | ATION              |             |
| 1000 washington Divd., Datumore, Maryland 212   | 230 (410) 337-3764<br>***********  | ******             | *****       |
| WATER WELL ABANDONMENT-SEALING RE   | EPORT FORM   | *****              | ****        |
|   |  |                    |             |
| * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)                                  |  |                    |             |
| * WELL OWNER  * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM                                |  |                    |             |
| Lil. ha   |  |                    |             |
| DATE WELL ABANDONED: (month/day/year)   |  |                    |             |
|   | - 20 <u> </u>  |                    |             |
| * PERMIT NUMBER OF ABANDONED WELL (if any)  | MA   |                    | <del></del> |
| * PERMIT NUMBER OF REPLACEMENT WELL   | 112  | •                  | <del></del> |
| * PERSON ABANDONING WELL: Charl Chizm   | DRILLERS LICENSE NUMB  | ER: _56            | 0-060       |
|   |  | IRCLE: MW          |             |
| * OWNER'S NAME: Exyon Mobile  | SITE LOCATION MA   | <sup></sup> .<br>P |             |
| * WELL LOCATION:  | /  |                    |             |
| COUNTY: Last. City  |  | 1.0                |             |
| NEAREST TOWN: BLOCK PARCEL  |  |                    |             |
| SUBDIVISION:  |  |                    |             |
| SECTION: LOT: 430/  |  |                    |             |
| NEAREST ROAD: Boston 51.  |  |                    |             |
|   | Contraction of the second seco |                    |             |
|   |  | 12                 |             |
|   |  | 70,2               | <b>N</b>    |
| TYPE OF WELL BEING ABANDONED:   |  |                    | <u>~</u>    |
| * TIPE OF WELL BEING ABANDONED.   | LOG OF SEAL  | ING MATER'         | IAI.        |
|   |  |                    |             |
| BORED/AUGEREDHAND DUGOTHER (specify)  | MATERIAL   | FE                 | EET         |
| O TABLE (oponly)  |  | FROM               | TO          |
| * USE CODE:   | Cement & Ben   | 1,20               | 0           |
| DOMESTIC MUNICIPAL/PUBLIC   |  |                    |             |
| IRRIGATION INDUSTRIAL   |  |                    |             |
| GEOTHERMAL  |  |                    |             |
| * TYPE OF CASING:   |  |                    |             |
| STEELPLASTIC  |  |                    |             |
| CONCRETE OTHER (specify)  |  |                    |             |
|   |  |                    |             |
| * SIZE OF CASING: INCHES IN DIAMETER  | VOLUME OF N  | AATERIAI II        | leed.       |
|   | 50168 Ce-  |                    | SED         |
| * DEPTH OF WELL: FEET DEEP  | 3 168 ben<br>5 gdl. 173  | <b>X</b>           |             |
| * WAS ANY CASING REMOVED? YES NO  | 5 god. At  | <b>ð</b>           |             |
| if yes, length removed, in feet:  |  |                    |             |
| * WAS CASING RIPPED OR PERFORATED? YESNO  |  |                    |             |
|   |  | ~ * * * *          | 1. L.L.     |

LICENSE #

| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANA<br>1800 Washington Blvd., Baltimore, Maryland 21230 (4 |  | TION     |              |
|---|--|----------|--------------|
| ***********   | ****************   | *****    | *****        |
| WATER WELL ABANDONMENT-SEALING REPOR'   | Γ FORM<br>***********  | *****    | ****         |
| UBMIT COPIES OF COMPLETED FORM TO:  |  |          |              |
| COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER                                 |  |          |              |
| MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM  |  | artik ûr |              |
| DATE WELL ABANDONED: (month/day/year)   |  |          |              |
|   | en de la companya de<br>La companya de la co |          |              |
| PERMIT NUMBER OF ABANDONED WELL (if any)  | 7 <i>7</i>   |          | <u> </u>     |
| PERMIT NUMBER OF REPLACEMENT WELL   | 14   |          | <u></u>      |
| PERSON ABANDONING WELL: Chool Chism WELL DRIL   | LERS LICENSE NUMBER  |          |              |
| OWNER'S NAME: Exxon Mobile  | CIF  | RCLE: MW | D/MSD/MGD    |
| OWINDA O INMID.   | SITE LOCATION MAP  |          | ·            |
| WELL LOCATION:  |  |          |              |
| COUNTY: Balt CITY NEAREST TOWN: Contal  |  |          |              |
| TAX MAP BLOCK PARCEL  |  |          |              |
| SUBDIVISION: LOT: 430/  |  |          |              |
| SECTION: LOT: 430/ NEAREST ROAD: flos for 57.   |  |          |              |
| NEARLST ROAD.   |  | -        | ************ |
|   |  | -        | -            |
|   |  | 19       | ĥ            |
|   |  | 30       | 4×           |
|   |  |          |              |
| TYPE OF WELL BEING ABANDONED:   |  |          |              |
| JETTED  | LOG OF SEALIN  | IG MATER | IAL          |
| BORED/AUGERED HAND DUG  | MATERIAL   | FE       | ET           |
| OTHER (specify)   | WATERIAL   | FROM     | то           |
| LICE CODE.  | Conart & 12  |          |              |
| USE CODE:   | Bentrite   | 38       |              |
| DOMESTIC MUNICIPAL/PUBLIC   |  |          |              |
| IRRIGATIONINDUSTRIAL  |  |          |              |
| GEOTHERMAL  |  |          |              |
| TYPE OF CASING:   |  |          |              |
|   |  |          |              |
| STEELPLASTIC  |  |          |              |
| CONCRETE OTHER (specify)  |  |          |              |
| <u></u>   |  |          |              |
| SIZE OF CASING: INCHES IN DIAMETER  | VOLUME OF M.   |          | SED          |
| DEPTH OF WELL: FEET DEEP  | 94 183 Come  | 7        |              |
| DEFIR OF WELL. 712 FEET DEEF  | 5 163 bent   | •        |              |
| WAS ANY CASING REMOVED? YES NO  | 94 183 come<br>5 163 bent<br>6 gal. 110  |          |              |
| if yes, length removed, in feet:  |  |          |              |
| WAS CASING RIPPED OR PERFORATED? YES NO   |  |          |              |
| MAD CABING KILLD ON LEAF-DIATED 125 110   |  | IND      | ulda         |
| SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE   | MWD/MSD/MGD<br># CIRCLE ONE  | עשא      | DATE         |
|   |  |          |              |

|   | NAGEMENT ADM<br>(410) 537-3784         | INISTRATION     |          |
|---|--|-----------------|----------|
| **************************************  | ************************************** | ******          | *****    |
| ******************  | *****                                  | ******          | *****    |
| UBMIT COPIES OF COMPLETED FORM TO:  COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)  WELL OWNER  MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM  |  |                 |          |
| ATE WELL ABANDONED: 5/1/68 (month/day/year)   |  |                 |          |
| PERMIT NUMBER OF ABANDONED WELL (if any)  | nA -                                   |                 |          |
| PERMIT NUMBER OF REPLACEMENT WELL   | nn -                                   |                 |          |
| 0/10/-  | RILLERS LICENSE                        |                 |          |
| OWNER'S NAME: Exxon Mobile  | SITE LOCATI                            | CIRCLE: MW      | VD/MSD/M |
| WELL LOCATION: COUNTY: Colk. City   | SHE LOCALI                             | ON MAI          |          |
| NEAREST TOWN: Canted TAX MAP BLOCK PARCEL   |  |                 |          |
| SUBDIVISION: LOT: 432   |  |                 |          |
| NEAREST ROAD: Boston 57.  |  |                 |          |
|   |  | 302             |          |
|   |  | <b>30</b>       | P        |
| TYPE OF WELL BEING ABANDONED:   | 100.0                                  | F SEALING MATER | DIAT     |
| JETTED  | 1000                                   | T SEALING MATER | MAL      |
| BORED/AUGERED HAND DUG OTHER (specify)  | MATERIA                                | AL              | EET      |
|   |  | FROM            | то       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC  | Cement<br>Bon                          | FROM            | то       |
| OTHER (specify) USE CODE:   |  | FROM            | то       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL  |  | FROM            | то       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  |  | FROM            | то       |
| OTHER (specify)  USE CODE: DOMESTICMUNICIPAL/PUBLICIRRIGATIONINDUSTRIALTEST/OBSERVATIONGEOTHERMAL  TYPE OF CASING:STEELPLASTIC  | Cement                                 | FROM 30         | ТО       |
| OTHER (specify)  USE CODE: DOMESTICMUNICIPAL/PUBLICIRRIGATIONINDUSTRIALTEST/OBSERVATIONGEOTHERMAL  TYPE OF CASING: STEELPLASTICOTHER (specify)  | Cement-BONY VOLUE                      | FROM 300        | ТО       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: STEEL PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO   | Cement                                 | FROM 300        | ТО       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO         | Cement-BONY VOLUE                      | FROM 300        | ТО       |
| USE CODE:  DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL / PEST/OBSERVATION GEOTHERMAL  TYPE OF CASING: STEEL PLASTIC OTHER (specify)  SIZE OF CASING: INCHES IN DIAMETER  DEPTH OF WELL: FEET DEEP  WAS ANY CASING REMOVED? YES NO | VOLUI 9418 ca 4188                     | FROM 300        | ТО       |

WAS ANY CASING REMOVED? \_\_\_\_ YES \_\_\_ if yes, length removed, in feet:

DEPTH OF WELL: \_\_\_\_\_\_ FEET DEEP

WAS CASING RIPPED OR PERFORATED? \_\_\_\_ YES \_\_\_\_

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

MWD/MSD/MGDX63

| oh 3  |  | ATED MANIACE                    | ACATE A DA ADATOTO   | ATTONI         |                        |
|---|--|---------------------------------|--|----------------|------------------------|
|   | ENT OF THE ENVIRONMENT, Washington Blvd., Baltimore, Maryl |                                 |  | AHON           |                        |
| **************************************  | **************************************                     | **************<br>ING REPORT FO | **************************************   | *****          | *****                  |
| *********   | *********  | *****                           | *****  | *****          | *****                  |
| UBMIT COPIES OF COMPLETED FORM TO<br>COUNTY ENVIRONMENT AGENCY (  | ):<br>contact MDE. WMA if address near                     | eded)                           |  | and the second |                        |
| WELL OWNER MDE, WATER MANAGEMENT ADMI   |  |                                 |  |                |                        |
| ATE WELL ABANDONED: 4/1/08  | (month/day/year)   |                                 |  |                |                        |
| 물리의 사용 전 (1945년 - 1945년 - 1945<br>1947년 - 1947년 - 1945년 |  | -                               |  |                |                        |
| PERMIT NUMBER OF ABANDONED  | WELL (if any)  | 14                              | <u> </u>   |                | <u></u>                |
| PERMIT NUMBER OF REPLACEMEN   | T WELL   | nA                              | <del>}</del>   |                |                        |
| PERSON ABANDONING WELL:   | had Chism  | WELL DRILLE                     | RS LICENSE NUMBE   | R: 50%         | 0-066                  |
| OWNER'S NAME: EXYON   |  | WEED DREED.                     |  | RCLE: MWI      | ,                      |
| OWNER'S NAME: EXYON   | MODIL P  | <b>.</b>                        | SITE LOCATION MAP  |                |                        |
| WELL LOCATION:  |  | N                               |  |                |                        |
| NEAREST TOWN: Canton  |  | M                               |  |                |                        |
| · -   | PARCEL   |                                 |  |                |                        |
| SUBDIVISION:LOT:  | . 4301   | Le la                           |  |                |                        |
| SECTION: LOT:   | 7  |                                 |  | •              |                        |
|   |  | 2                               | The state of the s |                | سمعي                   |
|   |  | N                               |  | · A            | <del> </del>           |
|   |  |                                 |  | 3023           | <b>€</b><br>Secondario |
| TYPE OF WELL BEING ABANDONED  | <b>)</b> :   |                                 | LOG OF SEALI   | NC MATERI      | AT                     |
| DRILLED   | _JETTED  |                                 | LOG OF SEAL  | ,              |                        |
| BORED/AUGERED OTHER (specify)   | _HAND DUG  |                                 | MATERIAL   | FE             | 1                      |
|   |  |                                 | conent 0   | FROM           | ТО                     |
| USE CODE:   |  | [                               | Bent.  | 26             | 0                      |
| DOMESTIC  | MUNICIPAL/PUBLIC   |                                 |  |                |                        |
| IRRIGATION TEST/OBSERVATION   | INDUSTRIAL<br>GEOTHERMAL                                   |                                 |  |                |                        |
|   |  |                                 |  |                |                        |
| TYPE OF CASING:   |  |                                 |  |                |                        |
| STEEL   | PLASTIC  |                                 |  |                |                        |
| CONCRETE  | OTHER (specify)  |                                 |  |                |                        |
| · · · · · · · · · · · · · · · · · · ·   |  |                                 |  |                |                        |
| SIZE OF CASING: INCH  | IES IN DIAMETER  |                                 | VOLUME OF M  | IATERIAL U     | SED                    |
| DEPTH OF WELL: 26 FEET  | DEEP   |                                 | 9416. cemer<br>516. bent.  | 1 June         |                        |
| WAS ANY CASING REMOVED?   | YESNO  |                                 | John Han   |                |                        |
| if yes, length removed, in feet:  | TESNO  | L                               | GT II C  |                |                        |
| WAS CASING RIPPED OR PERFORAT   | red? yes,no  |                                 |  |                | •                      |
|   | ) Ald  |                                 | MWD/MSD/MGI  | 7763           | 4/1/0                  |
| IGNATURE-MASTER WELL DRILLER OR   | SUPERVISING SANITARIAN                                     | LICENSE #                       | CIRCLE ONE   |                | DATE                   |
| CHARLOKE MAIDIER WEEL STREET, ON  | 001 221 1 222 1 0 2 1 2 1 1 1 1 1 1 1 1                    |                                 |  |                |                        |

**DENV 828** JULY 1997

4) WELL OWNER

| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WAT<br>1800 Washington Blvd., Baltimore, Maryland   |   |
|---|---|
| **************************************  | **************************************                      |
| ***********   | ***********   |
| SUBMIT COPIES OF COMPLETED FORM TO:  * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address neede  * WELL OWNER  * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM | <b>xd)</b>  |
| DATE WELL ABANDONED: 4/1/08 (month/day/year)  |   |
| * PERMIT NUMBER OF ABANDONED WELL (if any)  | n4  |
| * PERMIT NUMBER OF REPLACEMENT WELL   | pr  |
|   | VELL DRILLERS LICENSE NUMBER: 560 - CCC CIRCLE: MWD/MSD/MGD |
| * OWNER'S NAME: Expen Mabile  | SITE LOCATION MAP   |
| * WELL LOCATION:  COUNTY:   Pault City  NEAREST TOWN:   Country  TAX MAP BLOCK PARCEL  SUBDIVISION: LOT:  SECTION: LOT:  NEAREST ROAD:   Backen 51                      | Jest 25   |
| * TYPE OF WELL BEING ABANDONED:   | 3031  |
|   | LOG OF SEALING MATERIAL                                     |
| DRILLEDJETTEDBORED/AUGEREDHAND DUGOTHER (specify)   | MATERIAL FEET FROM TO                                       |
| * USE CODE:   | Coment & partiale 3 7 C                                     |
| DOMESTIC MUNICIPAL/PUBLIC IRRIGATION INDUSTRIAL TEST/OBSERVATION GEOTHERMAL   |   |
| * TYPE OF CASING:   |   |
| STEELPLASTICOTHER (specify)   |   |
| * SIZE OF CASING: INCHES IN DIAMETER  | VOLUME OF MATERIAL USED                                     |
| * DEPTH OF WELL: 37 FEET DEEP   | 190165 Coment.  |
| * WAS ANY CASING REMOVED? YESNO   | 12 901 120  |
| if yes, length removed, in feet:  |   |
| * WAS CASING RIPPED OR PERFORATED? YES NO   | MWD (400 MOD W.) 4//0                                       |
| SIGNATURE-MASTER WEIL DRILLER OR SUPERVISING SANITARIAN I   | MWD/MSD/MGD)/Vo3 7/1/8 LICENSE # CIRCLE ONE DATE            |
| DENV 828 JULY 1997 4) WELL OWNER  | <b>⊕</b>  |

4) WELL OWNER

| MARYLAND DEPARTMENT OF THE ENVIRONMENT,<br>1800 Washington Blvd., Baltimore, Mar                                     | i i          |                                       | ATION  |   |
|--|--------------|---------------------------------------|--|---|
| WATER WELL ABANDONMENT-SE  | ALING REPORT | FORM                                  | *****  | *****                                   |
| *************  | *****        | ******                                | *****  | *****                                   |
| SUBMIT COPIES OF COMPLETED FORM TO:  |              |                                       |  |   |
| COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRA |              |                                       |  |   |
| DATE WELL ABANDONED: 4/1/08 (month/day/ye  | ar)          |                                       |  |   |
|  |              |                                       |  |   |
| PERMIT NUMBER OF ABANDONED WELL (if any)   |              | A                                     | <br>-  |   |
| PERMIT NUMBER OF REPLACEMENT WELL  | 1            | <u> </u>                              |  |   |
| PERSON ABANDONING WELL: Charle Chris   | WELL DRILL   | LERS LICENSE NUMBE                    | R: <u>560</u>  | D/MSD/MGD                               |
| OWNER'S NAME: Balk Exxon   |              | SITE LOCATION MAP                     |  | J/ MSD/ MGD                             |
| WELL LOCATION:   |              |                                       |  |   |
| COUNTY: Bak. City  |              |                                       |  |   |
| NEAREST TOWN: Confed PARCEL PARCEL   |              |                                       |  |   |
| SUBDIVISION:   |              |                                       |  |   |
| SECTION:LOT: 4031  |              |                                       |  |   |
| NEAREST ROAD: Contra 51  | 20           |                                       | The same of the sa | ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, |
|  | 14 63        |                                       |  |   |
|  | 12 %         |                                       |  |   |
|  |              | 303                                   | 2  |   |
| * TYPE OF WELL BEING ABANDONED:  |              |                                       | **************************************   |   |
|  |              | LOG OF SEALI                          | NG MATERI  | AL                                      |
| DRILLED JETTED BORED/AUGERED HAND DUG  |              |                                       | FE   | ET                                      |
| OTHER (specify)  |              | MATERIAL                              | 115  |   |
|  |              |                                       | FROM   | TO                                      |
| * USE CODE:  |              | Comento Bent.                         | 32   | 0                                       |
| DOMESTIC MUNICIPAL/PUBLIC  |              |                                       | 1,21   |   |
| IRRIGATIONINDUSTRIAL   |              |                                       |  |   |
| TEST/OBSERVATION GEOTHERMAL  |              |                                       |  |   |
| TYPE OF CASING:  |              | , , , , , , , , , , , , , , , , , , , |  |   |
| TIPE OF CASING.  |              |                                       |  |   |
| STEELPLASTIC   |              |                                       |  |   |
| CONCRETE OTHER (specify)   |              |                                       |  |   |
|  |              |                                       |  |   |
| size of casing: inches in diameter   |              |                                       |  |   |
| Mello II DIAMBLER  |              | VOLUME OF M                           | -  | SED                                     |
| DEPTH OF WELL: FEET DEEP   |              | 190 16 Cem                            | est!   |   |
|  |              | 10 16 bent                            | ( ,, )   |   |
| WAS ANY CASING REMOVED? YES NO   |              | 14 9ali                               | 140  |   |
| if yes, length removed, in feet:   |              |                                       |  |   |
| was casing ripped or perforated? yes no  |              |                                       |  |   |
| 1) 41.13   |              | MWD/MSD/MGI                           | 1063   | 4/1/8                                   |
| SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN  | LICENSE #    | CIRCLE ONE                            |  | ĎATE                                    |
| DENV 828 JULY 1997 4) WELL OWNER   |              |                                       |  | <b>⊕</b>                                |
|  |              |                                       |  |   |

| 50.            | MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATEI 1800 Washington Blvd., Baltimore, Maryland 2   |                  |  | ATION                    |
|----------------|--|------------------|--|--------------------------|
| ****           | WATER WELL ABANDONMENT-SEALING   | REPORT           | ************************************** | *****                    |
| SUBM<br>*<br>* | IIT COPIES OF COMPLETED FORM TO:  COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM |                  |  |                          |
| DATE           | WELL ABANDONED: 4/1/68 (month/day/year)  |                  |  |                          |
|                |  |                  |  |                          |
| *              | PERMIT NUMBER OF ABANDONED WELL (if any)   | 11               | 1A                                     |                          |
| *              | PERMIT NUMBER OF REPLACEMENT WELL  | 1                | <u> </u>                               |                          |
| *              | PERSON ABANDONING WELL: Chad Chom WEI  | LL <b>DRIL</b> L | ERS LICENSE NUMBE                      | R: <u>560-066</u>        |
| * .            | PERSON ABANDONING WELL: Chad Chim WEI OWNER'S NAME: Exual Mobile   |                  | CI                                     | RCLE: <u>MWD/MSD/MGD</u> |
| . · · .<br>★   | WELL LOCATION:   | 1                | SITE LOCATION MAP                      |                          |
|                | NEAREST TOWN:  |                  |  |                          |
|                | SUBDIVISION:   |                  |  |                          |
|                | NEAREST ROAD: Books 37   | 4                |  |                          |
|                |  |                  | 24                                     |                          |
|                |  |                  | A                                      |                          |
| *              | TYPE OF WELL BEING ABANDONED:  |                  |  |                          |
|                |  |                  | LOG OF SEALI                           | NG MATERIAL              |
|                | BORED/AUGERED HAND DUG OTHER (specify)   |                  | MATERIAL                               | FEET FROM TO             |
| *              | USE CODE:  |                  | Cemeste<br>Bentade                     | 33 O                     |
|                | DOMESTIC MUNICIPAL/PUBLIC  |                  | Berlinde                               |                          |
|                | IRRIGATIONINDUSTRIALTEST/OBSERVATIONGEOTHERMAL   |                  |  |                          |
|                |  |                  |  |                          |
| *              | TYPE OF CASING:  |                  |  |                          |
|                | STEELPLASTICOTHER (specify)  |                  |  |                          |
|                |  |                  |  |                          |
| *              | SIZE OF CASING: INCHES IN DIAMETER   |                  |  | IATERIAL USED            |
| *              | DEPTH OF WELL: 33 FEET DEEP  |                  | 190 165 Cm.                            | *                        |
| *              | WAS ANY CASING REMOVED? YES NO if yes, length removed, in feet:  |                  | 14 gal. HZ                             | 2                        |
|                | WAS CASING RIPPED OR PERFORATED?YESNO  |                  |  |                          |
| *              | WAS CASING KILLED OK LEKTOKALED: TES NO  |                  | MWD/MSD/MGI                            | 34/1/2                   |
| OTON           | ATLIDE MASTED WELL DOLLED OF SUPERVISING SANITARIAN LIG  | TENSE #          |  | DATE                     |

DENV 828

JULY 1997

| 2035  |  |   |          |
|---|--|---|----------|
| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANA<br>1800 Washington Blvd., Baltimore, Maryland 21230 (4   |  | ATION   |          |
| **************************************  | *********  | *****   | ****     |
| WATER WELL ABANDONMENT-SEALING REPOR'   | Γ FORM   |   |          |
| CANDA MID CODING OF COLUMN PETER TORNA TO   |  |   |          |
| * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)  |  |   |          |
| * WELL OWNER  |  |   |          |
| * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM  |  |   |          |
| DATE WELL ABANDONED: 4/16 (month/day/year)  |  |   |          |
|   |  |   |          |
| * PERMIT NUMBER OF ABANDONED WELL (if any)  | 1 A  | <u> </u>  |          |
| * PERMIT NUMBER OF REPLACEMENT WELL   | 14   | 14.1.<br>2.4.4.1.5  | <u> </u> |
|   |  | سرمسنيد   | /        |
| · · · · · · · · · · · · · · · · · · ·   | LERS LICENSE NUMBE   |   | D/MSD/MG |
| * OWNER'S NAME: Exxon Mobile  |  | RCDD. <u>IMW</u>  | D/MOD/MC |
|   | SITE LOCATION MAP  |   | <u> </u> |
| * WELL LOCATION:  |  |   |          |
| COUNTY: Past City NEAREST TOWN: Coudes  |  |   |          |
| TAX MAP BLOCK PARCEL  |  |   |          |
| SUBDIVISION:  |  |   |          |
| SECTION:LOT:  |  |   |          |
| NEAREST ROAD: Boster ST.  |  |   |          |
|   |  | AND REAL PROPERTY AND PERSONS ASSESSMENT  |          |
|   |  |   |          |
| Was a second of the second of | 1  |   |          |
|   | MO >   |   | *        |
|   |  | - Agentina |          |
| * TYPE OF WELL BEING ABANDONED:   | ***  |   |          |
| * 11FE OF WELL BEING ABANDONED.   | LOG OF SEALI   | NC MATER  | TAT      |
|   | LOG OF SEALI   | NO MATER  | IAL      |
| BORED/AUGEREDHAND DUG   | MATERIAL   | FF  | EET      |
| OTHER (specify)   | WHILKIAL   | FROM  | то       |
| ★ USE CODE:   | Compet 0   |   | 10       |
| * USE CODE:   | Cement Q<br>Best   | 29  | 0        |
| DOMESTIC MUNICIPAL/PUBLIC   | 120117   |   |          |
| IRRIGATION INDUSTRIAL   |  |   |          |
| TEST/OBSERVATION GEOTHERMAL   |  |   |          |
|   |  |   |          |
| * TYPE OF CASING:   |  |   | * +      |
| STEEL PLASTIC   |  |   |          |
|   |  |   |          |
| CONCRETE OTHER (specify)  | ·  |   |          |
|   |  |   |          |
| * SIZE OF CASING: INCHES IN DIAMETER  | VOLUME OF M  | ATERIAL U   | SED      |
| * DEPTH OF WELL: 29 FEET DEEP   |  | 7 . 944   |          |
| * DEFIR OF WELL. 25 / FEET DEET   | 10165 bent   |   |          |
| * WAS ANY CASING REMOVED? YES NO  |  |   |          |
| if yes, length removed, in feet:  |  | <del></del>   |          |
|   |  |   |          |
| * WAS CASING RIPPED OR PERFORATED? YES NO   | en de la companya de<br>La companya de la co |   | 11       |
|   |  |   | m 18 1   |
| 1) Live   | MWD/MSD/MGI  | DY63  | 4110     |

4) WELL OWNER

**DENV 828** 

JULY 1997

|         | MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MAN<br>1800 Washington Blvd., Baltimore, Maryland 21230 (4                     |                                    | ATION                                 |                  |
|---------|--|------------------------------------|---------------------------------------|------------------|
| ****    | *********************  | *****                              | *****                                 | ****             |
| ****    | WATER WELL ABANDONMENT-SEALING REPOR   | (1 FORM<br>************            | *****                                 | *****            |
| SUBM    | IT COPIES OF COMPLETED FORM TO:  |                                    |                                       |                  |
| *<br>*  | COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed) WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM |                                    |                                       |                  |
| DATE    | WELL ABANDONED: 4/1/68 (month/day/year)  |                                    |                                       |                  |
| DATE    | WEEL ABANDONED.  |                                    | ing the last of                       |                  |
|         |  | <u>,</u>                           |                                       |                  |
| *       | PERMIT NUMBER OF ABANDONED WELL (if any)   | 14                                 |                                       |                  |
| ***; ·  | PERMIT NUMBER OF REPLACEMENT WELL  | 14                                 | and the second                        | <u> </u>         |
| * * * * |  | LLERS LICENSE NUMBE<br>CI          |                                       | D-OGG<br>MSD/MGD |
| *.      | OWNER'S NAME: Exxan Mah: 10  | SITE LOCATION MAI                  | •                                     |                  |
| *       | WELL LOCATION:   |                                    |                                       |                  |
|         | COUNTY:  |                                    |                                       |                  |
|         | TAX MAP BLOCK PARCEL   |                                    |                                       |                  |
|         | SUBDIVISION:   |                                    | 100                                   |                  |
|         | SECTION:LOT:   |                                    |                                       |                  |
|         | NEAREST ROAD: Boshon 57  |                                    |                                       |                  |
|         | y  | 0%                                 | • ,                                   |                  |
|         |  | 2010                               |                                       |                  |
|         |  | 7010                               |                                       |                  |
|         |  | 1, 4                               | *                                     |                  |
|         |  | #edi<br>e                          |                                       |                  |
| *       | TYPE OF WELL BEING ABANDONED:  |                                    |                                       |                  |
|         |  | LOG OF SEAL                        | NG MATERI                             | AI.              |
|         | JETTED   | 20001021                           |                                       |                  |
|         | BORED/AUGEREDHAND DUG  | MATERIAL                           | FEI                                   | ET               |
|         | OTHER (specify)  |                                    | FROM                                  | TO               |
|         |  | 1. 10                              | FROM                                  | TO               |
| *       | USE CODE:  | (encet & gent.                     | 36                                    | 0                |
|         | DOMESTIC MUNICIPAL/PUBLIC  |                                    |                                       |                  |
|         | KRIGATIONINDUSTRIAL  |                                    |                                       |                  |
|         | TEST/OBSERVATION GEOTHERMAL  |                                    | 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |                  |
|         |  |                                    |                                       | •                |
| *       | TYPE OF CASING:  |                                    |                                       |                  |
|         |  |                                    |                                       |                  |
| 1800    | STEELPLASTIC   |                                    |                                       |                  |
|         | CONCRETE OTHER (specify)   |                                    |                                       | \$1.44           |
|         |  |                                    |                                       |                  |
|         | SIZE OF CASING: INCHES IN DIAMETER   |                                    | <u> </u>                              | <u> </u>         |
| *       | SIZE OF CASING: / INCHES IN DIAMETER   | VOLUME OF M                        |                                       | SED              |
|         | DEPTH OF WELL: 34 FEET DEEP  | 94165000                           | men !                                 |                  |
|         |  | 5169 ber                           | 7                                     |                  |
| *       | WAS ANY CASING REMOVED? YES NO   | 94 165 Cen<br>5 169 ber<br>7 gal H | 2                                     |                  |
|         | if yes, length removed, in feet:   |                                    | i e                                   |                  |
|         |  |                                    |                                       |                  |
| *       | WAS CASING RIPPED OR PERFORATED? YES / NO  |                                    |                                       | 1 1              |
|         | $()$ $\alpha$  | MWD/MSD/MG                         | m.                                    | 4/1/0            |
| SIGN    | ATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN LICENSE  |                                    | -                                     | DATE             |

| 7022  |                        |                     |          |                                  |
|---|------------------------|---------------------|----------|----------------------------------|
| MARYLAND DEPARTMENT OF THE  | ENVIRONMENT, WATER MAN |                     | ATION    | ****                             |
| WATER WELL ABA  | NDONMENT-SEALING REPOR | T FORM              |          |                                  |
| ***********   | ********               | ******              | ******   | *****                            |
| SUBMIT COPIES OF COMPLETED FORM TO: COUNTY ENVIRONMENT AGENCY (contact MDE, WELL OWNER MDE, WATER MANAGEMENT ADMINISTRATION |                        |                     |          |                                  |
| DATE WELL ABANDONED: 4/1/08   | (month/day/year)       |                     |          |                                  |
| PERMIT NUMBER OF ABANDONED WELL (if any   |                        | 14                  |          | unia ji<br><del>Tab</del> iya sa |
| PERMIT NUMBER OF REPLACEMENT WELL   |                        | 14                  |          | <u> </u>                         |
| PERSON ABANDONING WELL: Chool CL  |                        | LLERS LICENSE NUMBE |          | D /2 (0D /2 (                    |
| OWNER'S NAME: Exkous Mobile   | <u>o</u>               | SITE LOCATION MAP   | RCLE: MW | D/MSD/MQ                         |
| WELL LOCATION:  COUNTY:   |                        |                     |          |                                  |
| NEAREST ROAD: 772   | Beth                   | 3042<br>A           |          |                                  |
| TYPE OF WELL BEING ABANDONED:   | harran a sarangan .    |                     |          |                                  |
| JETTED  |                        | LOG OF SEALI        | NG MATER | IAL                              |
| BORED/AUGERED HAND DUG OTHER (specify)  |                        | MATERIAL            | FF       | EET .                            |
| OTHER (specify)   |                        |                     | FROM     | то                               |
| USE CODE: DOMESTIC MUNICIP  | PAL/PUBLIC             | Cament & Bental     | . 0      | 28                               |
| IRRIGATION INDUSTR  |                        |                     |          |                                  |

TEST/OBSERVATION \_ \_\_\_\_ GEOTHERMAL

TYPE OF CASING:

PLASTIC STEEL OTHER (specify) \_\_\_ CONCRETE

\_ INCHES IN DIAMETER SIZE OF CASING:\_

DEPTH OF WELL: 28 FEET DEEP

WAS ANY CASING REMOVED? \_\_\_\_ YES \_ if yes, length removed, in feet:

WAS CASING RIPPED OR PERFORATED? \_\_\_\_ YES \_\_\_\_\_NO

MWD/MSD/MGD)663

**VOLUME OF MATERIAL USED** 

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

CIRCLE ONE

94163 Comen 5168 Dent

| WATER WELL ABANDONMENT-SEALI   | NG REPORT FORM                     |                    |
|--|------------------------------------|--------------------|
| TRACTIC OF COMPLETED TORK TO   | ******                             | <b>***********</b> |
| JBMIT COPIES OF COMPLETED FORM TO:  COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address need WELL OWNER  MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM | led)                               |                    |
| ATE WELL ABANDONED: 4/1/48 (month/day/year)  |                                    |                    |
|  |                                    |                    |
| PERMIT NUMBER OF ABANDONED WELL (if any)   | NP                                 |                    |
| PERMIT NUMBER OF REPLACEMENT WELL  | <u> 14</u>                         |                    |
| PERSON ABANDONING WELL: Chacl Chira  | WELL DRILLERS LICENSE NUME         | ER: 700 -060       |
| OWNER'S NAME: Exyon Mobile   |                                    | CIRCLE: MWD/MSD/MO |
| WELL LOCATION:   | SITE LOCATION MA                   | <b>P</b>           |
| COUNTY: Patt-City NEAREST TOWN: Canter   | $\mathcal{M}$                      |                    |
| TAX MAP BLOCK PARCEL   | A.                                 |                    |
| SUBDIVISION: LOT: 403/   | N                                  |                    |
| NEAREST ROAD: Baston II.   |                                    |                    |
|  |                                    |                    |
|  |                                    |                    |
|  | 4 16 1                             |                    |
| TYPE OF WELL BEING ABANDONED:  | <del></del>                        |                    |
|  | LOG OF SEAL                        | ING MATERIAL       |
| BORED/AUGERED HAND DUG   | MATERIAL                           | FEET               |
| OTHER (specify)  |                                    | FROM TO            |
| USE CODE:  | Cement Q                           | 28 0               |
| DOMESTIC MUNICIPAL/PUBLIC  |                                    |                    |
| IRRIGATIONINDUSTRIALTEST/OBSERVATIONGEOTHERMAL   |                                    |                    |
|  |                                    |                    |
| TYPE OF CASING:  |                                    |                    |
| STEELPLASTIC   |                                    |                    |
| CONCRETE OTHER (specify)   |                                    |                    |
| SIZE OF CASING: 4 INCHES IN DIAMETER   |                                    |                    |
| 그렇게 없다면 화되는 이 별 말라고 있는데 달라지 않는데 모르겠다고 하는데  | VOLUME OF I                        | MATERIAL USED      |
| DEPTH OF WELL: 28 FEET DEEP  | 94115 Cans. 5 168 bent. 7 gol. 112 |                    |
| WAS ANY CASING REMOVED? YES NO if yes, length removed, in feet:  | 7 901 11                           |                    |
|  |                                    |                    |
| WAS CASING RIPPED OR PERFORATED? YES NO  |                                    |                    |
|  | MWD/MSD/MG                         | \                  |

| MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER M 2500 BROENING HIGHWAY, BALTIMORE, MARYLAN              | D 21224, (410) 631-3784  |                    |
|--|--|--------------------|
| WATER WELL ABANDONMENT-SEALING R   |  | *****              |
| *****************  | ******   | ******             |
| SUBMIT COPIES OF COMPLETED FORM TO:  |  |                    |
| <ul> <li>COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address needed)</li> <li>WELL OWNER</li> </ul> |  |                    |
| * WELL OWNER  * MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM                                     |  |                    |
|  |  |                    |
| DATE WELL ABANDONED: 4/1/CC (month/day/year)   |  |                    |
|  |  |                    |
| * PERMIT NUMBER OF ABANDONED WELL (if any)   | 14   |                    |
|  | 14_  |                    |
| * PERMIT NUMBER OF REPLACEMENT WELL  |  |                    |
| * PERSON ABANDONING WELL: Chard Chizmy WELL  |  | 70 D del           |
|  | DRILLERS LICENSE NUMB  | CIRCLE: MWD/MSD/MC |
| * OWNER'S NAME: Exyon Mds:1-0  | ang tanggan ang kabupatèn ang kabupatèn ang kabupatèn ang kabupatèn ang kabupatèn ang kabupatèn ang kabupatèn<br>Ang kabupatèn ang kabupatèn | IRCLE. WWD/WSD/WC  |
|  | SITE LOCATION MA   | P                  |
| * WELL LOCATION:   |  |                    |
| COUNTY: Ball. City   | 0  |                    |
| NEAREST TOWN: Contest  | W  |                    |
| TAX MAP BLOCK PARCEL SUBDIVISION:  |  |                    |
| SECTION: LOT: 40 3 /   | 10   |                    |
| NEAREST ROAD: Bother 57.   |  |                    |
|  |  |                    |
|  |  |                    |
|  | No really  |                    |
|  | 7 %  |                    |
|  |  |                    |
| * TYPE OF WELL BEING ABANDONED:  |  |                    |
|  | LOG OF SEAL  | ING MATERIAL       |
| DRILLED JETTED BORED/AUGERED HAND DUG  |  |                    |
| BORED/AUGEREDHAND DUGOTHER (specify)   | MATERIAL   | FEET               |
| Office (specify)   |  | FROM TO            |
| ★ USE CODE:  | Cement 0   | 30 0               |
|  | pent.  |                    |
| DOMESTICMUNICIPAL/PUBLIC   |  |                    |
| IRRIGATIONINDUSTRIAL   |  |                    |
| TEST/OBSERVATION GEOTHERMAL  |  |                    |
| * TYPE OF CASING:  |  |                    |
|  |  |                    |
| STEELPLASTIC   |  |                    |
| CONCRETE OTHER (specify)   |  |                    |
| 용으로 하는 경기 역시 역사 전 보고 있는 경기 등 경기 등 등 경기 등 등 기계 등 기계 등 기계 등 기계 등   |  |                    |
| * SIZE OF CASING: INCHES IN DIAMETER   |  |                    |
| 네는 그 아니라 보고 있다 <u>고</u> 있다. 보고 있는데 보다는데 하는데 되었다. 다시 그리다.   | VOLUME OF N  | MATERIAL USED      |
| * DEPTH OF WELL: 30 FEET DEEP  | 94 165 Ce  | 1011 T             |
|  | 5168 60  |                    |
| * WAS ANY CASING REMOVED? YES NO   | 94 165 Ce<br>5165 be<br>7 991. H   | 6                  |
| if yes, length removed, in feet:   |  |                    |
| * WAS CASING RIPPED OR PERFORATED? YESNO   |  |                    |

**DENV 828** 

JULY 1997

| ****           | 2500 BROENING HIGHWAY, BALTIMORE, MAI   | RYLAND 2122 | 4, (410) 631-3784  |                   |
|----------------|---|-------------|--------------------|-------------------|
|                | WATER WELL ABANDONMENT-SEA  | LING REPORT |                    | *****             |
|                | *****************   | *****       | ******             | ******            |
| SUBN           | IIT COPIES OF COMPLETED FORM TO:  COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if address no | eded)       |                    |                   |
| . <del>*</del> | WELL OWNER  | seded)      |                    |                   |
| *              | MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROGRAM  | M           |                    |                   |
| DATI           | E WELL ABANDONED: 4/1/08 (month/day/year  | <b>)</b>    |                    |                   |
|                | 그 제 하면 이렇게 화장 학생에 한 것이 되었다면요.   |             |                    |                   |
| *              | PERMIT NUMBER OF ABANDONED WELL (if any)  | M           | <u> 1 – – </u>     |                   |
| *              | PERMIT NUMBER OF REPLACEMENT WELL   | 111         | <del>/</del>       |                   |
|                | PERSON ABANDONING WELL: Chacl Chi-  |             |                    | TOON              |
| *              |   | WELL DRIL   | LERS LICENSE NUMBE |                   |
| *              | OWNER'S NAME: Exva Mobile   |             | · ·                | RCLE: MWD/MSD/MG  |
|                |   |             | SITE LOCATION MAI  |                   |
| *              | WELL LOCATION:  | V           |                    |                   |
|                | COUNTY: Ball. City  | W           |                    |                   |
|                | NEAREST TOWN: Cantain   | . [9]       |                    |                   |
|                | TAX MAP BLOCK PARCEL  | V           |                    |                   |
|                | SUBDIVISION: LOT: 403/  | KI.         |                    |                   |
|                | NEAREST ROAD: Porton 11.  | W           |                    |                   |
| 1 × 1 2        | NEAREST ROAD: 13-772  | 1.          |                    |                   |
|                |   | 7           |                    |                   |
|                |   | k in        | .0                 |                   |
|                |   | 10          | M W                |                   |
|                |   | 3           | W V                |                   |
|                |   |             |                    |                   |
| *              | TYPE OF WELL BEING ABANDONED:   |             |                    |                   |
|                |   |             | LOG OF SEALI       | NG MATERIAL       |
|                | DRILLED JETTED  |             |                    |                   |
|                | BORED/AUGERED HAND DUG  |             | MATERIAL           | FEET              |
|                | OTHER (specify)   |             |                    | FROM TO           |
|                | USE CODE:   |             | Cement &           |                   |
| •              |   |             | Bentate            | $ \mathcal{A}  C$ |
|                | DOMESTICMUNICIPAL/PUBLIC  |             |                    |                   |
|                | IRRIGATIONINDUSTRIAL  |             |                    |                   |
|                | TEST/OBSERVATION GEOTHERMAL   |             |                    |                   |
|                | 경기를 되어 있다고 있다면 하다 가는 것이다고 있다.   |             |                    |                   |
| *              | TYPE OF CASING:   |             |                    |                   |
|                |   |             |                    |                   |
|                | STEEL PLASTIC   |             |                    |                   |
|                | CONCRETE OTHER (specify)  |             |                    |                   |
|                |   |             |                    |                   |
|                | SIZE OF CASING: INCHES IN DIAMETER  |             |                    |                   |
|                |   |             |                    | ATERIAL USED      |
| *              | DEPTH OF WELL: 2 / FEET DEEP  |             | 94 16 come         |                   |
|                |   |             | 5 163 ben          |                   |
| *              | WAS ANY CASING REMOVED? YESNO   |             | 7 gal H &          |                   |
|                | if yes, length removed, in feet:  |             |                    |                   |
| 844 × .        |   |             |                    |                   |
| .*             | WAS CASING RIPPED OR PERFORATED? YES NO   |             |                    |                   |
|                | A. L  |             | MWD/MSD/MGD        | 063 4/1/p         |
| SIGNA          | ATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN   | LICENSE #   | CIRCLE ONE         | DATE              |

3) WELL OWNER

**(** 

# MARYLAND DEPARTMENT OF THE ENVIRONMENT, WATER MANAGEMENT ADMINISTRATION 2500 BROENING HIGHWAY, BALTIMORE, MARYLAND 21224, (410) 631-3784

| 2500 BROENING HIGHWAY, BALTIMOR   | RE, MARYLAND 21224, (410) 631-3784   |  |
|---|--|--|
| WATER WELL ABANDONMEN   |  |  |
| ***********   | **************************************   | ******                                   |
| SUBMIT COPIES OF COMPLETED FORM TO:  * COUNTY ENVIRONMENT AGENCY (contact MDE, WMA if ac    | ddress needed)   |  |
| <ul> <li>WELL OWNER</li> <li>MDE, WATER MANAGEMENT ADMINISTRATION, WELL PROPERTY</li> </ul> | ROGRAM   | 보다. 하라 나는 하는 물로 함께<br>되고 말했다. 하는 하는 하는 것 |
| 아내는 그들은 그 살아 바꾸었다. 그는 그 그 그 사람이 되는 것 같아 나는 그를 다 가는 것이다.                                     |  |  |
| DATE WELL ABANDONED: 4/1/8 (month/  | day/year)  |  |
|   | n A  |  |
| * PERMIT NUMBER OF ABANDONED WELL (if any)  |  |  |
| * PERMIT NUMBER OF REPLACEMENT WELL   | M4   |  |
| * PERSON ABANDONING WELL: Chad Chism  * OWNER'S NAME: Exyan Mobile                          | 7 WELL DRILLERS LICENSE NUMBI  | 560-060                                  |
| * PERSON ABANDONING WELL:   | WELL DRILLERS LICENSE NOMBI  | IRCLE: MWD/MSD/MG                        |
| * OWNER'S NAME: Exyon Mobil &   |  |  |
| * WELL LOCATION:  | SITE LOCATION MAI  | P  |
| COUNTY Patt. (IT)   |  |  |
| NEAREST TOWN: Confort   |  |  |
| TAX MAP BLOCK PARCEL SUBDIVISION:   |  |  |
| SECTION: LOT:LOT  | 7  |  |
| NEAREST ROAD: Moster GT.  | The Market of the Control of the Con |  |
|   |  |  |
|   | I we charter   |  |
|   | 70,00  |  |
|   | ) ? Ø  |  |
| * TYPE OF WELL BEING ABANDONED:   |  |  |
|   | LOG OF SEAL  | ING MATERIAL                             |
| DRILLED JETTED  |  |  |
| BORED/AUGEREDHAND DUGOTHER (specify)  | MATERIAL   | FEET                                     |
|   |  | FROM TO                                  |
| * USE CODE:   | Coment & Pent  | 21 0                                     |
| DOMESTICMUNICIPAL/PUBLIC  |  |  |
| IRRIGATIONINDUSTRIAL  |  |  |
| TEST/OBSERVATION GEOTHERMAL   |  |  |
| ★ TYPE OF CASING:   |  |  |
|   |  |  |
| STEEL PLASTIC   |  |  |
| CONCRETE OTHER (specify)  |  |  |
| 보는 한 경우를 들어 🗦 그렇게 못하는데 모르다  |  |  |
| * SIZE OF CASING: INCHES IN DIAMETER  |  | IATERIAL USED                            |
| * DEPTH OF WELL: 18 FEET DEEP   | 50 163 Con<br>2113 best<br>3 gol. 17   |  |
|   | 2113 beig  |  |
| * WAS ANY CASING REMOVED? YES NO if yes, length removed, in feet:                           | 3 901. H   | <i>C</i>                                 |
| n yes, tengui temoveu, in teet.   |  |  |
| * WAS CASING RIPPED OR PERFORATED? YES NO   |  |  |
| Jell -  | MWD/MSD/MGI  | 1065 4/1/2                               |

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

CIRCLE ONE

DΑ̈́TE

SIGNATURE-MASTER WELL DRILLER OR SUPERVISING SANITARIAN

LICENSE #

MWD/MSD/MGD) Y//////
CIRCLE ONE

DATE

# **APPENDIX C**







04/09/08

# **Technical Report for**



Geotrans, Inc.

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

2604.049.31

Accutest Job Number: J86327

Sampling Date: 03/18/08

Report to:

Geotrans, Inc.

bchang@geotransinc.com

ATTN: Belssi Chang

Total number of pages in report: 15



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese President

Client Service contact: Matt Cordova 732-329-0200

Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.



# **Sections:**

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-1-

| Section 1: Sample Summary              | 3 |
|--|---|
| Section 2: Sample Results              |   |
| <b>2.1:</b> J86327-1: 14TH STREET COMP |   |
| Section 3: Misc. Forms                 |   |
| 3.1: Chain of Custody                  |   |



# Sample Summary

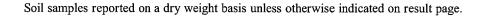
Geotrans, Inc.

Job No:

J86327

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD Project No: 2604.049.31

| Sample Collected Number Date Time By |                   | ole Collected Matrix | Client           |  |
|--------------------------------------|-------------------|----------------------|------------------|--|
| Number                               | Date Time By      | Received Code Type   | Sample ID        |  |
| J86327-1                             | 03/18/08 12:00 CB | 03/21/08 SO Soil     | 14TH STREET COMP |  |







| Sample Results     |  |  |
|--------------------|--|--|
| Report of Analysis |  |  |
|                    |  |  |



Page 1 of 1

Client Sample ID: 14TH STREET COMP

Lab Sample ID:

J86327-1 SO - Soil Date Sampled: 03/18/08 Date Received: 03/21/08

Matrix: Method:

SW846 8260B SW846 1311

Percent Solids: 81.5

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

|          | File ID   | DF | Analyzed | $\mathbf{B}\mathbf{y}$ | Prep Date |
|----------|-----------|----|----------|------------------------|-----------|
| Run #1   | L226139.D | 5  | 03/28/08 | MAH                    | 03/25/08  |
| <u> </u> |           |    |          |                        |           |

Prep Batch GP43307

**Analytical Batch** VL5241

Run #2

**Purge Volume** 

Run #1

5.0 ml

**VOA TCLP Leachate** 

Run #2

### TCLP Leachate method SW846 1311

| CAS No.    | Compound              | Result | HW#  | MCL  | RL     | MDL    | Units | Q  |
|------------|-----------------------|--------|------|------|--------|--------|-------|----|
| 71-43-2    | Benzene               | 0.0189 | D018 | 0.50 | 0.0050 | 0.0011 | mg/l  |    |
| 78-93-3    | 2-Butanone (MEK)      | ND     | D035 | 200  | 0.10   | 0.013  | mg/l  |    |
| 56-23-5    | Carbon tetrachloride  | ND     | D019 | 0.50 | 0.0050 | 0.0015 | mg/l  |    |
| 108-90-7   | Chlorobenzene         | ND     | D021 | 100  | 0.0050 | 0.0011 | mg/l  |    |
| 67-66-3    | Chloroform            | 0.0044 | D022 | 6.0  | 0.0050 | 0.0011 | mg/l  | JB |
| 106-46-7   | 1,4-Dichlorobenzene   | ND     | D027 | 7.5  | 0.0050 | 0.0012 | mg/l  |    |
| 107-06-2   | 1,2-Dichloroethane    | ND     | D028 | 0.50 | 0.0050 | 0.0015 | mg/l  |    |
| 75-35-4    | 1,1-Dichloroethene    | ND     | D029 | 0.70 | 0.0050 | 0.0016 | mg/l  |    |
| 127-18-4   | Tetrachloroethene     | ND     | D039 | 0.70 | 0.0050 | 0.0014 | mg/l  |    |
| 79-01-6    | Trichloroethene       | ND     | D040 | 0.50 | 0.0050 | 0.0014 | mg/l  |    |
| 75-01-4    | Vinyl chloride        | ND     | D043 | 0.20 | 0.025  | 0.0014 | mg/l  |    |
| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# | 2 I  | Limits |        |       |    |
| 1868-53-7  | Dibromofluoromethane  | 94%    |      | 7    | 7-121% |        |       |    |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 91%    |      | 6    | 5-133% |        |       |    |
| 2037-26-5  | Toluene-D8            | 92%    |      | 8    | 0-117% |        |       |    |
| 460-00-4   | 4-Bromofluorobenzene  | 108%   |      | 7    | 9-124% |        |       |    |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH STREET COMP

Lab Sample ID:

J86327-1 SO - Soil **Date Sampled:** 03/18/08 Date Received: 03/21/08

Matrix: Method: Project:

SW846 8270C SW846 3510C

Percent Solids: 81.5

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

File ID Run #1 3E13380.D DF

Analyzed By OYA

04/03/08

**Prep Date** 04/02/08

Prep Batch OP31988

**Analytical Batch** E3E586

Run #2

Initial Volume Final Volume

Run #1 100 ml

**ABN TCLP Leachate** 

1.0 ml

Run #2

TCLP Leachate method SW846 1311

| CAS No.   | Compound              | Result | HW#  | MCL  | RL     | MDL    | Units Q |
|-----------|-----------------------|--------|------|------|--------|--------|---------|
| 95-48-7   | 2-Methylphenol        | ND     | D023 | 200  | 0.050  | 0.014  | mg/l    |
|           | 3&4-Methylphenol      | ND     | D024 | 200  | 0.050  | 0.013  | mg/l    |
| 87-86-5   | Pentachlorophenol     | ND     | D037 | 100  | 0.20   | 0.019  | mg/l    |
| 95-95-4   | 2,4,5-Trichlorophenol | ND     | D041 | 400  | 0.050  | 0.019  | mg/l    |
| 88-06-2   | 2,4,6-Trichlorophenol | ND     | D042 | 2.0  | 0.050  | 0.013  | mg/l    |
| 106-46-7  | 1,4-Dichlorobenzene   | ND     | D027 | 7.5  | 0.020  | 0.0018 | mg/l    |
| 121-14-2  | 2,4-Dinitrotoluene    | ND     | D030 | 0.13 | 0.020  | 0.0086 | mg/l    |
| 118-74-1  | Hexachlorobenzene     | ND     | D032 | 0.13 | 0.020  | 0.0054 | mg/l    |
| 87-68-3   | Hexachlorobutadiene   | ND     | D033 | 0.50 | 0.020  | 0.0018 | mg/l    |
| 67-72-1   | Hexachloroethane      | ND     | D034 | 3.0  | 0.050  | 0.0028 | mg/l    |
| 98-95-3   | Nitrobenzene          | ND     | D036 | 2.0  | 0.020  | 0.0042 | mg/l    |
| 110-86-1  | Pyridine              | ND     | D038 | 5.0  | 0.020  | 0.0064 | mg/l    |
| CAS No.   | Surrogate Recoveries  | Run# 1 | Run# | 2 I  | Limits |        |         |
| 367-12-4  | 2-Fluorophenol        | 50%    |      | 1    | 0-69%  |        |         |
| 4165-62-2 | Phenol-d5             | 35%    |      | 1    | 0-52%  |        |         |
| 118-79-6  | 2,4,6-Tribromophenol  | 104%   |      | 3    | 3-125% |        |         |
| 4165-60-0 | Nitrobenzene-d5       | 69%    |      | 2    | 7-120% |        |         |
| 321-60-8  | 2-Fluorobiphenyl      | 67%    |      | 3    | 1-111% |        |         |
| 1718-51-0 | Terphenyl-d14         | 86%    |      | 3    | 1-124% |        |         |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH STREET COMP

Lab Sample ID: Matrix: Method:

Project:

J86327-1 SO - Soil

SW846 8015

**Date Sampled:** 03/18/08 Date Received: 03/21/08

Percent Solids: 81.5

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

File ID Run #1 PF64557.D DF

Analyzed 03/25/08

 $\mathbf{B}\mathbf{y}$ **KEM**  Prep Date n/a

Prep Batch n/a

Q

**Analytical Batch** GPF1322

Run #2

98-08-8

**Initial Weight** Run #1 9.6 g Run #2

**Final Volume** 10.0 ml

Methanol Aliquot 100 ul

CAS No. Compound Result

RL

Units **MDL** 

TPH-GRO (C6-C10)

aaa-Trifluorotoluene

781

15

mg/kg

CAS No. **Surrogate Recoveries**  Run# 1

100%

Run# 2 Limits

3.1

42-141%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH STREET COMP

Lab Sample ID:

J86327-1

**Date Sampled:** 03/18/08

Matrix:

SO - Soil

Date Received: 03/21/08

Method:

SW846 8151 SW846 3510C

DF

Percent Solids: 81.5

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

Run #1

By **OPM**  Prep Date 04/02/08

Prep Batch OP31987

**Analytical Batch** GWW2394

Run #2

**Initial Volume** Final Volume

Run #1

100 ml

Herbicide TCLP Leachate

File ID

WW72196.D

10.0 ml

Run #2

TCLP Leachate method SW846 1311

CAS No. Compound Result HW# MCL RL **MDL** Units Q

94-75-7 0.0033 mg/l 2,4-D ND D016 10 0.0050 93-72-1 2,4,5-TP (Silvex) ND D017 1.0 0.0015 0.00034 mg/l

Analyzed

04/03/08

CAS No. **Surrogate Recoveries** Run# 1 Run# 2 Limits

19719-28-9 2,4-DCAA 123% 19719-28-9 2,4-DCAA 125%

54-141% 54-141%

ND = Not detected

MDL - Method Detection Limit

J = Indicates an estimated value B = Indicates analyte found in associated method blank

MCL = Maximum Contamination Level (40 CFR 261 6/96) E = Indicates value exceeds calibration range



Client Sample ID: 14TH STREET COMP

Lab Sample ID: Matrix: J86327-1 SO - Soil

W046 2510C

**Date Sampled:** 03/18/08 **Date Received:** 03/21/08

SW846 8081A SW846 3510C

Percent Solids: 81.5

Project: Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

File ID DF Analyzed By Prep Date Prep Batch Analytical Batch
Run #1 3G27056.D 1 04/02/08 TDR 04/01/08 OP31961 G3G1037

Run #2

Method:

Initial Volume Final Volume

Run #1 100 ml

Pesticide TCLP Leachate

10.0 ml

Run #2

### TCLP Leachate method SW846 1311

| CAS No.   | Compound  | Result                           | HW#  | MCL    | RL  | MDL                             | Units                           | Q |
|---|---|----------------------------------|--|--------|---|---------------------------------|---------------------------------|---|
| 58-89-9<br>12789-03-6<br>72-20-8<br>76-44-8<br>1024-57-3<br>72-43-5 | gamma-BHC (Lindane) Chlordane Endrin Heptachlor Heptachlor epoxide Methoxychlor | ND<br>ND<br>ND<br>ND<br>ND<br>ND | D013<br>D020<br>D012<br>D031<br>D031<br>D014 | 0.0080 | 0.00020<br>0.0050<br>0.00020<br>0.00020<br>0.00020<br>0.00050 | 0.00067<br>0.000036<br>0.000026 | mg/l<br>0mg/l<br>6mg/l<br>5mg/l |   |
| 8001-35-2   | Toxaphene   | ND                               | D015   | 0.50   | 0.0025  | 0.00094                         | mg/l                            |   |
| CAS No.   | Surrogate Recoveries  | Run# 1                           | Run#   | 2 I    | imits   |                                 |                                 |   |
| 877-09-8  | Tetrachloro-m-xylene  | 73%                              |  | 3      | 0-128%  |                                 |                                 |   |
| 877-09-8  | Tetrachloro-m-xylene  | 74%                              |  | 3      | 0-128%  |                                 |                                 |   |
| 2051-24-3   | Decachlorobiphenyl  | 78%                              |  | 1      | 0-138%  |                                 |                                 |   |
| 2051-24-3   | Decachlorobiphenyl  | 85%                              |  | 1      | 0-138%  |                                 |                                 |   |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: 14TH STREET COMP

Lab Sample ID: Matrix:

J86327-1 SO - Soil **Date Sampled:** 03/18/08

SW846 8082 SW846 3545

DF

Date Received: 03/21/08 Percent Solids: 81.5

Method: Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

**Analytical Batch** 

Run #1

File ID EF72305.D Analyzed 03/29/08

OPM

By

Prep Date 03/25/08

**Prep Batch** OP31846

GEF3388

Run #2

**Initial Weight** 

Final Volume

Run #1

15.2 g 10.0 ml

Decachlorobiphenyl

Run #2

### **PCB** List

2051-24-3

| CAS No.  | Compound   | Result                           | RL                                     | MDL                                      | Units                                     | Q |
|--|--|----------------------------------|--|--|---|---|
| 12674-11-2<br>11104-28-2<br>11141-16-5<br>53469-21-9<br>12672-29-6<br>11097-69-1<br>11096-82-5 | Aroclor 1016<br>Aroclor 1221<br>Aroclor 1232<br>Aroclor 1242<br>Aroclor 1248<br>Aroclor 1254<br>Aroclor 1260 | ND<br>ND<br>ND<br>ND<br>ND<br>ND | 40<br>40<br>40<br>40<br>40<br>40<br>40 | 7.7<br>24<br>22<br>13<br>14<br>19<br>8.2 | ug/kg<br>ug/kg<br>ug/kg<br>ug/kg<br>ug/kg |   |
| CAS No.  877-09-8 877-09-8 2051-24-3   | Surrogate Recoveries  Tetrachloro-m-xylene Tetrachloro-m-xylene Decachlorobiphenyl                           | Run# 1 69% 72% 76%               | Run# 2                                 | 37-14<br>37-14<br>40-15                  | 40%<br>40%                                |   |

75%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

40-151%

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH STREET COMP

Lab Sample ID:

J86327-1 SO - Soil **Date Sampled:** 03/18/08 **Date Received:** 03/21/08

Matrix: Method:

SW846-8015 SW846 3545

Percent Solids: 81.5

Method: Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

altimore, MD

|        | File ID  | DF | Analyzed | By | Prep Date | Prep Batch | <b>Analytical Batch</b> |
|--------|----------|----|----------|----|-----------|------------|-------------------------|
| Run #1 | 3Y4460.D | 1  | 04/01/08 | PM | 03/24/08  | OP31833    | G3Y154                  |
| Run #2 | 3Y4459.D | 1  | 04/01/08 | PM | 03/24/08  | OP31833    | G3Y154                  |

|        | Initial Weight | Final Volume |
|--------|----------------|--------------|
| Run #1 | 5.0 g          | 250 ml       |
| Run #2 | 5.0 g          | 10.0 ml      |

| CAS No.                | Compound                         | Result       | RL          | MD   | L Units          | Q |
|------------------------|----------------------------------|--------------|-------------|------|------------------|---|
|                        | TPH-DRO (C10-C28)                | 27400        | 6100        | 1300 | ) mg/kg          |   |
| CAS No.                | Surrogate Recoveries             | Run# 1       | Run# 2      | I    | Limits           |   |
| 84-15-1                | o-Terphenyl                      | 0% a<br>0% a | 47%         |      | 1-152%           |   |
| 16416-32-3<br>438-22-2 | Tetracosane-d50<br>5a-Androstane | 0% a         | 93%<br>130% |      | 4-153%<br>6-151% |   |

<sup>(</sup>a) Outside control limits due to dilution.

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: 14TH STREET COMP

Lab Sample ID: Matrix: J86327-1 SO - Soil **Date Sampled:** 03/18/08 **Date Received:** 03/21/08

**Percent Solids:** 81.5

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

### Metals Analysis, TCLP Leachate SW846 1311

| Analyte  | Result    | HW#  | MCL  | RL      | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|-----------|------|------|---------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic  | < 0.50    | D004 | 5.0  | 0.50    | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Barium   | < 1.0     | D005 | 100  | 1.0     | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Cadmium  | < 0.0050  | D006 | 1.0  | 0.0050  | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Chromium | 0.33      | D007 | 5.0  | 0.010   | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Lead     | < 0.50    | D008 | 5.0  | 0.50    | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Mercury  | < 0.00020 | D009 | 0.20 | 0.00020 | mg/l  | 1  | 04/01/08 | 04/01/08 ју | SW846 7470A <sup>1</sup> | SW846 7470A <sup>4</sup> |
| Selenium | < 0.50    | D010 | 1.0  | 0.50    | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Silver   | < 0.010   | D011 | 5.0  | 0.010   | mg/l  | 1  | 04/01/08 | 04/01/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |

(1) Instrument QC Batch: MA20676(2) Instrument QC Batch: MA20680(3) Prep QC Batch: MP43061(4) Prep QC Batch: MP43072



Client Sample ID: 14TH STREET COMP

Lab Sample ID: Matrix: J86327-1 SO - Soil **Date Sampled:** 03/18/08

Date Received: 03/21/08 Percent Solids: 81.5

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

### **General Chemistry**

| Analyte                   | Result RI | L Units  | DF  | Analyzed       | Ву  | Method               |
|---------------------------|-----------|----------|-----|----------------|-----|----------------------|
| Corrosivity as pH         | 7.43 NC   | su       | 1   | 03/28/08       | DD  | SW846 CHAP7          |
| Cyanide Reactivity        | < 6.1 6.  | 1 mg/kg  | 1   | 03/31/08 12:03 | WP  | SW846 CHAP7          |
| Ignitability (Flashpoint) | > 200     | Deg. F   | 1   | 03/26/08       | LMM | SW846 CHAP7/ASTM D93 |
| Petroleum Hydrocarbons a  | 9080 37   | 00 mg/kg | 125 | 04/08/08       | JA  | EPA 418.1 M          |
| Solids, Percent           | 81.5      | %        | 1   | 03/31/08       | BR  | EPA 160.3 M          |
| Sulfide Reactivity        | < 120 12  | 0 mg/kg  | 1   | 03/31/08       | JA  | SW846 CHAP7/9034     |

(a) NJDEP does not offer laboratory accreditation for this compound which excludes it from regulatory reporting use in New Jersey

| Custody Documents and Other Forms        | Misc. Forms                 | · · · · · · · · · · · · · · · · · · · |    |
|--|-----------------------------|---------------------------------------|----|
|  | Custody Documents and       | l Other Forn                          | ns |
|  |                             |                                       |    |
| Includes the following where applicable: | Includes the following when | e applicable:                         |    |



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| Na/         | M                                 |  |                        |  | C  | HA          |  |               |            |               |                  |             |             | DY                                       |                           |               |  |                 |               |               |                               |                 |               |               |  |
|-------------|-----------------------------------|--|------------------------|--|--|-------------|--|---------------|------------|---------------|------------------|-------------|-------------|--|---------------------------|---------------|--|-----------------|---------------|---------------|-------------------------------|-----------------|---------------|---------------|--|
| 4           | ACCUTES                           | 3T.  |                        |  |  |             | 2235 Ro<br>32-329-0                              |               |            |               |                  |             |             | L_                                       | (Tracking                 |               |  |                 |               | Bottle O      |                               |                 |               |               | 1                                      |
|             | SO Laborator                      | ies  |                        |  |  |             |  |               |            |               |                  |             |             | <u>L</u>                                 | st Quote #                |               |  |                 |               | Accutest      | # dot :                       | )86             | 332           | 27            |  |
| 4.2         | Client / Reporting Information    | 13 (34 513                                       | *. <b>#</b> .          | 海北 逐   | S Proi   | ject Info   | rmation  |               | Eggs and   |               | 216              | -<br>N.C.   | सहस्र १ ५   |  | \$4.194                   |               | 92.  | 188             | 200           | ALC: NO       | A 12-41                       | o tag           | 一角棒           |               | <b>38</b> (28) (20)                    |
| Company I   |                                   |  | indigent in the        |  |  |             |  |               |            | - iBi y       | - CON-           | in cur      | 4           |  |                           | 1224-1-1      | T  | ₩               | Regu          | ested A       | nalysis                       | 5               | 200           | <u> </u>      | Matrix Codes                           |
|             | GeoTrans, Inc.                    |  |                        | Project N  | lame:  | Exxonii     | ilobil Balt                                      | imon          | *          |               |                  |             |             | E E                                      |                           |               |  |                 | İ             |               |                               |                 |               | ļ             | DW- Drinking Water<br>GW- Ground Water |
| Address     |                                   |  |                        | Street   |  |             |  | _             |            |               |                  |             |             | 1  | O MTBE                    |               | ]  |                 |               |               |                               |                 |               |               | GW- Ground Water<br>WW- Water          |
| 844 Was     |                                   |  |                        |  | ston Street                                      |             |  |               |            |               |                  |             |             |  | ြုပ္သ                     | STARS         |  | 1               |               |               | . 1                           |                 |               | .             | SW-Surface Water                       |
| City        | State                             |  | Zip                    | City   |  |             |  |               | State      |               |                  |             |             | 1  | STARS                     | ς g           |  | 1               |               |               |                               |                 | <i>i</i> [    |               | SO-Soil                                |
| Annapo      |                                   | 21401  |                        | Baltimore  | 1  |             |  |               | M          | MD            |                  |             |             | 00                                       |                           | s Dist        |  | 1               | 1             |               |                               |                 | i             |               | SL-Sludge                              |
| Project Cor | ntact:<br>Steve Cook              | E-mail   |                        | Project #  | 1  |             |  | _             |            |               |                  | 20          | 604.04      | 9 8 4                                    | 역 찬                       | PAHO +        |  |                 |               |               |                               |                 |               |               | OI-Oit                                 |
| Phone #     | 410-507-2696                      |  |                        | Fax#   |  |             |  |               |            |               |                  |             |             | 18 P P P P P P P P P P P P P P P P P P P | TCL C                     | 1 2 2         | l gg   | l gg            | l             |               | I                             | 1               | .             | J             | DG- Colic Enquis                       |
| Samplers's  |                                   |  |                        | Client Pu  | 410-56:<br>srchase Order                         |             |  |               |            |               |                  |             | <del></del> |  | 도<br>무                    | 고 교           | 8015B  | 8015B           | 1             |               | J                             |                 | ı             | -             | AIR- Air                               |
| Accutest    | T                                 | <del></del>                                      | <del></del>            |  |  |             | 2604.04  |               |            |               |                  |             |             | 20                                       | 8260 🗆 624 🗖<br>TBA 🗀 NAP | 825 C         | ١ĕ   | 0               | ا             |               |                               |                 |               | I             | SOL-Other Solid                        |
|             | 1                                 | SUMMA #  | <del></del>            | Collect  | ion  | -           |  | Nur           | mber       | of pre        |                  | 77          | tles        | 8260 C                                   | 8 2                       | l o _         | TPH-GRO  | TPH-DRO         | 0             |               |                               | i               | 1             | - [           | WRANIpe                                |
| Sample #    | Field ID / Point of Collection    | MEOH Vial #                                      | Date                   | Time   | Sampled by                                       | Matrix      | # of<br>bottles                                  | Q             | 夏          | \$03<br>42804 | Ne.              | 8 8         | 5 8         | 8 2                                      | 8 A                       | 8270 ABNO     | 臣  | Œ               | TCLIP         |               |                               | i               | 1             | 7             | LAB USE ONLY                           |
| -1          | 14th Street Comp                  |  | 3/18/08                |  |  |             | <b>1</b>   | -             | -          | *   -         | 1 1              | 7           | ₩,          | -  | <b>80</b> ⊢               | ₩ <           | -  |                 | _             | +             |                               | ┌─┤             | -+            | -/-1          | .~0 .~41                               |
|             |                                   | <del></del> -                                    | 3/10/00                | 1000   | GB   | so          | 8  | ⊢             | $\vdash$   | +             | X                | +           | —           | —  | $\vdash$                  |               | X  | X               | X             | $\sqcup$      |                               |                 | $\perp$       | $\perp$       | 16B, 15A1                              |
|             |                                   |  |                        | <u> </u>   |  |             |  |               | Ш          |               |                  |             |             |  |                           |               |  |                 |               |               | - 1                           | . 1             |               | 1             | _ ′ _/                                 |
|             |                                   | 1  |                        |  |  |             |  |               | П          | $\top$        | $\Box$           |             | 1           | T-                                       |                           |               |  |                 | $\overline{}$ |               |                               |                 | $\dashv$      | $\dashv$      |  |
|             |                                   | +  |                        | ├  | <del>                                     </del> | <del></del> | <del>                                     </del> | ├             | ₩          | +             | +                | -+          | +           | ↓  | $\vdash$                  | $\vdash$      | <del>                                     </del> | <b> </b>        | <b>-</b> -    |               | $-\!\!\!\!\!-\!\!\!\!\!\!\!+$ |                 | $\dashv$      |               |  |
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|             |                                   |  |                        |  |  |             |  |               |            | -             | Π                |             | T           |  |                           |               |  |                 |               |               |                               |                 | $\neg$        |               |  |
|             |                                   |  |                        | <del>                                     </del> |  |             |  | $\vdash$      | $\vdash$   | +             | $\vdash$         | +           | +           | ┼  | $\vdash$                  | $\overline{}$ | $\vdash$   | $\vdash$        |               | <del></del>   | $\dashv$                      |                 | $\rightarrow$ | $\rightarrow$ |  |
|             |                                   | <del></del>                                      | <b> </b>               | <del> </del>                                     | <b> </b>   | $\vdash$    | <b> </b>   | Ш             | $\vdash +$ | +             | ┯                | +           | 4-          | ↓  | $\vdash$                  | لحنا          | igspace  | lacksquare      |               |               |                               |                 | $\perp$       |               |  |
|             |                                   |  |                        | <u></u>  |  |             |  |               |            |               |                  | - 1         |             |  |                           | .             |  |                 |               |               |                               |                 |               |               |  |
|             | }                                 |  |                        |  |  |             |  |               | П          | $\top$        | П                | $\top$      | 1           |  | $\Box$                    |               |  |                 |               | $\vdash$      |                               | $\neg \uparrow$ | $\dashv$      | $\neg$        |  |
|             |                                   |  |                        |  | $\vdash$   |             |  | $\vdash$      | $\vdash$   | +-            | $\vdash$         | -+-         | +           | <del> </del>                             | $\vdash$                  |               | $\vdash\vdash\vdash$                             | $\vdash \vdash$ |               | $\vdash$      | $\dashv$                      | $\rightarrow$   | $\dashv$      | -+            |  |
|             | <u> </u>                          | -  |                        |  |  |             |  | Ш             | $\vdash$   | _             | Ш                | $\perp$     | 丄           |  |                           |               | ш  | $oxed{oxed}$    |               | ot            |                               |                 |               | _ ]           |  |
|             |                                   |  |                        |  |  |             |  |               |            |               | 1                |             |             | Γ  | Γ.                        |               |  |                 |               |               |                               |                 | $\neg$        |               |  |
| 3           | Turnaround Time ( Business days)  | 100  | शहर कर                 | Marie Company                                    | J. 250 Mg  | Data De     | livarable I                                      | Inform        | nation     | 2.3           | 32.              | 3           | 1100        |  |                           | riles, Level  |  |                 | Co            | mments /      | Remar                         | riks            |               | 138           | 200 - 1.37 - 1.570 <sub>k</sub> -      |
|             | Std. 15 Business Days             | Approved By:                                     |                        |  | X Comm   | ercial *A   | e  |               | FULL       | . CLP         |                  |             |             |  |                           |               |  |                 |               |               |                               |                 |               |               |  |
| X           | 10 Day RUSH                       | SMC/3/20/  | 08                     |  | _  | ercial "B   | ·  |               | NYAS       | SP Cate       | gory             | A           |             |  | <u> </u>                  |               |  |                 |               |               |                               |                 |               |               | _                                      |
| <u> </u>    | 5 Day RUSH                        |  |                        | _  | NJ Red   |             |  | $\sqsubseteq$ | NYAS       | SP Cate       | gory             | В           |             |  | i                         |               | _  |                 |               |               |                               |                 |               |               |  |
| <b>—</b>    | 3 Day EMERGENCY 2 Day EMERGENCY   |  |                        | -  | NJ Full  |             |  |               |            | Farms         |                  |             |             | 1  | <u></u>                   |               |  |                 |               |               |                               |                 |               |               |  |
| <del></del> | 1 Day EMERGENCY                   |  |                        | -  | Other_   |             | - I  | لت            | EDD        | Forma         | <u>t</u>         | <del></del> |             | - 1                                      |                           |               |  |                 |               |               |                               |                 |               |               |  |
| <u> </u>    | Other                             |  |                        | -  | 1  |             |  |               |            |               |                  |             |             |  |                           |               |  |                 |               |               |                               |                 |               |               |  |
| E           |                                   |  |                        | - 1  | Comme  | rcial "A"   | = Results  | s Onl         | ly         |               |                  |             |             |  |                           |               |  |                 |               |               |                               |                 |               |               |  |
| Emerg       | jency T/A data available VIA Labi |  |                        |  | L  |             |  |               |            |               |                  |             |             |  |                           |               |  |                 |               |               |                               |                 |               |               |  |
| Relinquisi  | ed by Sample Cus                  | stody must be                                    | document<br>Date Time: | ed below   | v each time s<br>Received 8v:                    | samples     | change   | pos           | sessi      | on, inc       | cludin<br>quishe | g cou       | rier de     | alivery.                                 |                           |               |  |                 |               | . 20          |                               | · 🕸             | 编器            | 500           |  |
| 1 8         | and a                             | 1 1  | 3/20/08                | 1400   |  |             | 12   |               |            |               | doren            | ٦,٠٠        | 1           | 1/                                       | ľ                         | 3/            | 7.   | 104             | 10            | Received      | 107                           | גרא             | o '           |               | ز                                      |
| Randulat    | ed by:                            | <del>                                     </del> | Date Time:             | , , , ,  | Received By:                                     | _ 17 0      | 1/   |               |            | - 2<br>Relin  | quishe           | 20 BV:      | <u> </u>    | <u>/</u>                                 |                           | <u> </u>      | <u>108</u>                                       |                 | $\dashv$      | 2<br>Received | 10 10                         |                 | <u>'</u>      |               |  |
| 3           |                                   |  |                        |  |  |             |  |               |            |               | ,                | ,-          |             |  | ľ                         | -000 FB-10.   |  |                 |               | AUDOEN OU     | Dy.                           |                 |               |               | -                                      |
| Relinquish  | ed by:                            | +  | Date Time:             |  | Received By:                                     |             |  | _             |            | Cust          | ody Se           | a#          |             |  | Preserved                 | where ar      | plicable   |                 |               | 4             |                               | On Ice          | Д             | Cooler        | Termi                                  |
| 5           |                                   |  |                        |  | 5  |             |  |               |            |               |                  |             |             |  |                           |               |  |                 |               |               |                               |                 | ,             | 2,2           | . ///                                  |

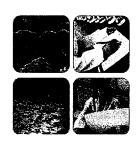
J86327: Chain of Custody Page 1 of 1







07/02/08



# **Technical Report for**

Geotrans, Inc.

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

Accutest Job Number: J93666

Sampling Date: 06/19/08

Report to:

Geotrans, Inc.

bchang@geotransinc.com

ATTN: Belssi Chang

Total number of pages in report: 13



Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Vincent J. Pugliese

President



Certifications: NJ(12129), NY(10983), CA, CT, DE, FL, IL, IN, KS, KY, LA, MA, MD, MI, MT, NC, PA, RI, SC, TN, VA, WV

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| Section 3: Misc. Forms         | 12 |
| 3.1. Chain of Custody          | 1: |









# Sample Summary

Geotrans, Inc.

Job No:

J93666

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

| Sample   | Collected         | Matrix             | Client    |  |
|----------|-------------------|--------------------|-----------|--|
| Number   | Date Time By      | Received Code Type | Sample ID |  |
| J93666-1 | 06/19/08 13:00 SC | 06/20/08 AQ Water  | 14TH H2O  |  |



| · · · · · · · · · · · · · · · · · · · |   |
|---------------------------------------|---|
|                                       |   |
|                                       |   |
| ·                                     | · |



Page 1 of 1

Client Sample ID: 14TH H2O

Lab Sample ID:

J93666-1 AQ - Water **Date Sampled:** 06/19/08 **Date Received:** 06/20/08

Matrix:

SW846 8260B SW846 1311

DF

5

Percent Solids: n/a

Method: Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

ton Street, Baltimore, MD

Run #1

**File ID** L227524.D Analyzed By 06/27/08 MAH

**Prep Date** 06/23/08

Prep Batch GP44633 Analytical Batch VL5311

Run #2

**Purge Volume** 

Run #1 Run #2

**VOA TCLP Leachate** 

5.0 ml

TCLP Leachate method SW846 1311

| CAS No.    | Compound              | Result | HW#  | MCL        | RL      | MDL     | Units | Q |
|------------|-----------------------|--------|------|------------|---------|---------|-------|---|
| 71-43-2    | Benzene               | ND     | D018 | 0.50       | 0.0050  | 0.0013  | mg/l  |   |
| 78-93-3    | 2-Butanone (MEK)      | ND     | D035 | 200        | 0.10    | 0.011   | mg/l  |   |
| 56-23-5    | Carbon tetrachloride  | ND     | D019 | 0.50       | 0.0050  | 0.00088 | mg/l  |   |
| 108-90-7   | Chlorobenzene         | ND     | D021 | 100        | 0.0050  | 0.00072 | mg/l  |   |
| 67-66-3    | Chloroform            | ND     | D022 | 6.0        | 0.0050  | 0.00081 | mg/l  |   |
| 106-46-7   | 1,4-Dichlorobenzene   | ND     | D027 | 7.5        | 0.0050  | 0.0016  | mg/l  |   |
| 107-06-2   | 1,2-Dichloroethane    | ND     | D028 | 0.50       | 0.0050  | 0.0017  | mg/l  |   |
| 75-35-4    | 1,1-Dichloroethene    | ND     | D029 | 0.70       | 0.0050  | 0.0015  | mg/l  |   |
| 127-18-4   | Tetrachloroethene     | ND     | D039 | 0.70       | 0.0050  | 0.0015  | mg/l  |   |
| 79-01-6    | Trichloroethene       | ND     | D040 | 0.50       | 0.0050  | 0.00092 | mg/l  |   |
| 75-01-4    | Vinyl chloride        | ND     | D043 | 0.20       | 0.025   | 0.0010  | mg/l  |   |
| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# | <b>2</b> ] | Limits  |         |       |   |
| 1868-53-7  | Dibromofluoromethane  | 101%   |      | ,          | 77-121% |         |       |   |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 94%    |      |            | 55-133% |         |       |   |
| 2037-26-5  | Toluene-D8            | 88%    |      | ;          | 30-117% |         |       |   |
| 460-00-4   | 4-Bromofluorobenzene  | 100%   |      | ,          | 79-124% |         |       |   |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: 14TH H2O

Lab Sample ID: J93

J93666-1 AQ - Water **Date Sampled:** 06/19/08 **Date Received:** 06/20/08

Matrix: Method:

SW846 8270C SW846 3510C

Percent Solids: n/a

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

|        | File ID  | DF | Analyzed | By  | Prep Date | Prep Batch | <b>Analytical Batch</b> |
|--------|----------|----|----------|-----|-----------|------------|-------------------------|
| Run #1 | R67279.D | 1  | 06/25/08 | OYA | 06/24/08  | OP33383    | ER2469                  |
| ha 110 |          |    |          |     |           |            |                         |

Run #2

Initial Volume Final Volume

Run #1 100 ml

1.0 ml

Run #2

### **ABN TCLP Leachate**

### TCLP Leachate method SW846 1311

| CAS No.   | Compound              | Result | HW#  | MCL  | , RL    | MDL    | Units | Q |
|-----------|-----------------------|--------|------|------|---------|--------|-------|---|
| 95-48-7   | 2-Methylphenol        | ND     | D023 | 200  | 0.050   | 0.014  | mg/l  |   |
|           | 3&4-Methylphenol      | ND     | D024 | 200  | 0.050   | 0.013  | mg/l  |   |
| 87-86-5   | Pentachlorophenol     | ND     | D037 | 100  | 0.20    | 0.019  | mg/l  |   |
| 95-95-4   | 2,4,5-Trichlorophenol | ND     | D041 | 400  | 0.050   | 0.019  | mg/l  |   |
| 88-06-2   | 2,4,6-Trichlorophenol | ND     | D042 | 2.0  | 0.050   | 0.013  | mg/l  |   |
| 106-46-7  | 1,4-Dichlorobenzene   | ND     | D027 | 7.5  | 0.020   | 0.0018 | mg/l  |   |
| 121-14-2  | 2,4-Dinitrotoluene    | ND     | D030 | 0.13 | 0.020   | 0.0086 | mg/l  |   |
| 118-74-1  | Hexachlorobenzene     | ND     | D032 | 0.13 | 0.020   | 0.0054 | mg/l  |   |
| 87-68-3   | Hexachlorobutadiene   | ND     | D033 | 0.50 | 0.020   | 0.0018 | mg/l  |   |
| 67-72-1   | Hexachloroethane      | ND     | D034 | 3.0  | 0.050   | 0.0028 | mg/l  |   |
| 98-95-3   | Nitrobenzene          | ND     | D036 | 2.0  | 0.020   | 0.0042 | mg/l  |   |
| 110-86-1  | Pyridine              | ND     | D038 | 5.0  | 0.020   | 0.0064 | mg/l  |   |
| CAS No.   | Surrogate Recoveries  | Run# 1 | Run# | 2    | Limits  |        |       |   |
| 367-12-4  | 2-Fluorophenol        | 34%    |      |      | 10-69%  |        |       |   |
| 4165-62-2 | Phenol-d5             | 23%    |      |      | 10-52%  |        |       |   |
| 118-79-6  | 2,4,6-Tribromophenol  | 74%    |      |      | 33-125% |        |       |   |
| 4165-60-0 | Nitrobenzene-d5       | 59%    |      |      | 27-120% |        |       |   |
| 321-60-8  | 2-Fluorobiphenyl      | 58%    |      |      | 31-111% |        |       |   |
| 1718-51-0 | Terphenyl-d14 74%     |        |      |      | 31-124% |        |       |   |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH H2O

Lab Sample ID:

J93666-1

**Date Sampled:** 06/19/08 Date Received: 06/20/08

Matrix: Method: AQ - Water SW846 8151 SW846 3510C

Percent Solids: n/a

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

|        | File ID   | DF | Analyzed | Ву  | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | WW74238.D | 1  | 06/27/08 | TDR | 06/24/08  | OP33387    | GWW2476          |

Run #2

**Initial Volume Final Volume** 

Run #1

100 ml 10.0 ml

Run #2

#### Herbicide TCLP Leachate TCLP Leachate method SW846 1311

| CAS No.            | Compound                   | Result   | HW# MC              | L RL             | MDL               | Units        | Q |
|--------------------|----------------------------|----------|---------------------|------------------|-------------------|--------------|---|
| 94-75-7<br>93-72-1 | 2,4-D<br>2,4,5-TP (Silvex) | ND<br>ND | D016 10<br>D017 1.0 | 0.0050<br>0.0015 | 0.0033<br>0.00034 | mg/l<br>mg/l |   |
|                    |                            |          |                     |                  |                   |              |   |
| CAS No.            | Surrogate Recoveries       | Run# 1   | Run# 2              | Limits           |                   |              |   |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH H2O

Pesticide TCLP Leachate

Lab Sample ID:

J93666-1

**Date Sampled:** 06/19/08

Matrix:

AQ - Water

Date Received: 06/20/08

Method:

SW846 8081A SW846 3510C

Percent Solids: n/a

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

|        | File ID   | DF | Analyzed | By  | Prep Date | Prep Batch | Analytical Batch |
|--------|-----------|----|----------|-----|-----------|------------|------------------|
| Run #1 | XX78030.D | 1  | 06/26/08 | JSE | 06/25/08  | OP33384    | GXX3174          |
| D 412  |           |    |          |     |           |            |                  |

Run #2

Initial Volume Final Volume

Run #1

100 ml 10.0 ml

Run #2

### TCLP Leachate method SW846 1311

| CAS No.    | Compound             | Result | HW#  | MCL   | RL      | MDL      | Units | Q |
|------------|----------------------|--------|------|-------|---------|----------|-------|---|
| 58-89-9    | gamma-BHC (Lindane)  | ND     | D013 | 0.40  | 0.00020 | 0.00001  | 7mg/l |   |
| 12789-03-6 | Chlordane            | ND     | D020 | 0.030 | 0.0050  | 0.00067  | mg/l  |   |
| 72-20-8    | Endrin               | ND     | D012 | 0.020 | 0.00020 | 0.00003  | Omg/l |   |
| 76-44-8    | Heptachlor           | ND     | D031 | 0.008 | 0.00020 | 0.00002  | 6mg/l |   |
| 1024-57-3  | Heptachlor epoxide   | ND     | D031 | 0.008 | 0.00020 | 0.000013 | 5mg/l |   |
| 72-43-5    | Methoxychlor         | ND     | D014 | 10    | 0.00050 | 0.000068 | 8mg/l |   |
| 8001-35-2  | Toxaphene            | ND     | D015 | 0.50  | 0.0025  | 0.00094  | mg/l  |   |
| CAS No.    | Surrogate Recoveries | Run# 1 | Run# | 2 I   | Limits  |          |       |   |
| 877-09-8   | Tetrachloro-m-xylene | 73%    |      | 3     | 0-128%  |          |       |   |
| 877-09-8   | Tetrachloro-m-xylene | 73%    |      | 3     | 0-128%  |          |       |   |
| 2051-24-3  | Decachlorobiphenyl   | 79%    |      | J     | 0-138%  |          |       |   |
| 2051-24-3  | Decachlorobiphenyl   | 77%    |      | 1     | .0-138% |          |       |   |

ND = Not detected

MDL - Method Detection Limit

MCL = Maximum Contamination Level (40 CFR 261 6/96)

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Client Sample ID: 14TH H2O

1000 ml

Lab Sample ID:

J93666-1 AQ - Water **Date Sampled:** 06/19/08

Matrix: Method:

SW846 8082 SW846 3510C

Date Received: 06/20/08 Percent Solids: n/a

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

|        | File ID   | DF | Analyzed | By  | Prep Date | Prep Batch | <b>Analytical Batch</b> |
|--------|-----------|----|----------|-----|-----------|------------|-------------------------|
| Run #1 | EF74376.D | 1  | 06/24/08 | OPM | 06/22/08  | OP33337    | GEF3461                 |

Run #2

**Initial Volume Final Volume** 

Run #1

10.0 ml

Run #2

### **PCB** List

| CAS No.    | Compound             | Result | RL     | MDL   | Units | Q |
|------------|----------------------|--------|--------|-------|-------|---|
| 12674-11-2 | Aroclor 1016         | ND     | 0.50   | 0.094 | ug/l  |   |
| 11104-28-2 | Aroclor 1221         | ND     | 0.50   | 0.47  | ug/l  |   |
| 11141-16-5 | Aroclor 1232         | ND     | 0.50   | 0.39  | ug/l  |   |
| 53469-21-9 | Aroclor 1242         | ND     | 0.50   | 0.16  | ug/l  |   |
| 12672-29-6 | Aroclor 1248         | ND     | 0.50   | 0.15  | ug/l  |   |
| 11097-69-1 | Aroclor 1254         | ND     | 0.50   | 0.11  | ug/l  |   |
| 11096-82-5 | Aroclor 1260         | ND     | 0.50   | 0.12  | ug/l  |   |
| CAS No.    | Surrogate Recoveries | Run# 1 | Run# 2 | Lim   | its   |   |
| 877-09-8   | Tetrachloro-m-xylene | 73%    |        | 38-1  | 33%   |   |
| 877-09-8   | Tetrachloro-m-xylene | 86%    |        | 38-1  | 33%   |   |
| 2051-24-3  | Decachlorobiphenyl   | 61%    |        | 18-1  | 56%   |   |
| 2051-24-3  | Decachlorobiphenyl   | 64%    |        | 18-1  | 56%   |   |

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit E = Indicates value exceeds calibration range J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: 14TH H2O

Lab Sample ID: Matrix: J93666-1 AQ - Water **Date Sampled:** 06/19/08 **Date Received:** 06/20/08

Percent Solids: n/a

Project:

Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

### Metals Analysis, TCLP Leachate SW846 1311

| Analyte  | Result    | HW#  | MCL  | RL      | Units | DF | Prep     | Analyzed By | Method                   | Prep Method              |
|----------|-----------|------|------|---------|-------|----|----------|-------------|--------------------------|--------------------------|
| Arsenic  | < 0.50    | D004 | 5.0  | 0.50    | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Barium   | < 0.20    | D005 | 100  | 0.20    | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Cadmium  | < 0.0040  | D006 | 1.0  | 0.0040  | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Chromium | < 0.010   | D007 | 5.0  | 0.010   | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Lead     | < 0.50    | D008 | 5.0  | 0.50    | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Mercury  | < 0.00020 | D009 | 0.20 | 0.00020 | mg/l  | 1  | 06/24/08 | 06/24/08 JW | SW846 7470A <sup>1</sup> | SW846 7470A <sup>4</sup> |
| Selenium | < 0.50    | D010 | 1.0  | 0.50    | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |
| Silver   | < 0.010   | D011 | 5.0  | 0.010   | mg/l  | 1  | 06/24/08 | 06/24/08 ND | SW846 6010B <sup>2</sup> | SW846 3010A <sup>3</sup> |

Instrument QC Batch: MA21061
 Instrument QC Batch: MA21063
 Prep QC Batch: MP44092

(4) Prep QC Batch: MP44094





Page 1 of 1

Client Sample ID: 14TH H2O

 Lab Sample ID:
 J93666-1
 Date Sampled:
 06/19/08

 Matrix:
 AQ - Water
 Date Received:
 06/20/08

Percent Solids: n/a

Project: Exxon Mobil Baltimore Terminal, 3801 Boston Street, Baltimore, MD

### **General Chemistry**

| Analyte                   | Result  | RL   | Units  | DF | Analyzed       | By  | Method              |
|---------------------------|---------|------|--------|----|----------------|-----|---------------------|
| Corrosivity as pH         | 7.34 NC |      | su     | 1  | 06/27/08       | RS  | SW846 CHAP7         |
| Cyanide Reactivity        | < 5.0   | 5.0  | mg/l   | 1  | 07/01/08 15:18 | ΑE  | SW846 CHAP7         |
| Ignitability (Flashpoint) | > 200   |      | Deg. F | 1  | 06/23/08       | LMM | SW846 1010/ASTM D93 |
| Petroleum Hydrocarbons    | 2.2     | 0.54 | mg/l   | 1  | 06/27/08       | KD  | EPA 418.1           |
| Sulfide Reactivity        | < 100   | 100  | mg/l   | 1  | 06/24/08       | ST  | SW846 CHAP7/9034    |

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

Chain of Custody



| MM | <b>₩</b>  |
|----|-----------|
| £. | ACCUTEST. |

### CHAIN OF CUSTODY

2235 Route 130 Dayton, NJ 08810 732-329-0200 FAX: 732-329-3499/3480 J93666 Laboratories Client Information Facility Information Facility Information Facility Information FACONMOBIL CORPORATION - Regional Laboratory Program (MD, DE, DC) 0 XOM George ne Naphthalene BUY West ST. Amap. m 21401 BALLO MS a a 624 BTEX D MTBE [] 6010 🗖 200.9 ( ExxonMobil Grass Roots FULL SCOOK TPH. 410 507 2696 TPH-GRO 8015B TPH-DRO 80158 Air - VTO3BTEX TO14: BTEX 🗆 624 BTEX [ 8260 BTEX Preservation HNO3 HNO3 HNO3 HNO9 We BOW Total Accutest Sample # Field ID / Point of Collection 14th H2D EX Mc - 5/6/9 -2 Std. 10 Business Days ☐ FULL CLP 8 Day RUSH ☐ Commercial "B"
☐ Full Deliverables ☐ State Forms
☐ Disk Deliverable Form 5 Day RUSH 3 Day EMERGENCY ☐ Other 2 Day EMERGENCY 1 Day EMERGENCY Commercial "A" = Results only sergency T/A is for FAX or Lablink Data Sample Custody must be documented below each time samples change possession in 1900 Received by: Four Relinquished by: Four Relinqui Fed

J93666: Chain of Custody

TRS 6/20/9/

recidintact Tro 6/20/8

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