APPENDIX C

AERIAL PHOTOGRAPHS

Lincoln Theater
1305 Myrtle Walk
Baton Rouge, LA 70802

Inquiry Number: 2391074.5
December 31, 2008

The EDR Aerial Photo Decade Package

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Aerial Photo Decade Package

Environmental Data Resources, Inc. (EDR) Aerial Photo Decade Package is a screening tool designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDRs professional researchers provide digitally reproduced historical aerial photographs, and when available, provide one photo per decade.

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Please contact EDR at 1-800-352-0050
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Date EDR Searched Historical Sources:

Aerial Photography December 31, 2008

Target Property:

1305 Myrtle Walk

Baton Rouge, LA 70802

Year	*Scale*	*Details*	*Source*
1962	Aerial Photograph. Scale: 1"=500'	Panel #: 2430091-D2/Flight Date: February 11, 1962	EDR
1978	Aerial Photograph. Scale: 1"=750'	Panel #: 2430091-D2/Flight Date: March 01, 1978	EDR
1998	Aerial Photograph. Scale: 1"=750'	Panel #: 2430091-D2/Flight Date: February 23, 1998	EDR
2005	Aerial Photograph. Scale: 1"=485'	Flight Year: 2005	EDR

INQUIRY #: 2391074.5
YEAR: 1962
= 500'
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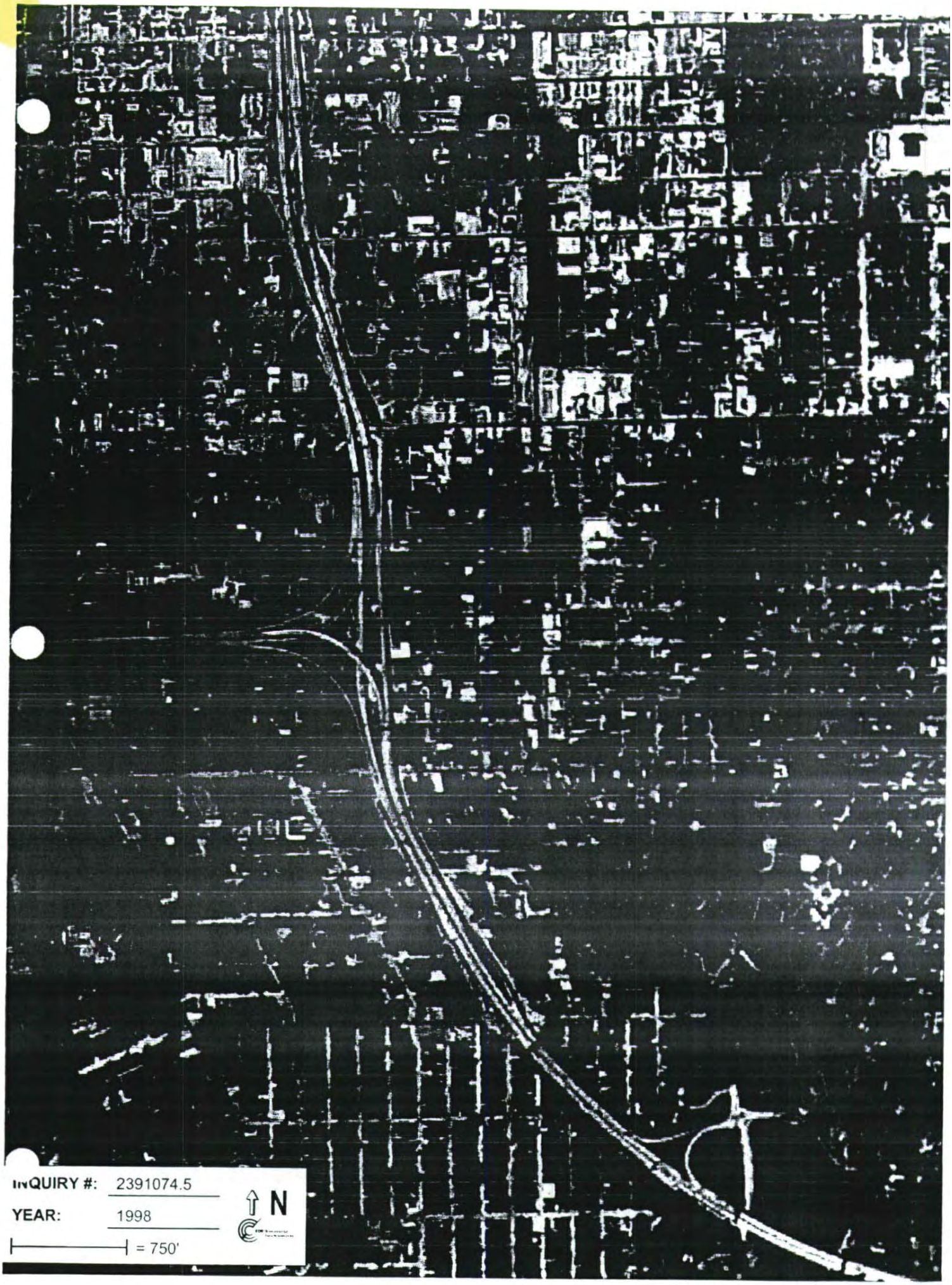
BEST COPY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= 750'
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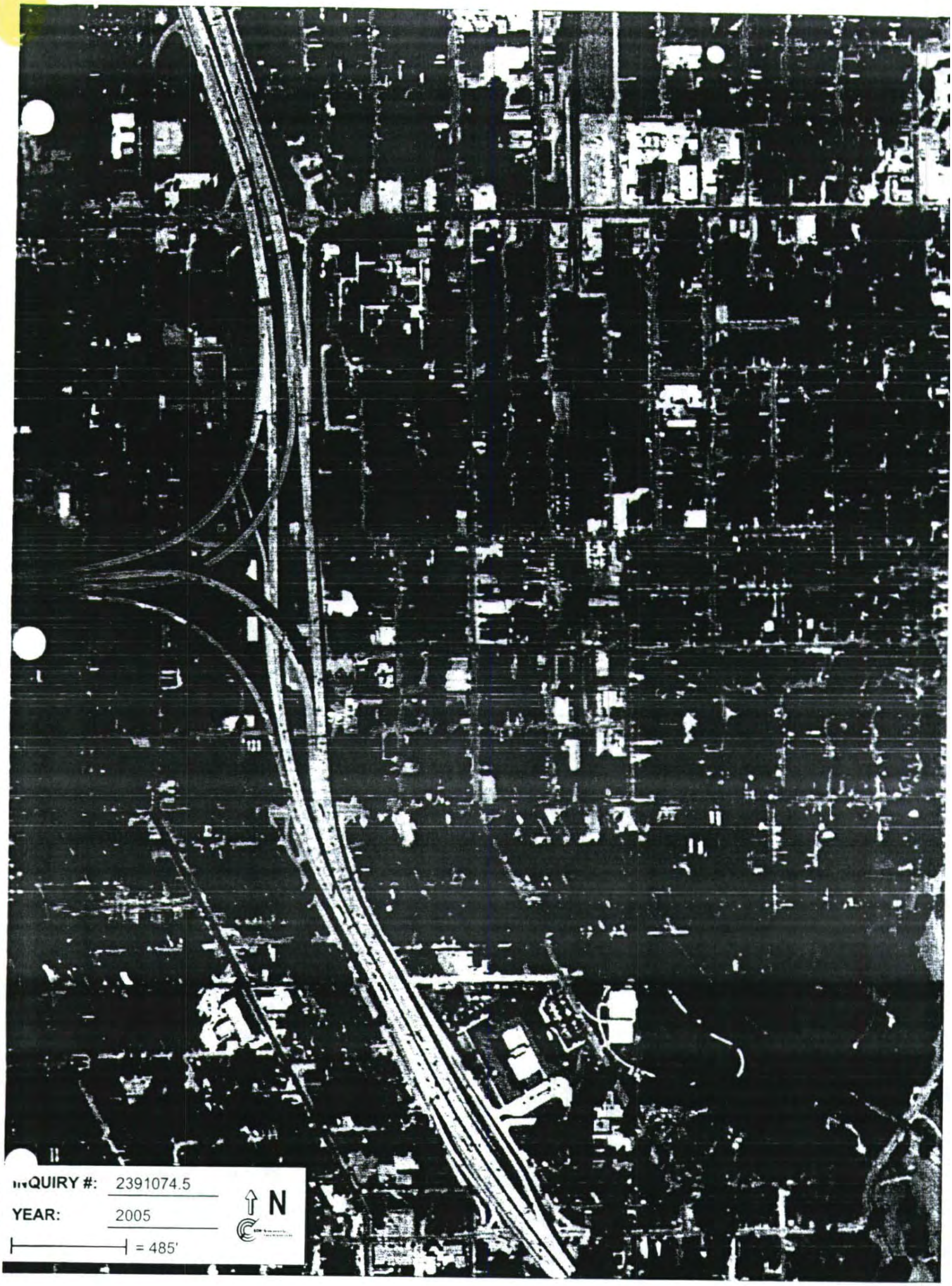
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YEAR: 2005
= 485'
N

APPENDIX D

HISTORICAL TOPOGRAPHIC MAPS

Lincoln Theater
1305 Myrtle Walk
Baton Rouge, LA 70802

Inquiry Number: 2391074.4
December 31, 2008

The EDR Historical Topographic Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR Historical Topographic Map Report

Environmental Data Resources, Inc.s (EDR) Historical Topographic Map Report is designed to assist professionals in evaluating potential liability on a target property resulting from past activities. EDRs Historical Topographic Map Report includes a search of a collection of public and private color historical topographic maps, dating back to the early 1900s.

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Please contact EDR at 1-800-352-0050
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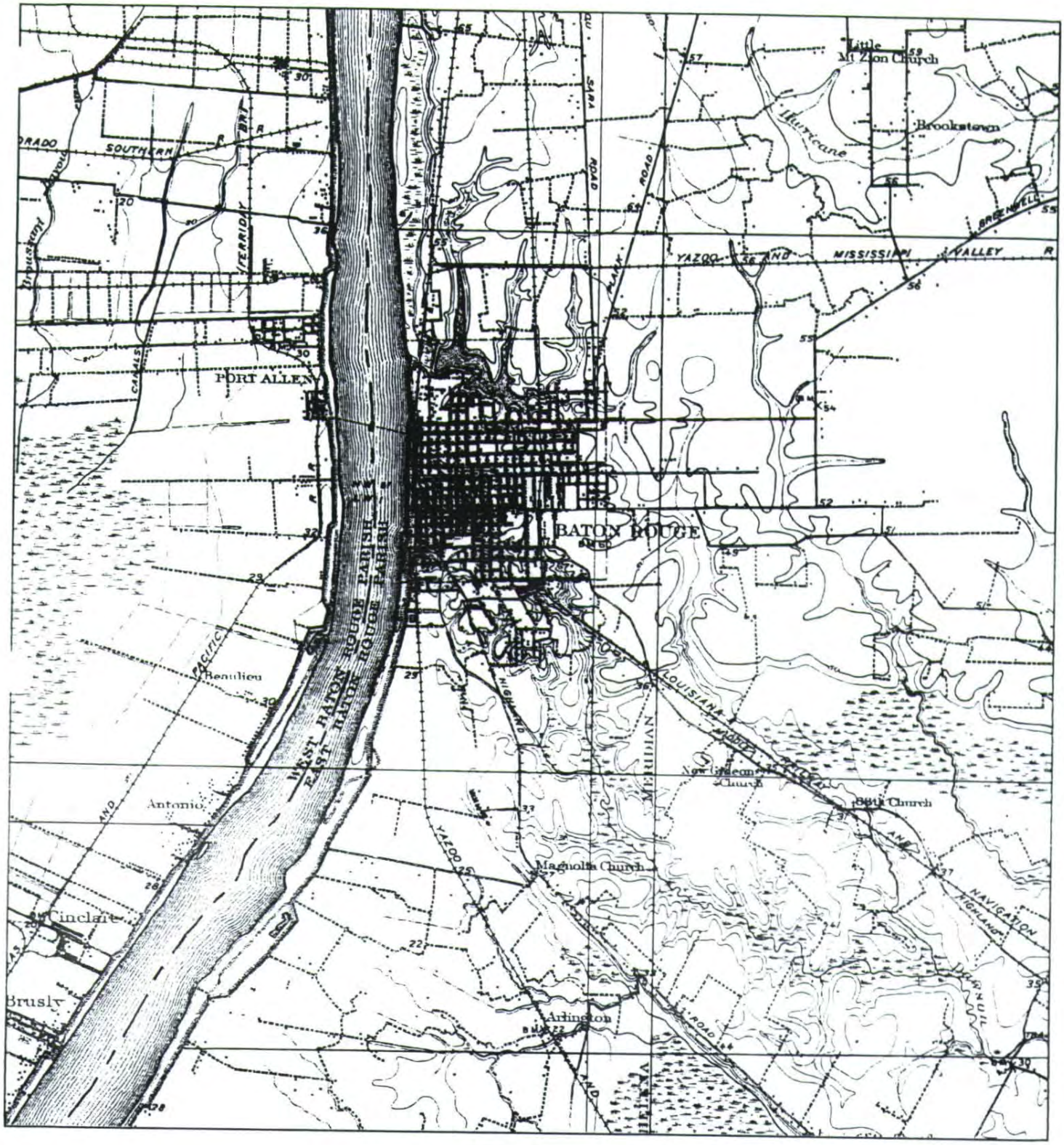
Historical Topographic Map

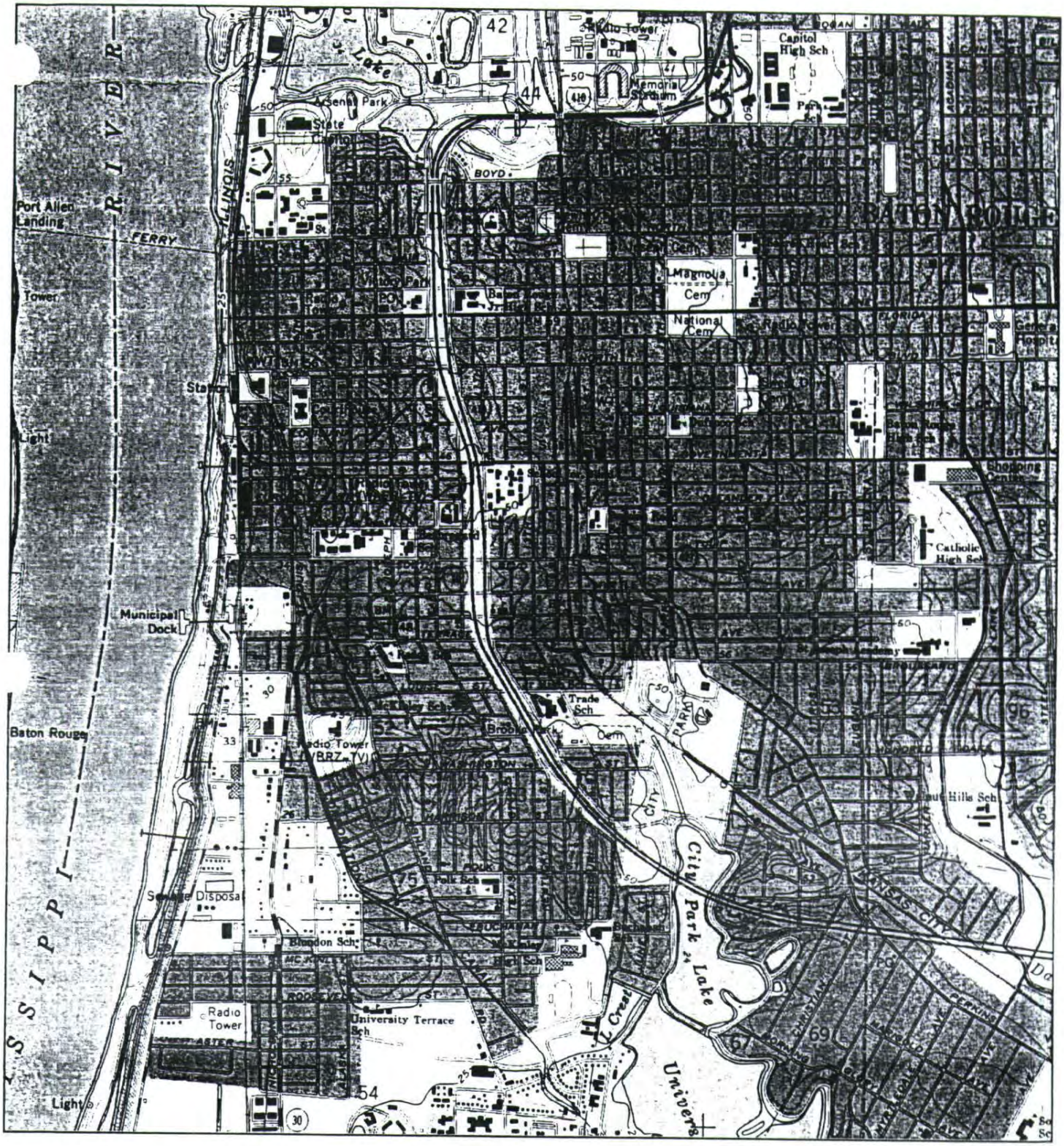


N	TARGET QUAD NAME: BATON ROUGE MAP YEAR: 1908 SERIES: 15 SCALE: 1:62500	SITE NAME: Lincoln Theater ADDRESS: 1305 Myrtle Walk Baton Rouge, LA 70802 LAT/LONG: 30.4384 / 91.1754	CLIENT: Quaternary Resource Invest.LLC CONTACT: Kay Nall INQUIRY#: 2391074.4 RESEARCH DATE: 12/31/2008

Historical Topographic Map

N ↑	TARGET QUAD NAME: BATON ROUGE MAP YEAR: 1963 SERIES: 15 SCALE: 1:62500	SITE NAME: Lincoln Theater ADDRESS: 1305 Myrtle Walk Baton Rouge, LA 70802 LAT/LONG: 30.4384 / 91.1754	CLIENT: Quaternary Resource Invest.LLC CONTACT: Kay Nall INQUIRY#: 2391074.4 RESEARCH DATE: 12/31/2008

Historical Topographic Map



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Historical Topographic Map

N

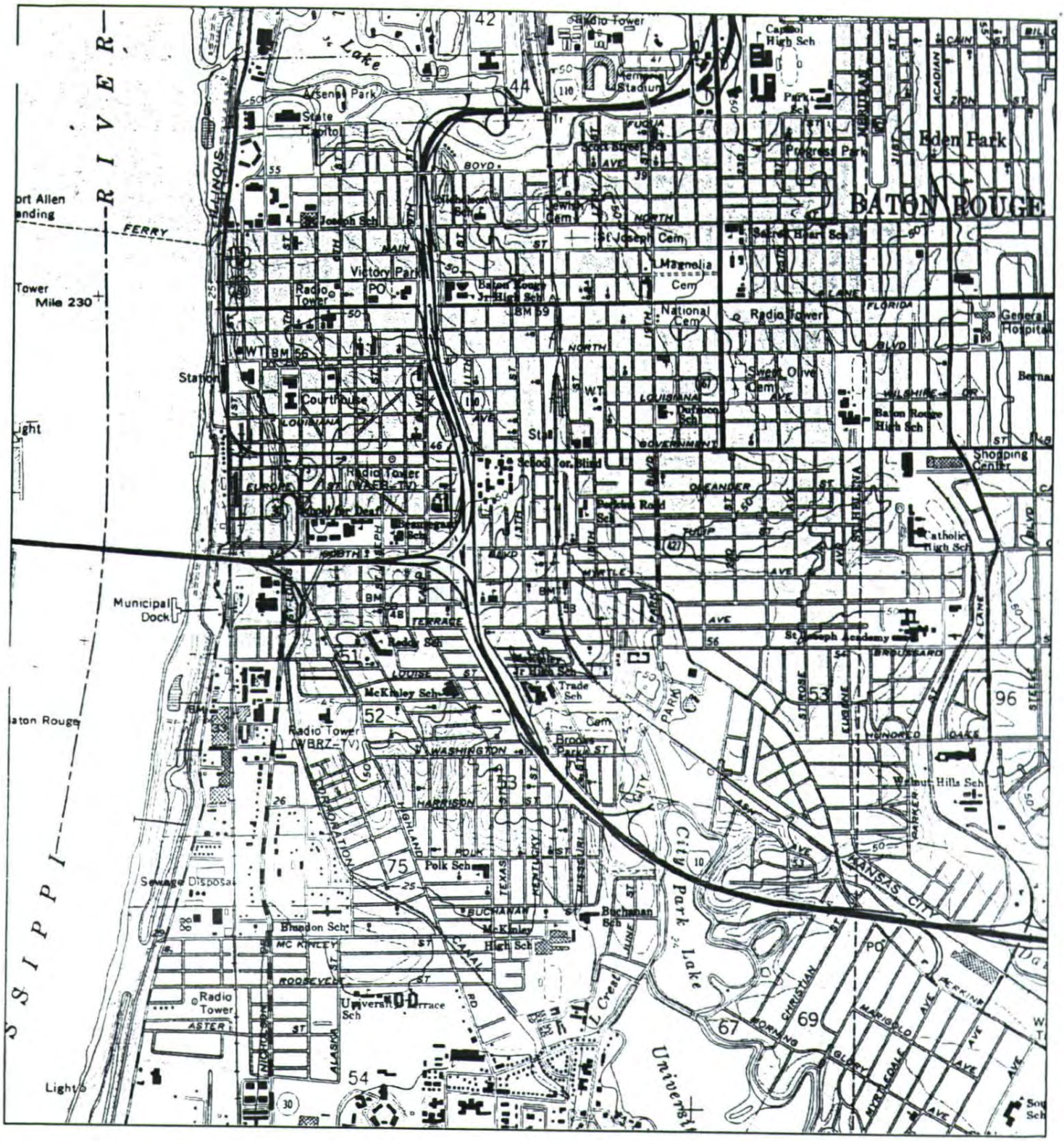
TARGET QUAD
NAME: BATON ROUGE WEST
MAP YEAR: 1971
PHOTOREVISED FROM:1963
SERIES: 7.5
SCALE: 1:24000

SITE NAME: Lincoln Theater
ADDRESS: 1305 Myrtle Walk
Baton Rouge, LA 70802
LAT/LONG: 30.4384 / 91.1754

CLIENT: Quaternary Resource Invest.LLC

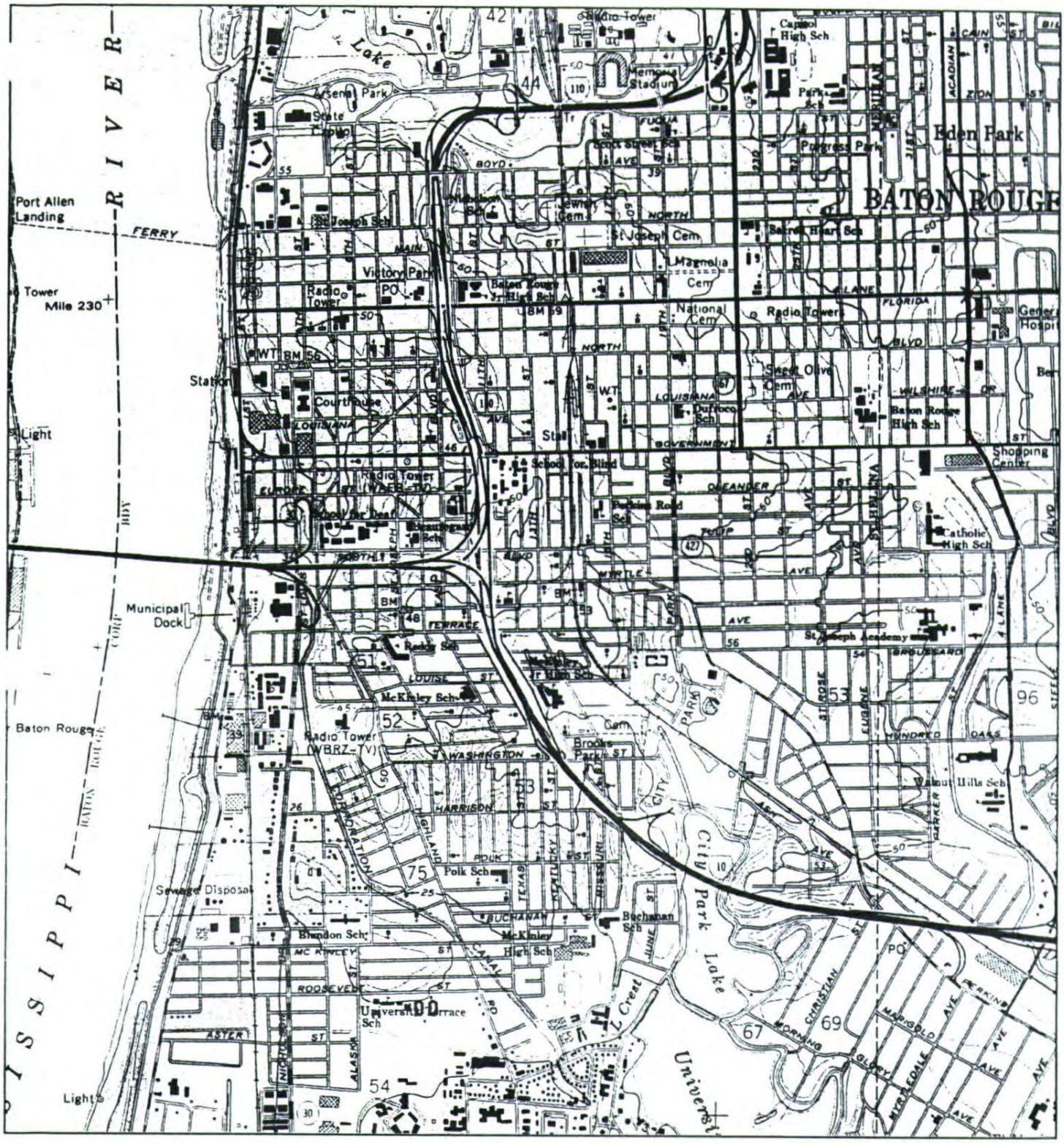
CONTACT: Kay Nall
INQUIRY#: 2391074.4
RESEARCH DATE: 12/31/2008

Historical Topographic Map



N	TARGET QUAD NAME: BATON ROUGE WEST MAP YEAR: 1980 PHOTOREVISED FROM:1963 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Lincoln Theater ADDRESS: 1305 Myrtle Walk Baton Rouge, LA 70802 LAT/LONG: 30.4384 / 91.1754	CLIENT: Quaternary Resource Invest.LLC CONTACT: Kay Nall INQUIRY#: 2391074.4 RESEARCH DATE: 12/31/2008

Historical Topographic Map



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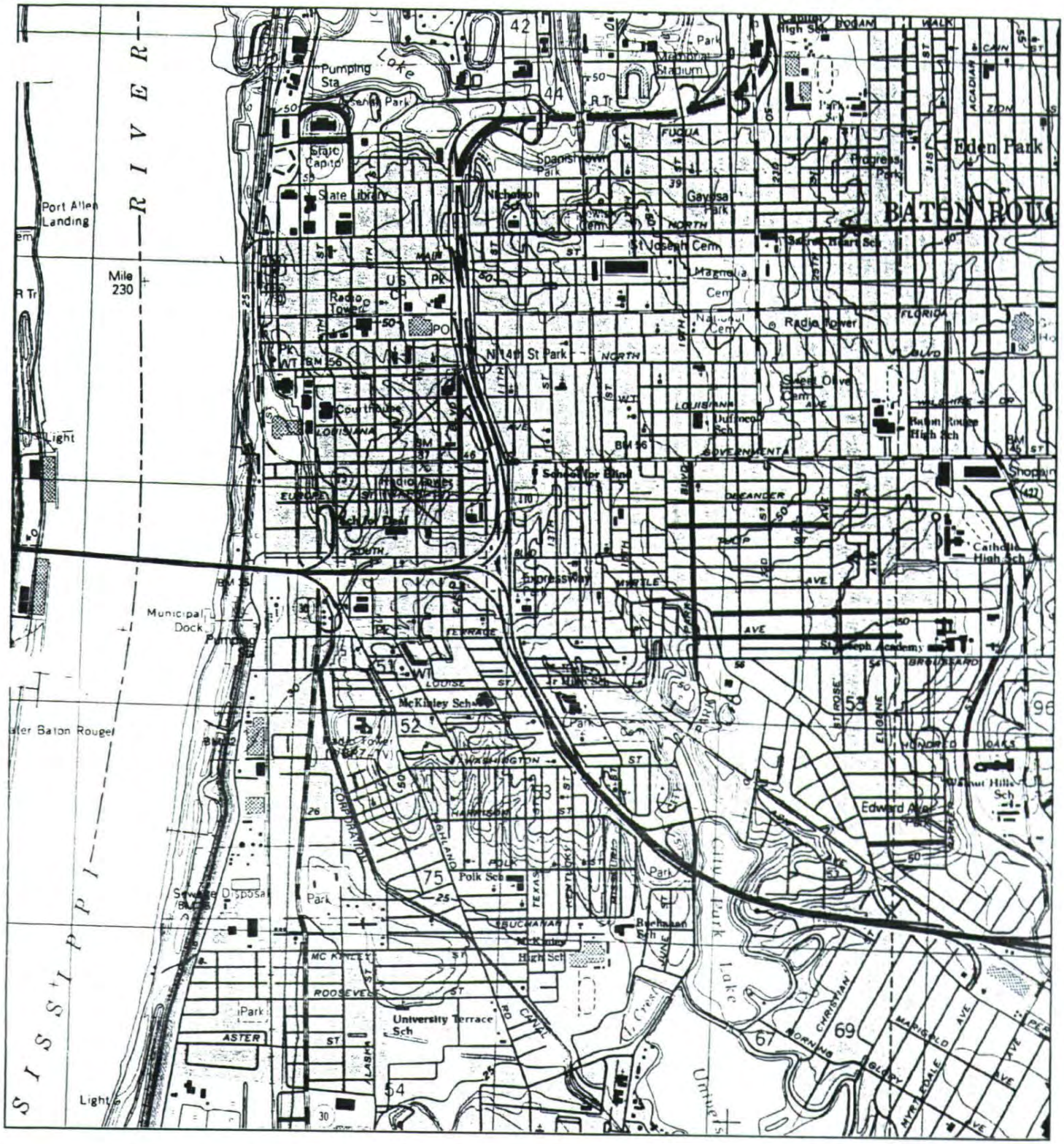
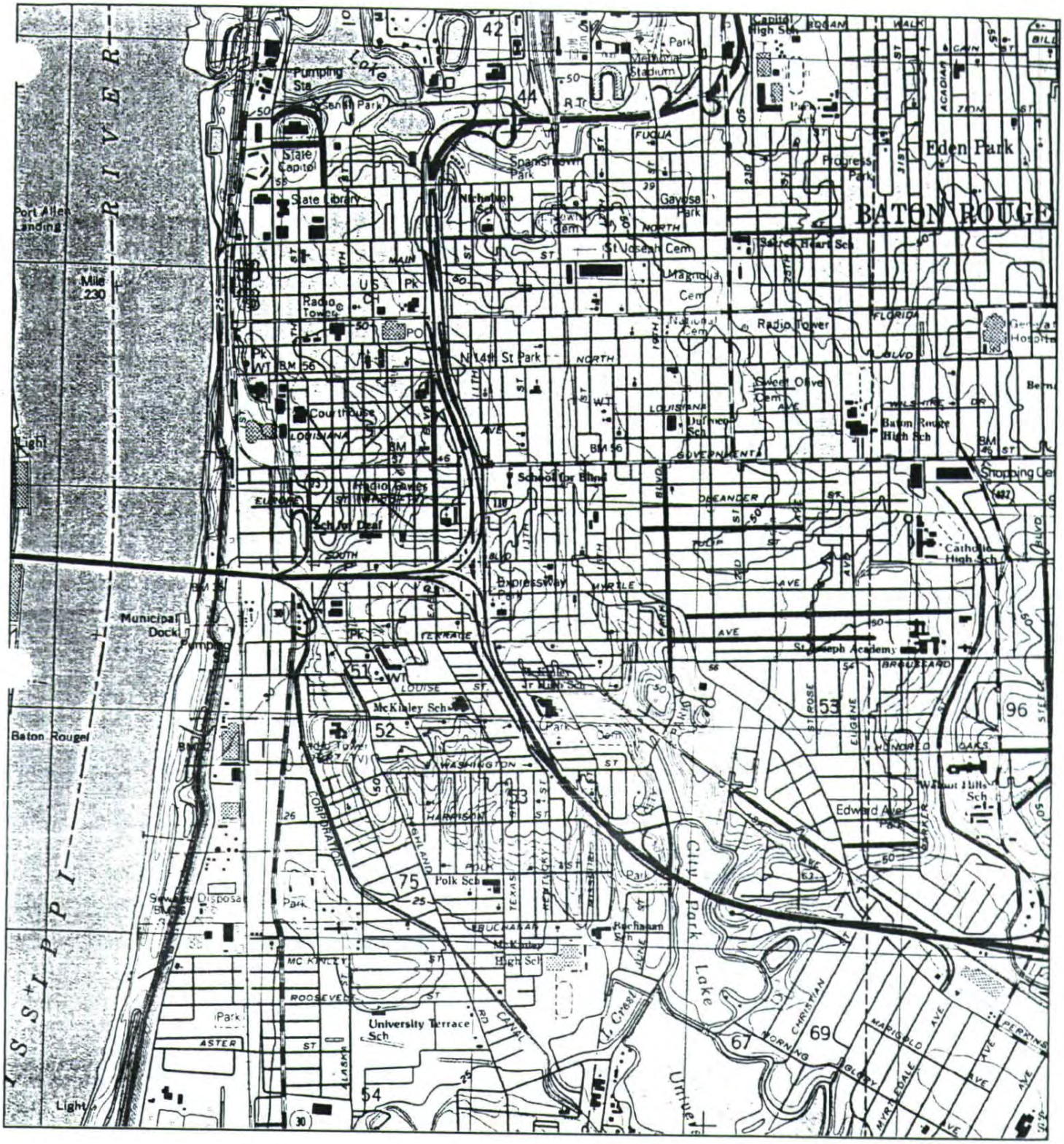
Historical Topographic Map



N	TARGET QUAD NAME: BATON ROUGE WEST MAP YEAR: 1992 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Lincoln Theater ADDRESS: 1305 Myrtle Walk Baton Rouge, LA 70802 LAT/LONG: 30.4384 / 91.1754	CLIENT: Quaternary Resource Invest.LLC CONTACT: Kay Nall INQUIRY#: 2391074.4 RESEARCH DATE: 12/31/2008

Historical Topographic Map



N	TARGET QUAD NAME: BATON ROUGE WEST MAP YEAR: 1995 SERIES: 7.5 SCALE: 1:24000	SITE NAME: Lincoln Theater ADDRESS: 1305 Myrtle Walk Baton Rouge, LA 70802 LAT/LONG: 30.4384 / 91.1754	CLIENT: Quaternary Resource Invest.LLC CONTACT: Kay Nall INQUIRY#: 2391074.4 RESEARCH DATE: 12/31/2008

APPENDIX E

SANBORN MAPS

Lincoln Theater
1305 Myrtle Walk
Baton Rouge, LA 70802

Inquiry Number: 2391074.3
December 31, 2008

Certified Sanborn® Map Report

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

Certified Sanborn® Map Report

12/31/08

Site Name:
Lincoln Theater
1305 Myrtle Walk
Baton Rouge, LA 70802

EDR Inquiry # 2391074.3

Client Name:
Quaternary Resource
13588 Florida Boulevard
Baton Rouge, LA 70819

Contact: Kay Nall

EDR® Environmental Data Resources Inc

The complete Sanborn Library collection has been searched by EDR, and fire insurance maps covering the target property location provided by Quaternary Resource Invest.LLC were identified for the years listed below. The certified Sanborn Library search results in this report can be authenticated by visiting www.edrnet.com/sanborn and entering the certification number. Only Environmental Data Resources Inc. (EDR) is authorized to grant rights for commercial reproduction of maps by Sanborn Library LLC, the copyright holder for the collection.

Certified Sanborn Results:

Site Name: Lincoln Theater
Address: 1305 Myrtle Walk
City, State, Zip: Baton Rouge, LA 70802
Cross Street:
P.O. # NA
Project: Lincoln Theater
Certification # E752-4F43-8BC5

Sanborn® Library search results
Certification # E752-4F43-8BC5

Maps Provided:

1969
1950
1946
1923
1916
1911

The Sanborn Library includes more than 1.2 million Sanborn fire insurance maps, which track historical property usage in approximately 12,000 American cities and towns. Collections searched:

- ✓ Library of Congress
- ✓ University Publications of America
- ✓ EDR Private Collection

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· Your target property is centered on each map. You can quickly locate your target property and view adjoining properties. Plus, adjoining properties are included more often, reducing your need to refer to additional maps.

· All maps are now displayed at a uniform scale. This makes it easier for you to view changes to the property over time.

· We've increased coverage by adding thousands of new maps from 40 cities for years 1994-2007.

· A new Map Key and Sheet Thumbnails let you reference sheet numbers, year and volume of original Sanborn Map panels used for this report.

For more information about the new enhancements to the Certified Sanborn Map Report, contact your EDR representative at 800-352-0050.

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NEXT 8 PAGES

Sanborn Sheet Thumbnails

This Certified Sanborn Map Report is based upon the following Sanborn Fire Insurance map sheets.

1969 Source Sheets

Volume 1, Sheet 59

Volume 1, Sheet 59

Volume 1, Sheet 37

Volume 1, Sheet 37

Volume 1, Sheet 38

Volume 1, Sheet 68

Volume 1, Sheet 74

Volume 1, Sheet 74

1950 Source Sheets

Volume 1, Sheet 37

Volume 1, Sheet 38

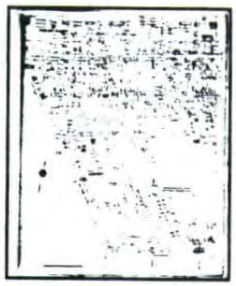
Volume 1, Sheet 59

Volume 1, Sheet 68

1946 Source Sheets

Volume 1, Sheet 37

Volume 1, Sheet 38

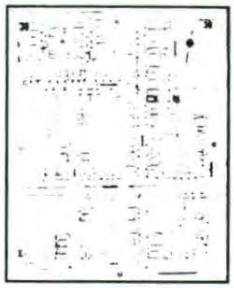


Volume 1, Sheet 59

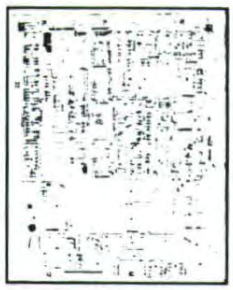
Volume 1, Sheet 68

1923 Source Sheets

Volume 1, Sheet 37



Volume 1, Sheet 38



Volume 1, Sheet 51

Volume 1, Sheet 59

1916 Source Sheets

Volume 1, Sheet 27

Volume 1, Sheet 28

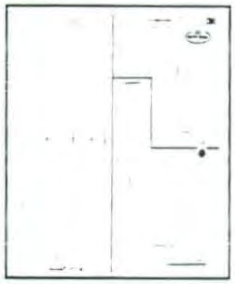
Volume 1, Sheet 29

1911 Source Sheets

Volume 1, Sheet 33

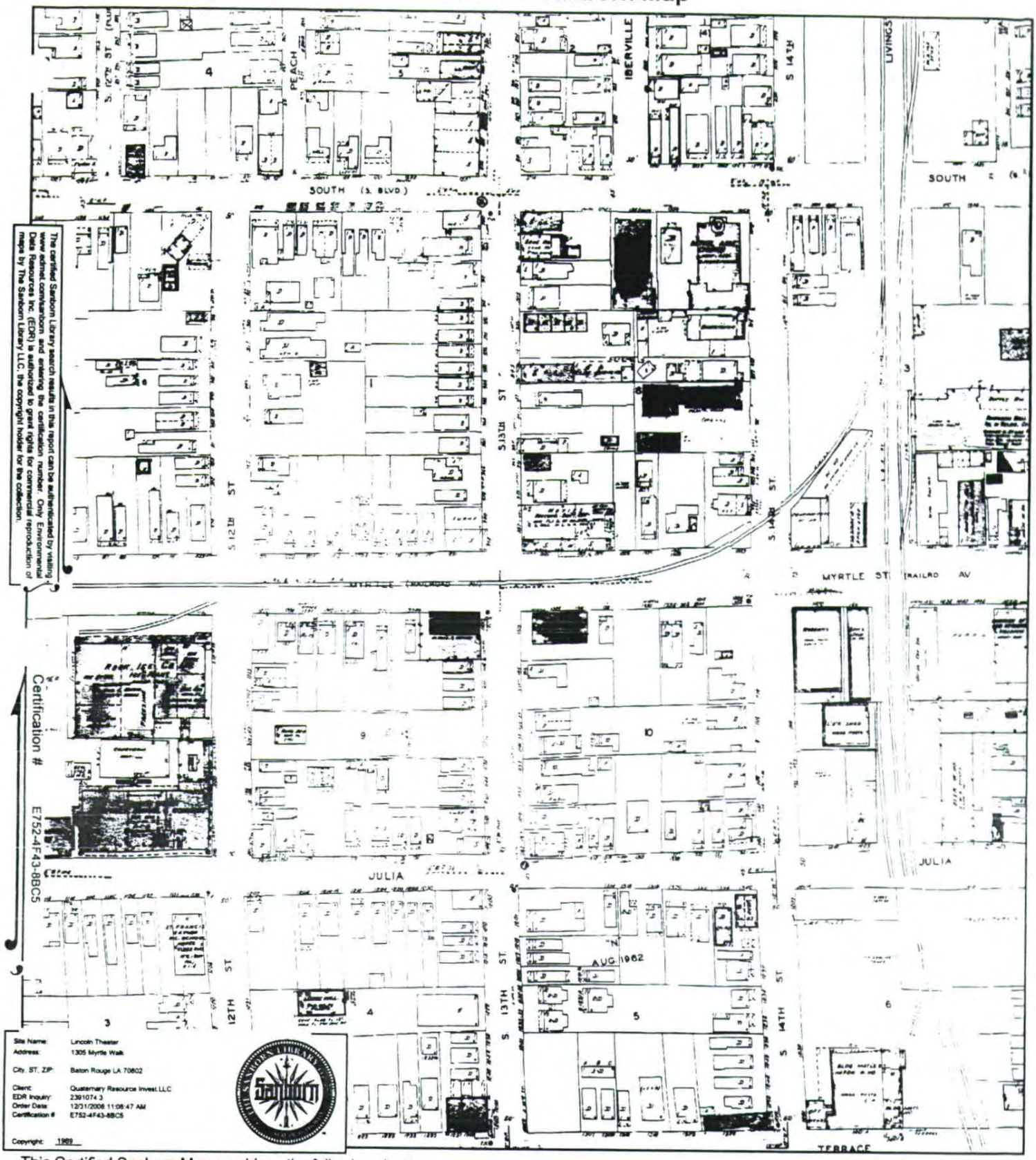
Volume 1, Sheet 34

Volume 1, Sheet 35



Volume 1, Sheet 36

1969 Certified Sanborn Map



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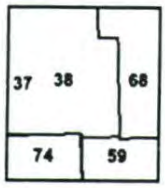
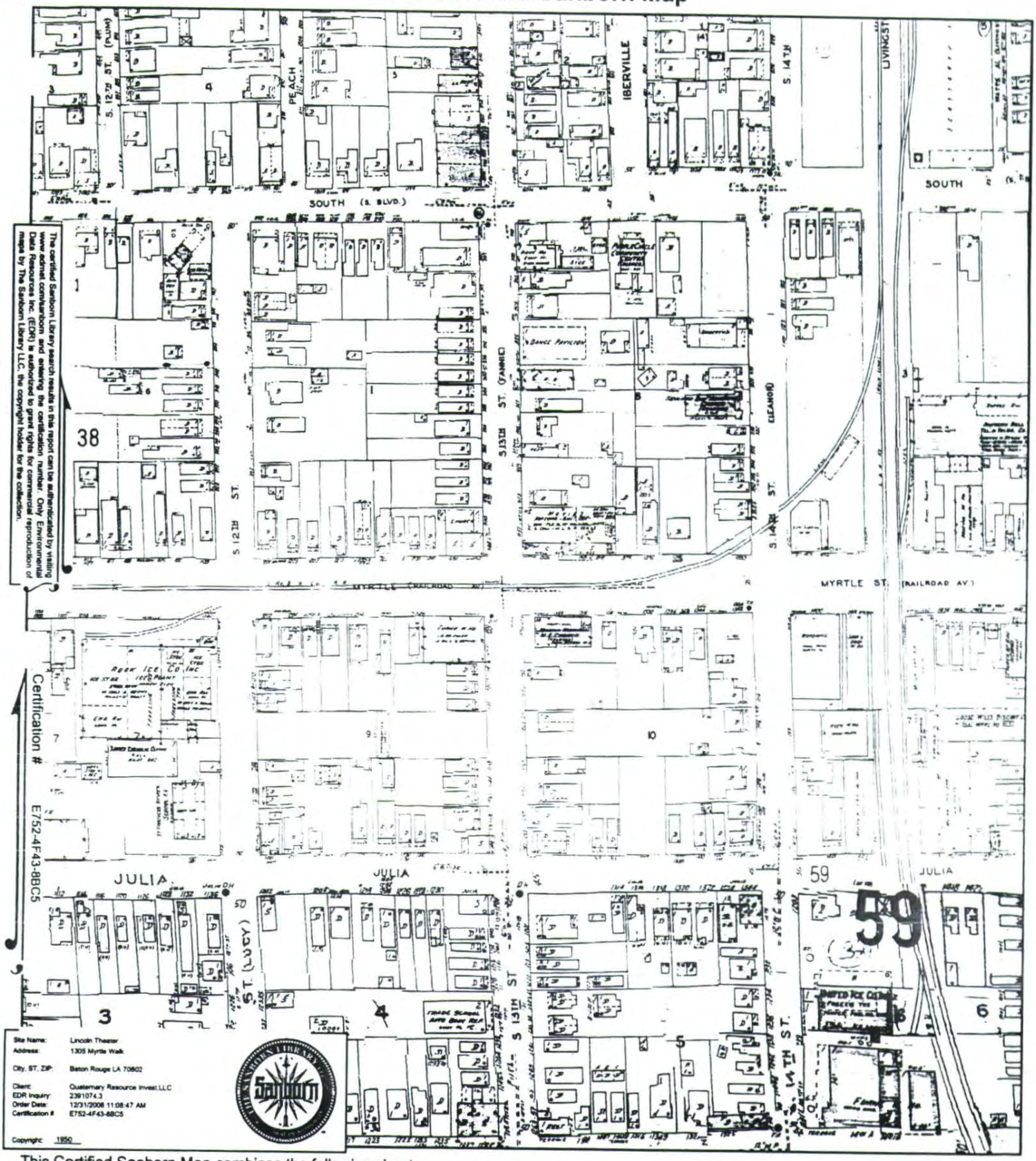


Volume 1, Sheet 59
Volume 1, Sheet 59
Volume 1, Sheet 37
Volume 1, Sheet 37
Volume 1, Sheet 38
Volume 1, Sheet 68
Volume 1, Sheet 74
Volume 1, Sheet 74

N

1950 Certified Sanborn Map



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Site Name:	Lincoln Theater
Address:	1305 Myrtle Walk
City, ST, ZIP:	Baton Rouge LA 70802
Client:	Quaternary Resource Invest,LLC
EDR Inquiry:	2391074.3
Order Date:	12/31/2006 11:08:47 AM
Certification #	E752-4F43-8BC5

Copyright: 1950

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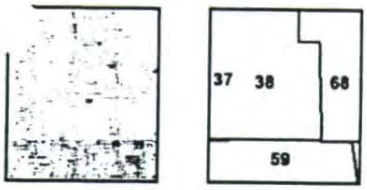

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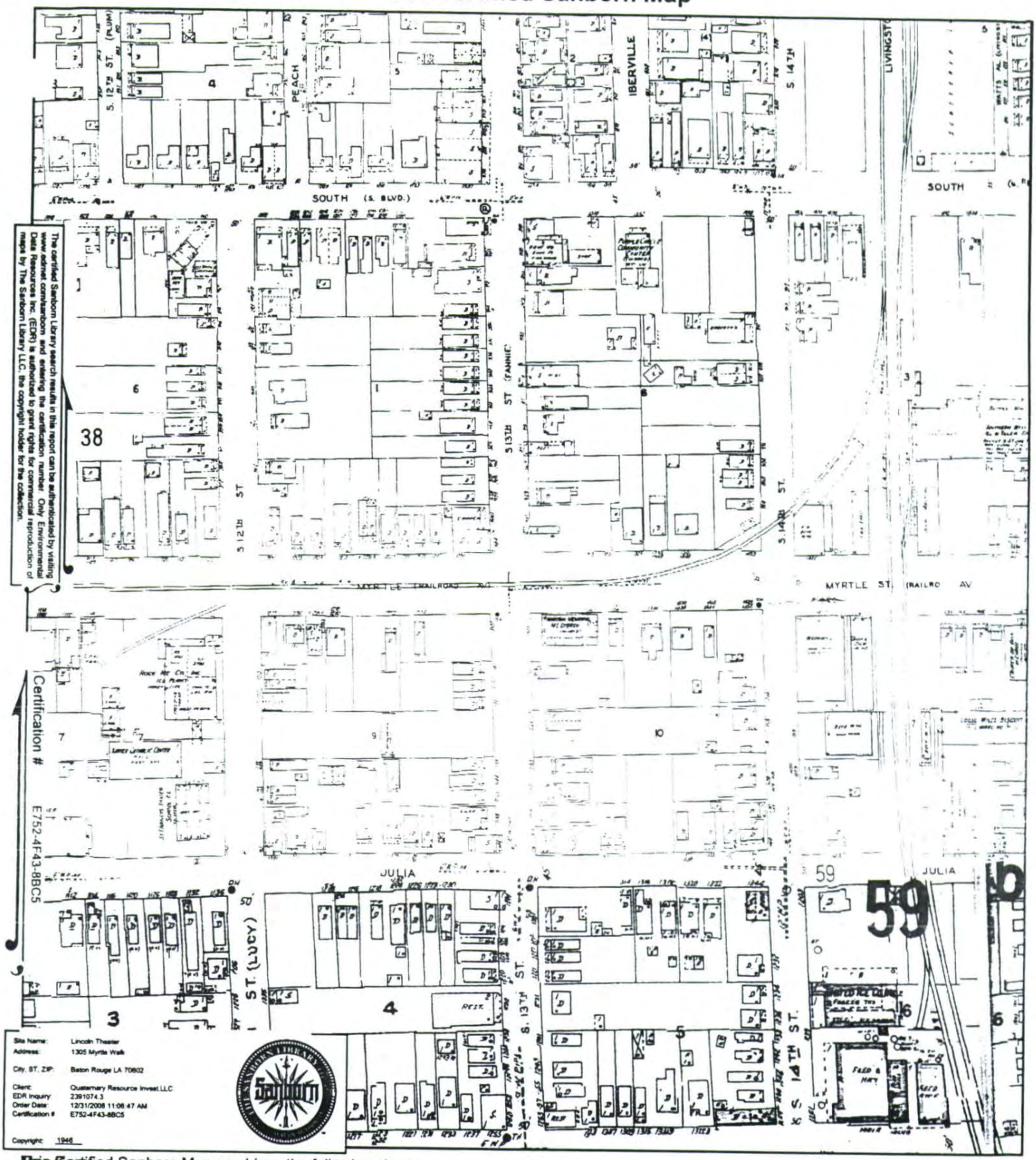
Volume 1, Sheet 38
Volume 1, Sheet 59
Volume 1, Sheet 68

N

1946 Certified Sanborn Map



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Map Key

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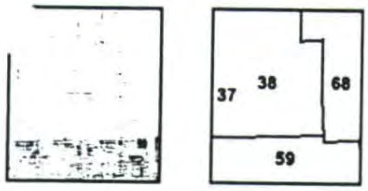

Volume 1, Sheet 37
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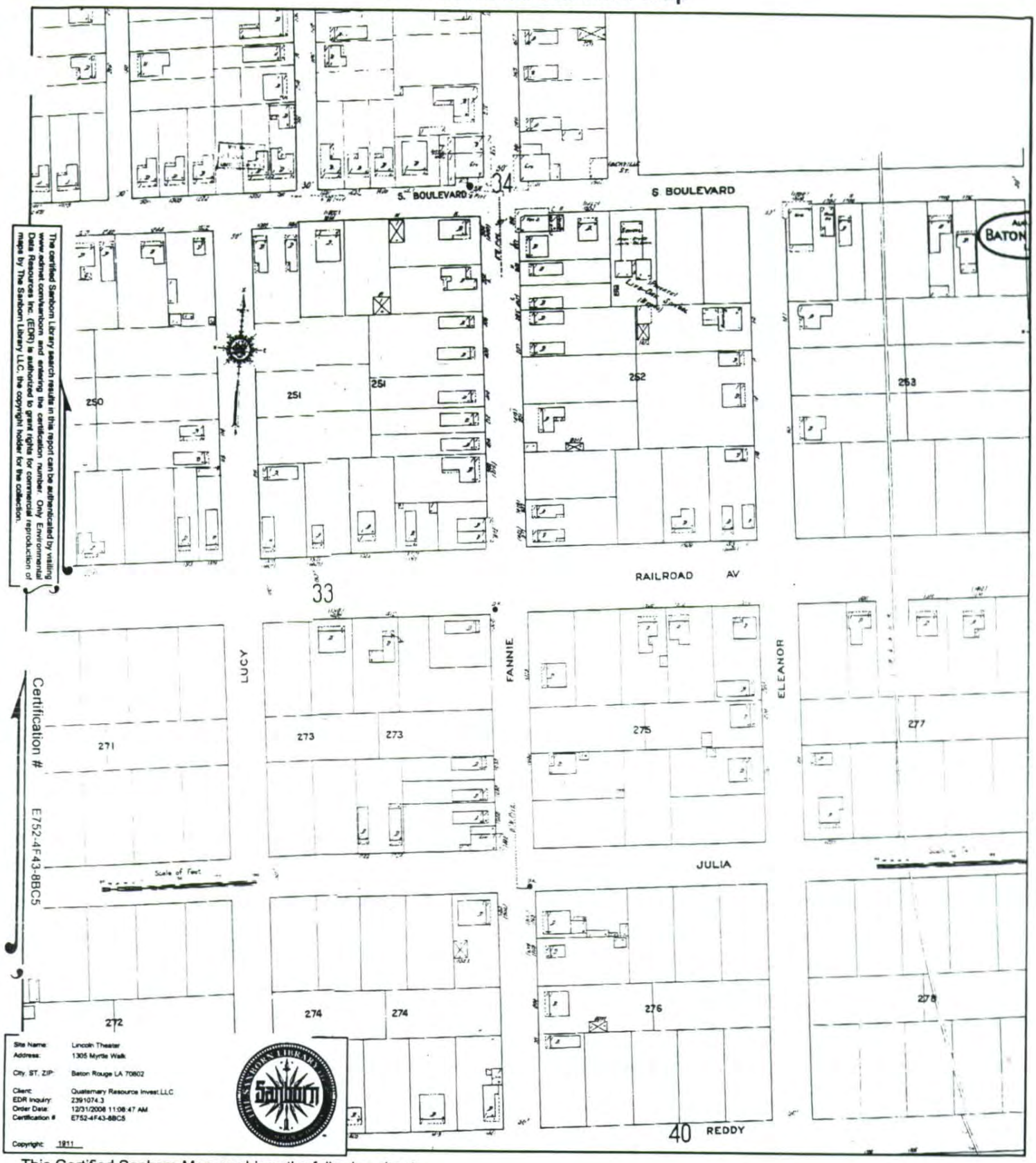
N

1911 Certified Sanborn Map



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Certification # E752-4F43-8BC5

Site Name: Lincoln Theater
Address: 1305 Myrtle Walk
City, ST, ZIP: Baton Rouge LA 70802
Client: Quaternary Resource Invest LLC
EDR Inquiry: 2391074.3
Order Date: 12/31/2008 11:08:47 AM
Certification #: E752-4F43-8BC5

Copyright: 1911

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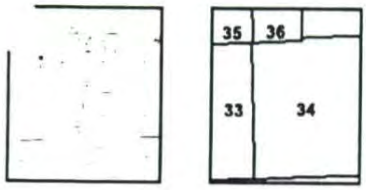

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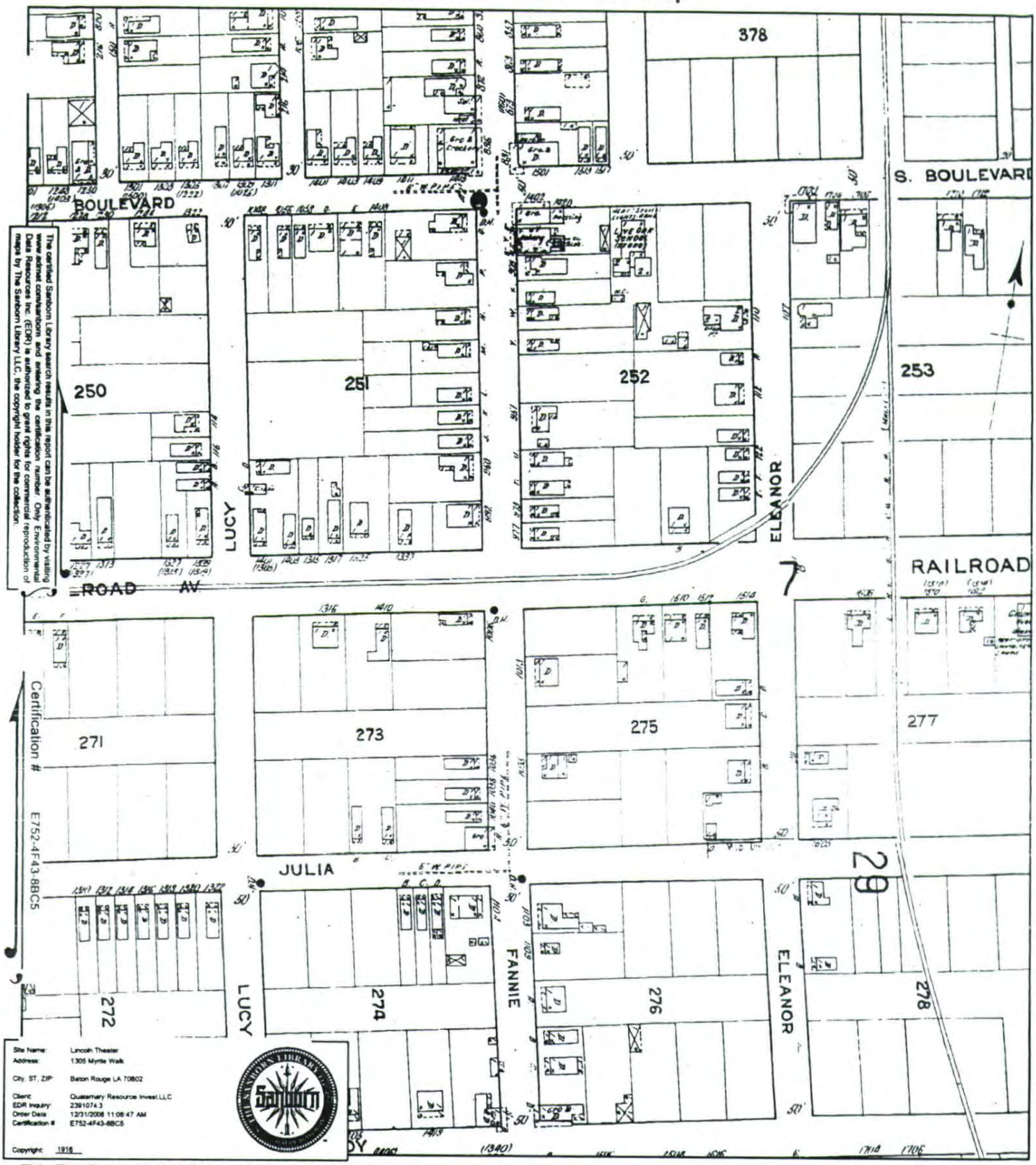
Volume 1, Sheet 34
Volume 1, Sheet 35
Volume 1, Sheet 36

N

1916 Certified Sanborn Map



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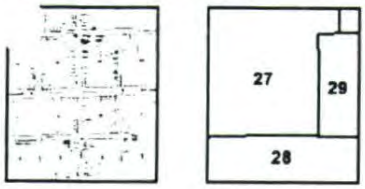

Volume 1, Sheet 27
Volume 1, Sheet 28
Volume 1, Sheet 29

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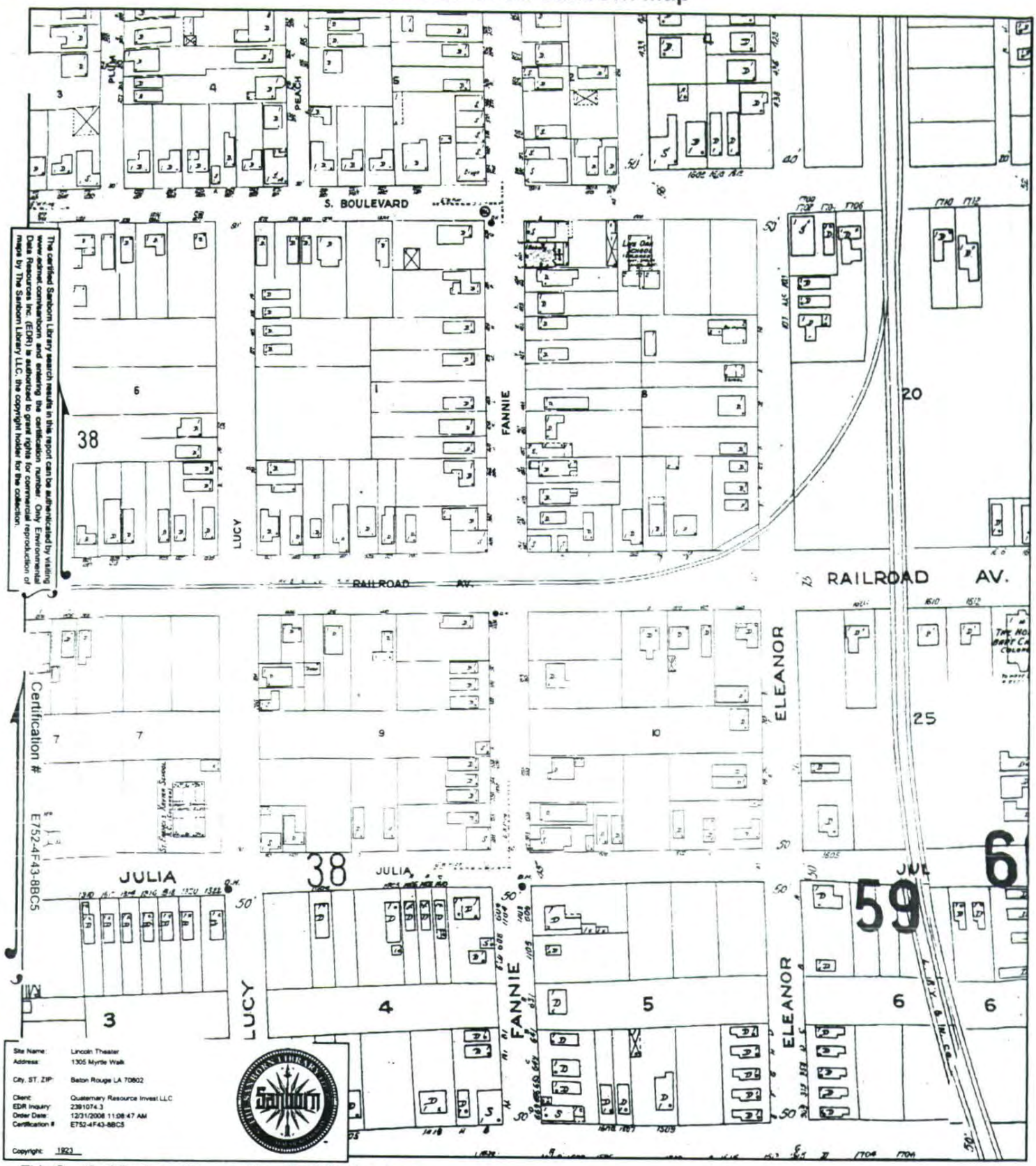
1923 Certified Sanborn Map



This Certified Sanborn Map combines the following sheets (thumbnails on page 3).

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Volume 1, Sheet 59

N

Sanborn Map Abbreviations

"Linking technology with tradition"®

Abbreviation	Meaning
A	Automobile (usually designates the location of a garage)
A in B	Automobile located in basement
A S	Automatic sprinkler
Abv	Above
ACS	Automatic chemical sprinkler
AFA	Automatic fire alarm
Agr	Agricultural
Appts	Apparatus
Apts	Apartments
Asb Cl	Asbestos clad
Att'd	Attended
Aud'it'm	Auditorium
Auto Ho	Automobile house, or garage
B	Basement, boiler or occasionally brick
B&S	Boots and shoes
BPOE	Benevolent & Protective Order of Elks
B Sm	Blacksmith
B'ld'g	Building
B'lr.	Boiler
B'st	Basement
Bak'y	Bakery
Balc	Balcony
Bap	Baptist
Bbl	Barrel
Bbls	Barrels
BE	Brick enclosed elevator
Bill'ds	Billiards
Bl Sm	Blacksmith
Blk Sm	Blacksmith
Bst	Basement
C B	Cement brick or concrete block construction
C Br	Concrete brick or cement block construction
Capcy	Capacity
Carpnr	Carpenter
CBET	Concrete enclosed elevator with traps
Chem	Chemical
Chinaw	Chinaware or porcelain
Chine	Chinese
Cl	Clad
Clo	Clothing
Co	Company
Comp	Composition construction (i.e. stucco) or compressor
Conc	Concrete
Conf'y	Confectionary (candy store)
Confec'y	Confectionary (candy store)
Constr'n	Construction
Corp'n	Corporation
D	Dwelling
DH	Double (fire) hydrant
DG	Dry goods
Drs	Doctor's office
Dwg	Dwelling
E	Open elevator
E Fl	Each Floor
El	Electric
Elec	Electrician
Eng	Engine
Ent	Entertainment
Epsc'l	Episcopal
ESC	Elevator with self-closing traps
ET	Elevator with traps
Exch	Telephone exchange
Expr	Express (as used to designate a delivery service)
F	Flat (as used to designate a delivery service)
FA	Fire alarm
FE	Fire escape
F Pump	Fire pump
Fill'g Sta	Filling station, or gas station
Fl	Floor
Fr Attic	Frame constructed attic
Frat	Fraternity
Fur	Furnishings
Furn'g	Furnishings
Furne	Furniture
GAR	Grand Army of the Republic
GT	Gasoline tank
Gal	Gallery
Gall	Gallery
Gall'y	Gallery
Gen'l	General (as used to designate a general store)
Gents	Gentlemen's
Gress'g	Gressing
Gro	Grocery or groceries

Abbreviation	Meaning
HPFS	High pressure fire service
H'dw	Hardware
Hack	Hackney or delivery service
Hardw	Hardware
Ho	Hotel or house (as used to designate a warehouse)
Htr	Heater
Hyd	Hydrant
ICRR	Illinois Central Railroad
Imp	Implements
Ins	Insurance
Insts	Instruments
Ir Cl	Iron clad
K of C	Knights of Columbus
Lab	Laboratory
Lodg'g	Lodging
Luth	Lutheran
Luth'n	Lutheran
ME	Methodist Episcopal
Mach'y	Machinery
Mak'r	Maker
Manf'y	Manufactory or factory
Mdse	Merchandise
Mfy	Manufactory or factory
Mill'y	Millinery
Mkg	Making
Mo	Motor
NS	Not sprinklered
OU	Open under
Off	Office
PO	Post office
Paint'g	Painting
Pat Med	Patent medicines
Plumb'g	Plumbing
Print'g	Printing
QH	Quadruple (fire) hydrant
RC	Roman Catholic
R'f	Roof
R'm	Room
Rep	Repair
Rep'g	Repairing
Repos'ry	Repository
Restr't	Restaurant
Rf	Roof
Rm	Room
S	Store
SA	Spark arrestor
S Vie	Store portion of building is vacant
Sa	Saloon
Sky'ts	Skylights
Sm	Smith, as in gunsmith or blacksmith
Sm Ho	Smokehouse
Sp'k'l'rs	Sprinklers
Stge	Storage
Sty	Story
Sta	Station
Stat'y	Stationery
TH	Triple (fire) hydrant
Tel	Telephone
Tenem'ts	Tenements
TESC	Tile enclosed elevator with self-closing traps
Tinw	Tinware
Trimm'g	Trimming
U	Upright
Up	Upright
VP	Vertical pipe
Vac	Vacant
Ven'd	Veneered
Vert'd	Veneered
W	Ware, as in warehouse or wareroom
WC	Water closet or toilet
WG	Wire glass skylights
W Ho	Warehouse
WPA	Works Progress Administration
W'ks	Works
Whol	Wholesale
Wkg	Working
Woodwkg	Woodworking

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Sanborn Map Legend

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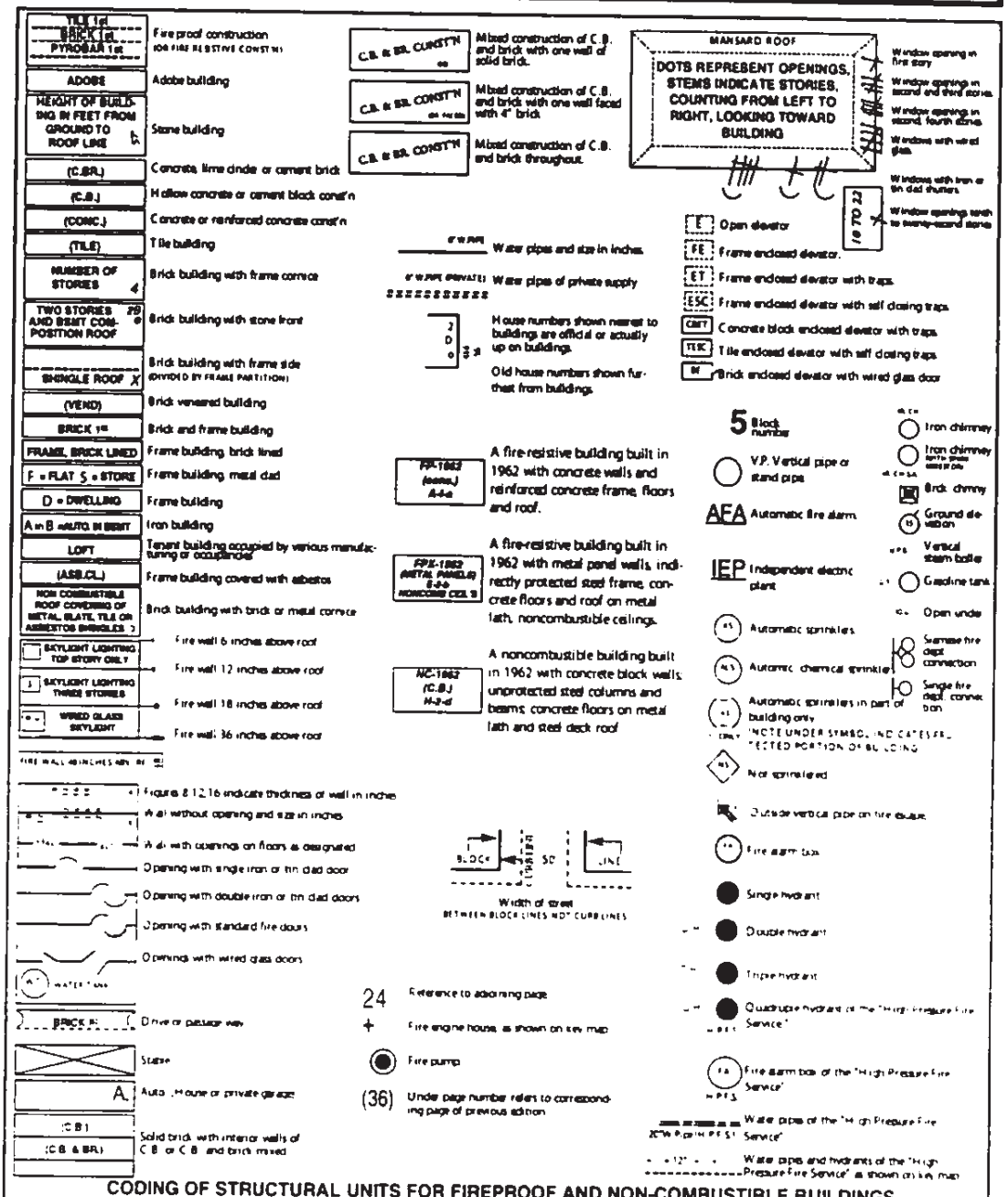

CODING OF STRUCTURAL UNITS FOR FIREPROOF AND NON-COMBUSTIBLE BUILDINGS

FRAMING

CODE	STRUCTURAL UNIT
A	Reinforced Concrete Frame.
B	Reinforced Concrete Joists, Columns, Beams, Trusses, Arches, Masonry Piers.
C	Protected Steel Frame.
D	Individually Protected Steel Joists, Columns, Beams, Trusses, Arches.
E	Indirectly Protected Steel Frame.
F	Indirectly Protected Steel Joists, Columns, Beams, Trusses, Arches.
G	Unprotected Steel Frame.
H	Unprotected Steel Joists, Columns, Beams, Trusses, Arches.
O	Masonry Bearing Walls.

FLOORS

CODE	STRUCTURAL UNIT
1	Reinforced Concrete. Reinforced Concrete with Masonry Units. Pre-cast Concrete or Gypsum Slabs or Planks.
2	Concrete on Metal Lath, Incombustible Form Boards, Pape-backed Wire Fabric, Steel Deck, and Cellular, Ribbed or Corrugated Steel Units.
3	Open Steel Deck or Grating.

ROOF

CODE	STRUCTURAL UNIT
a	Reinforced Concrete. Reinforced Concrete with Masonry Units. Reinforced Gypsum Concrete, Pre-cast Concrete or Gypsum Slabs or Planks.
b	Concrete or Gypsum on Metal Lath, Incombustible Form Boards, Pape-backed Wire Fabric, Steel Deck, and Cellular, Ribbed or Corrugated Steel Units.
c	Incombustible Composition Boards with or without Insulation. Masonry or Metal Tiles.
d	Steel Deck, Corrugated Metal or Asbestos Protected Metal with or without Insulation.

LAND USE CODE APPLICABLE TO CHANGES DIAGRAMMED AFTER 5/98

R	RESIDENTIAL	M	MANUFACTURING
RT	RESIDENTIAL-TRANSIENT	P	PUBLIC OR INSTITUTIONAL
C	COMMERCIAL	U	UTILITY
W	WAREHOUSE	T	TRANSPORTATION

NUMERICAL PREFIX INDICATES THE NUMBER OF ESTABLISHMENTS IN EACH CATEGORY

The coding for framing, floor and roof structural units as shown above is used in describing the construction of fire-resistive buildings. In addition, reports for fire-resistive buildings will show the date built and wall construction when other than brick.

FP buildings have masonry floors and roof, concrete and/or directly or indirectly protected steel framing and clay brick, stone or poured concrete walls.

FPX buildings are FP buildings with interior walls such as concrete block, cement brick, metal or glass panels, etc.

NC buildings have unprotected steel framing and fire-resistive but non-masonry floors and roof.

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800.352.0050
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APPENDIX F

CITY DIRECTORY ABSTRACT

Lincoln Theater
1305 Myrtle Walk
Baton Rouge, LA 70802

Inquiry Number: 2391074.6
January 05, 2009

The EDR-City Directory Abstract

EDR® Environmental Data Resources Inc

440 Wheelers Farms Road
Milford, CT 06461
800.352.0050
www.edrnet.com

EDR City Directory Abstract

Environmental Data Resources, Inc.'s (EDR) City Directory Abstract is a screening report designed to assist environmental professionals in evaluating potential liability on a target property resulting from past activities. EDR's City Directory Abstract includes a search and abstract of available city directory data. For each address, the directory lists the name of the corresponding occupant at five year intervals.

Thank you for your business.
Please contact EDR at 1-800-352-0050
with any questions or comments.

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SUMMARY

- ***City Directories:***

Business directories including city, cross reference and telephone directories were reviewed, if available, at approximately five year intervals for the years spanning 1964 through 2008. (These years are not necessarily inclusive.) A summary of the information obtained is provided in the text of this report.

Date EDR Searched Historical Sources: January 5, 2009

Target Property:
1305 Myrtle Walk
Baton Rouge, LA 70802

Year	Uses	Source
1964	Address Not Listed in Research Source	Polk's City Directory
1968	Address Not Listed in Research Source	Polk's City Directory
1972	Address Not Listed in Research Source	Polk's City Directory
1977	Address Not Listed in Research Source	Polk's City Directory
1982	Address Not Listed in Research Source	Polk's City Directory
1988	Address Not Listed in Research Source	Polk's City Directory
1993	Address Not Listed in Research Source	Polk's City Directory
1998	Four Way Barber Shop	Polk's City Directory
2003	Fabre Law Firm	Polk's City Directory
	Lincoln Barber Shop	Polk's City Directory
	Louisiana Black History	Polk's City Directory
	Lincoln Theatre Inc	Polk's City Directory
2008	No current listing	Polk's City Directory

Adjoining Properties

SURROUNDING
Multiple Addresses
Baton Rouge, LA 70802

Year	Uses	Source
1964	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1964	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	Street not listed in research source	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Address not listed in research source (966)	Polk's City Directory
	Address not listed in research source (971)	Polk's City Directory
	Address not listed in research source (978)	Polk's City Directory
	Address not listed in research source (980)	Polk's City Directory
	Address not listed in research source (988)	Polk's City Directory
	Address not listed in research source (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Address not listed in research source (1116)	Polk's City Directory
	Address not listed in research source (1120)	Polk's City Directory
	Address not listed in research source (1123)	Polk's City Directory
	Address not listed in research source (1125)	Polk's City Directory
	Address not listed in research source (1132)	Polk's City Directory
	No address listings prior to 1500 Myrtle Walk	Polk's City Directory
1968	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1968	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	Street not listed in research source	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Address not listed in research source (966)	Polk's City Directory
	Address not listed in research source (971)	Polk's City Directory
	Address not listed in research source (978)	Polk's City Directory
	Address not listed in research source (980)	Polk's City Directory
	Address not listed in research source (988)	Polk's City Directory
	Address not listed in research source (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Address not listed in research source (1116)	Polk's City Directory
	Address not listed in research source (1120)	Polk's City Directory
	Address not listed in research source (1123)	Polk's City Directory
	Address not listed in research source (1125)	Polk's City Directory
	Address not listed in research source (1132)	Polk's City Directory
	No address listings prior to 1500 Myrtle Walk	Polk's City Directory
1972	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1972	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	Street not listed in research source	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Address not listed in research source (966)	Polk's City Directory
	Address not listed in research source (971)	Polk's City Directory
	Address not listed in research source (978)	Polk's City Directory
	Address not listed in research source (980)	Polk's City Directory
	Address not listed in research source (988)	Polk's City Directory
	Address not listed in research source (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Address not listed in research source (1116)	Polk's City Directory
	Address not listed in research source (1120)	Polk's City Directory
	Address not listed in research source (1123)	Polk's City Directory
	Address not listed in research source (1125)	Polk's City Directory
	Address not listed in research source (1132)	Polk's City Directory
	No address listings prior to 1500 Myrtle Walk	Polk's City Directory
1977	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1977	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	Street not listed in research source	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Address not listed in research source (966)	Polk's City Directory
	Address not listed in research source (971)	Polk's City Directory
	Address not listed in research source (978)	Polk's City Directory
	Address not listed in research source (980)	Polk's City Directory
	Address not listed in research source (988)	Polk's City Directory
	Address not listed in research source (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Address not listed in research source (1116)	Polk's City Directory
	Address not listed in research source (1120)	Polk's City Directory
	Address not listed in research source (1123)	Polk's City Directory
	Address not listed in research source (1125)	Polk's City Directory
	Address not listed in research source (1132)	Polk's City Directory
	No address listings prior to 1500 Myrtle Walk	Polk's City Directory
1982	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1982	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	Street not listed in research source	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Address not listed in research source (966)	Polk's City Directory
	Address not listed in research source (971)	Polk's City Directory
	Address not listed in research source (978)	Polk's City Directory
	Address not listed in research source (980)	Polk's City Directory
	Address not listed in research source (988)	Polk's City Directory
	Address not listed in research source (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Address not listed in research source (1116)	Polk's City Directory
	Address not listed in research source (1120)	Polk's City Directory
	Address not listed in research source (1123)	Polk's City Directory
	Address not listed in research source (1125)	Polk's City Directory
	Address not listed in research source (1132)	Polk's City Directory
	No address listings prior to 1500 Myrtle Walk	Polk's City Directory
1988	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory

Year	Uses	Source
1988	Address not listed in research source (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	No listings prior to 1500 Myrtle Walk	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Residence (966)	Polk's City Directory
	Vacant (971)	Polk's City Directory
	Residence (978)	Polk's City Directory
	Vacant (980)	Polk's City Directory
	Furniture Refurbishers (988)	Polk's City Directory
	Vacant (1102)	Polk's City Directory
	Address not listed in research source (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Residence (1116)	Polk's City Directory
	Residence (1120)	Polk's City Directory
	Residence (1123)	Polk's City Directory
	Residence (1125)	Polk's City Directory
	American Legion Post (1132)	Polk's City Directory
1993	** MYRTLE WALK **	Polk's City Directory
	Address not listed in research source (1222)	Polk's City Directory
	Address not listed in research source (1225)	Polk's City Directory
	Address not listed in research source (1227)	Polk's City Directory
	Address not listed in research source (1336 1/2)	Polk's City Directory
	Address not listed in research source (1341)	Polk's City Directory

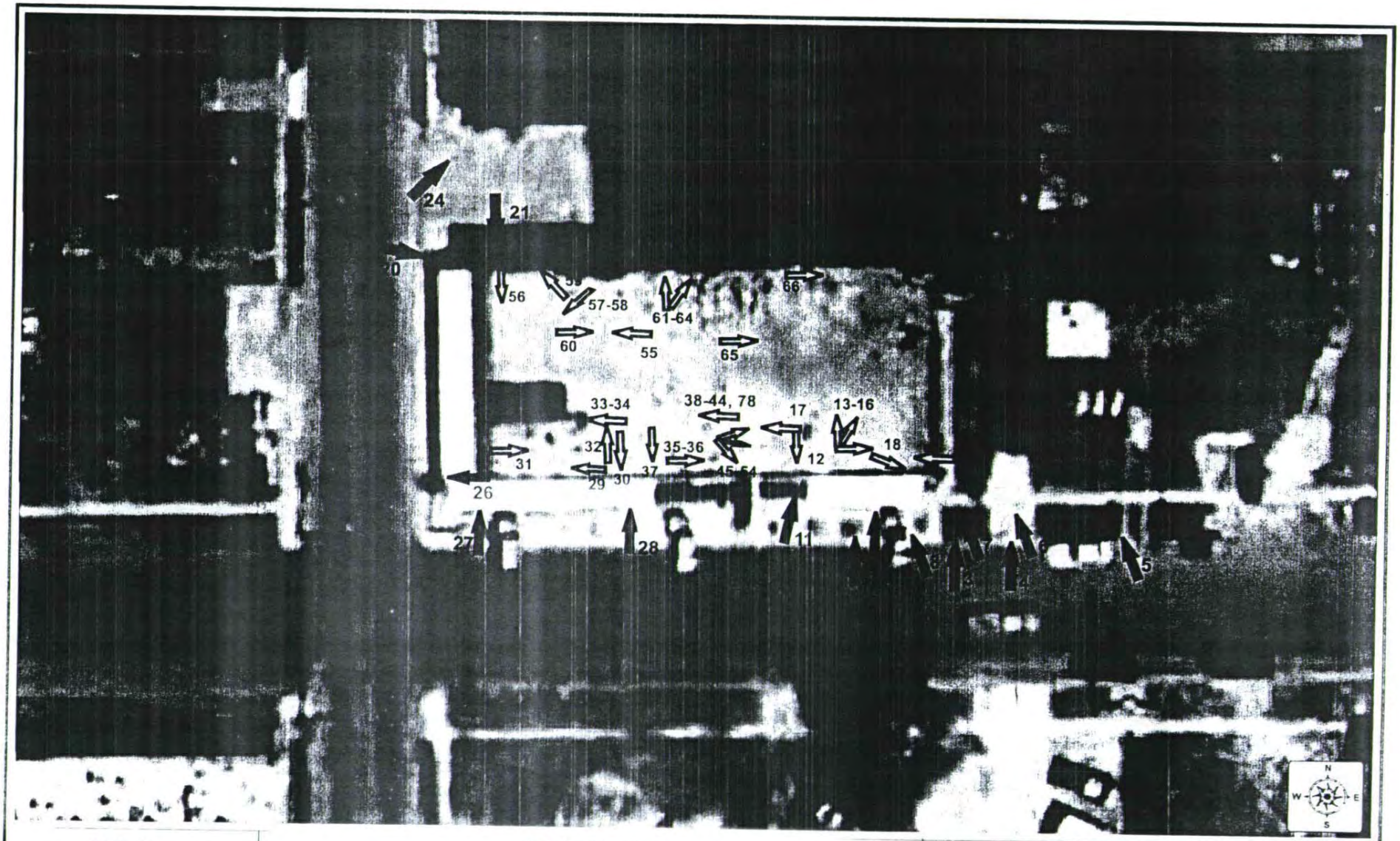
Year	Uses	Source
1993	Address not listed in research source (1343)	Polk's City Directory
	Address not listed in research source (1445)	Polk's City Directory
	No listings prior to 1500 Myrtle Walk	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Residence (966)	Polk's City Directory
	Vacant (971)	Polk's City Directory
	Residence (978)	Polk's City Directory
	Not Verified (980)	Polk's City Directory
	Vacant (1102)	Polk's City Directory
	Not Verified (1105)	Polk's City Directory
	Address not listed in research source (1115)	Polk's City Directory
	Vacant (1116)	Polk's City Directory
	Residence (1123)	Polk's City Directory
	Vacant (1125)	Polk's City Directory
	American Legion Post (1132)	Polk's City Directory
1998	** MYRTLE WALK **	Polk's City Directory
	Residence (1222)	Polk's City Directory
	Not Verified (1225)	Polk's City Directory
	Residence (1227)	Polk's City Directory
	Not Verified (1336 1/2)	Polk's City Directory
	Residence (1341)	Polk's City Directory
	Address not listed in research source (1343)	Polk's City Directory
	Residence (1445)	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory

Year	Uses	Source
1998	Residence (966)	Polk's City Directory
	Residence (978)	Polk's City Directory
	Residence (1115)	Polk's City Directory
	American Legion Post (1132)	Polk's City Directory
2003	** MYRTLE WALK **	Polk's City Directory
	No current listing (1222)	Polk's City Directory
	Residence (1225)	Polk's City Directory
	Residence (1227)	Polk's City Directory
	No current listing (1336 1/2)	Polk's City Directory
	Residence (1341)	Polk's City Directory
	Residence (1343)	Polk's City Directory
	Residence (1445)	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory
	Residence (966)	Polk's City Directory
	Residence (978)	Polk's City Directory
	American Legion (1132)	Polk's City Directory
2008	** MYRTLE WALK **	Polk's City Directory
	No current listing (1222)	Polk's City Directory
	Residence (1225)	Polk's City Directory
	Residence (1227)	Polk's City Directory
	No current listing (1341)	Polk's City Directory
	Residence (1343)	Polk's City Directory
	Residence (1445)	Polk's City Directory
	** EDDIE ROBINSON ST HWY DR **	Polk's City Directory

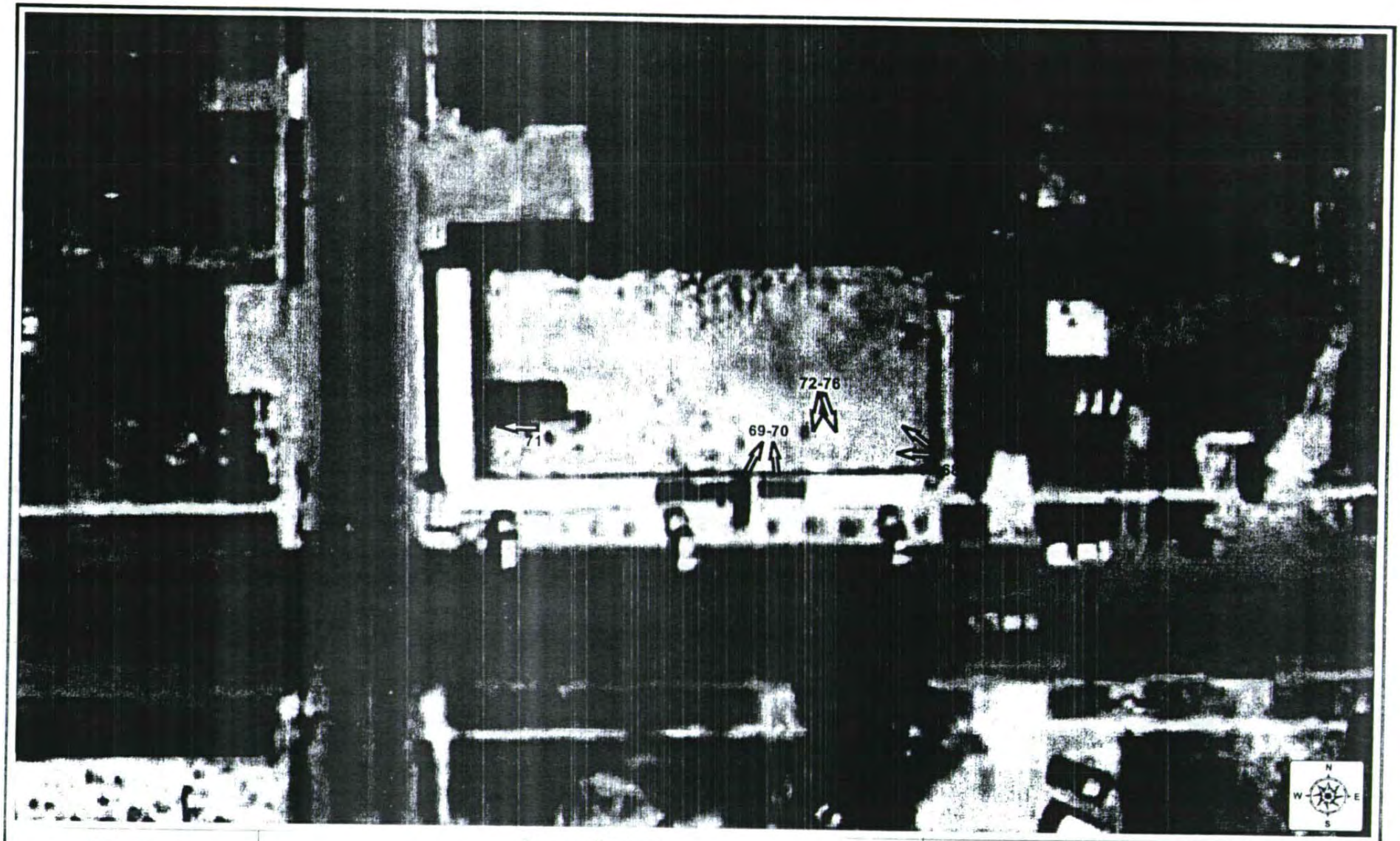
Year	Uses	Source
2008	Residence (966)	Polk's City Directory
	American Legion (1132)	Polk's City Directory

APPENDIX G

PHOTO LOCATION MAP
&
SITE PHOTOGRAPHS



MEL, Inc. Map Source: Google Earth Date: January 2009	Appendix G-1 Lincoln Theater Photo Location Map **Legend:** **Exterior of Building** **Interior of Building (1st Floor)**	Quaternary Resource Investigations, L.L.C. The Company that Helps put *"Government & Industry in Harmony with the Environment"* 13588 Florida Boulevard, Baton Rouge, LA 70819, Phone: (225) 292-1400, Fax: (225) 292-1404, Web Site: http://www.qrl.com 3809 Camino Dr, Plano, TX 75074, Phone: (972) 979-0847 17041 El Camino Real, Suite 200, Houston, TX 77058, Phone: (281) 286-4603, Fax: (281) 286-4604, Toll Free # (800) 589-5378

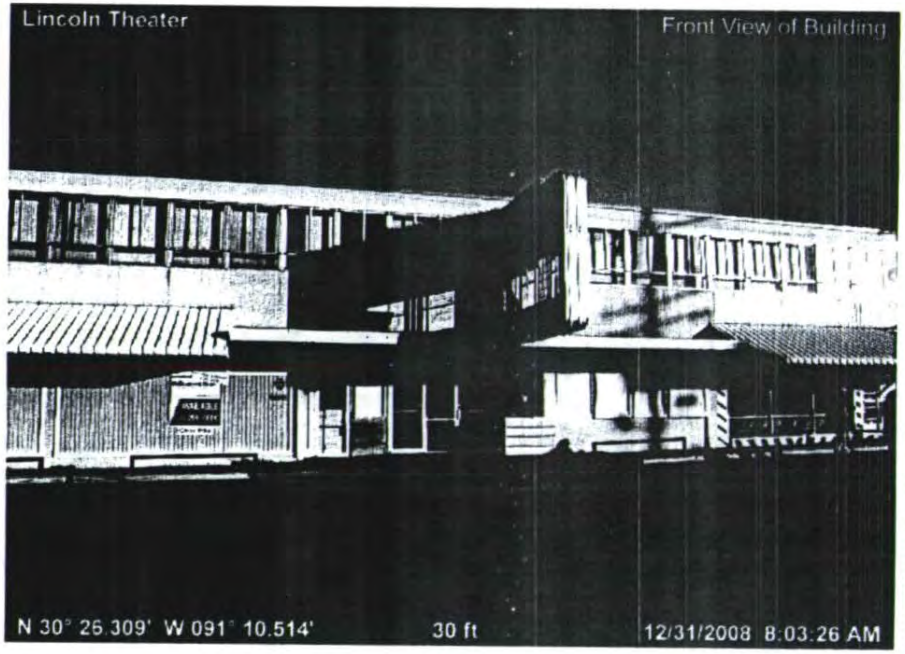


MEL, Inc. Map Source: Google Earth Date: January 2009	Appendix G-2 Lincoln Theater Photo Location Map **Legend:** **Exterior of Building** **Interior of Building (2nd Floor)**	Quaternary Resource Investigations, L.L.C. The Company that Helps put *"Government & Industry in Harmony with the Environment"* 13588 Florida Boulevard, Baton Rouge, LA 70819, Phone: (225) 292-1400, Fax: (225) 292-1404, Web Site: http://www.qrl.com 3809 Camino Dr, Plano, TX 75074, Phone: (972) 979-0847 17041 El Camino Real, Suite 200, Houston, TX 77058, Phone: (281) 286-4603, Fax: (281) 286-4604, Toll Free # (866) 889-6379

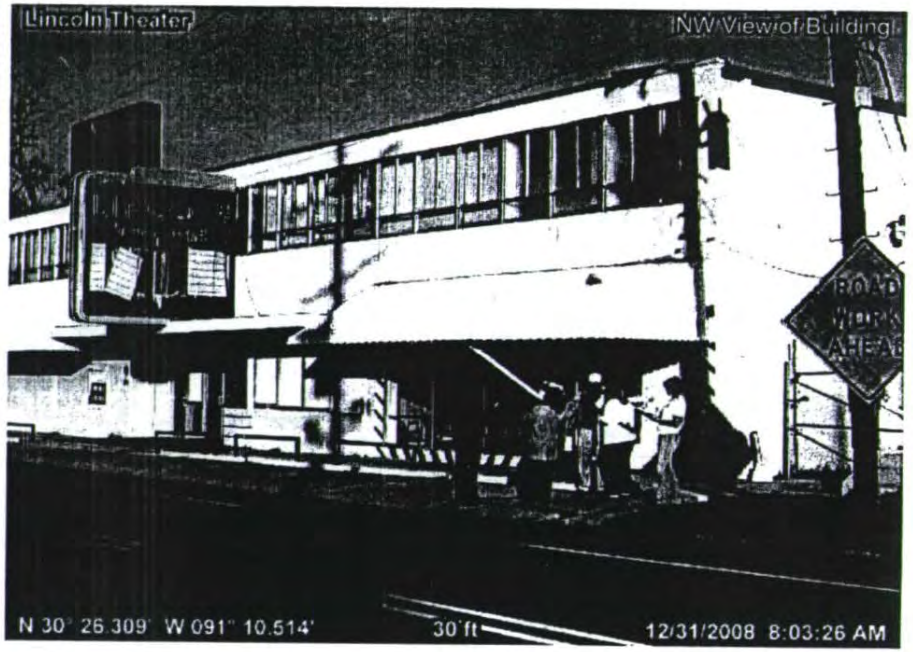
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 1



PICTURE 2



Quaternary Resource Investigations, L.L.C.

The Company that Helps put

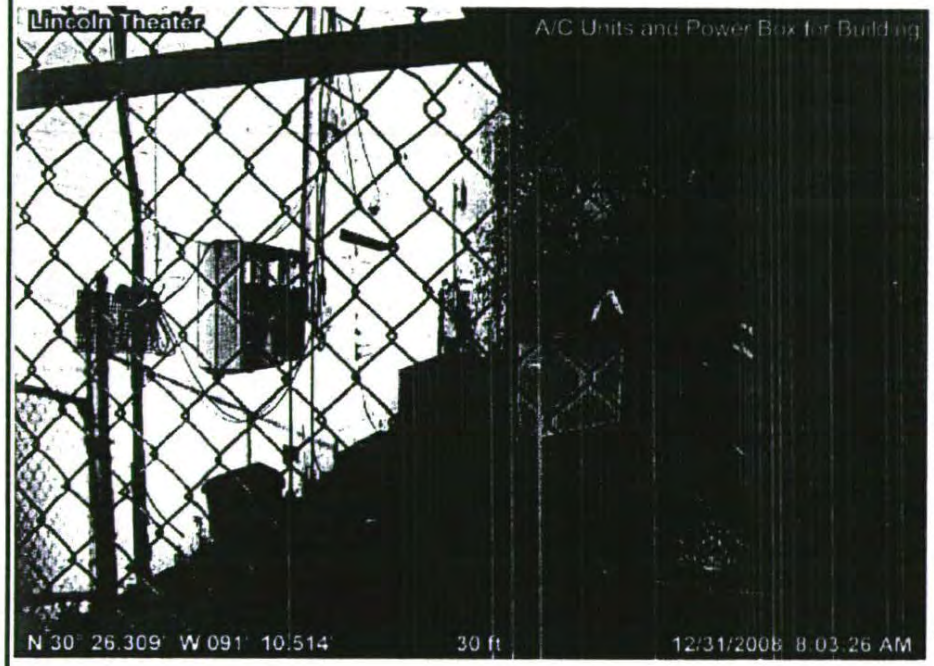
"Government & Industry in Harmony with the Environment"

See Photo Location Map for Photo Location and Orientation

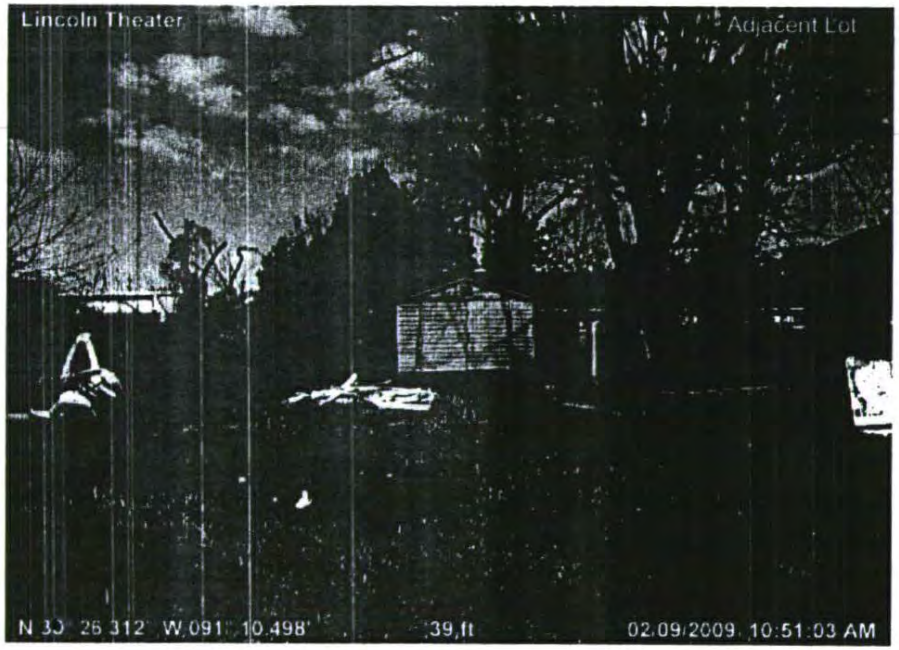
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 3



PICTURE 4



Quaternary Resource Investigations, L.L.C.

The Company that Helps put

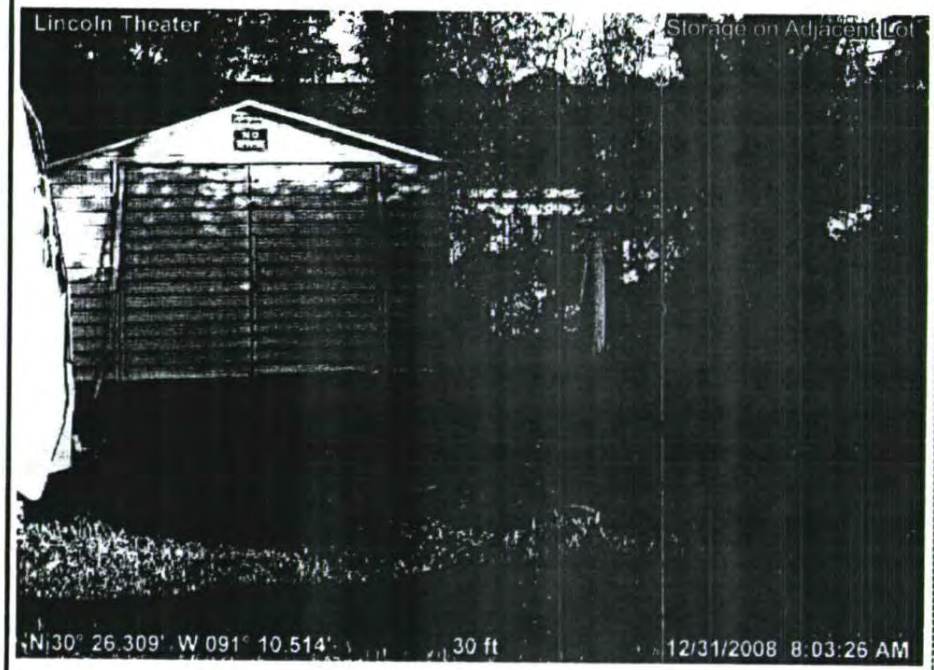
"Government & Industry in Harmony with the Environment"

See Photo Location Map for Photo Location and Orientation

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 5



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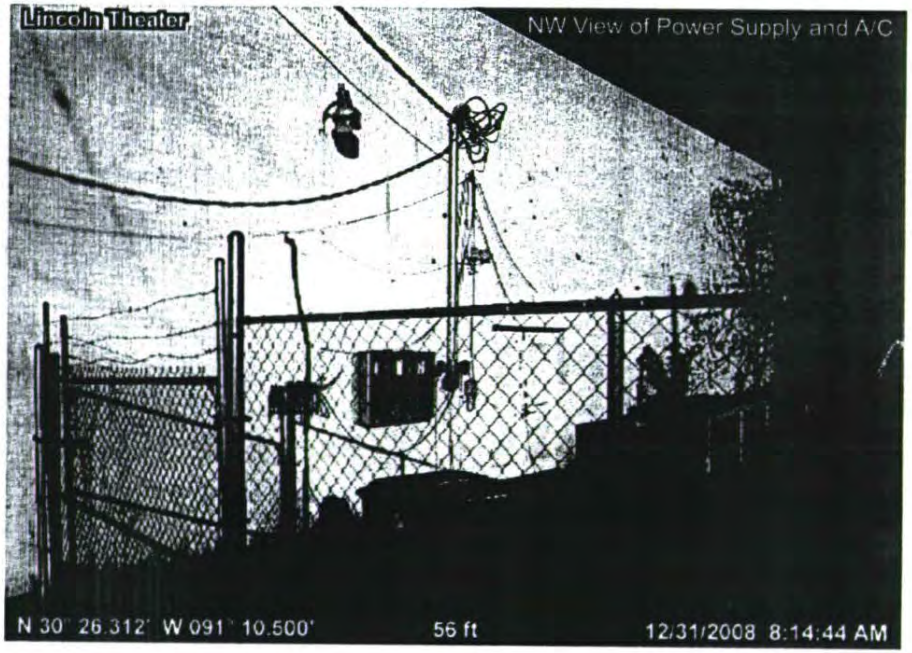

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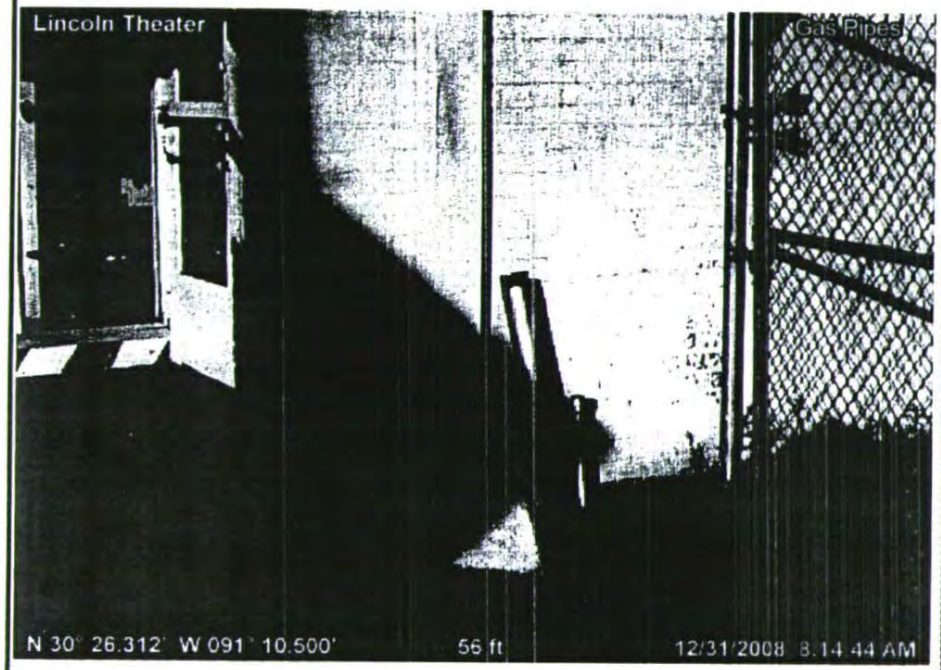
PICTURE 7



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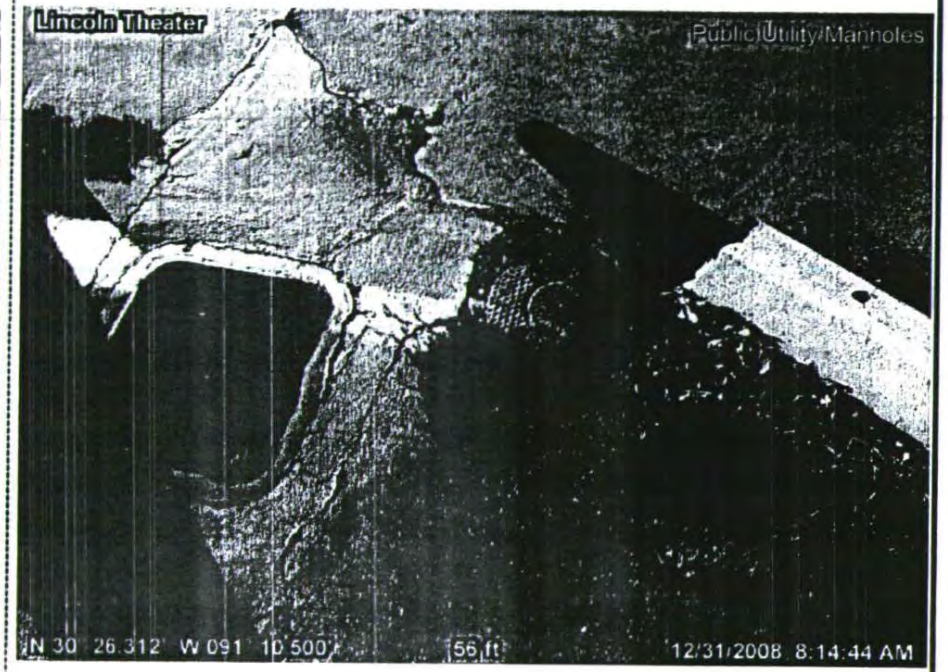

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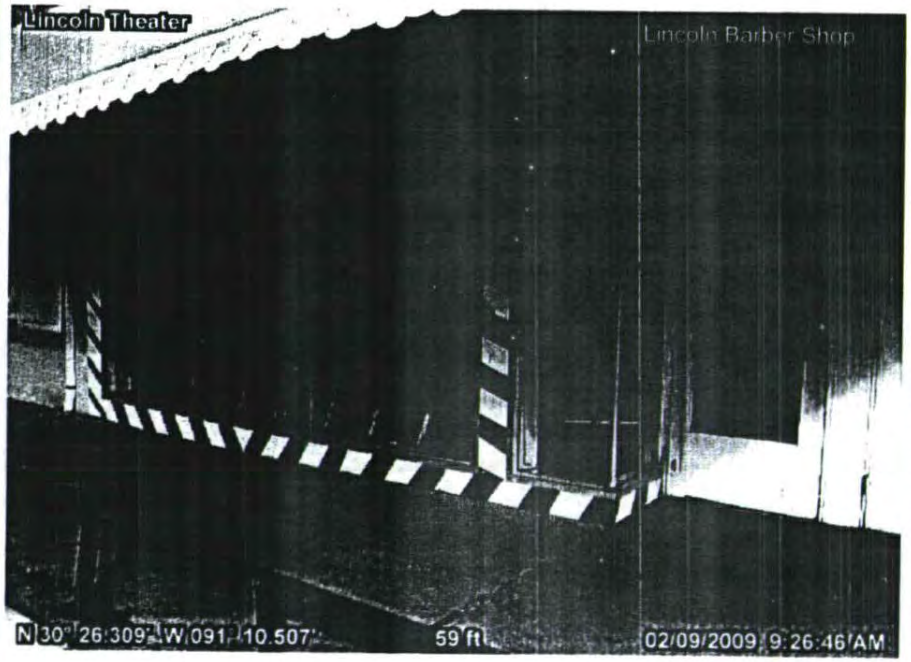
PICTURE 9



PICTURE 10

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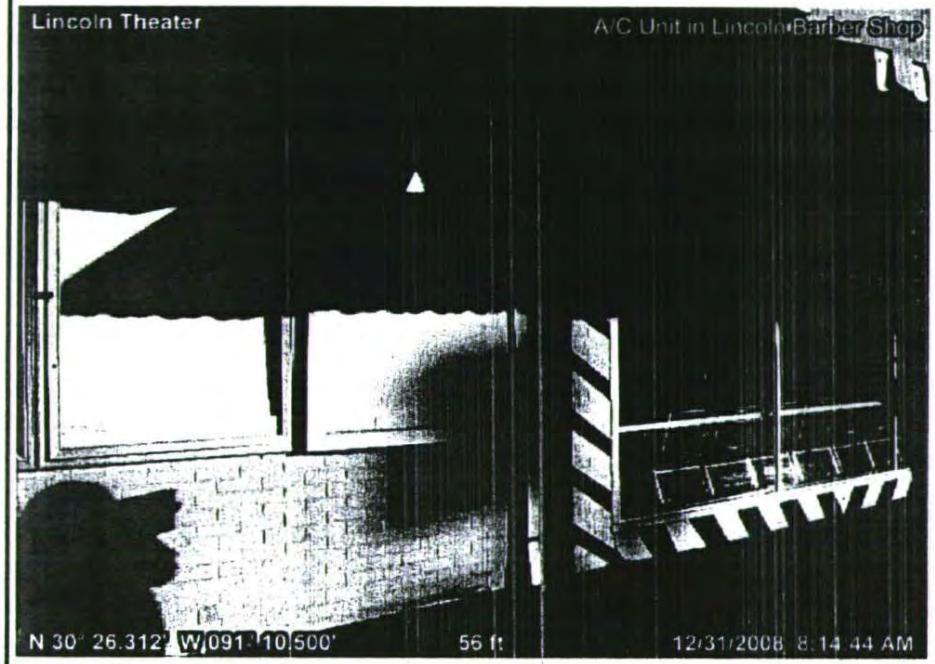
PICTURE 11



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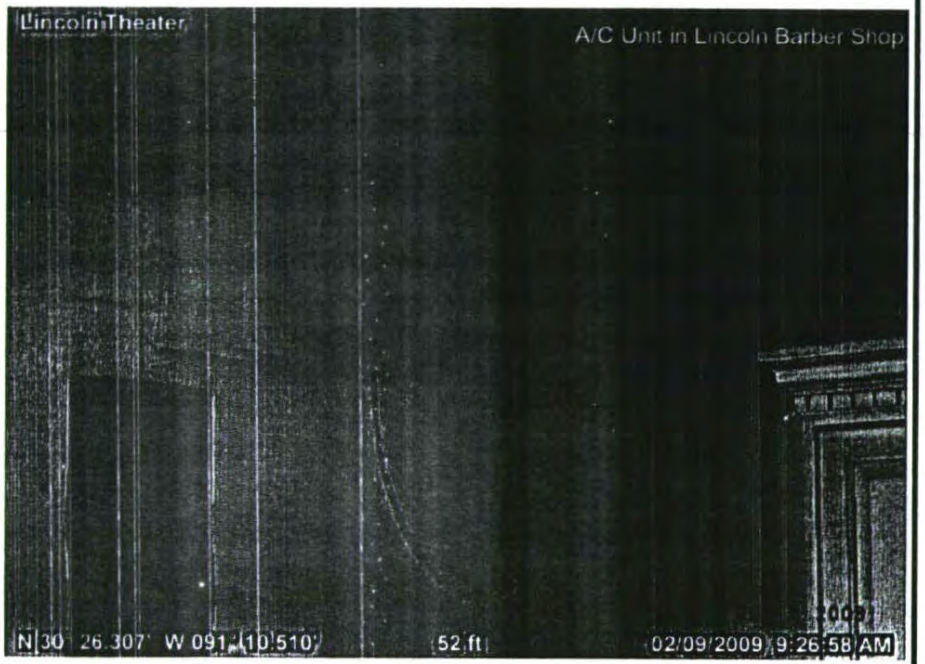

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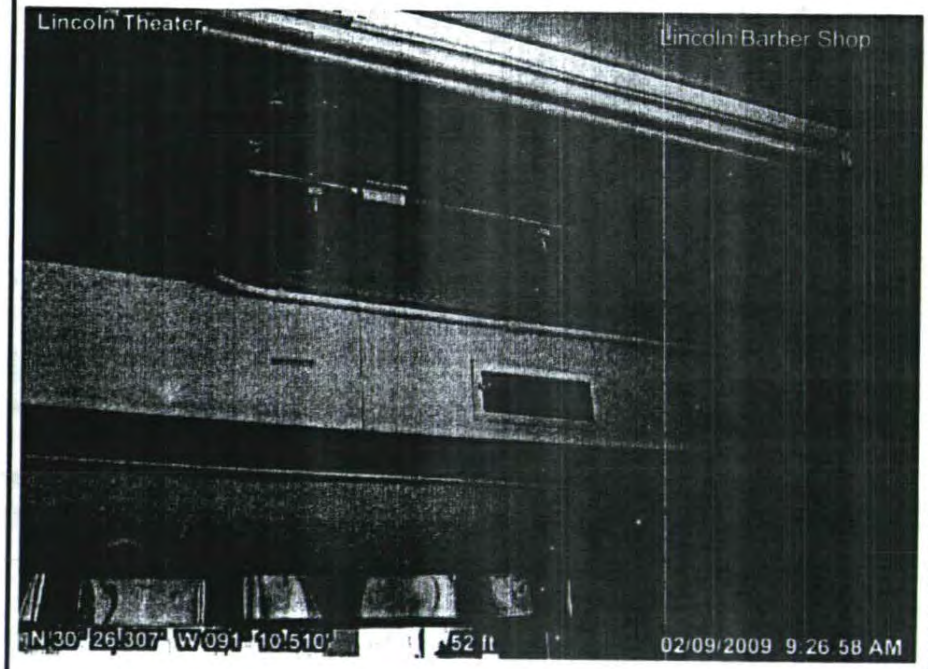
PICTURE 13



PICTURE 14

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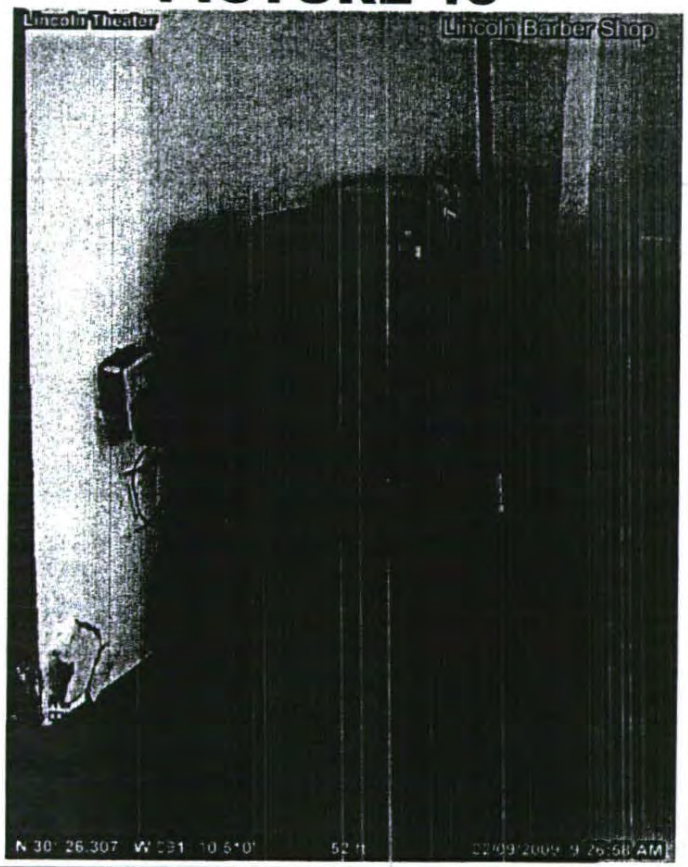
PICTURE 15



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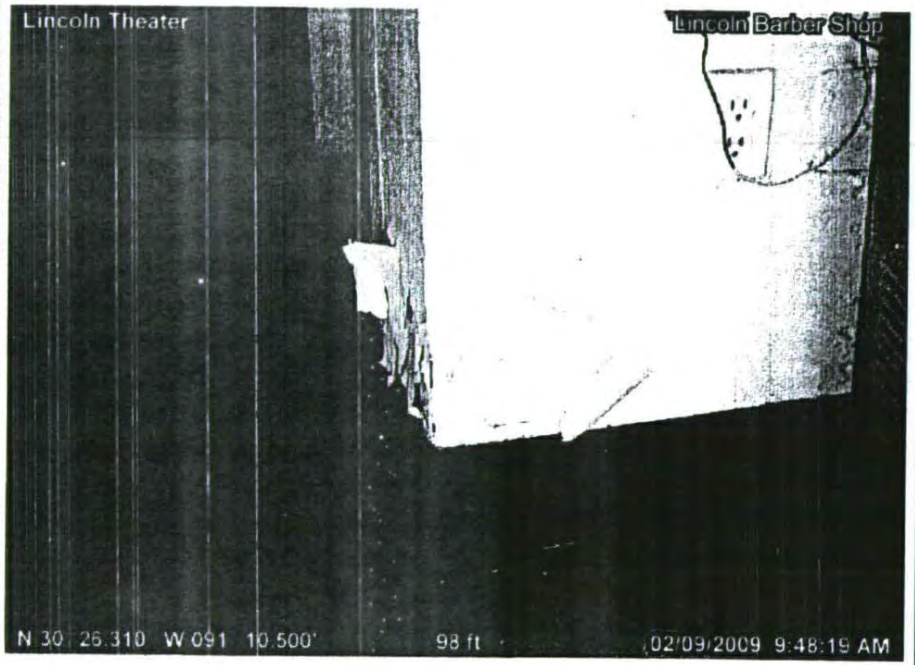

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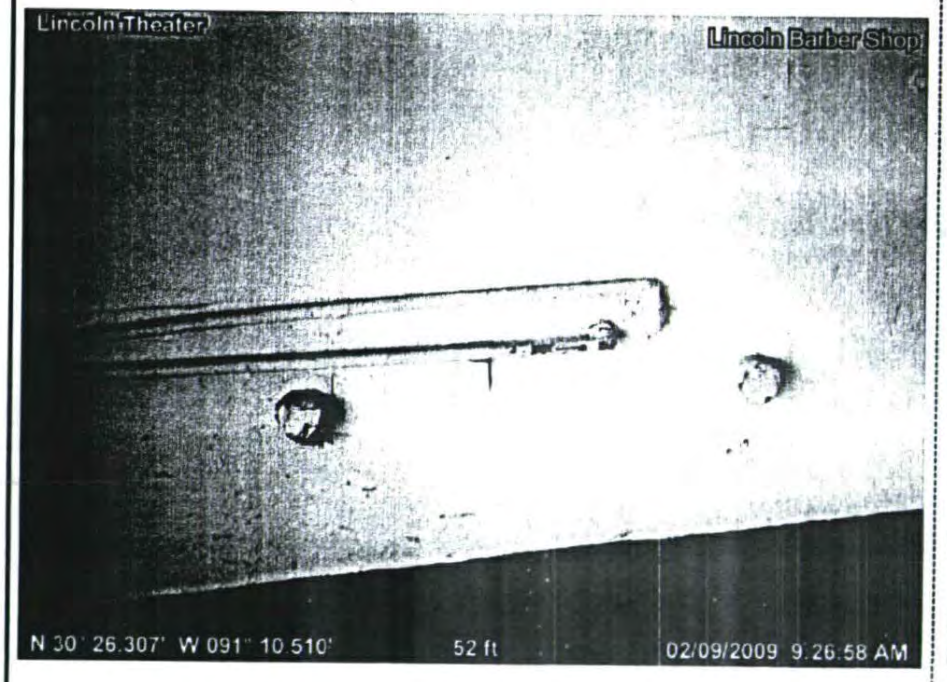
PICTURE 17



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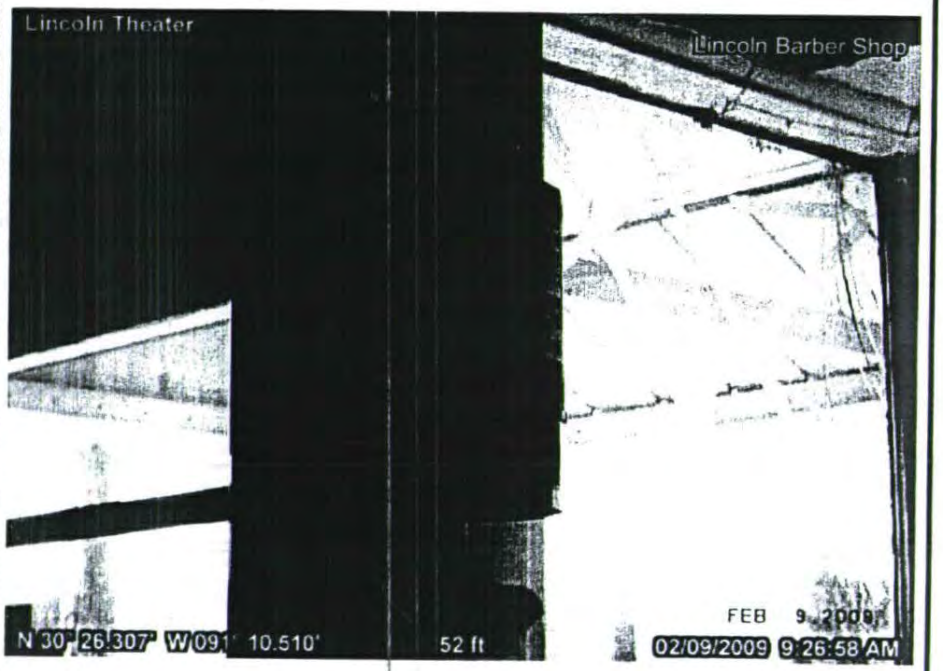

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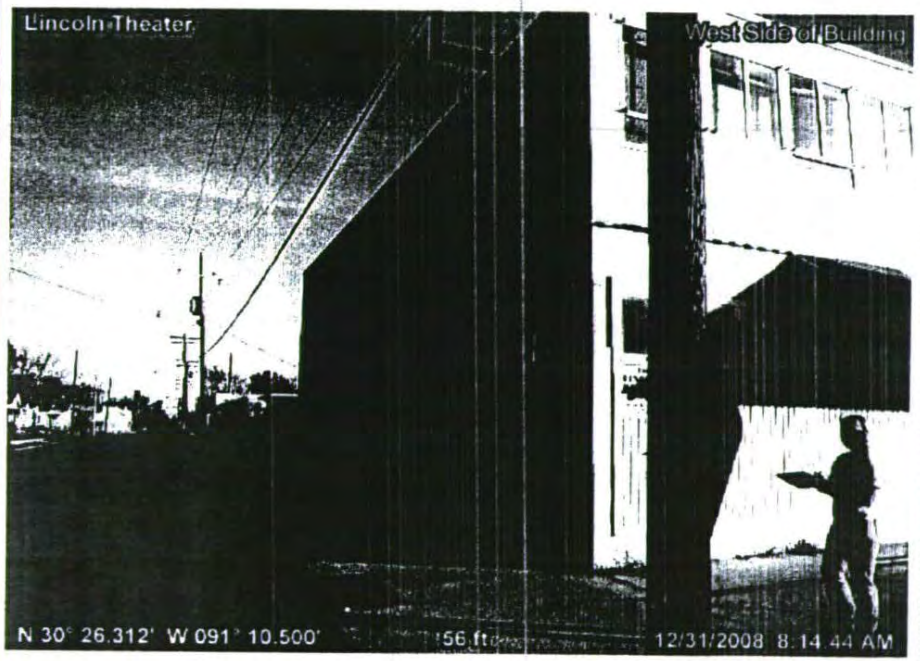
PICTURE 19



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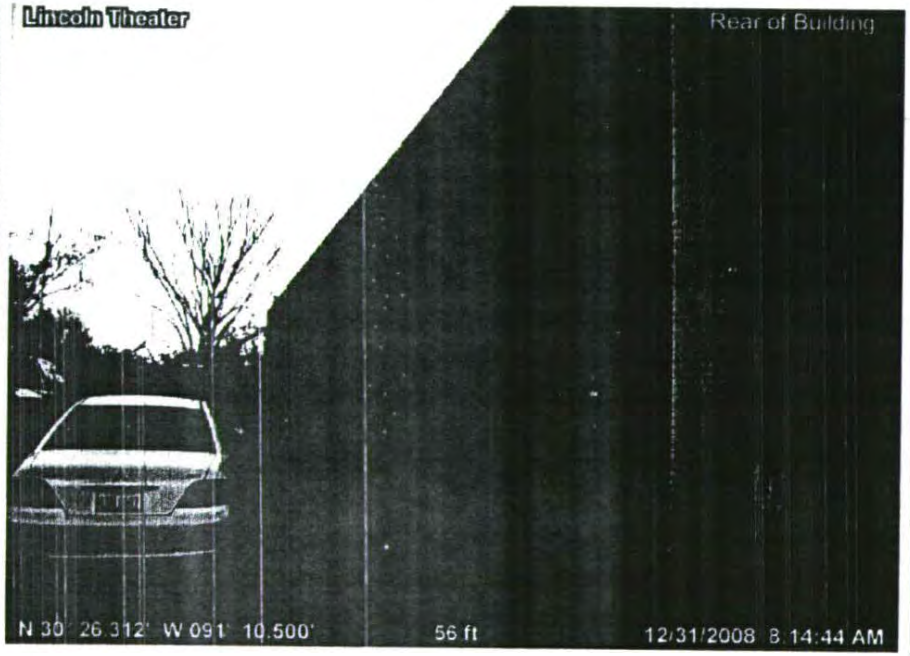

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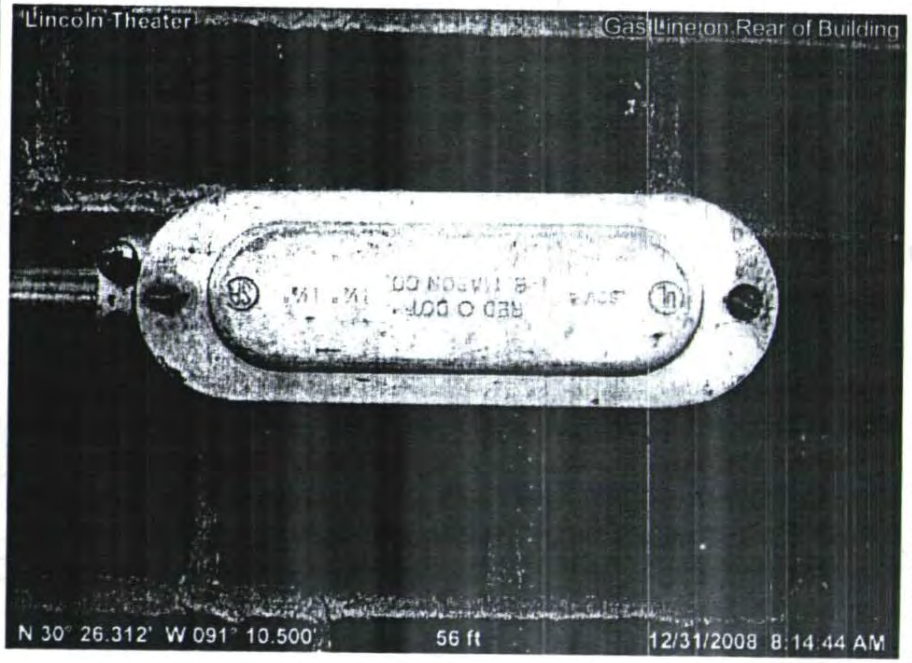
PICTURE 21



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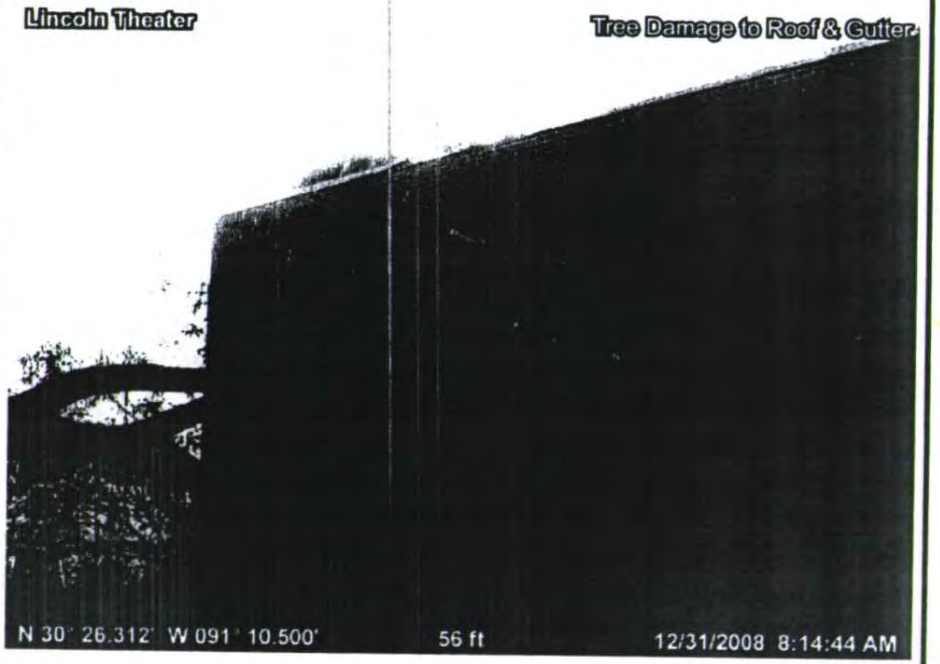

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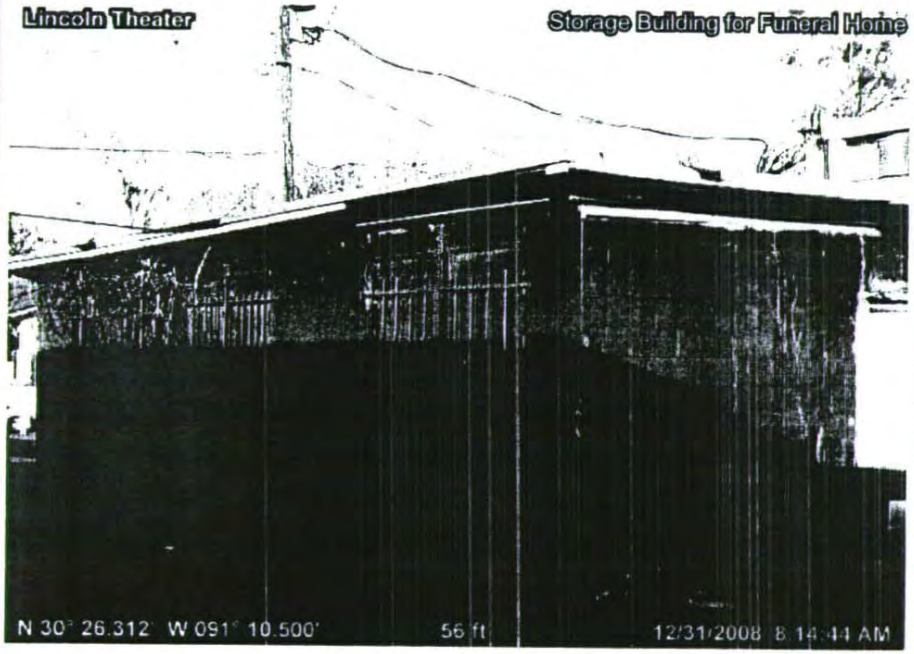
PICTURE 23



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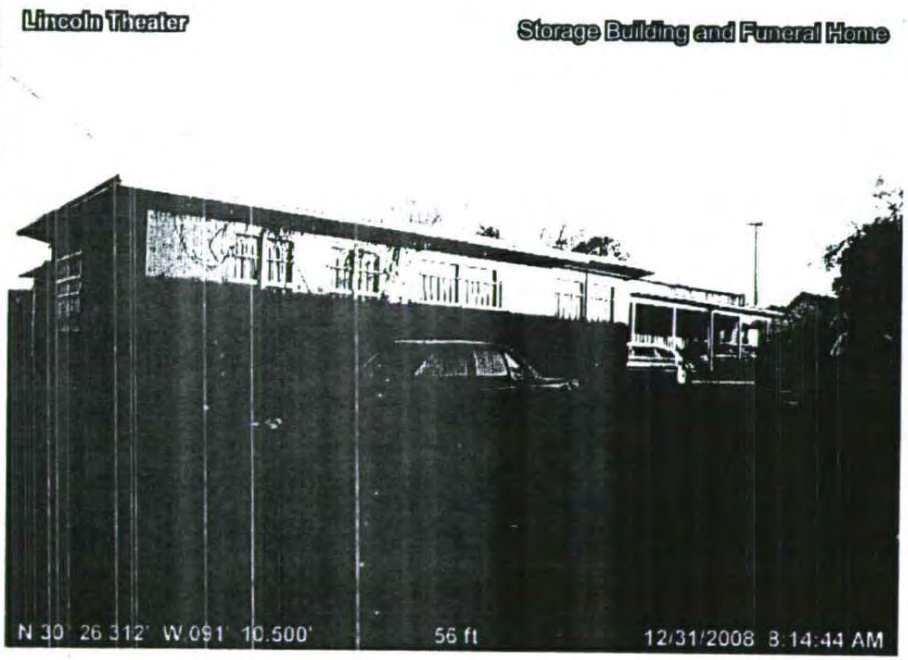

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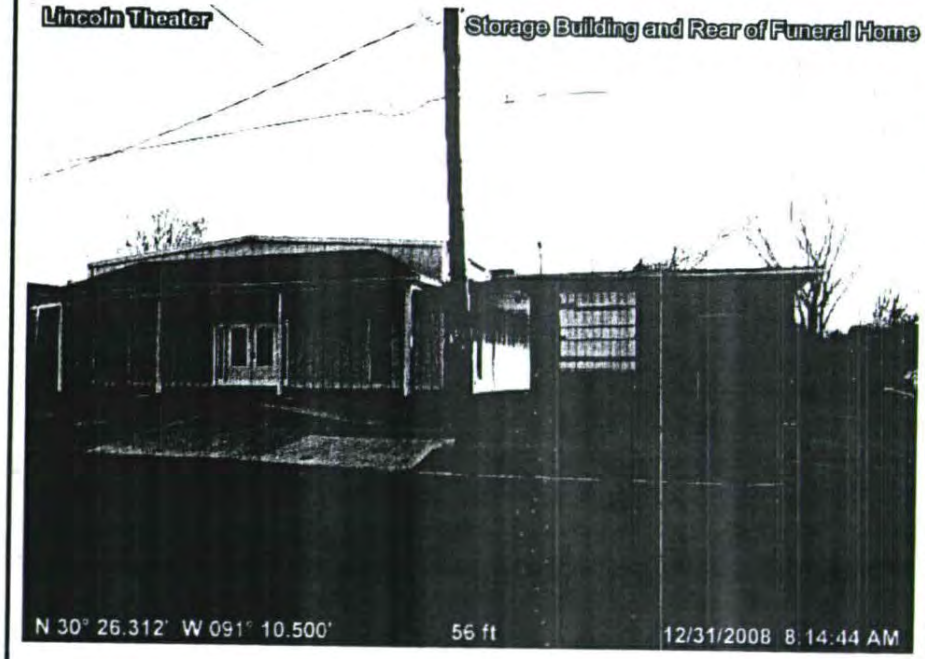
PICTURE 25



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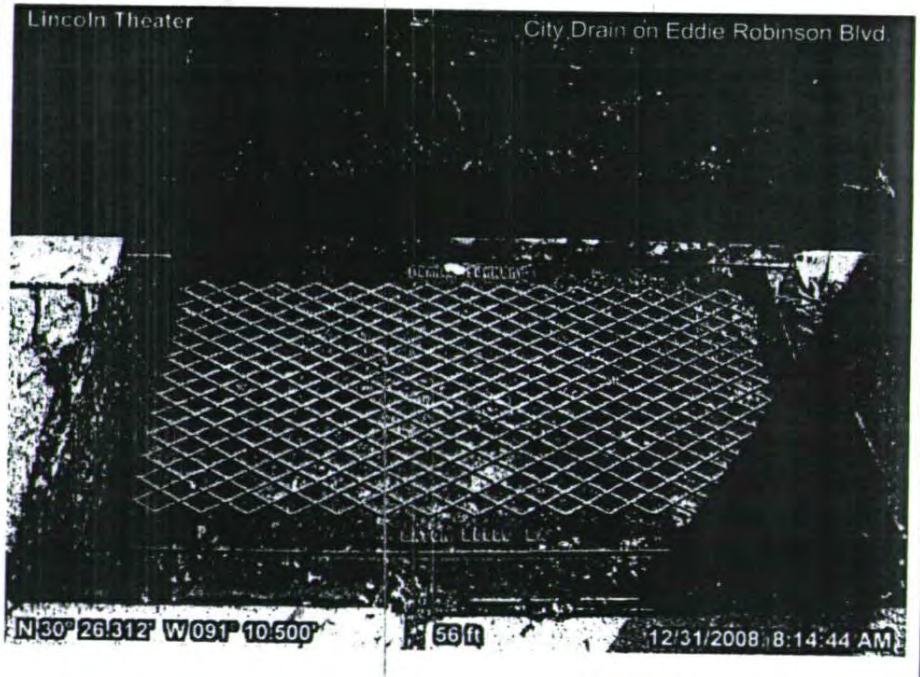

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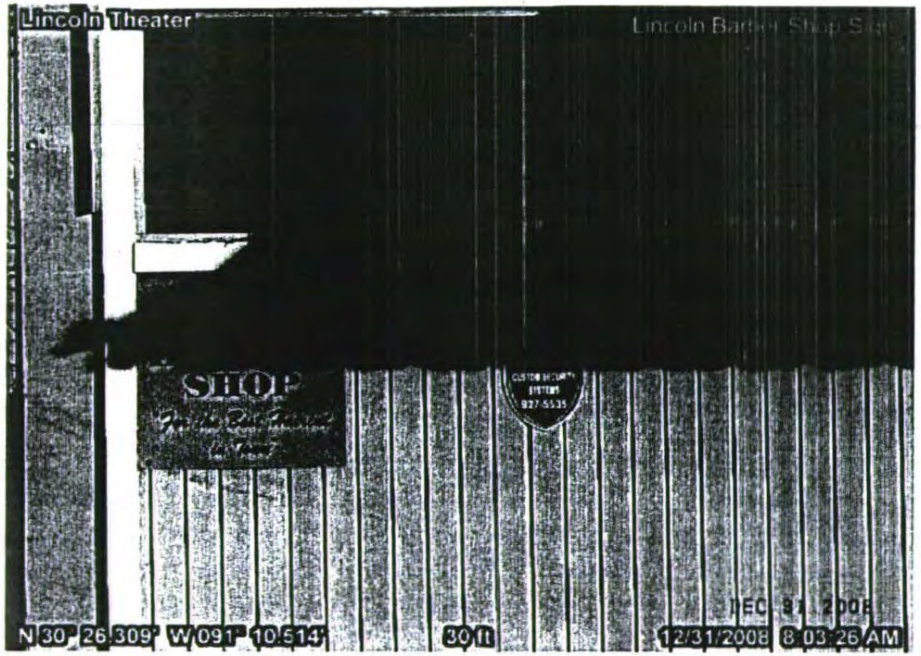
PICTURE 27



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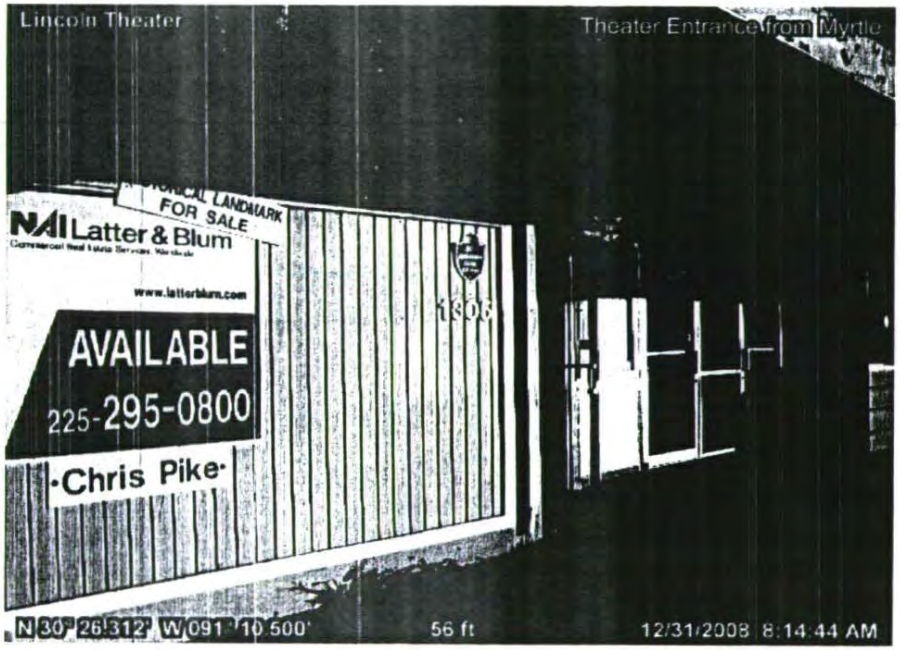

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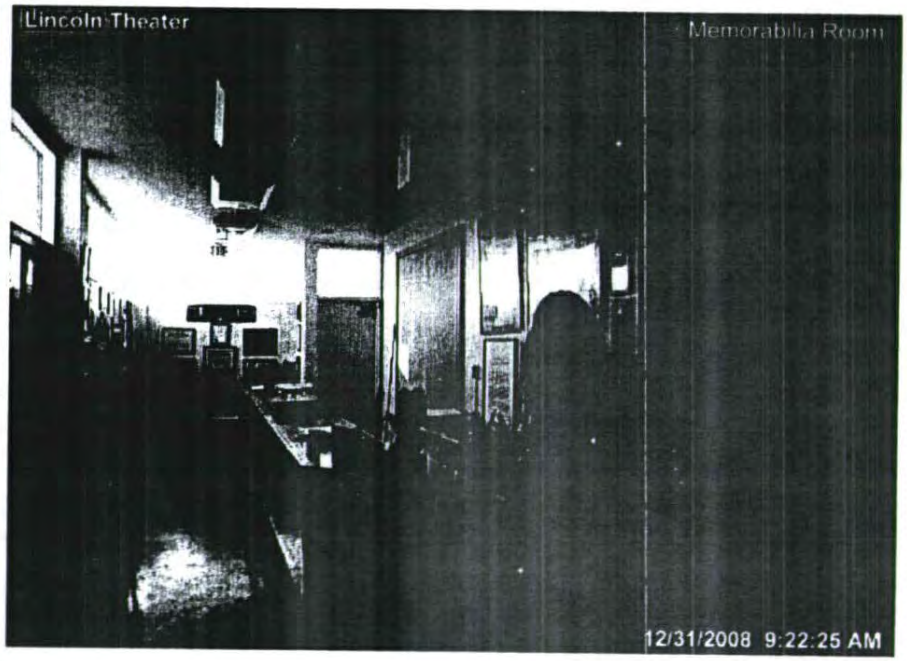
PICTURE 29



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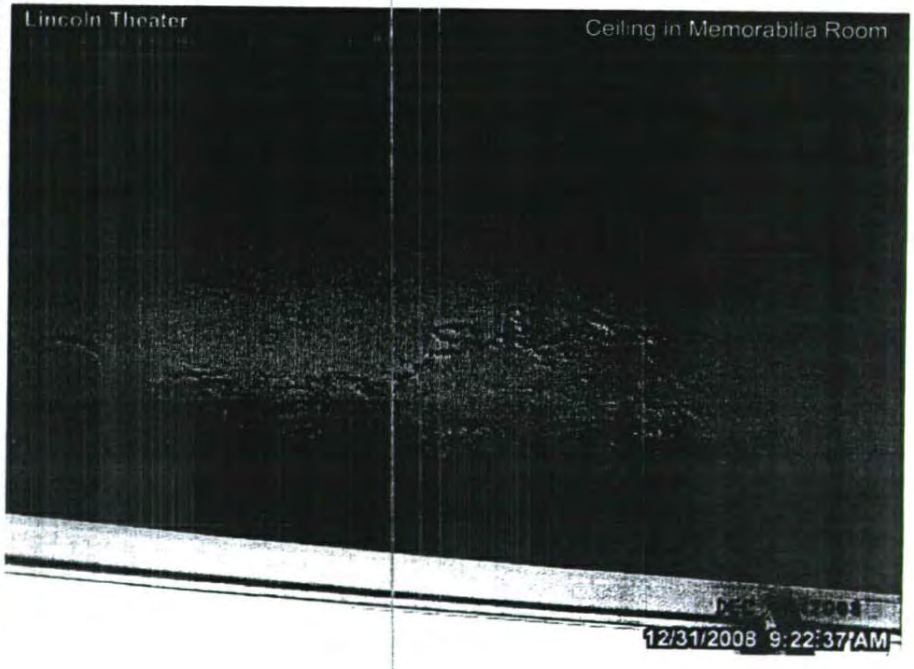

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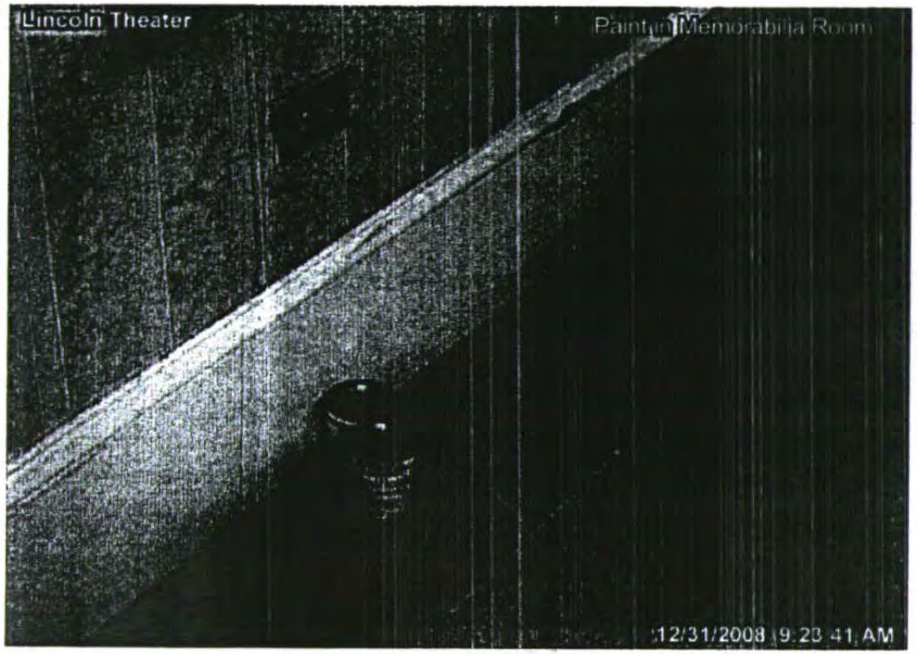
PICTURE 31



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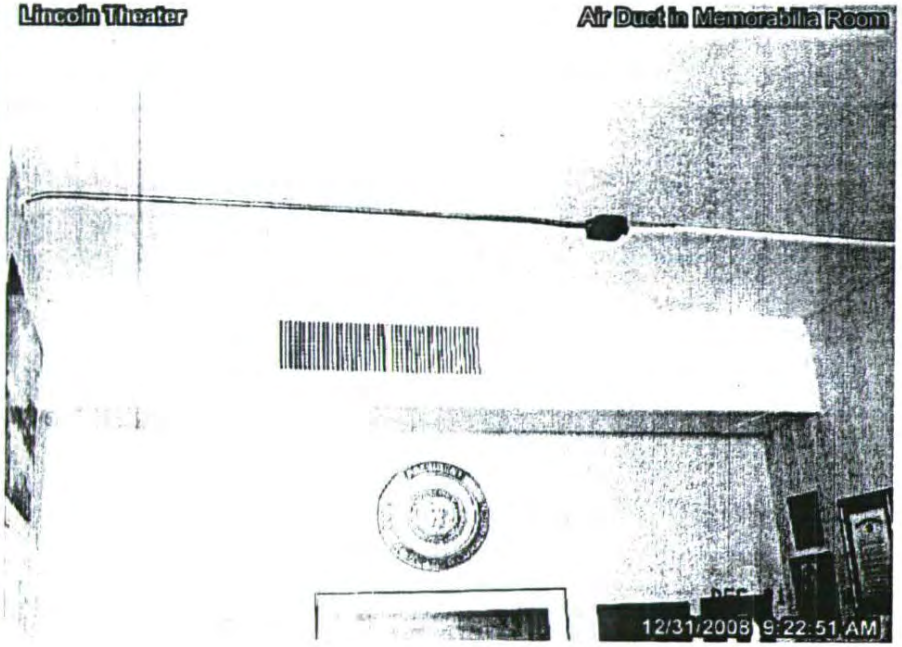

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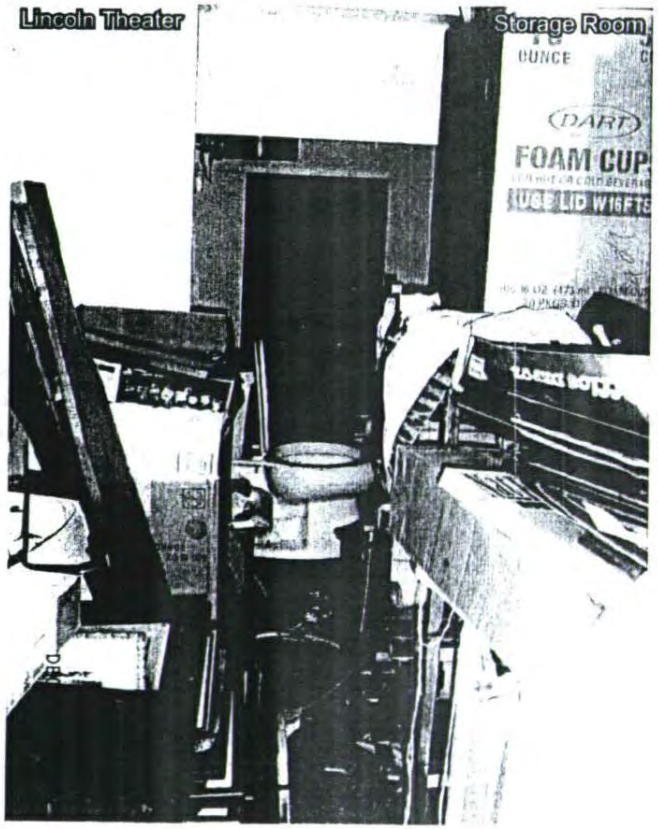
PICTURE 33



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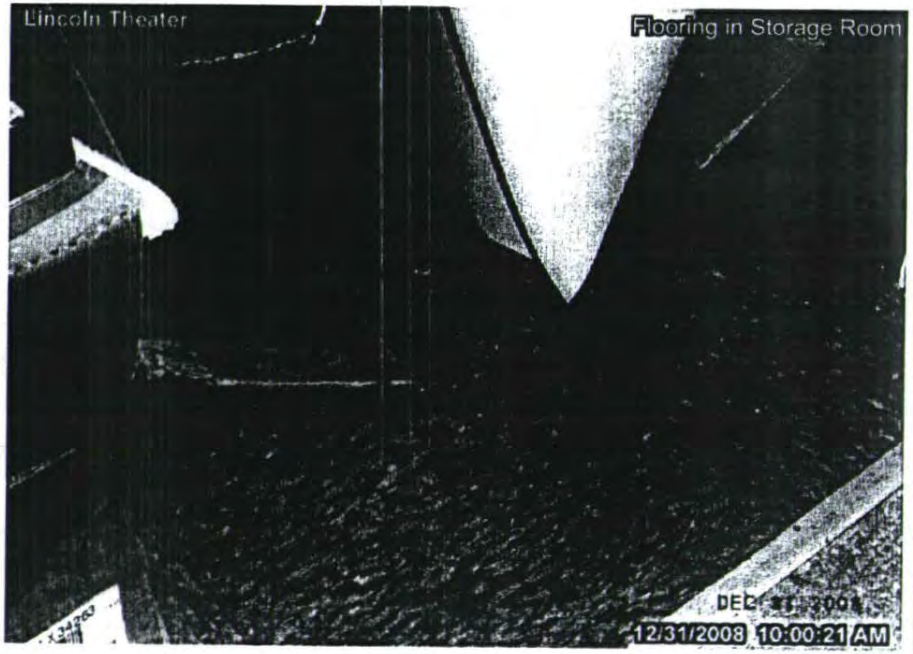

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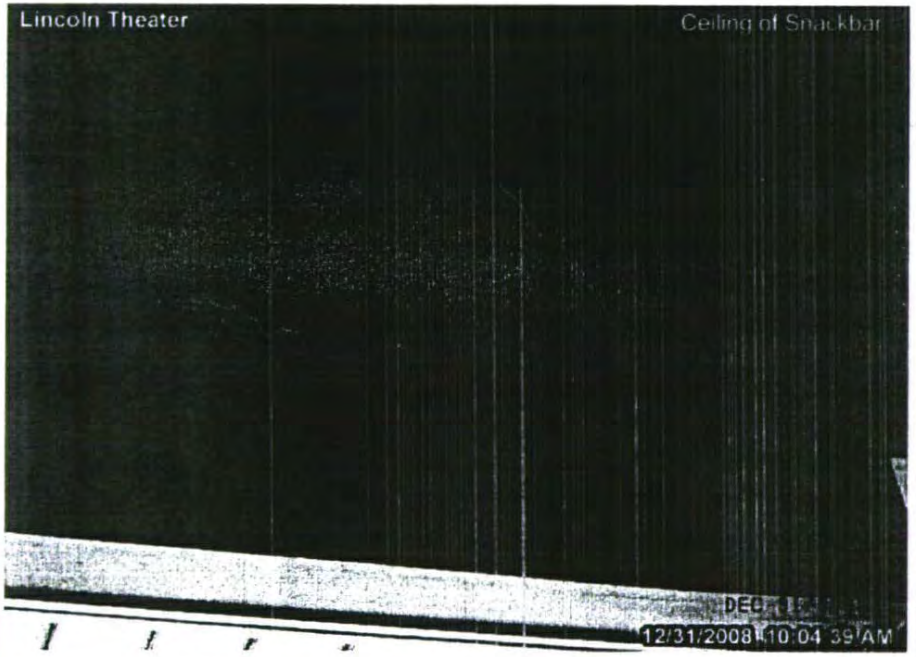
PICTURE 35



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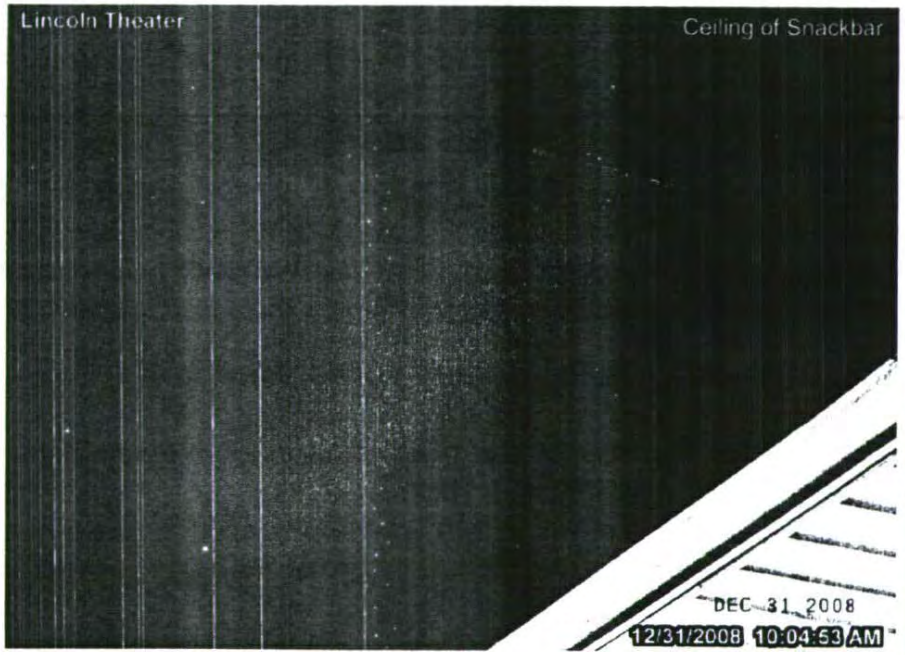

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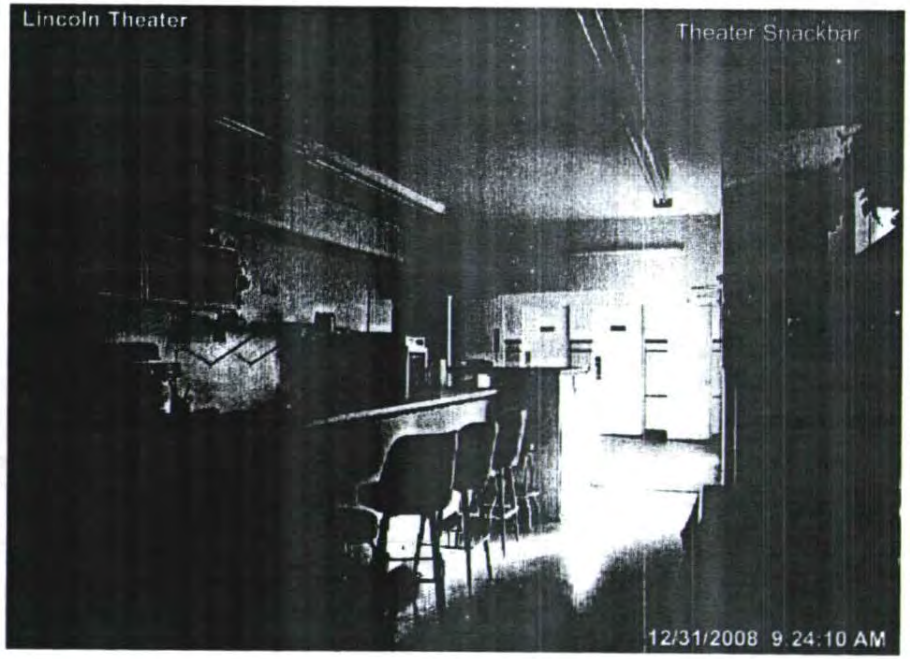
PICTURE 37



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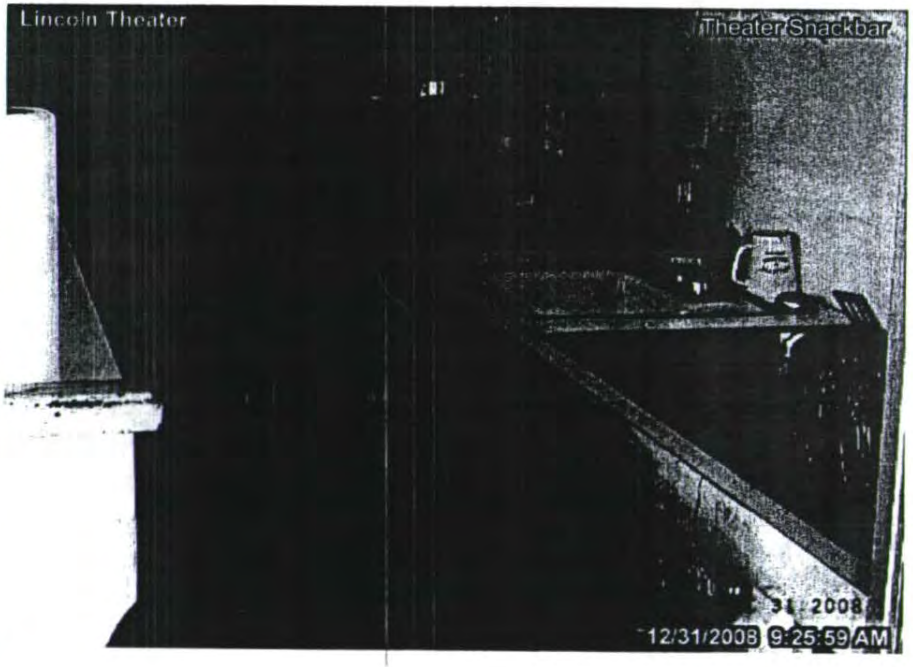

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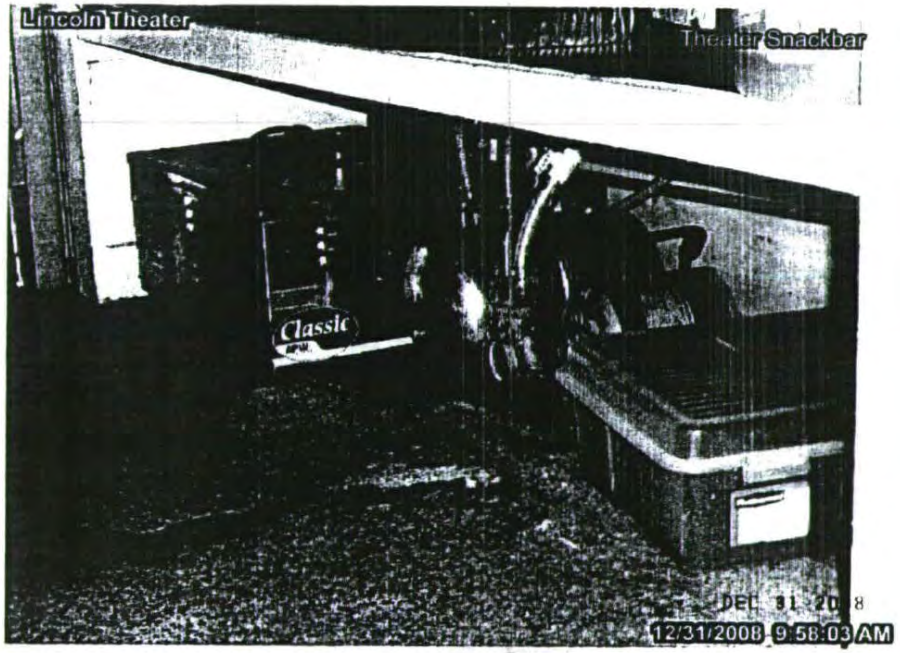
PICTURE 39



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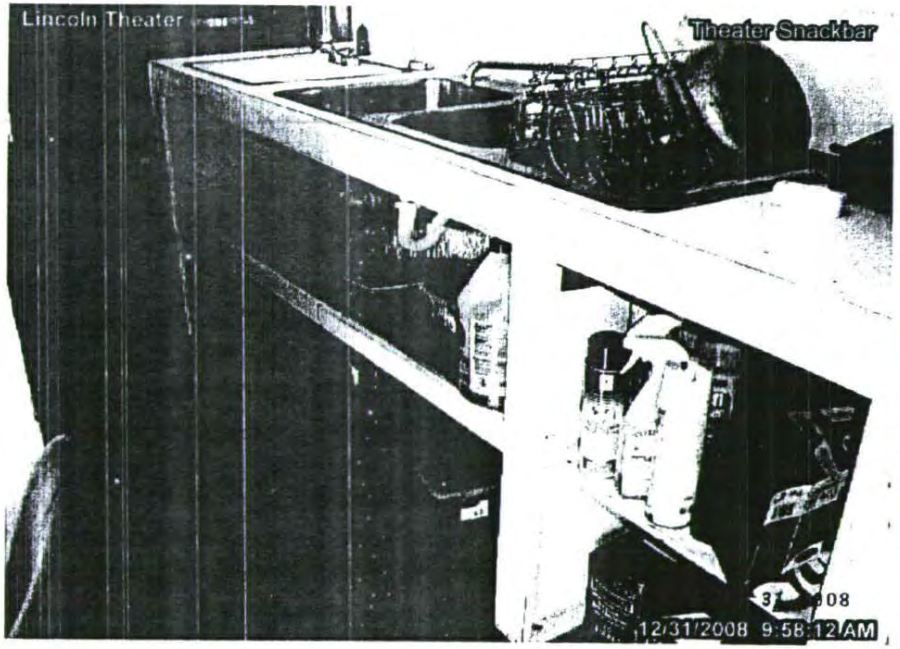

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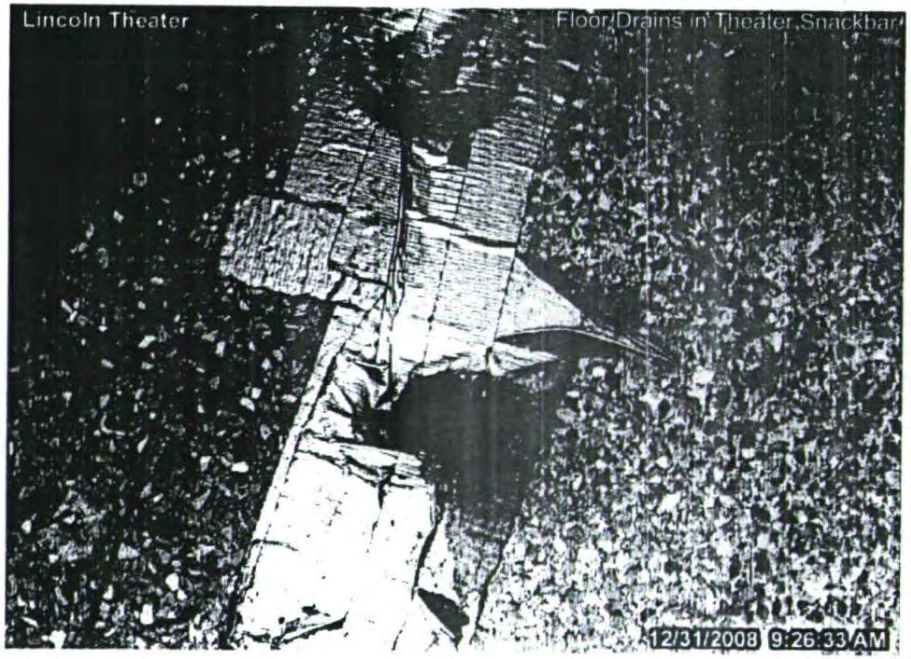
PICTURE 41



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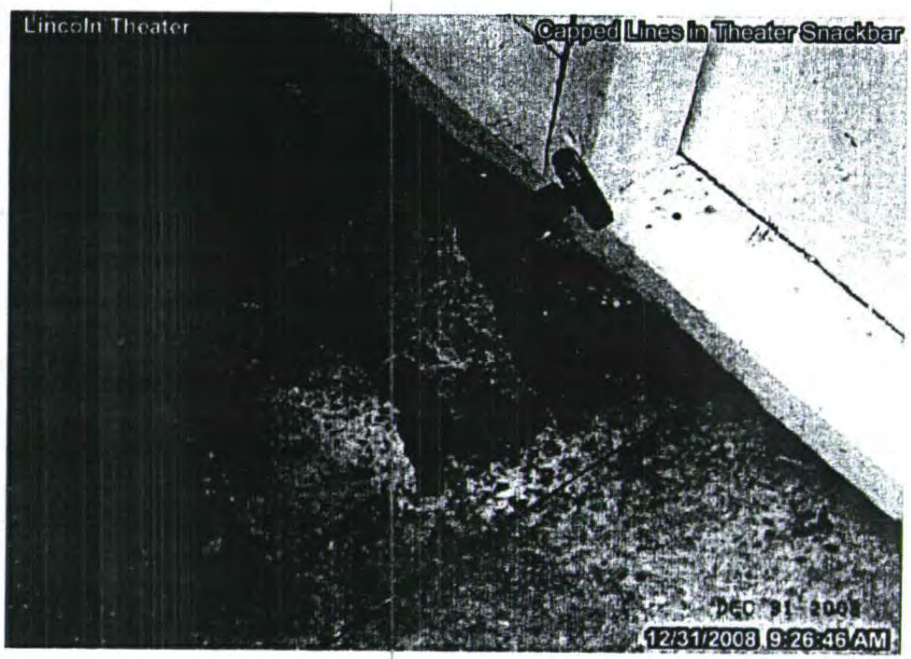

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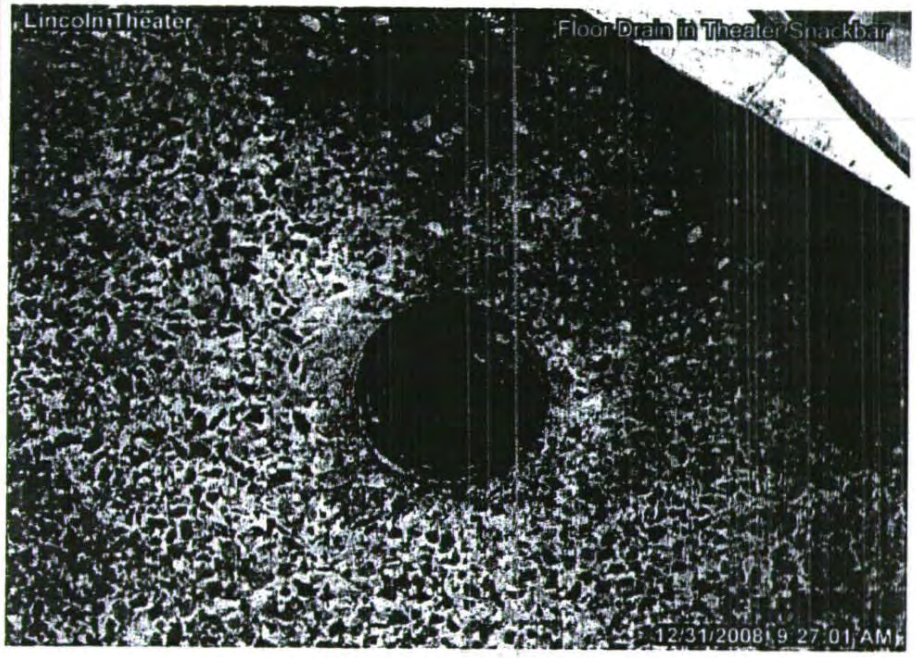
PICTURE 43



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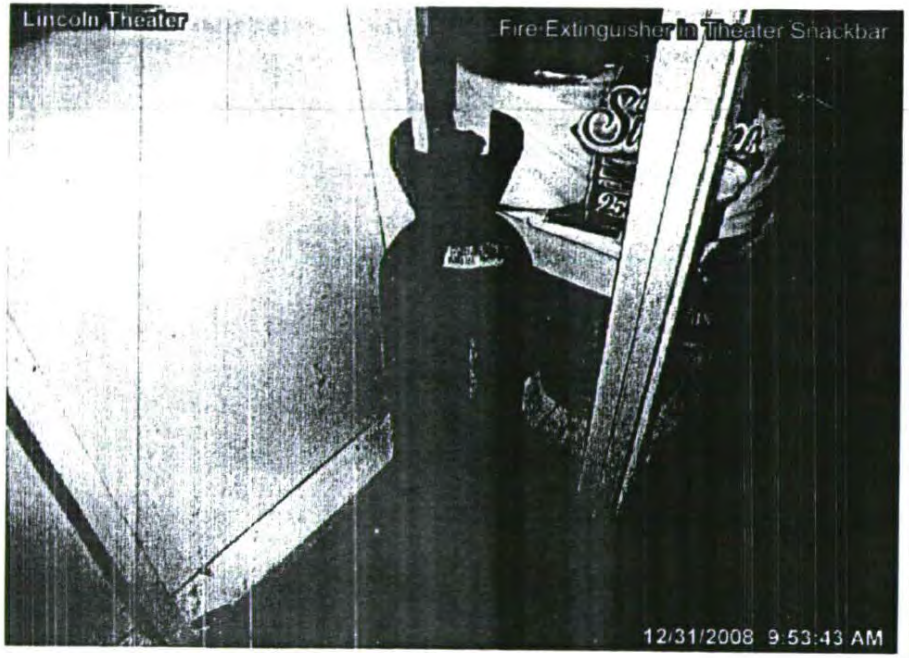

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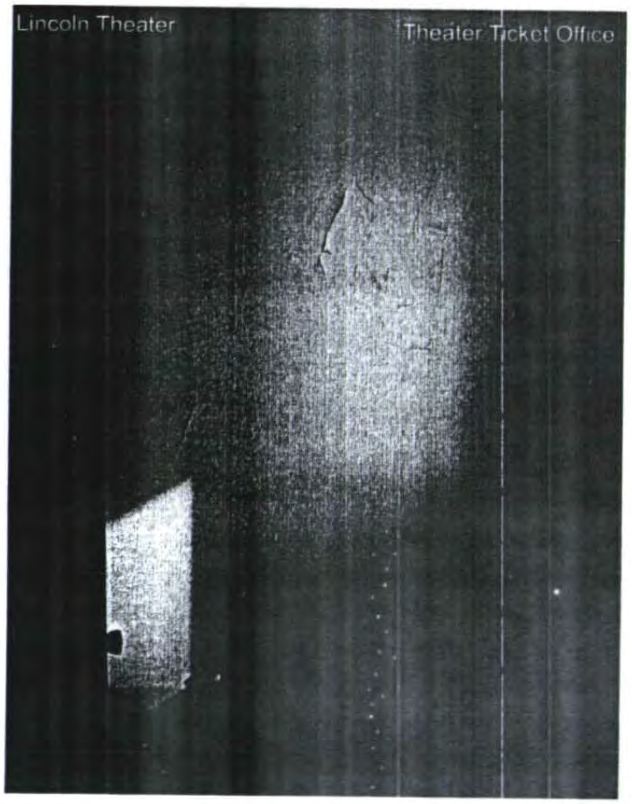
PICTURE 45



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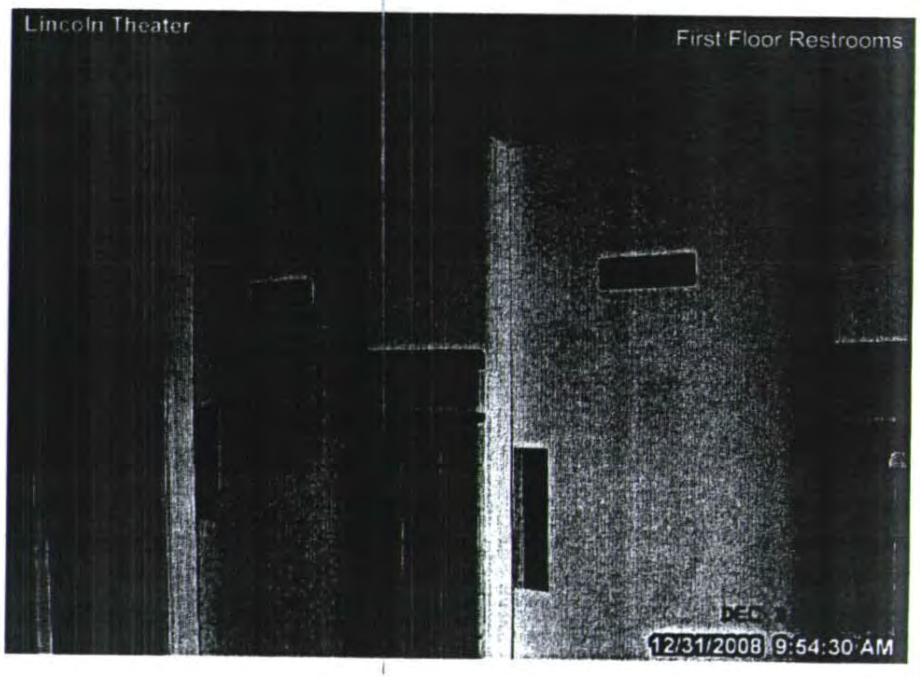

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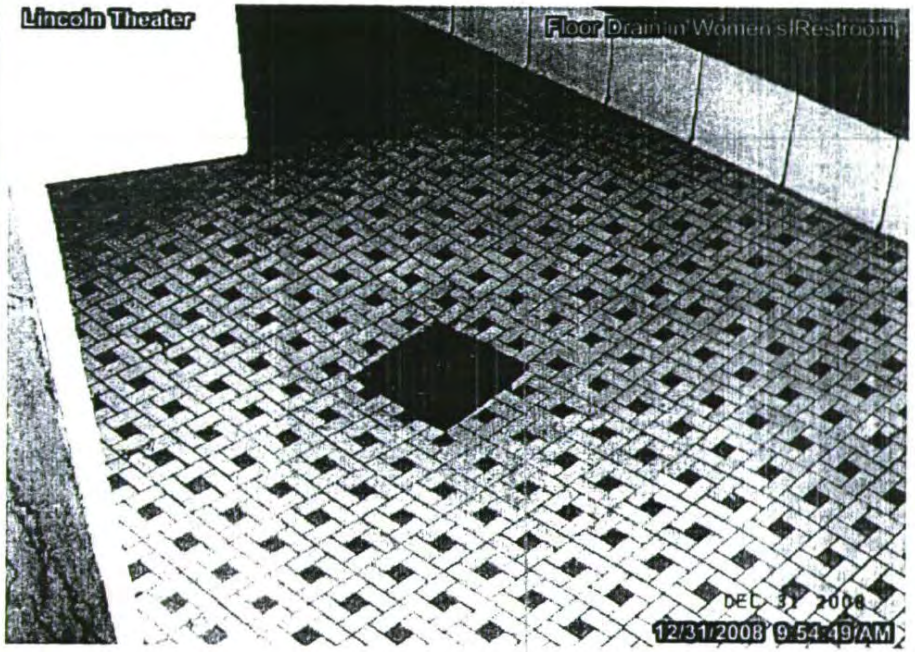
PICTURE 47



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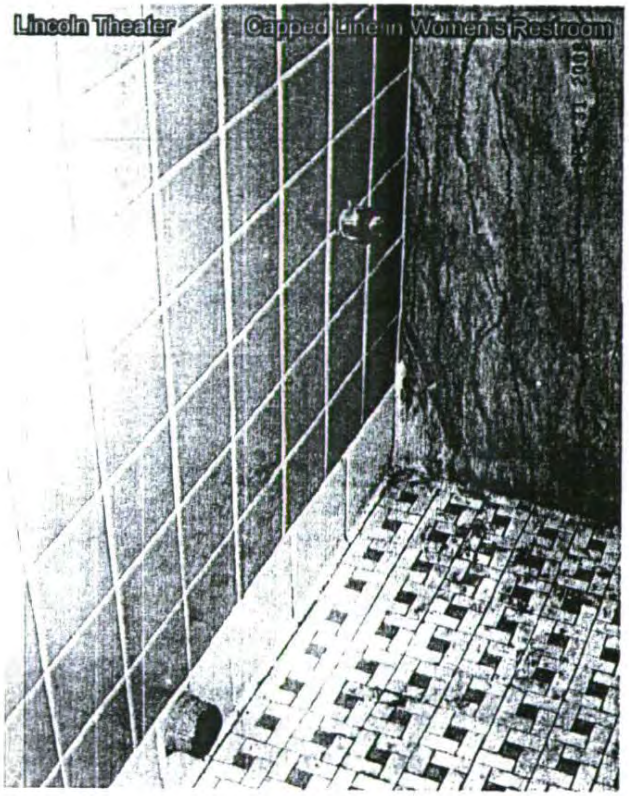

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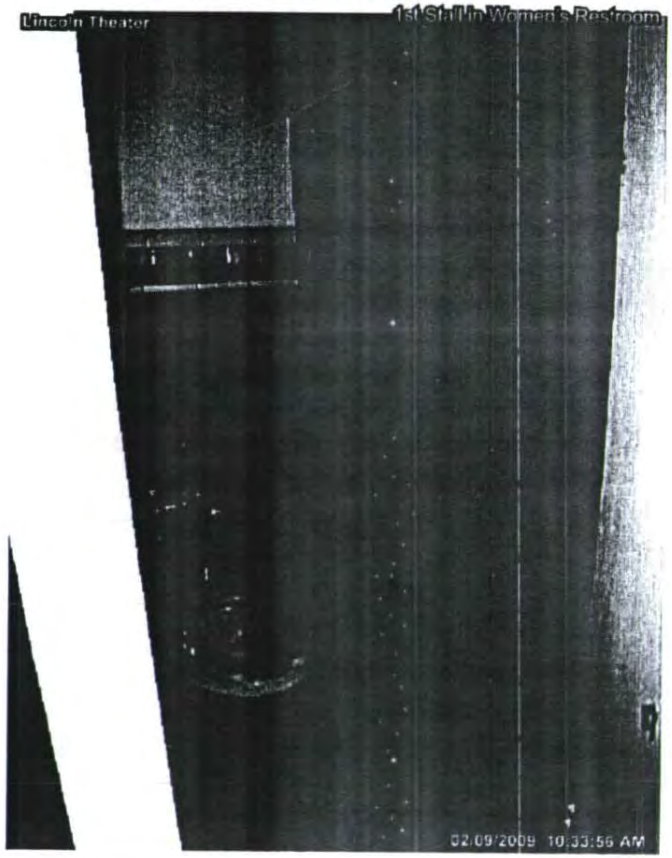
PICTURE 49



PICTURE 50

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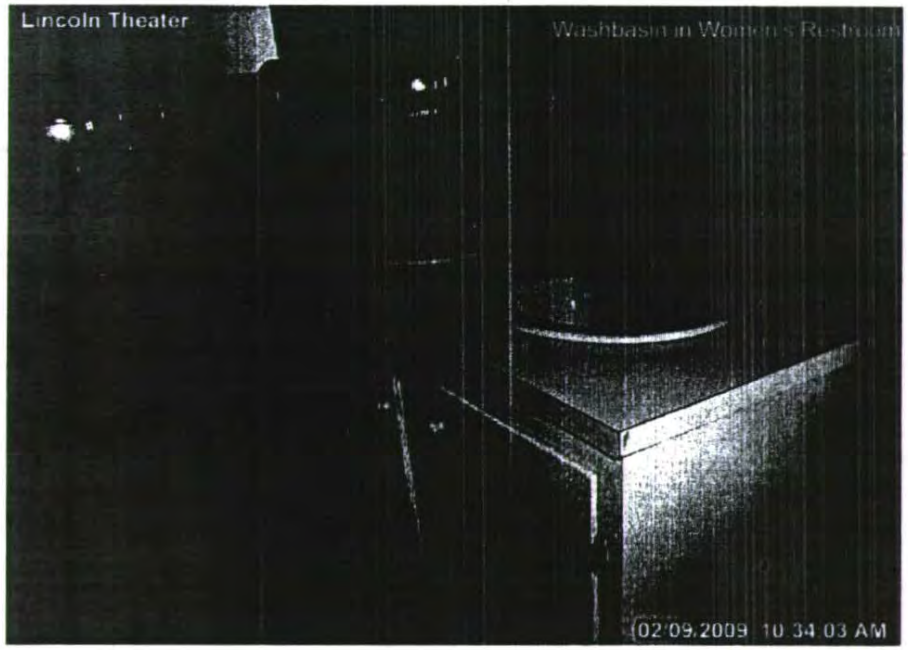
PICTURE 51



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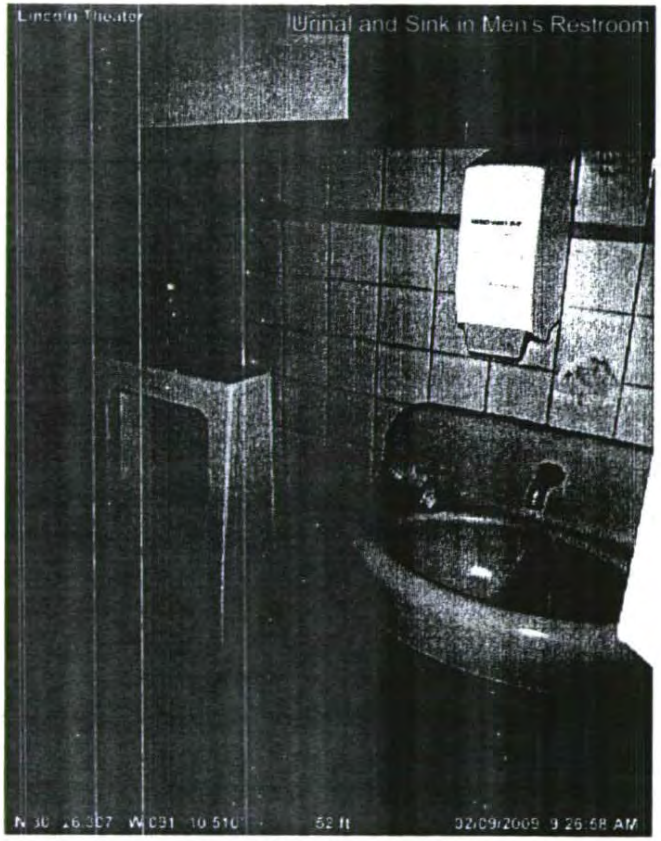

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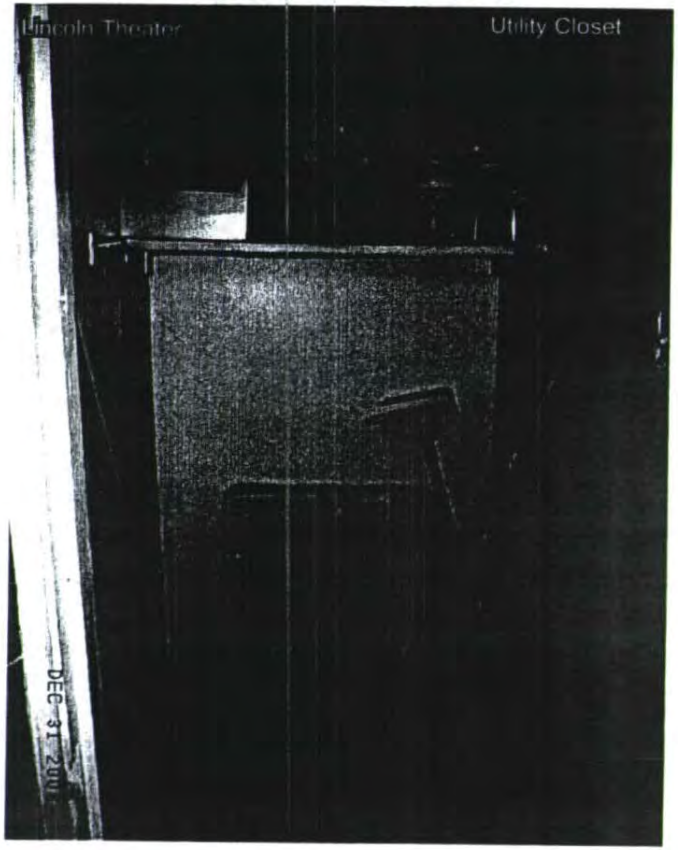
PICTURE 53

PICTURE 54



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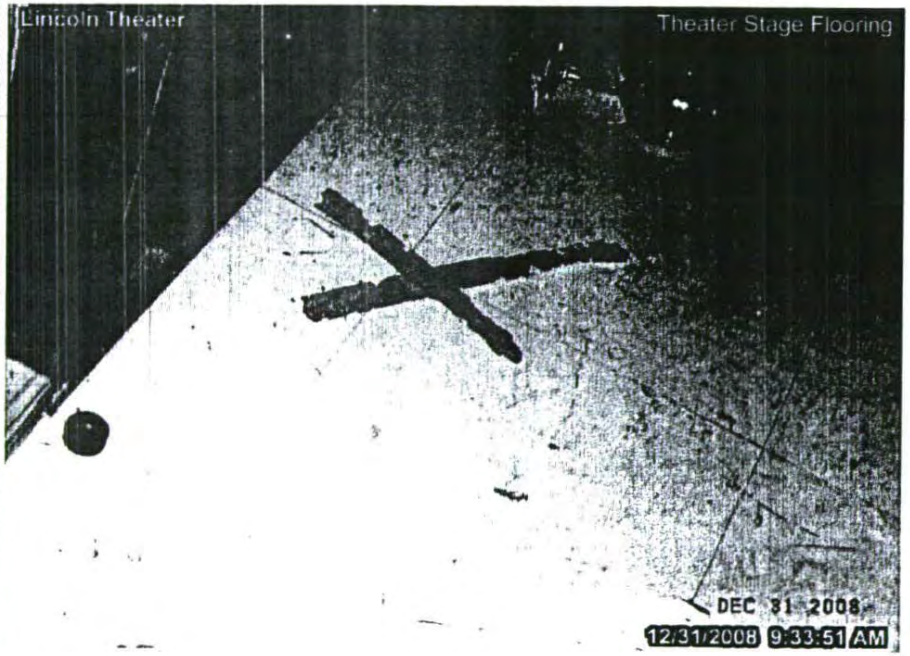
PICTURE 55

PICTURE 56



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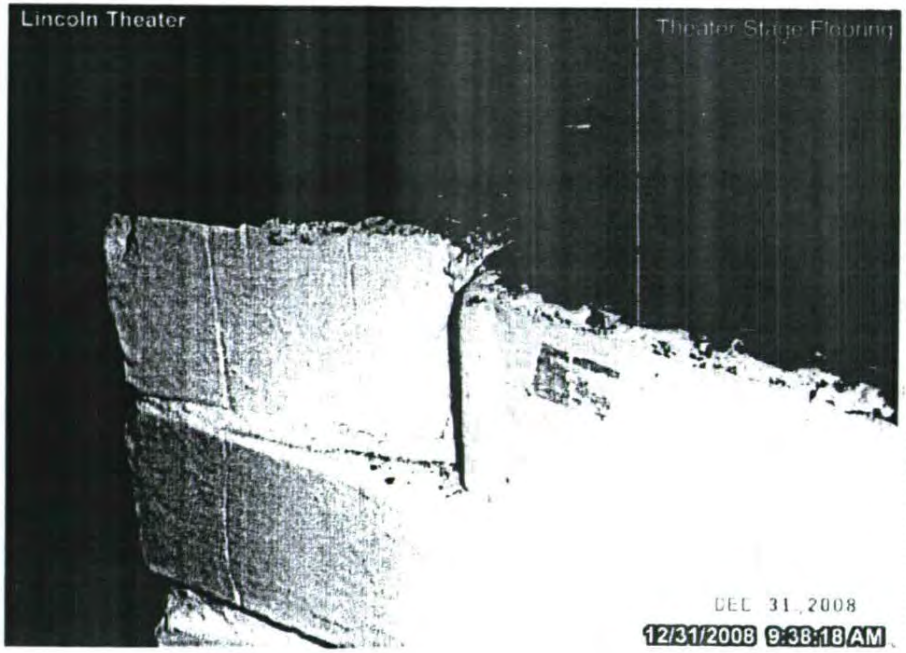
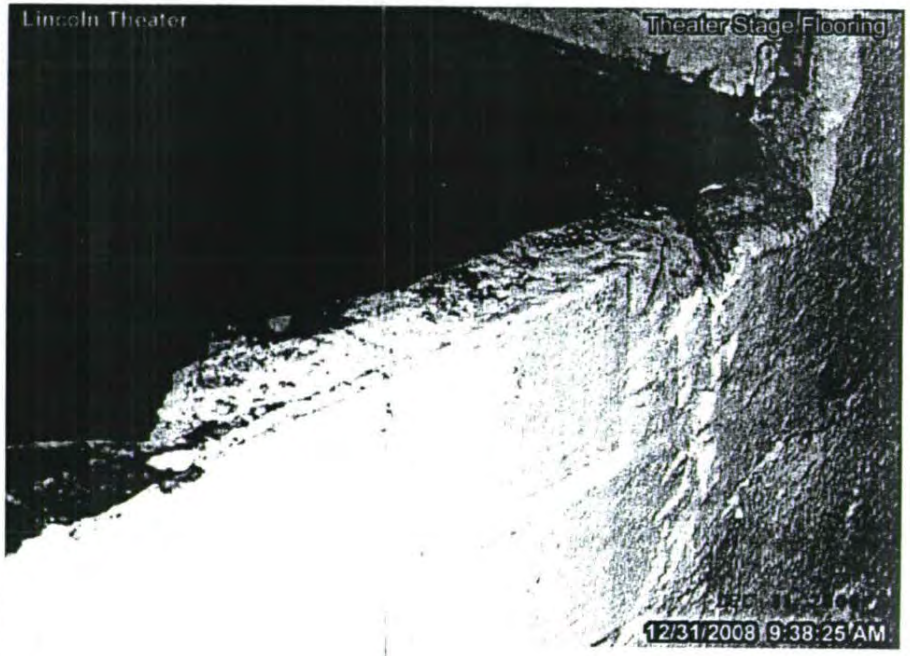
PICTURE 57



PICTURE 58



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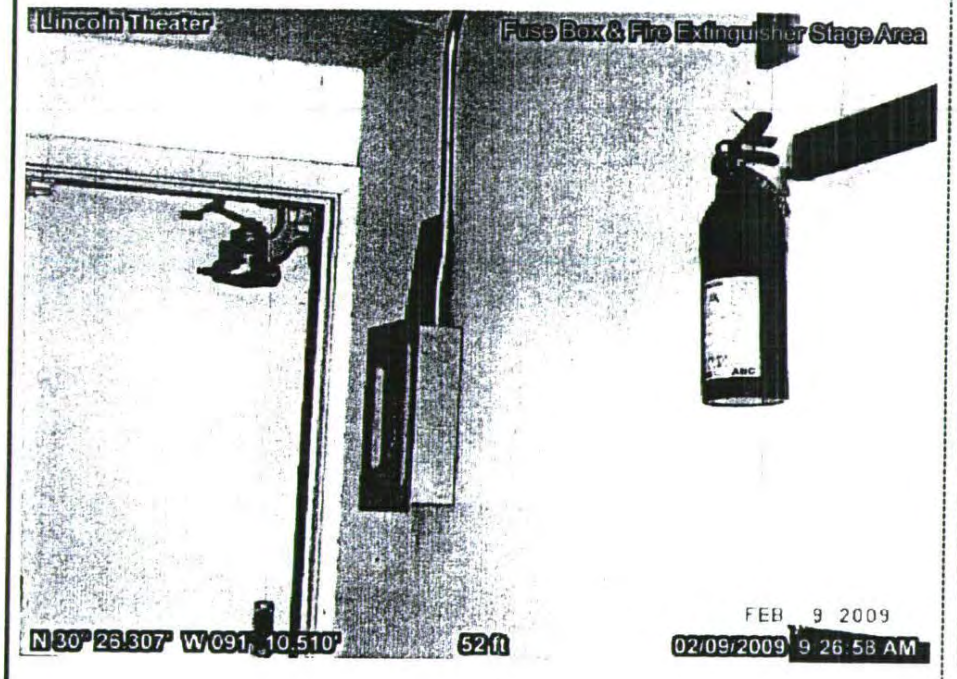
See Photo Location Map for Photo Location and Orientation

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 59



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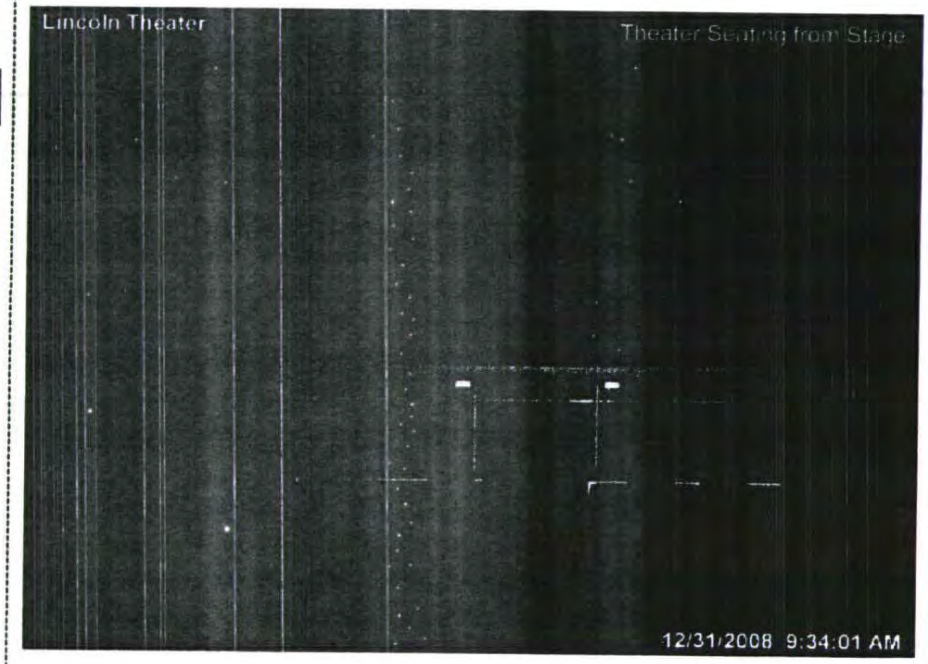

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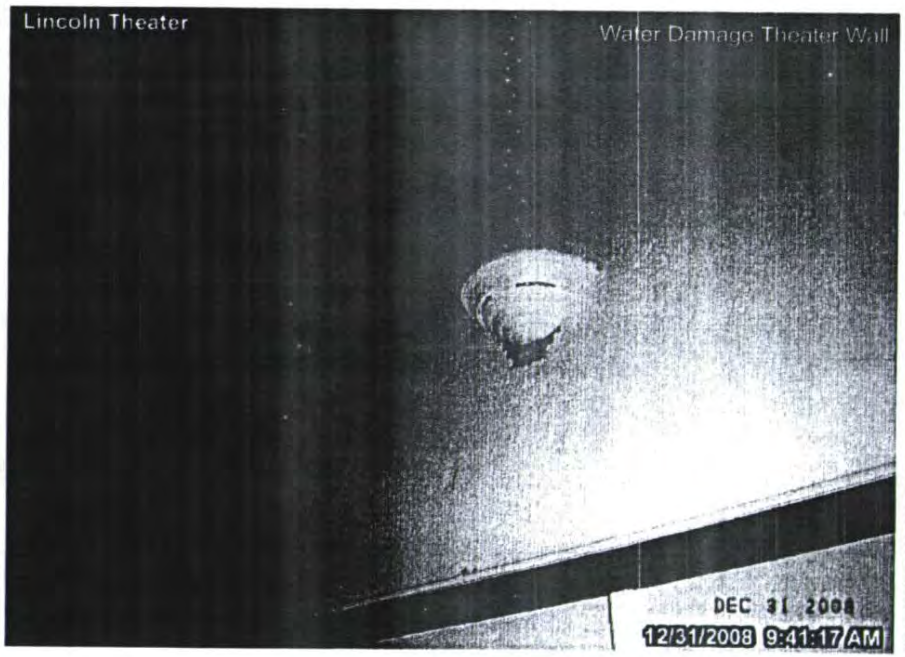
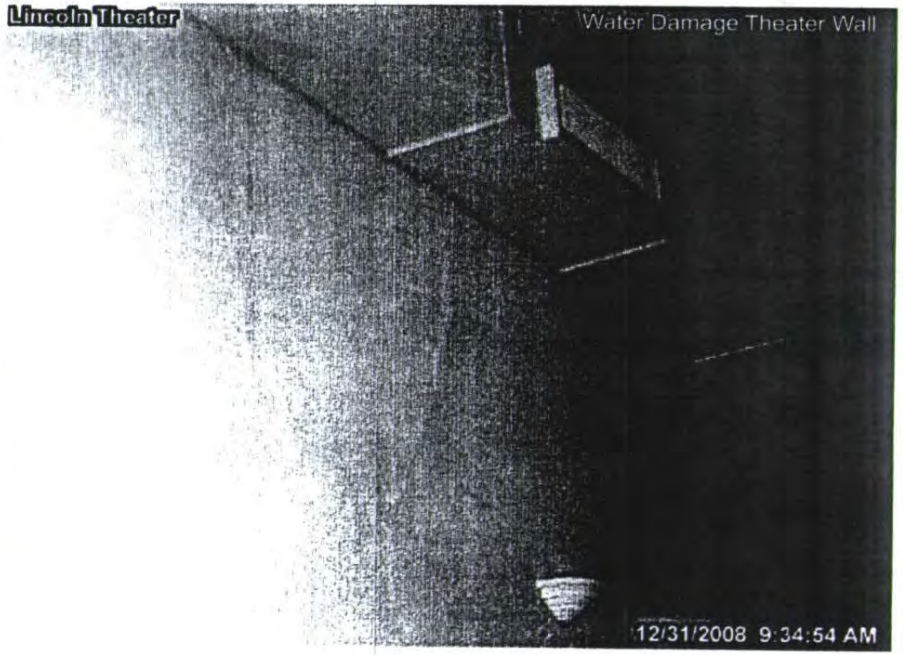
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 61



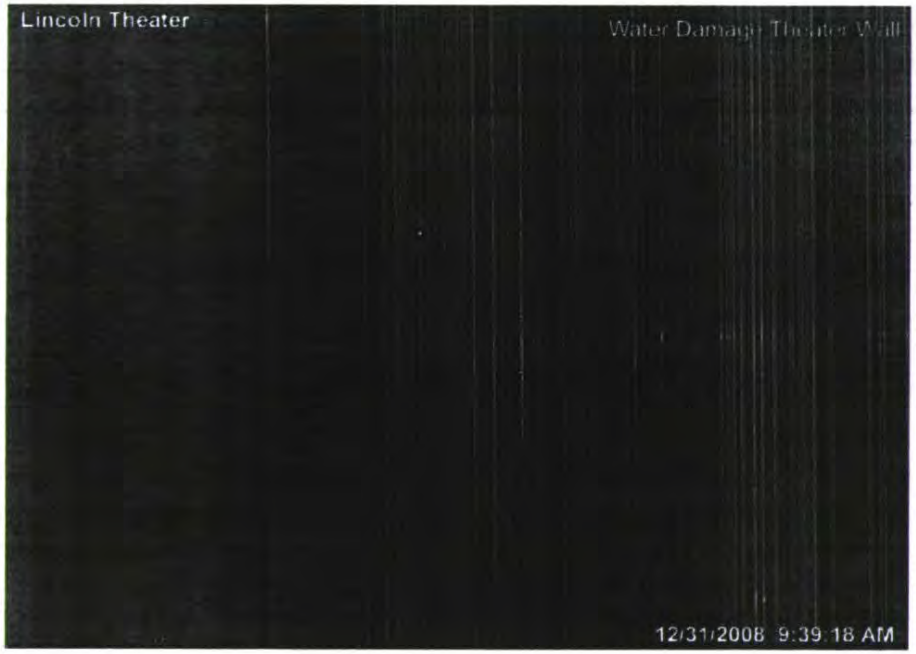
PICTURE 62



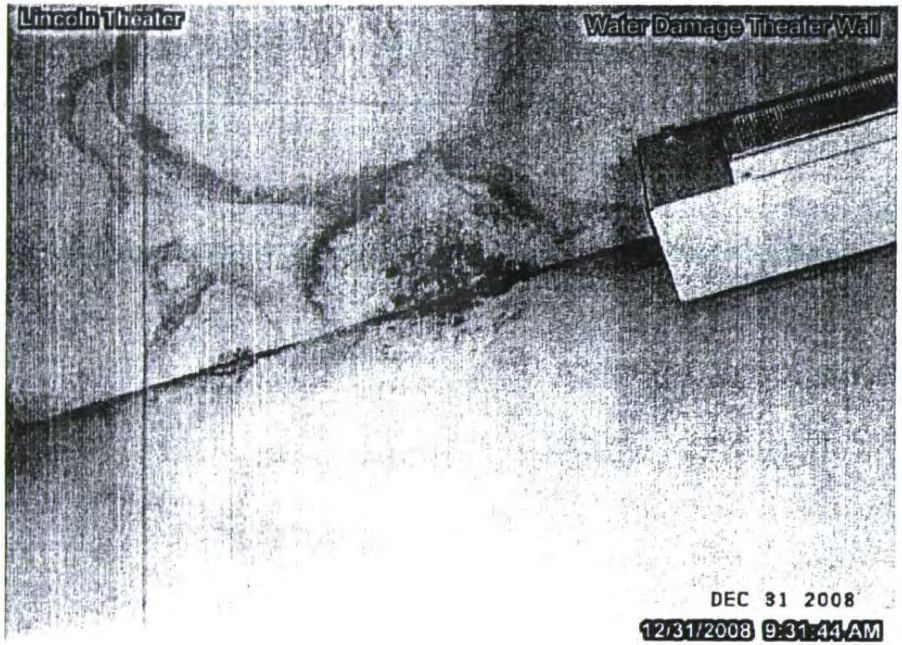
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 63



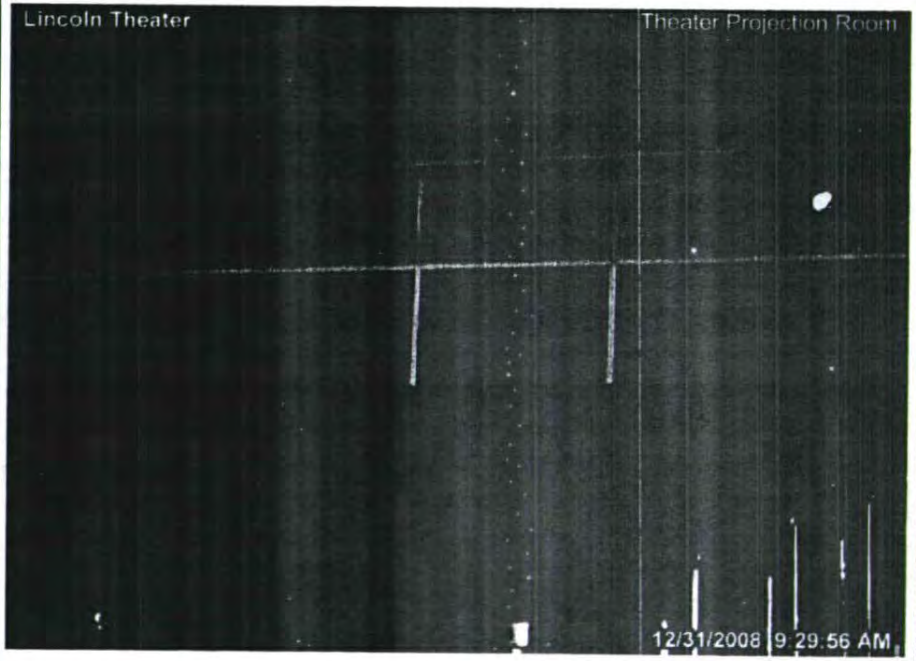
PICTURE 64



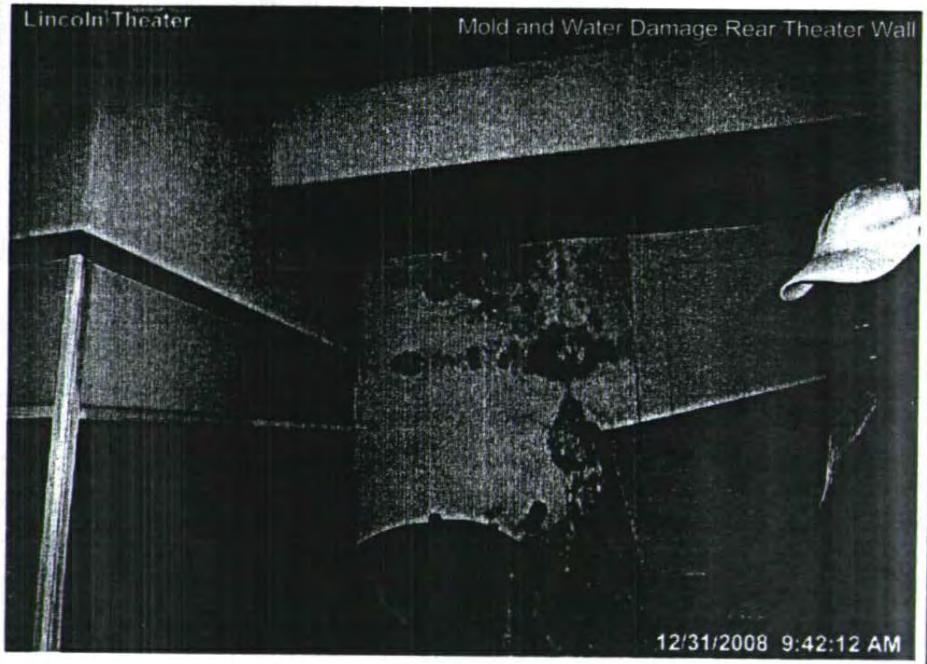
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 65



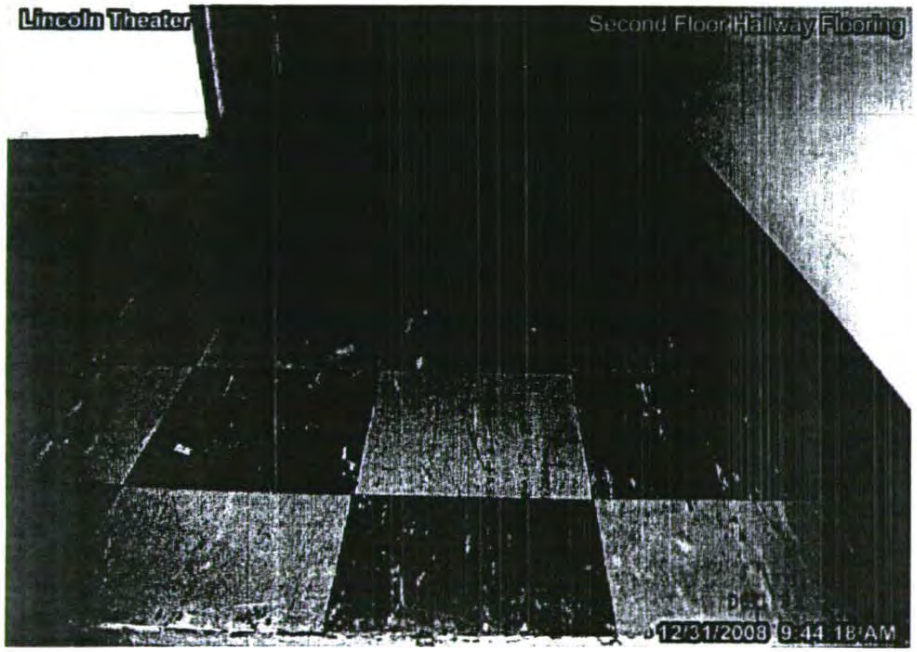
PICTURE 66



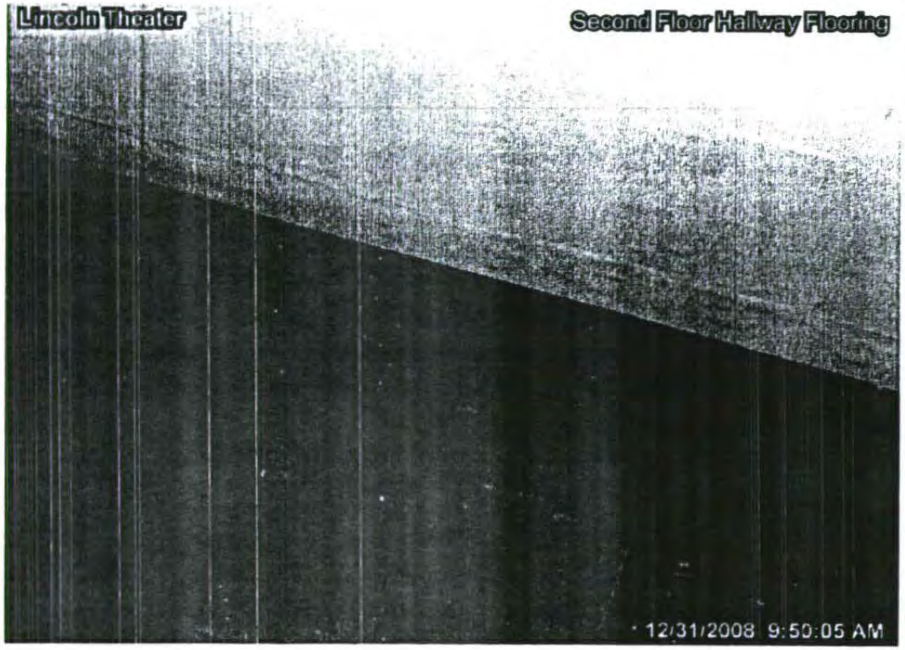
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 67



PICTURE 68



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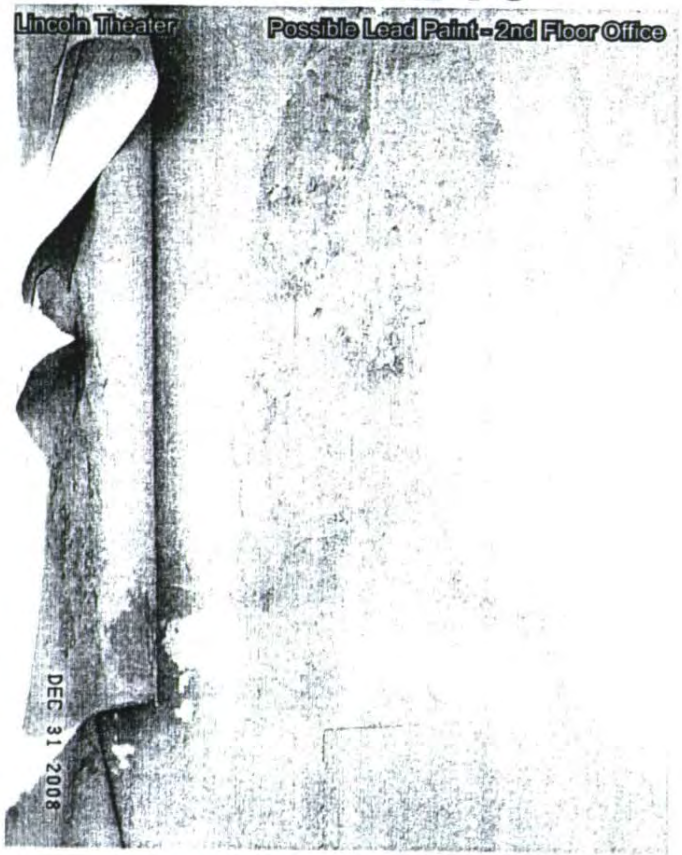
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 69

PICTURE 70



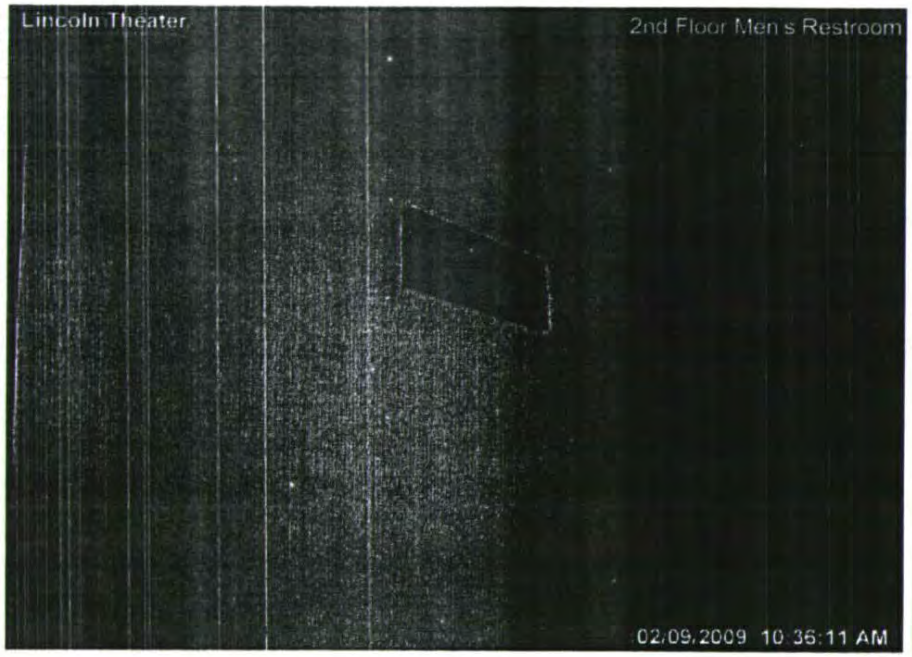
See Photo Location Map for Photo Location and Orientation

PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 71

PICTURE 72



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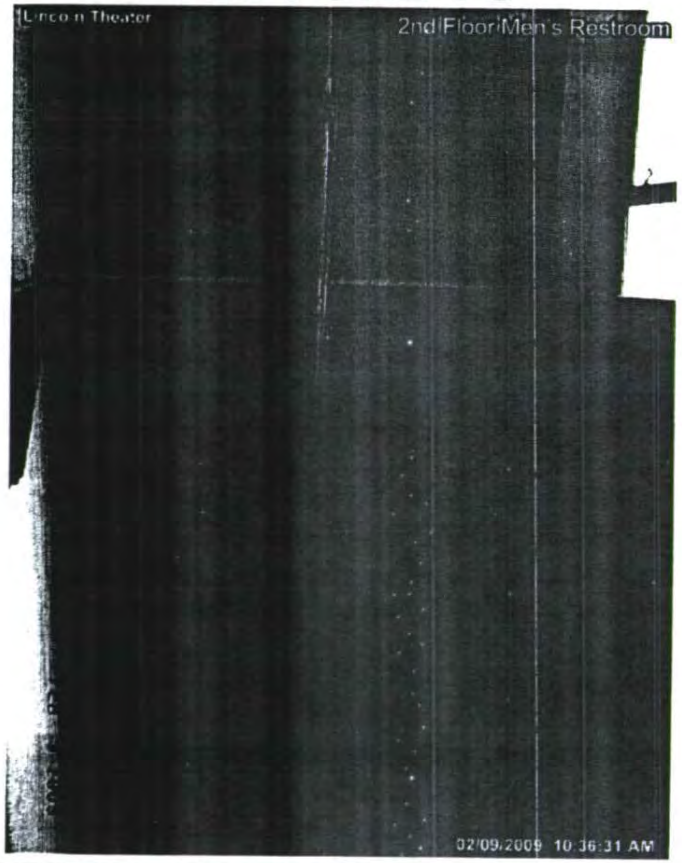
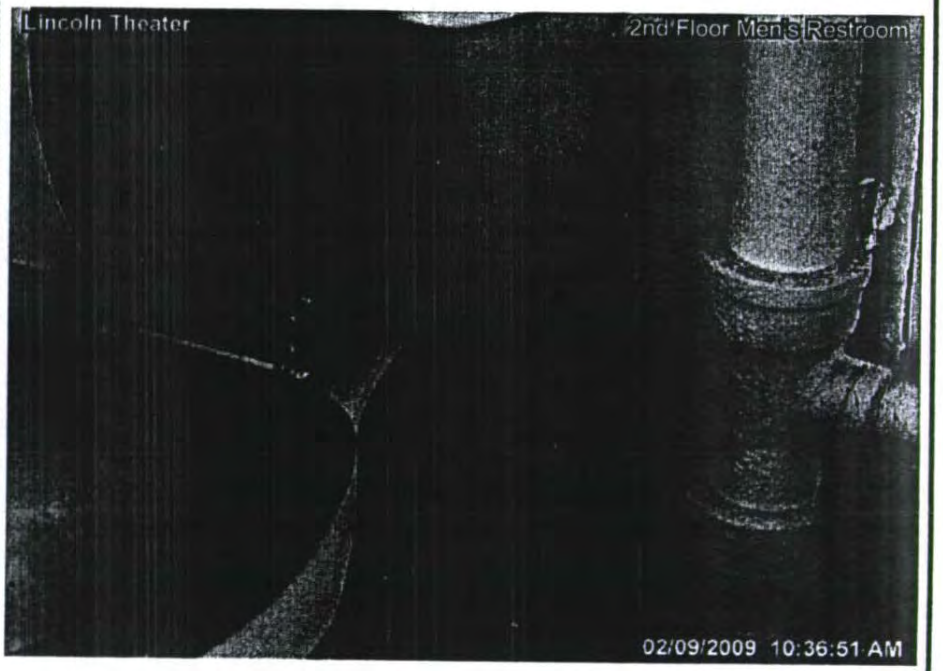
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 73



PICTURE 74

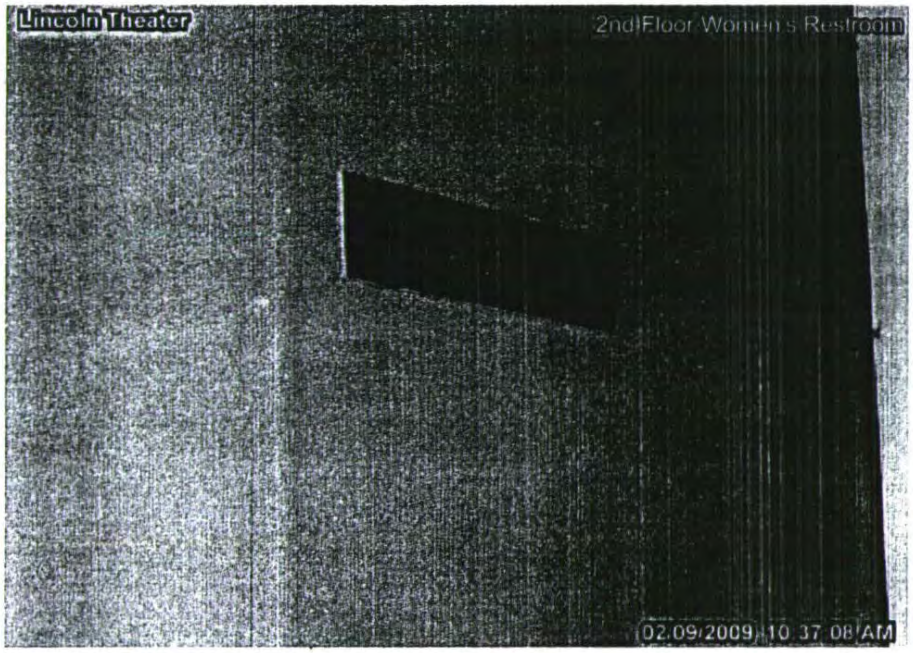


See Photo Location Map for Photo Location and Orientation

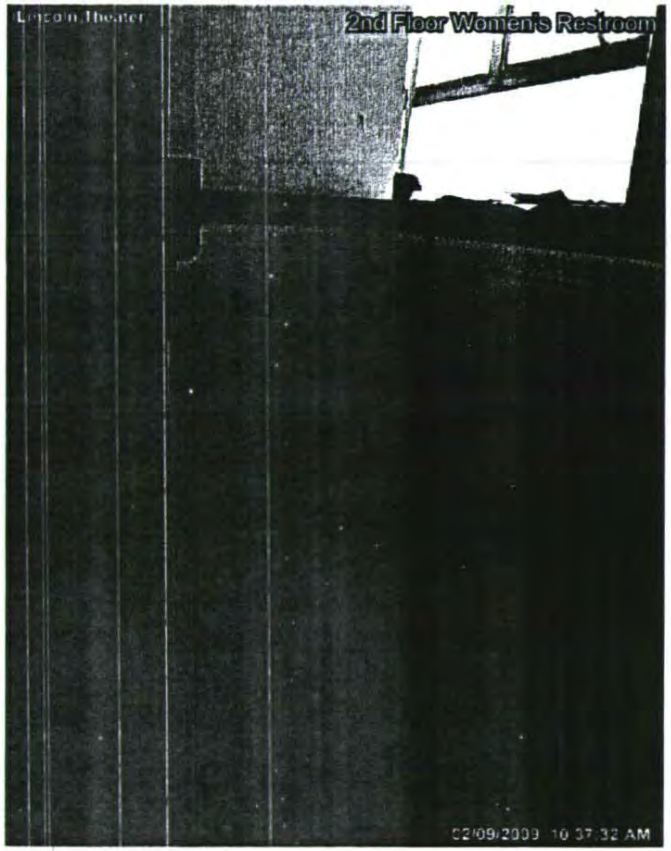
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 75



PICTURE 76



Quaternary **R**esource **I**nvestigations, L.L.C.

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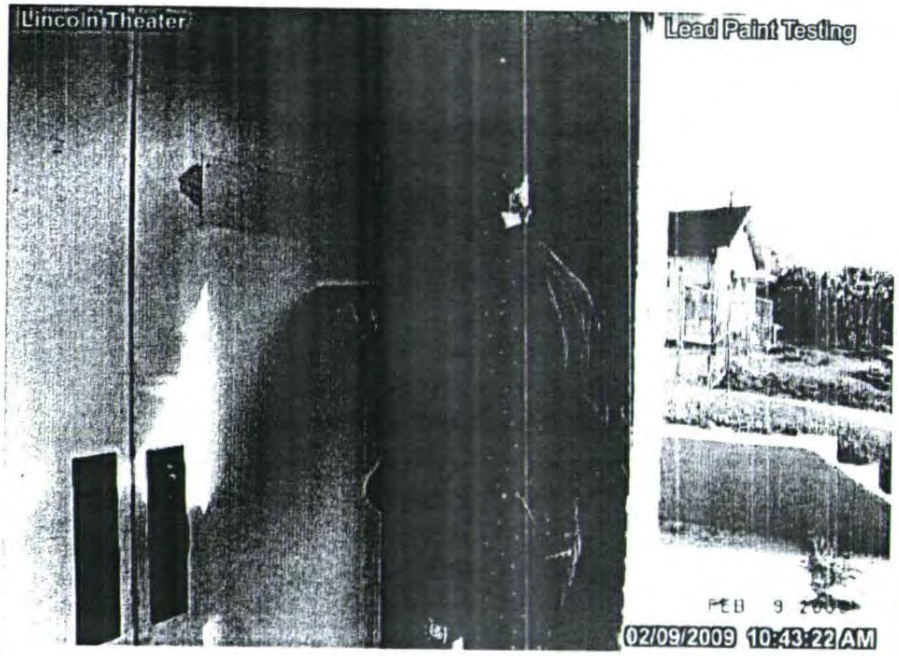
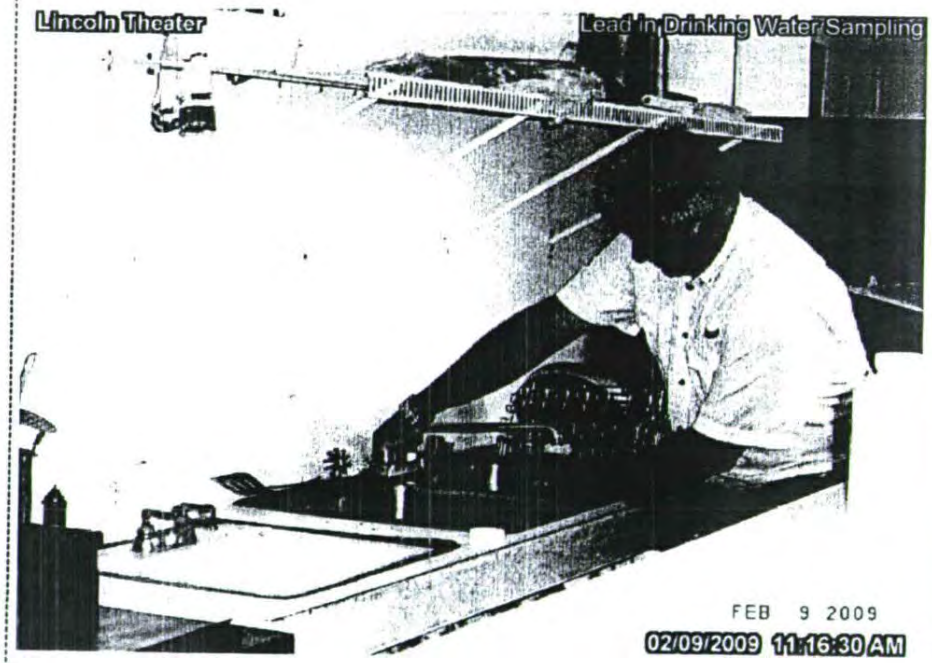
PHASE 1 ENVIRONMENTAL SITE ASSESSMENT

Lincoln Theater, 1305 Myrtle Walk Baton Rouge, Louisiana 70802

PICTURE 77



PICTURE 78



APPENDIX H

RESULTS OF ASBESTOS AND LEAD TESTING

Advanced Environmental Consulting, Inc.
P. O. Box 82905
Baton Rouge, LA 70884 225-753-4031 Fax 225-753-4033

February 18, 2009

Ms. Cheryl Wells
Quaternary Resource Investigations, LLC
13588 Florida Blvd.
Baton Rouge, LA 70819

RE: Asbestos Building Inspection – Old Lincoln Theatre, Baton Rouge, LA
AEC File No.: 09-041

Ms. Wells:

At your request, Advanced Environmental Consulting, Inc. (AEC) mobilized a team of professional staff members to conduct an asbestos, lead-based paint and lead in drinking water inspection at the referenced building. The inspection was conducted in accordance with applicable regulations and industry accepted practices on February 10. 2009 by Glenn Johnson, Louisiana Department of Environmental Quality (LDEQ) inspector number 9I00130 and Mr. Lanny Herring. LDEQ Lead-based paint Risk Assessor number Pb09RA00088.

The site was a theatre with a portion of the ground floor set aside as a barber shop. The ground floor had a snack bar area and an office. The second floor was the site of multiple offices. The main building was of cinderblock and brick construction with terrazzo flooring, resilient floor tile, carpet and concrete. The theatre portion had an acoustical treatment on the walls and ceiling. There were no boiler rooms located during the inspection process.

ASBESTOS

Suspect asbestos-containing materials were sampled in accordance with applicable regulations and industry accepted practices and forwarded to a third party laboratory. Four suspect asbestos-containing materials were identified in structure at the time of the inspection. Samples were forwarded to Crisp Analytical Laboratories under chain-of-custody procedures for analysis by polarized light microscopy.

The materials that tested positive for asbestos content of greater than one percent was limited to the 9 inch floor tile and mastic that is located on the second floor office spaces.

LEAD-BASED PAINT

Attached is a separate report that included readings from a Radiation Monitoring Device (RMD) x-ray fluorescence analyzer. The direct reading instrument was calibrated in accordance with instructions from the manufacturer against a standard. Once calibrated,

readings were taken of both interior and exterior painted building components for determination of lead content.

The exterior coatings on the exterior doors and door frames tested positive for lead above the regulatory limit of 1.0 milligrams per cubic centimeter of surface area.

LEAD IN DRIINKING WATER

Samples of potable water were obtained from two locations in the building. 1) Drinking water fountain in the barber shop area. 2) Sink in the snack bar area. Samples were collected in containers provided by a third party laboratory in the following manner:

Cut 1 – Initial cut of water (quart) designed to represent water that has been in contact with the fixtures at the sample location.

Cut 2 – Water (quart) taken immediately following the initial cut – designed to represent water in the lines under the sink and in the walls.

Cut 3 – With the water flowing after Cut 2 and the water turns cold. Collect (quart) of water designed to represent water in the line between the building and the water main.

Cut 4 – Water allowed to flow approximately one minute longer after Cut 3 designed to represent water in the water main.

Results, attached, reflect lead in water above the regulatory limit of 15 parts per billion.

Lead in Drinking Water – the Owner should consider replacing fixtures in the structure to newer – no lead – fixtures. As a precaution, in those sinks utilized for potable purposes the water should be allowed to run freely for three to four minutes each morning in order to flush the system.

Thank you for allowing AEC the opportunity to be of service. We appreciate your business. If you have any questions concerning this correspondence, please do not hesitate to contact the undersigned.

Yours truly,
Advanced Environmental Consulting, Inc.

Glenn L. Johnson
President

Attachments

Advanced Environmental Consulting, L. L. C.
P. O. Box 82905
Baton Rouge, LA 70884
225-753-4031 Fax 225-753-4033
advenvironmental@bellsouth.net

Building Construction Sheet

Building Name: LINCOLN HEATH Date: 2/9/09

Project No: 09-041

Ceiling: Suspended (Gypsum) Wood Metal Other _____

Deck: (Wood) Metal Transite Concrete Other _____

Insulation: (Fiber Glass) Spray Fire Proof None Other _____

Flooring: (Tile) Sheet Vinyl Carpet (Terrazzo) (Concrete) Ceramic Wood Other _____

HVAC: Cooling Tower (Central Air) Boiler Other WINDOW UNITS

Walls: (Gypsum) Brick/block (Paneling) (Plaster) Other _____

Pipe Insul. (Rubber) Fiberglass Foam Glass Styrofoam Other _____

Boiler: Identify Insulation and Describe: NONE

_____

Walkway: Wood (Metal) Concrete None Other: _____

Other information: _____

_____

Circle appropriate response provide information on "other"

SURVEY DATA SHEET

Date: 2/9/09

Job #: 09-041

Client: QUANTINAM

Building/Area: LINCOLN THEATER

ADVANCED ENVIRONMENTAL CONSULTING
P. O. BOX 82905
Baton Rouge, LA 70884
225-753-4031 Fax 225-753-4033
gjohnson@advenvir.com
www.advenvir.com

Technician: GJ

Type of Survey: ASB/LOP

Project Location:

Sample	Description	Location	Quantity
1	12" FT	STAGE 3rd	18
2	FT ON STAGE UNDER #1	STAGE	
3	ACOUSTICAL TEXTURE ON WALLS/CEILING AUDITORIUM		
4	9" FT TILE	2ND FLOOR OFFICES	UNSTATED

FT – floor tile CT – ceiling tile PI – pipe insulation SA – spray applied M – mastic GYP – gypsum T – transite R – roofing SF – square feet LF – linear feet

Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr., Suite 301
Carrollton, TX 75006
PH: (972) 488-1414
Fax: (972) 488-8006

CA Labs, L.L.C.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
PH: (225) 751-5632
Fax: (225) 751-5634

Polarized Light Asbestiform Materials Characterization

Customer Info: Attn: Glen Johnson
Advanced Environmental Consulting,LLC
P.O. Box 82905
Baton Rouge, LA 70884

Phone # 225-753-4031
Fax # 225-753-4033

Customer Project:
Lincoln Theater
09-041

Turnaround Time: 3 day

CA Labs Project #:
CBR0902265

Date: 2/16/2009
Samples Received: 02/10/09

Purchase Order #:

Sample #	Comment	Layer #	Analysis Physical Description of Subsample	Homogeneous (Y/N)	Asbestos type / calibrated visual estimate percent	Non-asbestos fiber type / percent	Non-fibrous type / percent
1		1	*black floor tile*	Y	*None Detected*		100% bi,qu,ca
1		2	*tan mastic*	Y	*None Detected*	10% ce	90% qu,bi
2		1	*grey/ black tile material*	N	*None Detected*		100% qu,bi,ca
3		1	*grey fire proofing*	Y	*None Detected*	30% ce 10% sy	60% bi
4		1	*tan floor tile*	Y	*3% Chrysotile*		97% wo,ca
4		2	*black mastic*	Y	*4% Chrysotile*		96% ma

Analysis Method: Interim (40CFR Part 763 Appendix E to Subpart E) / Improved (EPA-600 / R-93/116)

Preparation Method: HCL acid washing for carbonate based samples, chemical reduction for organically bound components, oil immersion for identification of asbestos types by dispersion staining / becke line method.

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot -other
pe - perlite
qu - quartz
fg - fiberglass
mw - mineral wool
wo - wollastonite
ta - talc
Sy - synthetic
ce - cellulose
br - brucite
ka - Kaolin (clay)
ps - palygorskite (clay)

Approved Signatories:

Andrew Linton
Analyst

Laboratory Director
Cody Newton

Senior Analyst
Andrew Linton

1. Fire Damage significant fiber damage - reported percentages reflect unaltered fibers
2. Fire Damage no significant fiber damage affecting fibrous percentages
3. Actinolite in association with Vermiculite
4. Layer not analyzed - attached to previous positive layer and contamination is suspected
5. Not enough sample to analyze
6. Anthophyllite in association with Fibrous Talc
7. Contamination suspected from other building materials
8. Favorable scenario for water expansion on vermiculite for possible analysis by another method

Crisp Analytical Laboratories, L.L.C.
2081 Hutton Dr., Suite 301
Carrollton, TX 75006
PH: (972) 488-1414
Fax: (972) 488-8006

CA Labs, LLC.
12232 Industriplex, Suite 32
Baton Rouge, LA 70809
PH: (225) 751-5632
Fax: (225) 751-5634

Summary of Project Sample Material Containing Asbestos

CA Labs Project #: CBR0902265

Sample #	Layer #	Analysts Physical Description of Subsample	Asbestos type / calibrated visual estimate percent
4	1	*tan floor tile*	*3% Chrysotile*
4	2	*black mastic*	*4% Chrysotile*

Baton Rouge NVLAP Lab Code 200772-0 TEM/PLM *TDH 30-0370*
LDEQ

Glossary of abbreviations (non-asbestos fibers and non-fibrous minerals):

ca - carbonate
gypsum - gypsum
bi - binder
or - organic
ma - matrix
mi - mica
ve - vermiculite
ot -other

pe - perlite
qu - quartz

fg - fiberglass
mw - mineral wool
wo - wollastinite
ta - talc
sy - synthetic
ce - cellulose
br - brucite
ka - Kaolin (clay)

pe - polygorskite (clay)

This report relates to the items tested. This report is not to be used by the customer to claim product certification, approval or endorsement by NVLAP, NIST or any other agency of the federal government. This report may not be reproduced except in full without written permission from CA Labs. These results are submitted pursuant to CA Labs' current terms and conditions of sale, including the company's standard warranty and limitations of liability provisions and no responsibility or liability is assumed for the manner in which the results are used or interpreted. Unless notified in writing to return the samples covered by this report, CA Labs will store the samples for a period of ninety (90) days before discarding. A shipping or handling fee may be assessed for the return of any samples.

02/16/2009 11:10 2257515634 CA LABS LLC

AEC

Advanced Environmental Consulting, L. L. C.
Chain of Custody Record
www.advenvir.com

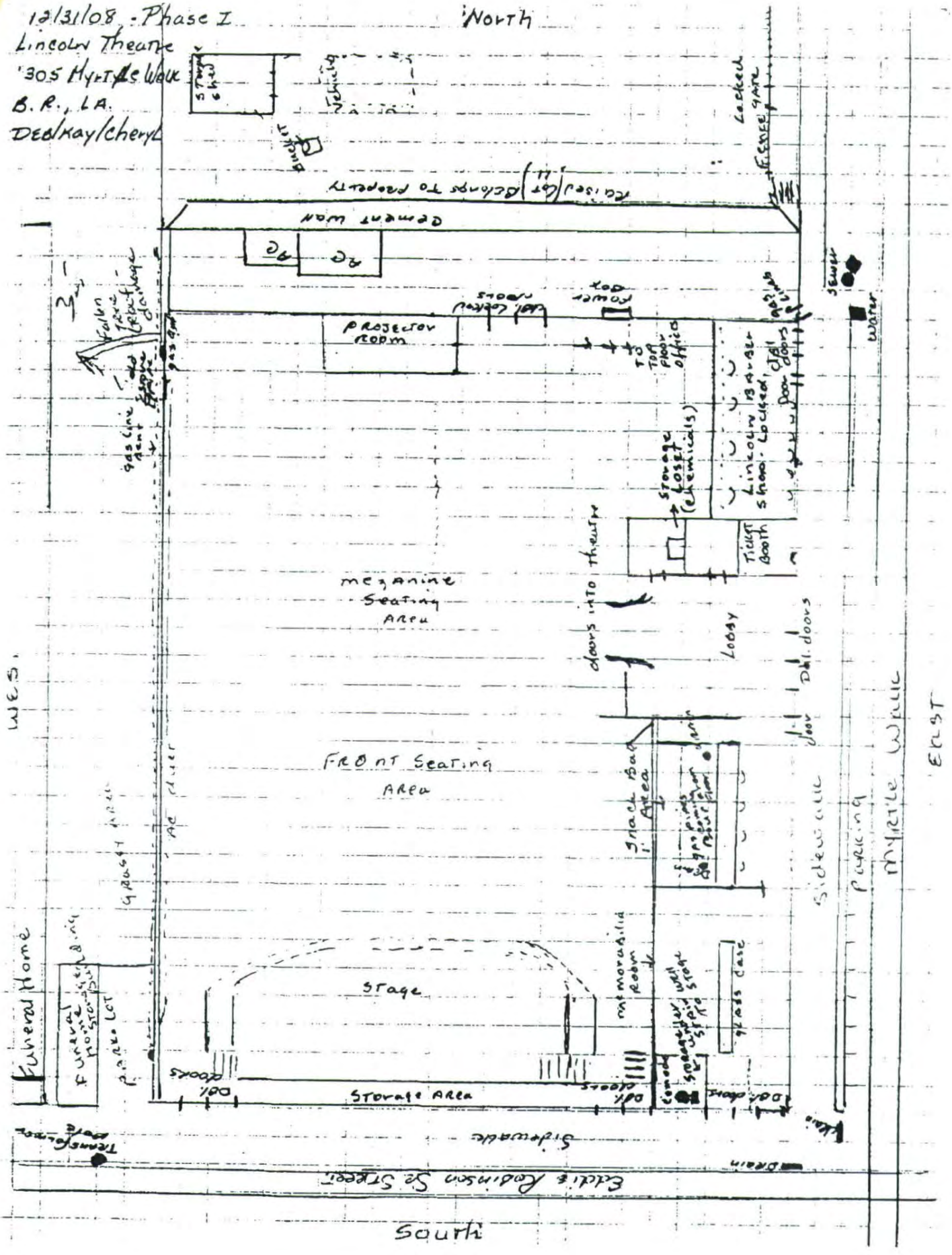
P. O. Box 82905,, Baton Rouge, LA 70884
225-753-4031 Fax 225-753-4033

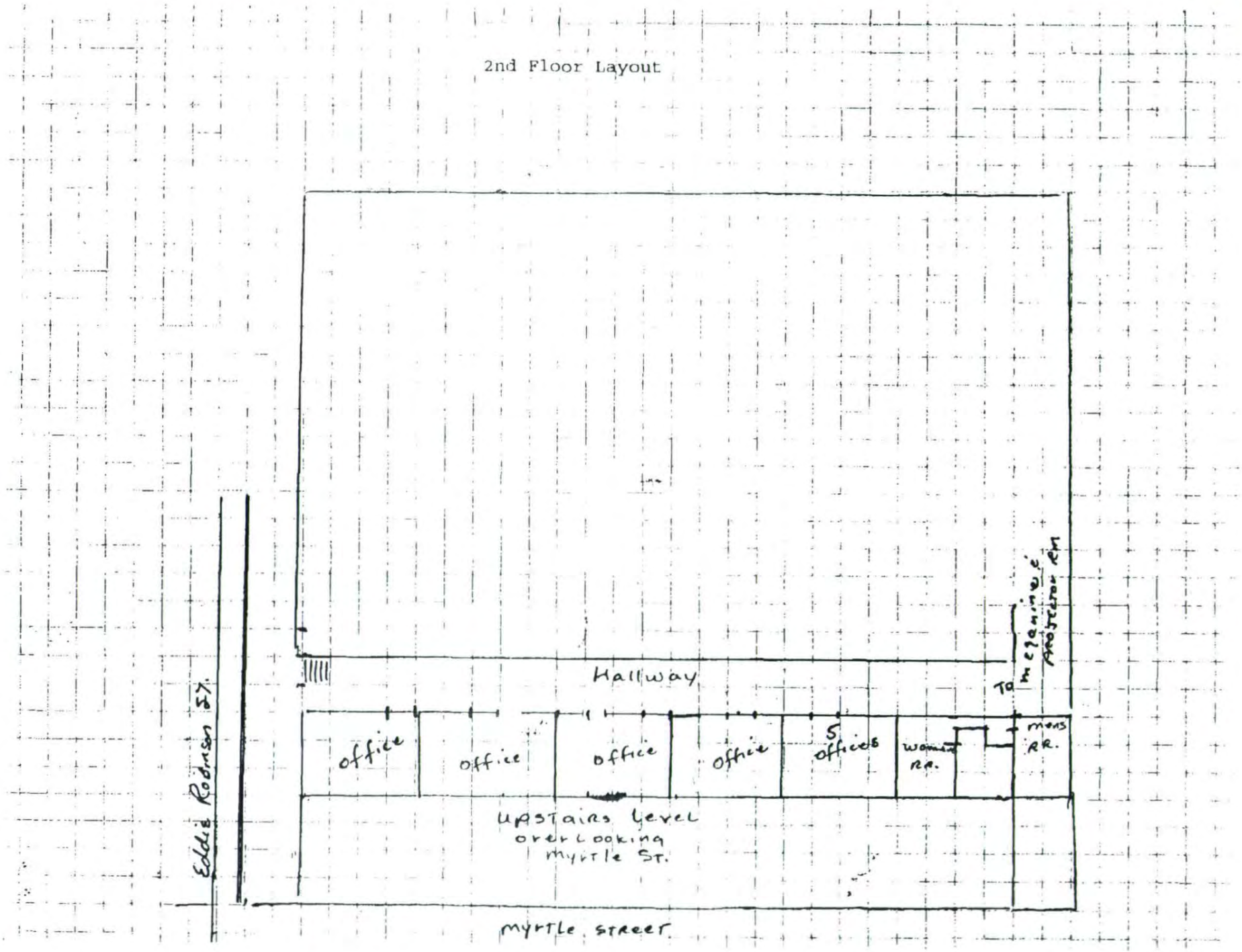
Laboratory Samples Submitted To: CA LABS			By: Advanced Environmental Consulting, LLC	
Report Results To: 225-753-4033	Turnaround Time Requested: 3 Days		Project Name: Lincoln Highway	Project No. 09-041

Sample No.	Date	Sample Type (bulk, air, water, etc)	Test(s) (pcm, plm, tem, etc.)	Remarks
1	2/5/09	BULK	PCM	
2				
3				
4				

Advanced Environmental Consulting, L. L. C.	Relinquished By:	Date 2/10/09 Time 4:30	Received By:	Date Time	Intact

12/31/08 - Phase I
Lincoln Theatre
305 Myrtle Walk
B.R., LA.
Deb/Kay/Cheryl




2nd Floor Layout
Eddie Robinson Sr.
Hallway
To Engineers' Addition
office
office
office
office
5 offices
women RR.
mens RR.
UPSTAIRS LEVEL
overlooking
Myrtle St.
Myrtle Street

SURVEY DATA SHEET

Date: 1/9/09

Job #: 09-041

Client: QUANT.

Building/Area: LINCOLN THEATER

ADVANCED ENVIRONMENTAL CONSULTING

P. O. BOX 82905

Baton Rouge, LA 70884

225-753-4031 Fax 225-753-4033

gjohnson@advenvir.com

www.advenvir.com

Technician: GJ

Type of Survey: LEAD IN H2O

Project Location: BOWLING

Sample	Description	Location	Quantity
W-1-A	DRINKING H2O CUT 1	BARBER SHOP HORSESHOE	
W-2-A	" " CUT 2	" "	
W-3-A	" " CUT 3	" "	
W-4-A	" " CUT 4	" "	
W-1-B	DRINKING H2O CONCESSION AREA	CONCESSION AREA SINK	
W-2-B	CUT 2	" "	
W-3-B	CUT 3	" "	
W-4-B	CUT 4	" "	

FT – floor tile CT – ceiling tile PI – pipe insulation SA – spray applied M – mastic GYP – gypsum T – transite R – roofing SF – square feet LF – linear feet

Asbestos • Lead • Environmental • Materials & Indoor Air Analysis

EMSL Analytical, Inc.

3 Cooper St. Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9551
Web: http://www.emsl.com Email: westmontleadlab@emsl.com

FACSIMILE TRANSMITTAL SHEET

To:
Company: Advanced Environmental Consulting
Fax Number: (225) 753-4033
Phone Number: (225) 753-4031

From: EMSL Analytical
Date: February 17, 2009
PAGES INCLUDING COVER: 4

RE: Analysis Results for Order(s) 200901873
The following report covers the analysis performed on samples submitted to EMSL Analytical on the following date(s):
2/12/2009 11:13:00AM

Notice: **If you are not the stated recipient of this fax and have received this in error, please discard immediately and contact EMSL Analytical at the phone number listed above.**

EMSL Analytical News

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PCM Cassettes $24(10+bx)
TEM Cassettes $39(10+bx)

PUMP BLOWOUT SALE

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EMSL H/D Diaphragm Pump $169
Rotary Vane Sampling Pump $189

IAQ INSTRUMENT DEALS

36"L Borescope $275
Fluke 975V IAQ Meter $2495
Protimeter Surveymaster $485
Atrix Portable HEPA Vacuum $225

1-888-958-8170 East Coast
1-888-455-3657 West Coast

Training - $249 Per Person

To Be Announced

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1-800 220-3675

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Environmental Test Chambers Studies
Lead in Consumer Products
Radon Testing Now Available!
MRSA (Environmental only)
Legionella -*FREE Sampling Bottles*
Food Microbiology
Hexavalent Chromium
Asbestos in Soils / Vermiculite

Westmont, NJ Lab Open Saturday
Asbestos, Lead, and Mold Analysis!

1-800-220-3675 East Coast
1-888-455-3675 West Coast

If you have any questions, please do not hesitate to contact us at (856) 858-4800.

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YOU CAN DOWNLOAD AND PRINT
CERTIFICATIONS OF ACCREDITATIONS AND CHAIN OF CUSTODY FORMS

2009018773

EMSL Relinquish Form
Revision 2
Effective Date: July 9, 2007

EMSL Analytical, Inc.
Relinquish Form

Initial Lab:	EMSL- Baton Rouge	Phone Number:	225-755-1920
		Fax Number:	225-755-1989
Relinquished to:	EMSL- Westmont	Phone Number:	
		Fax Number:	
Does new Lab hold equivalent or additional accreditation*			(Yes) No
Client Name:	Advanced Environmental Consulting		
Client Project:	09-041 / Lincoln		
Date Received:	2/10/09		
Date Relinquished	2/10/09		
Date Due:	TAT. 6-10 day		
Special Instructions:	see coc		

Thanks!

Relinquished by (Signature)	Date	Received by (Signature)	Date
[signature]	2/10/09	[signature]	2/12/09
Relinquished by (Signature)	Date	Received by (Signature)	Date

Client Notification- Please sign this form and fax to the original laboratory. By signing below you agree to allow the above named laboratory to relinquish the samples to a new laboratory with equivalent or additional certification.

Name (please Print)	Signature	Agent of:	Date:

If this is a reoccurring project or sample type that will require samples to be relinquished on a regular basis please sign below and the laboratory will keep this form on file

Name (please Print)	Signature	Agent of.	Date.

- All accreditation information and certificates can be found at www.emsl.com.

Controlled Document
Confidential Business Information/Property of EMSL Analytical, Inc.

AEC

Advanced Environmental Consulting, L. L. C.
Chain of Custody Record
www.advenvir.com

P. O. Box 82905,, Baton Rouge, LA 70884
225-753-4031 Fax 225-753-4033

Page 1 of 1

Laboratory Samples Submitted To: EMSL

By: Advanced Environmental Consulting, LLC

Report Results To: 225-753-4033

Turnaround Time Requested: STD

Project Name: LINCOLN

Project No.: 09-04!

Sample No.	Date	Sample Type (bulk, air, water, etc)	Test(s) (pcm, plm, tem, etc.)	Remarks
W-1-A	2/9/09	WATER	A. A.	LEAD IN WATER
W-2-A				
W-3-A				NEED 15 PPB
W-4-A				
W-1-B				SENSITIVITY
W-2-B				
W-3-B				
W-4-B				

Advanced Environmental Consulting, L. L. C.	Relinquished By	Date 2/14/09 Time 4:30	Received By:	Date 2/10/09 Time 4:21	Intact

From: 8568581032 To: Accounts Payable Page: 3/4 Date: 2/17/2009 12:36:24 PM

EMSL Analytical
3 Cooper St , Westmont, NJ 08108
Phone: (856) 858-4800 Fax: (856) 858-9551 Email: westmontlabdlab@emsl.com

Attn: **Advanced Environmental Consulting**
PO Box 82905
Baton Rouge, LA 70884

Fax: (225) 753-4033 Phone: (225) 753-4031
Project: Lincoln/ 09-041

Customer ID: AECO62
Customer PO:
Received: 02/12/09 11:13 AM
EMSL Order: 200901873
EMSL Proj:

Report Date: 2/17/2009

Lead in Water by Furnace AAS (EPA 200.9)

Client Sample Description	Lab ID	Collected	Analyzed	Lead Concentration
W-1-A	0001	2/10/2009	2/16/2009	310 ppb
W-2-A	0002	2/10/2009	2/16/2009	98 ppb
W-3-A	0003	2/10/2009	2/16/2009	23 ppb
W-4-A	0004	2/10/2009	2/16/2009	7.3 ppb
W-1-B	0005	2/10/2009	2/16/2009	65 ppb
W-2-B	0006	2/10/2009	2/16/2009	43 ppb
W-3-B	0007	2/10/2009	2/16/2009	21 ppb
W-4-B	0008	2/10/2009	2/16/2009	61 ppb

Shannon Kauffman, Lead Lab Supervisor
or other approved signatory

The test results contained within this report meet the requirements of NELAC unless otherwise noted. This report relates only to those items tested. Samples received in good condition unless otherwise noted. Quality Control Data associated with this sample set is within acceptable limits, unless otherwise noted
ACCREDITATIONS: NJ-NELAP: 04853, AIHA Environmental Lead Laboratory Approval Program: 100184

Date Printed: 2/17/2009 12:31:54 PM
ChmSnglePrmInQC

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 02/09/09 11:11

INSPECTION FOR: Adv. Environmental Consulting LLC
PO Box 82905
Baton Rouge,
Louisiana 70884

PERFORMED AT: Old Lincoln Theatre
Baton Rouge, Louisiana
70802

INSPECTION DATE: 02/09/09

INSTRUMENT TYPE: R M D

MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1387

ACTION LEVEL: 1.0 mg/cm2

OPERATOR LICENSE: Pb09RA00088

As of 02/09/09,

Yes. Lead based paint was found on this building, but they do not cause a lead hazard in the condition they are in at testing.

SIGNED: Lanny J Herring Date: 02/09/09

Lanny J. Herring
4001 South Dr.
New Iberia,
Louisiana
70563

SUMMARY REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Inspection Date:	02/09/09	Old Lincold Theatre
Report Date:	2/10/2009	1305 Myrtle Walk
Abatement Level:	1.0	Baton Rouge,
Report No.	02/09/09 11:11	Louisiana 70802
Total Readings:	62 Actionable: 4	
Job Started:	02/09/09 11:11	
Job Finished:	02/09/09 13:19	

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg 1									
007	A	Door	Rgt	Door Face	I	Metal	White	1.1	QM
008	A	Door	Rgt	Lft casing	I	Metal	White	1.1	QM
016	B	Door	Rgt	Rgt casing	I	Wood	White	2.3	QM
Interior Room 001 Entry									
027	B	Door	Rgt	Lft casing	I	Wood	White	1.1	QM
Calibration Readings									

---- End of Readings ----

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Inspection Date:	02/09/09	Old Lincold Theatre	
Report Date:	2/10/2009	1305 Myrtle Walk	
Abatement Level:	1.0	Baton Rouge,	
Report No.	02/09/09 11:11	Louisiana 70802	
Total Readings:	62		
Job Started:	02/09/09 11:11		
Job Finished:	02/09/09 13:19		

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.9	TC
2		CALIBRATION								0.9	TC
3		CALIBRATION								1.1	TC
4	001	Bldg 1	A	Wall	Rgt		I	N/A	N/A	-0.1	QM
5	001	Bldg 1	A	Wall	Rgt		I	Brick	Red	0.0	QM
6	001	Bldg 1	A	Wall	Rgt		I	Brick	White	-0.1	QM
7	001	Bldg 1	A	Door	Rgt	Door Face	I	Metal	White	1.1	QM
8	001	Bldg 1	A	Door	Rgt	Lft casing	I	Metal	White	1.1	QM
9	001	Bldg 1	A	Wall	Ctr	Panel	I	Wood	White	-0.1	QM
10	001	Bldg 1	A	Wall	Ctr	Panel Trim	I	Wood	White	-0.2	QM
11	001	Bldg 1	A	Wall	Ctr	GUTTER	I	Wood	Tan	-0.1	QM
12	001	Bldg 1	A	Wall	Ctr	GUTTER	I	Wood	White	0.0	QM
13	001	Bldg 1	B	Wall	Rgt	HA	I	Brick	Tan	-0.1	QM
14	001	Bldg 1	B	Wall	Rgt	Panel	I	Wood	Tan	0.0	QM
15	001	Bldg 1	B	Wall	Rgt	Panel Trim	I	Wood	White	-0.1	QM
16	001	Bldg 1	B	Door	Rgt	Door Face	I	Wood	White	0.1	QM
17	001	Bldg 1	B	Door	Rgt	Lft casing	I	Wood	White	0.1	QM
18	001	Bldg 1	B	Door	Rgt	Rgt casing	I	Wood	White	2.3	QM
19	001	Bldg 1	C	Wall	Rgt		I	Brick	White	-0.4	QM
20	001	Bldg 1	D	Wall	Rgt		I	Brick	Tan	0.2	QM
21	001	Bldg 1	D	Wall	Rgt	Gutter	I	Metal	Tan	-0.1	QM
22	001	Entry	A	Wall	Ctr		I	Drywall	White	0.0	QM
23	001	Entry	B	Wall	Ctr		I	Drywall	Tan	0.1	QM
24	001	Entry	A	Ceiling			I	Dry wall	White	0.0	QM
25	001	Entry	A	Baseboard	Ctr		I	Wood	White	0.1	QM
26	001	Entry	B	Door Face	Rgt		I	Wood	White	0.0	QM
27	001	Entry	B	Door	Rgt	Lft casing	I	Wood	White	1.1	QM
28	002	Snack Bar	A	Ceiling			I	Drywall	White	-0.1	QM
29	002	Snack Bar	A	Baseboard	Ctr		I	Wood	White	-0.1	QM
30	002	Snack Bar	A	Wall	Ctr		I	Drywall	Red	-0.1	QM
31	002	Snack Bar	B	Wall	Ctr		I	Drywall	Red	-0.1	QM
32	002	Snack Bar	C	Wall	Ctr		I	Stucco	Red	0.1	QM
33	002	Snack Bar	A	Counter Shf	Ctr		I	Wood	White	0.2	QM
34	002	Snack Bar	D	Counter Shf	Ctr		I	Wood	White	-0.1	QM
35	002	Snack Bar	D	Trim	Ctr		I	Wood	Red	-0.2	QM
36	003	Mens Bath	B	Wall	Ctr		I	Stucco	White	0.0	QM
37	003	Mens Bath	C	Wall	Ctr		I	Stucco	White	0.4	QM
38	003	Mens Bath	A	AC Vents	Rgt		I	Metal	White	0.0	QM
39	004	Barber Shop	A	Ceiling	Ctr		I	Dry wall	White	-0.3	QM
40	004	Barber Shop	A	Wall	Ctr		I	Stucco	White	-0.1	QM
41	004	Barber Shop	B	Wall	Ctr		I	Stucco	White	-0.1	QM
42	004	Barber Shop	C	Wall	Ctr		I	Stucco	White	0.2	QM
43	004	Barber Shop	D	Wall	Ctr		I	Stucco	White	0.2	QM
44	004	Barber Shop	A	Wall	Ctr		I	Stucco	White	-0.1	QM
45	004	Barber Shop	A	Door Face	Ctr		I	Wood	Black	0.4	QM
46	004	Barber Shop	A	Door	Ctr	Lft casing	I	Wood	black	0.0	QM
47	004	Barber Shop	A	Door Face	Ctr		I	Wood	black	0.5	QM

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Read No.	Rm No.	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
48	004	Barber Shop	A	Door	Lft	Lft casing	I	Wood	black	0.6	QM
49	005	Ladies Bath	A	Window	Lft	Lft Casing	P	Stucco	White	0.3	QM
50	006	Office 5	A	Window	Lft	Lft Casing	P	Stucco	White	-0.1	QM
51	007	THEATER	C	Window	Ctr	Lft Casing	P	Stucco	White	-0.1	QM
52	008	THEATER	A	Wall	Ctr		I	Stucco	White	0.2	QM
53	008	THEATER	A	Wall	Ctr		I	Stucco	Red	0.6	QM
54	008	THEATER	B	Wall	Ctr		I	Stucco	White	0.2	QM
55	008	THEATER	B	Wall	Ctr		I	Stucco	Red	0.1	QM
56	009	THEATER	C	Door	Lft	Door Faces	I	Metal	White	0.6	QM
57	009	THEATER	C	Door	Lft	Lft casing	I	Wood	White	0.5	QM
58	008	THEATER	C	Door	Rgt	Door Faces	I	Metal	White	0.7	QM
59	008	THEATER	C	Door	Rgt	Lft casing	I	Wood	White	0.6	QM
60		CALIBRATION								1.1	TC
61		CALIBRATION								1.1	TC
62		CALIBRATION								1.1	TC

---- End of Readings ----

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Inspection Date: 02/09/09
Report Date: 2/10/2009
Abatement Level: 1.0
Report No. 02/09/09 11:11
Total Readings: 62
Job Started: 02/09/09 11:11
Job Finished: 02/09/09 13:19

Old Lincold Theatre
1305 Myrtle Walk
Baton Rouge,
Louisiana 70802

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
Exterior Room 001 Bldg 1									
009	A	Wall	Ctr	Panel	I	Wood	White	-0.1	QM
010	A	Wall	Ctr	Panel Trim	I	Wood	White	-0.2	QM
011	A	Wall	Ctr	GUTTER	I	Wood	Tan	-0.1	QM
012	A	Wall	Ctr	GUTTER	I	Wood	White	0.0	QM
005	A	Wall	Rgt		I	Brick	Red	0.0	QM
006	A	Wall	Rgt		I	Brick	White	-0.1	QM
007	A	Door	Rgt	Door Face	I	Metal	White	1.1	QM
008	A	Door	Rgt	Lft casing	I	Metal	White	1.1	QM
004	A	Wall	Rgt		I	N/A	N/A	-0.1	QM
013	B	Wall	Rgt	HA	I	Brick	Tan	-0.1	QM
014	B	Wall	Rgt	Panel	I	Wood	Tan	0.0	QM
015	B	Wall	Rgt	Panel Trim	I	Wood	White	-0.1	QM
016	B	Door	Rgt	Door Face	I	Wood	White	0.1	QM
018	B	Door	Rgt	Rgt casing	I	Wood	White	2.3	QM
017	B	Door	Rgt	Lft casing	I	Wood	White	0.1	QM
019	C	Wall	Rgt		I	Brick	White	-0.4	QM
020	D	Wall	Rgt		I	Brick	Tan	0.2	QM
021	D	Wall	Rgt	Gutter	I	Metal	Tan	-0.1	QM
Interior Room 001 Entry									
024	A	Ceiling			I	Dry wall	White	0.0	QM
022	A	Wall	Ctr		I	Drywall	White	0.0	QM
025	A	Baseboard	Ctr		I	Wood	White	0.1	QM
027	B	Door	Rgt	Lft casing	I	Wood	White	1.1	QM
023	B	Wall	Ctr		I	Drywall	Tan	0.1	QM
026	B	Door Face	Rgt		I	Wood	White	0.0	QM
Interior Room 002 Snack Bar									
028	A	Ceiling			I	Drywall	White	-0.1	QM
029	A	Baseboard	Ctr		I	Wood	White	-0.1	QM
030	A	Wall	Ctr		I	Drywall	Red	-0.1	QM
033	A	Counter Shf	Ctr		I	Wood	White	0.2	QM
031	B	Wall	Ctr		I	Drywall	Red	-0.1	QM
032	C	Wall	Ctr		I	Stucco	Red	0.1	QM
034	D	Counter Shf	Ctr		I	Wood	White	-0.1	QM
035	D	Trim	Ctr		I	Wood	Red	-0.2	QM
Interior Room 003 Mens Bath									
038	A	AC Vents	Rgt		I	Metal	White	0.0	QM
036	B	Wall	Ctr		I	Stucco	White	0.0	QM
037	C	Wall	Ctr		I	Stucco	White	0.4	QM
Interior Room 004 Barber Shop									
048	A	Door	Lft	Lft casing	I	Wood	black	0.6	QM
046	A	Door	Ctr	Lft casing	I	Wood	black	0.0	QM
039	A	Ceiling	Ctr		I	Dry wall	White	-0.3	QM
040	A	Wall	Ctr		I	Stucco	White	-0.1	QM
044	A	Wall	Ctr		I	Stucco	White	-0.1	QM
045	A	Door Face	Ctr		I	Wood	Black	0.4	QM

DETAILED REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Reading No.	Wall	Structure	Location	Member	Paint Cond	Substrate	Color	Lead (mg/cm²)	Mode
047	A	Door Face	Ctr		I	Wood	black	0.5	QM
041	B	Wall	Ctr		I	Stucco	White	-0.1	QM
042	C	Wall	Ctr		I	Stucco	White	0.2	QM
043	D	Wall	Ctr		I	Stucco	White	0.2	QM
Interior Room 005 Ladies Bath									
049	A	Window	Lft	Lft Casing	P	Stucco	White	0.3	QM
Interior Room 006 Office 5									
050	A	Window	Lft	Lft Casing	P	Stucco	White	-0.1	QM
Interior Room 007 THEATER									
051	C	Window	Ctr	Lft Casing	P	Stucco	White	-0.1	QM
Interior Room 008 THEATER									
052	A	Wall	Ctr		I	Stucco	White	0.2	QM
053	A	Wall	Ctr		I	Stucco	Red	0.6	QM
054	B	Wall	Ctr		I	Stucco	White	0.2	QM
055	B	Wall	Ctr		I	Stucco	Red	0.1	QM
056	C	Door	Lft	Door Faces	I	Metal	White	0.6	QM
058	C	Door	Rgt	Door Faces	I	Metal	White	0.7	QM
059	C	Door	Rgt	Lft casing	I	Wood	White	0.6	QM
Interior Room 009 THEATER									
057	C	Door	Lft	Lft casing	I	Wood	White	0.5	QM
Calibration Readings									
001								0.9	TC
002								0.9	TC
003								1.1	TC
060								1.1	TC
061								1.1	TC
062								1.1	TC

---- End of Readings ----

DISTRIBUTION REPORT OF LEAD PAINT INSPECTION FOR: Adv. Environmental Consulting

Inspection Date:	02/09/09	Old Lincold Theatre
Report Date:	2/10/2009	1305 Myrtle Walk
Abatement Level:	1.0	Baton Rouge,
Report No.	02/09/09 11:11	Louisiana 70802
Total Reading Sets:	56	
Job Started:	02/09/09 11:11	
Job Finished:	02/09/09 13:19	

Structure	Total	Structure Distribution Positive	Negative	Inconclusive
AC Vents	1	0 <0%>	1 <100%>	0 <0%>
Baseboard	2	0 <0%>	2 <100%>	0 <0%>
Ceiling	3	0 <0%>	3 <100%>	0 <0%>
Counter Shf	2	0 <0%>	2 <100%>	0 <0%>
Door Door Face	2	1 <50%>	1 <50%>	0 <0%>
Door Door Faces	2	0 <0%>	2 <100%>	0 <0%>
Door Face	3	0 <0%>	3 <100%>	0 <0%>
Door Lft casing	7	2 <29%>	5 <71%>	0 <0%>
Door Rgt casing	1	1 <100%>	0 <0%>	0 <0%>
Trim	1	0 <0%>	1 <100%>	0 <0%>
Wall	21	0 <0%>	21 <100%>	0 <0%>
Wall Gutter	3	0 <0%>	3 <100%>	0 <0%>
Wall HA	1	0 <0%>	1 <100%>	0 <0%>
Wall Panel	2	0 <0%>	2 <100%>	0 <0%>
Wall Panel Trim	2	0 <0%>	2 <100%>	0 <0%>
Window Lft Casing	3	0 <0%>	3 <100%>	0 <0%>
Inspection Totals:	56	4 < 7%>	52 < 93%>	0 < 0%>

From: Glenn Johnson
To: Kay Nall;
Subject: RE: email address for revised results
Date: Thursday, February 19, 2009 9:53:41 AM
Attachments: CCF02192009_00000.pdf

There were 15 sample locations of paint on walls on the interior of the structure.
None of the sampled surfaces on the interior came back positive for lead above regulatory limits.

The only positive samples were on exterior of entrance door.

Hope this helps.

Glenn L. Johnson
Advanced Environmental Consulting, LLC
P. O. Box 82905
Baton Rouge, LA 70884

Office 225-753-4031 Fax 225-753-4033

From: Kay Nall [mailto:knal@qri.com]
Sent: Thursday, February 19, 2009 9:35 AM
To: gjohnson@advenvir.com
Subject: email address for revised results

Glenn,

I wanted to give you my email address so that you can send the revised report to me for the Lincoln Theater results.

Thanks.

Kay S. Nall
Vice President, Technical Services

QUATERNARY RESOURCE INVESTIGATIONS, L.L.C.

US SBA 8(a) • US SBA SDB • US WBE • LA DBE • Houston W/DBE • DFW W/DBE

Baton Rouge ◆ Houston

Government & Industry in Harmony with the Environment

13588 Florida Blvd.
Baton Rouge, LA 70819

02091111.TXT

LEAD PAINT INSPECTION REPORT

REPORT NUMBER: 02/09/09 11:11

INSPECTION FOR: Adv. Environmental Consulting

PERFORMED AT: Old Lincoln Theatre
1305 Myrtle Walk
Baton Rouge,
Louisiana 70802

INSPECTION DATE: 02/09/09

INSTRUMENT TYPE: R M D
MODEL LPA-1
XRF TYPE ANALYZER
Serial Number: 1387

ACTION LEVEL: 1.0 mg/cm**2

OPERATOR LICENSE: Pb09RA00088

STATEMENT: As of 02/09/09,

Yes, lead based paint was found on this building.

SIGNED _____ DATE _____
Env. Services Group LLC
Lanny J. Herring
4001 South Dr.
New Iberia,
Louisiana 70563

SEQUENTIAL REPORT OF LEAD PAINT INSPECTION FOR:Adv. Environmental Consulting

Inspection Date:	02/09/09	Old Lincold Theatre
Report Date:	2/10/2009	1305 Myrtle Walk
Abatement Level:	1.0	Baton Rouge,
Report No.	02/09/09 11:11	Louisiana 70802
Total Readings:	62	
Job Started:	02/09/09 11:11	
Job Finished:	02/09/09 13:19	

Read No.	Rm	Room Name	Wall	Structure	Location	Member	Paint Cond	Substrate	Paint Color	Lead (mg/cm²)	Mode
1		CALIBRATION								0.9	TC
2		CALIBRATION								0.9	TC
3		CALIBRATION								1.1	TC
4	001	Bldg 1	A	Wall		Rgt	I	N/A	N/A	-0.1	QM

5	001 Bldg 1	A	Wall	Rgt	I	Brick	Red	0.0
QM								
6	001 Bldg 1	A	Wall	Rgt	I	Brick	White	-0.1
QM								
7	001 Bldg 1	A	Door	Rgt Door Face	I	Metal	White	1.1
QM								
8	001 Bldg 1	A	Door	Rgt Lft casing	I	Metal	White	1.1
QM								
9	001 Bldg 1	A	Wall	Ctr Panel	I	Wood	White	-0.1
QM								
10	001 Bldg 1	A	Wall	Ctr Panel Trlm	I	Wood	White	-0.2
QM								
11	001 Bldg 1	A	Wall	Ctr GUTTER	I	Wood	Tan	-0.1
QM								
12	001 Bldg 1	A	Wall	Ctr GUTTER	I	Wood	White	0.0
QM								
13	001 Bldg 1	B	Wall	Rgt NA	I	Brick	Tan	-0.1
QM								
14	001 Bldg 1	B	Wall	Rgt Panel	I	Wood	Tan	0.0
QM								
15	001 Bldg 1	B	Wall	Rgt Panel Trlm	I	Wood	White	-0.1
QM								
16	001 Bldg 1	B	Door	Rgt Door Face	I	Wood	White	0.1
QM								
17	001 Bldg 1	B	Door	Rgt Lft casing	I	Wood	White	0.1
QM								
18	001 Bldg 1	B	Door	Rgt Rgt casing	I	Wood	White	2.3
QM								
19	001 Bldg 1	C	Wall	Rgt	I	Brick	White	-0.4
QM								
20	001 Bldg 1	D	Wall	Rgt	I	Brick	Tan	0.2
QM								
21	001 Bldg 1	D	Wall	Rgt Gutter	I	Metal	Tan	-0.1
QM								
22	001 Entry	A	Wall	Ctr	I	Drywall	White	0.0
QM								
23	001 Entry	B	Wall	Ctr	I	Drywall	Tan	0.1
QM								
24	001 Entry	A	Ceiling		I	Dry wall	White	0.0
QM								
25	001 Entry	A	Baseboard	Ctr	I	Wood	White	0.1
QM								
26	001 Entry	C	Door Face	Rgt	I	Wood	White	0.0
QM								
27	001 Entry	C	Door	Rgt Lft casing	I	Wood	White	1.1
QM								
28	002 Snack Bar	A	Ceiling		I	Drywall	White	-0.1
QM								
29	002 Snack Bar	A	Baseboard	Ctr	I	Wood	White	-0.1
QM								
30	002 Snack Bar	A	Wall	Ctr	I	Drywall	Red	-0.1
QM								
31	002 Snack Bar	B	Wall	Ctr	I	Drywall	Red	-0.1
QM								
32	002 Snack Bar	C	Wall	Ctr	I	Stucco	Red	0.1
QM								
33	002 Snack Bar	A	Counter Shf	Ctr	I	Wood	White	0.2
QM								
34	002 Snack Bar	D	Counter Shf	Ctr	I	Wood	White	-0.1
QM								
35	002 Snack Bar	D	Trim	Ctr	I	Wood	Red	-0.2
QM								
36	003 Mens Bath	B	Wall	Ctr	I	Stucco	White	0.0

QM								
37	003 Mens Bath	C	Wall	Ctr	I	Stucco	White	0.4
QM								
38	003 Mens Bath	A	AC Vents	Rgt	I	Metal	White	0.0
QM								
39	004 Barber Shop	A	Ceiling	Ctr	I	Dry wall	White	-0.3
QM								
40	004 Barber Shop	A	Wall	Ctr	I	Stucco	White	-0.1
QM								
41	004 Barber Shop	B	Wall	Ctr	I	Stucco	White	-0.1
QM								
42	004 Barber Shop	C	Wall	Ctr	I	Stucco	White	0.2
QM								
43	004 Barber Shop	A	Door Face	Ctr	I	wood	Black	0.2
QM								
44	004 Barber Shop	A	Door	Ctr Lft casing	I	Wood	Black	-0.1
QM								
45	004 Barber Shop	A	Door Face	Ctr	I	Wood	Black	0.4
QM								
46	004 Barber Shop	A	Door	Ctr Lft casing	I	Wood	black	0.0
QM								
47	005 Ladies Bath	A	Window	lft Lft casingl	P	Stucco	White	0.
48	005 Ladies Bath	A	Wall	CtrI Wood	P	Stucco		black
0.6	QM							
49	005 Ladies Bath	B	wall	Ctr	P	Stucco	White	0.3
QM								
50	006 Office 5	A	window	Lft Lft Casing	P	Stucco	white	-0.1
QM								
51	006 Office 5	B	Wall	Ctr	P	Stucco	White	-0.1
QM								
52	006 Office 5	C	wall	Ctr	I	Stucco	White	0.2
QM								
53	008 THEATER	A	wall	Ctr	I	Stucco	Red	0.6
QM								
54	008 THEATER	C	wall	Ctr	I	Stucco	white	0.2
QM								
55	008 THEATER	D	wall	Ctr	I	Stucco	Red	0.1
QM								
56	008 THEATER	C	Door	Lft Door Faces	I	Metal	White	0.6
QM								
57	009 THEATER	C	Door	Lft Lft casing	I	Wood	White	0.5
QM								
58	008 THEATER	C	Door	Rgt Door Faces	I	Metal	White	0.7
QM								
59	008 THEATER	C	Door	Rgt Lft casing	I	Wood	White	0.6
QM								
60	CALIBRATION							1.1
TC								
61	CALIBRATION							1.1
TC								
62	CALIBRATION							1.1
TC								

---- End of Readings ----

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

JUL 16 2010

Certified Mail– 7006 0810 0003 0355 7463
Return Receipt Requested

Mr. Melvin "Kip" Holden, President
East Baton Rouge Parish
Post Office Box 1471
Baton Rouge, LA 70821

RE: Closure of an Emergency Disaster Cleanup Site
East Baton Rouge Parish – BREC N Sherwood Forest Blvd, Ward's Creek, and LSU Ag Center Debris Sites, AI 160657, 160701, and 163330
East Baton Rouge Parish

Dear Mr. Holden:

The Louisiana Department of Environmental Quality (LDEQ), granted East Baton Rouge Parish authorization to use the above-referenced sites as temporary locations for the management of hurricane generated debris associated with the aftermath of Hurricanes Gustav and Ike.

On June 29, 2010, inspections were conducted by the LDEQ to ensure that the sites have been closed in accordance with the requirements of our Debris Management Plan. Based upon the evaluation performed during the site visits, it has been determined that the Parish has completed the debris management activities and the necessary closure requirements. Therefore, the subject sites are hereby considered closed and shall not accept or process any additional Hurricanes Gustav and Ike generated debris.

If you have any questions regarding this matter, please contact Dr. Lorna Putnam Duhon of the Waste Permits Division at (225) 219-3139.

Sincerely,

Sam Phillips
Administrator

lapd

c: Bobby Mayweather, Capital Regional Office
Phyllis Luke

1402

SOLID WASTE PERMITS ROUTING/APPROVAL SLIP

AI No.	160657, 160701, 163330	**Company/Facility**	East Baton Rouge Parish – BREC, Ward's Creek and LSU Ag Center Debris Sites	**Date Routed**	7/6/10
SW ID No.	N/A	**Parish**	East Baton Rouge	**Permit Type**	☐ I ☐ I-A ☐ II ☐ II-A ☐ III ☐ Waste Tire
Permit No.	N/A	**TEMPO Activity No.**	PER20080001 and 20090001 (163330)	**Originator**	Lorna Putnam

☐ Tech. Complete Application	☐ Draft Permit	☐ Final Permit	☐ Major Modification	☐ Minor Modification	☐ Order to Close
☐ Order to Commence	☐ Closure Plan	☐ NOD/Technical Review	☐ Extension	☒ Correspondence	☐ Other

Description of Document: Closure of Gustav debris sites

1. Technical Review	Date Received	Date Returned to Originator, if done	Comments	Approved/ Initials	Date Forwarded
ES				[illegible]	7/6
Engineering					
Geology					
Fin. Assurance					
Tech. Advisor					
Legal					
Other					

2. Management Review	Date Received	Date Returned to Originator, if done	Comments	Approved/ Initials	Date Forwarded
Supervisor			>manager	GB	7/7/10
Manager	7/7			[illegible]	7/8/10
Administrator				[illegible]	7/14/10
Asst. Secretary					
Secretary					

3. Waste Permits routed to the Asst. Secretary of OES		Comments (If additional space is needed, use continuation sheet)
a. Were public comments received?	☐ Y ☐ N	If yes, provide comments.
b. Is a Basis For Decision document included?	☐ Y ☐ N	
c. Is a Reasons For Denial document included?	☐ Y ☐ N	
d. Is financial assurance in place?	☐ Y ☐ N	If no, provide comments.
e. Are there any outstanding fees?	☐ Y ☐ N	If yes, provide comments.
f. Are there any unresolved enforcement actions?	☐ Y ☐ N	If yes, provide comments.
g. Are there adverse effects on coastal protection and restoration?	☐ Y ☐ N	If yes, provide comments.
h. If the answer to 3.g. is yes, does the facility have a coastal use permit?	☐ Y ☐ N	If no, provide comments.
i. Include a copy of the IT questions (responses to LAC 33:VII.523) from the technically complete permit application in the folder, if not already included in a Basis For Decision or Reasons For Denial.		

4. Orders to Commence routed to the Asst. Secretary of OES		Comments (If additional space is needed, use continuation sheet)
a. Does Executive Order BJ2009-7 apply?	☐ Y ☐ N	If yes, include copy of zoning documentation. If no, provide comments.

	Include copy in folder.	Include copy in folder.	Include copy in folder.
☐ TEMPO Data Entry Completed	Date Completed		

form_7267_r00
3/12/10

BOBBY JINDAL
GOVERNOR

HAROLD LEGGETT, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

FEB 27 2009

CERTIFIED MAIL #: 7005 0390 0006 1027 2617
CERTIFIED MAIL RETURN RECEIPT

Mr. Dale Frederick
LSU Agricultural Center
J. Norman Efferson Hall
Baton Rouge, LA 70803

RE: Temporary Storm Debris Management Approval
Parish AI#159122
Gustav AI#160278

Dear Mr. Frederick:

Due to the widespread damage caused by Hurricane Gustav, the Louisiana Department of Environmental Quality (LDEQ), Office of Environmental Services, Waste Permits Division issues this approval to LSU Agricultural Center to operate temporary storm debris (vegetative debris) management areas. Interim approval was previously granted by the department for these activities. Formal approval is now granted by the department for the sites listed below:

Site Name	Site AI#	Activity
1. LSU Agricultural Center	163330	Chip/Grind

This approval will allow for more efficient and expeditious management of the high volumes of storm debris resulting from Hurricane Gustav and is valid for sixty days (60) from the date of this letter or until the Declaration of Emergency and Administrative Order issued August 31, 2008 and subsequent amendments and extensions terminate, whichever is longer. However, the LDEQ reserves the right to reduce, rescind or extend the timeframe of this temporary approval.

Please be aware that this letter does not authorize the onsite disposal of any kind. A separate request for purposes other than the activity which is approved in this letter must be submitted to and approved by the LDEQ. Additionally, a copy of this letter must be maintained at the operation site at all times. It is the responsibility of the LSU Agricultural Center contracting authority to provide the operator a copy of this letter and any applicable operational criteria.

It is imperative that the debris collected as a result of this emergency event be managed not only in an environmentally sound manner, but also in accordance with the appropriate LDEQ rules and regulations

governing the storage and processing of this type of waste. The **applicant/ LSU Agricultural Center** requesting the debris site(s) as well as the **site operator(s)/contractor**, are responsible for compliance with the appropriate LDEQ rules and regulations. Failure to comply with these rules and regulations may result in a formal referral to the Enforcement Division and the possible issuance of civil orders and/or assessment of civil penalties.

If you have any questions concerning this matter, please contact Elizabeth Kashefi at 225-219-3068.

Sincerely,

Cheryl Sonnier Nolan
Assistant Secretary

EC: Regional Office
Toni Evans
Betty Brousseau
Daniel Lambert
David Oge'
_DEQ-Gustimline

Attachment

Weekly Debris Management Report

REVISED - SEPTEMBER 15, 2008

of Louisiana Comprehensive Plan for Disaster Clean Up and Debris Management mandates that vegetative debris intended for final disposal in a landfill shall be reduced fifty percent by volume and fifty percent by weight prior to the landfill. (See La. R.S. 30:2413.1)

MIT COMPLETED FORM TO THE LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY EACH WEEK, STARTING SUNDAY SEPTEMBER 21, 2008. FORMS SHALL BE SUBMITTED NO LATER THAN EACH SUNDAY.

Parish: _____

Site Location: _____ Contact Person: _____

ncy Interest #: _____ Phone Number: _____

Contractor: _____

Phone Number: _____

TORING DATES: _____ to _____

	VOLUME	WEIGHT calculated	WEIGHT scale
Volume of Vegetative Debris Received This Week:	cubic yards	tons	tons
Volume of Vegetative Debris Received To Date:	cubic yards	tons	tons
Volume of Vegetative Debris Processed This Week: CHIPPED	cubic yards	tons	tons
BURNED	cubic yards	tons	tons
_____ OTHER	cubic yards	tons	tons
Volume of Vegetative Debris Processed To Date: CHIPPED	cubic yards	tons	tons
BURNED	cubic yards	tons	tons
_____ OTHER	cubic yards	tons	tons
Volume of Vegetative Debris Recycled (Used as Fuel, Etc. - Please Specify _____) This Week:	cubic yards	tons	tons
Volume of Vegetative Debris Recycled (Used as Fuel, Etc. - Please Specify _____) To Date:	cubic yards	tons	tons
Volume of Vegetative Debris Sent to Landfill For Final Disposal This Week:	cubic yards	tons	tons
Volume of Vegetative Debris Sent to Landfill For Final Disposal To Date:	cubic yards	tons	tons

(Use Scale or Divide Cubic Yards by 6 to determine tons . Please See Attached Instructions)

_____
Name of Landfill/Parish Location

Y UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED NNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR LING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR TING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

_____
Name/Title of Responsible Party - Typed or Printed

_____
Signature

_____
Date

Please Fax or Email this Form to Kathryn Liuzza, Ph.D.
Fax: (225) 219-3158
Email: kathryn.liuzza@la.gov
Phone: (225) 219-3007

Instructions for Completing the

Weekly Debris Management Report*

The State of Louisiana Comprehensive Plan for Disaster Clean Up and Debris Management mandates that vegetative debris intended for final disposal in a landfill shall be reduced fifty percent by volume and fifty percent by weight prior to transport to the landfill. (See La. R.S. 30:2413.1)

In an effort to encourage recycling, the beneficial use of vegetative debris, and the efficient management of debris generated by Hurricane Gustav, the Department of Environmental Quality (LDEQ) will require all debris management sites to submit a Weekly Debris Management Report. These weekly reports will indicate the volume and weight of debris received, processed, recycled, and finally disposed in a landfill.

Volumes and weights can be determined using the following methods:

1. Debris Weight is preferably measured by using a scale. If no scale is available, determine the debris weight using the following volume to weight conversion factor:

Cubic yards of debris ÷ 6 = tons of debris

Do not use the conversion factor of "6" if a scale or other approved method is utilized to determine the weight. Please use the same method to determine the weight of received, processed, and disposed debris.

2. Truck Capacity = length * width * height of the truck bed

3. Net Truck Volume = Truck Capacity * % full (for a full truck load assume 1)

Other approved FEMA methods may be used. Please document on the form which method is used.

4. Volume of Vegetative Debris Received = Sum of all Net Truck Volumes

5. Volume of Vegetative Debris Processed (i.e. chipped, burned, etc.) is the quantity of the vegetative debris received that was sent for processing.

6. Volume of Vegetative Debris Recycled (used as fuel, etc.) is the quantity of the vegetative debris received that was sent for a beneficial use.

7. Volume of Vegetative Debris sent to a Landfill for Final Disposal is the quantity of the vegetative debris received that was sent to a landfill for final disposal.

*Please note that the Weekly Debris Management Report shall be submitted to the LDEQ no later than each Sunday beginning Sunday, September 21, 2008. The report must be true, accurate, and complete. Failure to properly complete the report could subject the responsible party to civil and/or criminal penalties. Furthermore, failure to submit an accurate report timely could subject the responsible party to enforcement action by the

Temporary Chipping and Grinding Operation Criteria

1. Access to the site must be controlled to prevent unauthorized dumping and scavenging;

2. The site must have spotters to correctly identify and segregate waste types for appropriate management;

3. All other applicable requirements contained in the Emergency Declaration must be followed;

4. The site is limited to managing debris indicated in the Department's letter of approval;

5. Unless otherwise approved by the Department in response to a written request from you, the site must cease operation, and all Hurricane Gustav-generated debris must be removed from the site within sixty days (60) days upon the expiration of this letter, the Emergency Declaration or the subsequent amendments or extensions whichever is longer;

6. Debris piles, including chips, shredded material shall be managed in accordance with the Comprehensive Plan for Disaster Clean-up and Debris Management;

7. Vehicles used to transport trees, tree limbs, construction materials, or metals shall contain such waste without allowing materials to fall or blow off the vehicle, in accordance with Louisiana environmental regulations (see LAC 33:VII.505.A.2).

8. Upon completion of this activity, the site must be cleared in accordance with the Comprehensive Plan for Disaster Clean-up and Debris Management and as directed by LDEQ;

9. Keep records of approximate volumes of vegetative debris chipped or ground and submit the information on the attached **Weekly Debris Management Report** to the LDEQ, Office of Environmental Services, Waste Permits Division on each **Sunday, starting September 21, 2008.** The report should include Agency Interest # for this location.

LDEQ contact: Linda M. Brown (225) 219-3070 linda.brown@la.gov

WASTE PERMITS ROUTING/APPROVAL SLIP

159122

AI No.	160278	Company/Fac	LSU Ag Center	Date Routed	2/25/2009
ID No.		Location	EBR	Permit Type	☐ HW ☒ SW ☐ Other
Permit No.		Activity No.		Originator	Elizabeth Kashefi

Tech Complete Application	Draft Permit	Final Permit	Minor Mod	Major Mod	NOD	Corresp.	Closure Plan	Other
☐	☐	☐	☐	☐	☐	☐	☐	☐

Description of Document: Gustav Debris Site Approval

1. Technical Review		Date	Initials	Return to Originator	Comments
ES	☐			☐ Y ☐ N	
Engineering	☐			☐ Y ☐ N	
Geology	☐			☐ Y ☐ N	
Financial Assurance	☐			☐ Y ☐ N	
Technical Advisor	☐			☐ Y ☐ N	
Legal	☐			☐ Y ☐ N	
Other	☐			☐ Y ☐ N	
2. Management Review		**Date**	**Initials**		**Comments**
Supervisor	☐			☐ Y ☐ N	
Manager	☐			☐ Y ☐ N	
Administrator	☐			☐ Y ☐ N	
Assistant Secretary	☒	2/25/09	CSW	☐ Y ☐ N	
Secretary	☐			☐ Y ☐ N	
Other	☐			☐ Y ☐ N	

☐ **TEMPO Data Entry Completed (Date Completed)** 27 April 2009

Revised 08/07/08

OMB#: 2050-0175

MAIL COMPLETED FORM TO:	United States Environmental Protection Agency and **STATE OF LOUISIANA** **DEPARTMENT OF ENVIRONMENTAL QUALITY** **NOTIFICATION OF HAZARDOUS WASTE ACTIVITY** **RCRA SUBTITLE C SITE IDENTIFICATION FORM**	
LDEQ/OES/ Environmental Assistance Division/CAS PO Box 4313 Baton Rouge, LA 70821-4313		

1. Reason for Submittal (CHOOSE ONLY ONE REASON PER SUBMITTAL)

A. Reason for Submittal:

- ☒ To provide initial notification (to obtain an EPA ID Number for hazardous waste, universal waste, or used oil activities).
- ☐ To provide subsequent notification (to update site identification information).

or

- ☐ As a component of a First RCRA Hazardous Waste Part A Permit Application.
- ☐ As a component of a Revised RCRA Hazardous Waste Part A Permit Application (Amendment #_____).

or

- ☐ As a component of the Hazardous Waste Report.

B. Number of Employees:

2. Site EPA ID Number

EPA ID Number: LAR000073932 AI 51443 ✓

3. Site Name

Legal Name: US. EPA/McKinley H.S. Mercury Spill

4. Site Location (Physical address, NOT PO Box or Route)

Street Address: 800 E. McKinley St.

City, Town, or Village: Baton Rouge **State:** Louisiana

County/Parish Name: East Baton Rouge **Zip Code:** 70802

5. Site Land Type

Site Land Type: ☒ Private ☐ County/Parish ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

6. North American Industry Classification System (NAICS) Code(s)

A. **B.**

C. **D.**

7. Site Mailing Address

Street or P. O. Box:

City, Town, or Village: Same

State:

County/Parish Name: **Zip Code:**

8. Site Contact Person

First Name: Mark **MI:** **Last Name:** Hayes

Phone Number: 214-665-2705 **Phone Number Extension:**

9. Legal Owner and Operator of the Site (see instructions)

A. Name of Site's Legal Owner: **Date Became Owner (mm/dd/yyyy):**

Owner Type: ☐ Private ☐ County/Parish ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

B. Name of Site's Operator: McKinley H.S. **Date Became Operator (mm/dd/yyyy):** 1961

Operator Type: ☐ Private ☐ County/Parish ☐ District ☐ Federal ☐ Indian ☐ Municipal ☐ State ☐ Other

~~Same as Page 1 of EPA Form 8700-12~~

Regs & Certs

Lm RCRA Info 8/12/11
Lm TEMPO 8/12/11

Same as Page 1 of EPA Form 8700-23

OMB#: 2050-0175

EPA ID No. | | | | | | | | | | | | |

10. Type of Regulated Waste Activity (Mark 'X' in the appropriate boxes)

A. Hazardous Waste Activities

1. Generator of Hazardous Waste

(Select one of the following categories)

☒ a. LQG: Greater than 1,000 kg/mo (2,200 lbs.) Non-acute hazardous waste; or

☐ b. SQG: 100 to 1,000 kg/mo (220 - 2,200 lbs.) Non-acute hazardous waste; or

☐ c. CESQG: Less than 100 kg/mo Non-acute hazardous waste

☐ d. NON-GENERATOR

In addition, indicate other generator activities (check all that apply)

☐ e. United States Importer of Hazardous Waste

☐ f. Mixed Waste (hazardous and radioactive) Generator

For items 2 through 6, check all that apply:

☐ **2. Transporter of Hazardous Waste**

☐ Transfer Facility Status (Transporter status must be indicated above)

☐ **3. Treater, Storer, or Disposer of HW (at your site)**
Note: A hazardous waste permit is required for this activity.

☐ Permitted ☐ Interim Status ☐ Proposed

☐ **4. Recycler of Hazardous Waste (at your site)**
Note: A hazardous waste permit may be required for this activity.

5. Exempt Boiler and/or Industrial Furnace

☐ a. Small Quantity On-site Burner Exemption
☐ b. Smelting, Melting, Refining Furnace Exemption

☐ **6. Underground Injection Control**

B. Universal Waste Activities (Indicate Activity Type)

☐ **1. Large Quantity Handler of Universal Waste [refer to your State regulations to determine what is regulated]. Indicate types of universal waste generated and/or accumulated at your site. (check all boxes that apply):**

	Generated	Accumulated
a. Batteries	☐	☐
b. Pesticides	☐	☐
c. Thermostats	☐	☐
d. Lamps	☐	☐
e. Antifreeze	☐	☐

☐ **2. Destination Facility for Universal Waste**
Note: A hazardous waste permit may be required for this activity.

C. Used Oil Activities (Indicate Activity Type)

☐ **1. Used Oil Transporter**

☐ a. Transporter
☐ b. Transfer Facility

☐ **2. Used Oil Processor and/or Re-refiner**

☐ a. Processor
☐ b. Re-refiner

☐ **3. Off-Specification Used Oil Burner**

☐ **4. Used Oil Fuel Marketer**

☐ a. Marketer Who Directs Shipment of Off-Specification Used Oil to Off-Specification Used Oil Burner
☐ b. Marketer Who First Claims the Used Oil Meets the Specifications

☐ **5. Used Oil Fuel Burner (Indicate Combustion Device(s))**

☐Utility Boiler ☐Industrial Boiler ☐Industrial Furnace

11. Description of Hazardous Wastes

A. Waste Codes for Federally Regulated Hazardous Wastes. Please list the waste codes of the Federal hazardous wastes handled at your site. List them in the order they are presented in the regulations (e.g., D001, D003, F007, U112). Use an additional page if more spaces are needed.

D009	U151					

OMB#: 2050-0175

EPA ID No.												

B. Waste Codes for State-Regulated (i.e., non-Federal) Hazardous Wastes. Please list the waste codes of the State-regulated hazardous wastes handled at your site. List them in the order they are presented in the regulations. Use an additional page if more spaces are needed for waste codes.

12. Comments

13. Certification. I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Signature of owner, operator, or an authorized representative	Name and Official Title (type or print)	Date Signed (mm-dd-yyyy)
Mark Hayes	Mark Hayes, FOSC	08-12-2011

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 132979

Incident Description

Incident Type:	Release/Spill, Miscellaneous
Incident Date:	8/8/2011 15:55:00
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	800 E. McKinley
Lat/Lon:	
Basin/Segment:	
Substance(s):	
	Mercury
Media Impacted:	Soil
Incident Desc:	s11-2549 reporting a spill of mercury from a broken thermometer CML

Incident Status

Lead Investigator:	Chris Rajewski
Incident Region:	Capital
Incident Status:	Pending Review
Followup Status:	Closed
As Of:	8/16/2011 00:00:00

Incident Reporter 1

Received By:	Spo Contact
Received Date:	8/8/2011 15:55:00
Dispatch #:	s11-2549
Reported By:	Corey Malveaux
Phone:	225-229-0291 cell (Work phone number)
Reporter Title:	
Organization:	EBR School System
Address:	
Municipality:	
State:	LA
Zip Code:	
Comments:	

INCIDENT REPORT

Incident ID: 132979

Incident Source 1

Source Name: McKinley Senior High School
Address: 800 E McKinley St

Municipality: Baton Rouge
State: LA
Phone:

Parish: East Baton Rouge
AI #: 51443
Related Permits:

Comments: McKinley Senior High School
August 8, 2011
Tempo#132979

On August 8, 2011 at approximately 1600 hours Louisiana Department of Environmental Quality Emergency Responder (LDEQ-ER) Chris Rajewski, Peter Michgelsen, and Peter Ricca responded to McKinley Senior High School concerning a mercury (CAS# 07439-97-6) spill. According to Coey Malveaux, East Baton Rouge School District Environmental Specialist, on August 6, 2011 approximately 2 fluid ounces of mercury from a manometer were reportedly spilled on the carpet within a room in the administration building of the school. The representative of the school attempted to remove the spilled mercury through gross recovery with a vacuum cleaner. School representatives then reportedly disposed of a manometer along with traces of elemental Mercury into a trash container immediately outside of the school. At approximately 1850 hours Eric Delgado, EPA Region 6, arrives to test the mercury vapors by using a Lumex Mercury Analyzer. Mr. Delgado tested the vapor levels in the office outside of the contaminated room. The mercury vapor levels were between 10,000-15,000 ng/m^3 in the breathing zone. EPA contractor clean up service Weston Solutions arrived on scene at 2000 hours but was denied initial access to the building by Larry Munson, East Baton Rouge School Director, until he arrived on scene to discuss incident further. At approximately 2145 hours Mr. Munson granted access to the contaminated area and Weston Solutions commenced the initial entry. No fires, injuries or road closures were reported as a result of this incident. No further action by LDEQ Emergency Response at this time. CMR

INCIDENT REPORT

Incident ID: 132979

Incident Source 2

Source Name:

Address:

Municipality:

State:

Phone:

Parish:

AI #:

Related Permits:

Comments:

Update: On August 10, 2011 site activities included the following:
¿At 1300 hours, ERRS applied Chem 100 - Low Odor Mastic removal to floors in the spill affected areas.
¿At 1400 hours, START conducted air monitoring in the spill room, office adjacent to the spill room, and reception area. The breathing zone and floors of the reception area indicated mercury concentrations of 1,500 ng/m^3, the spill room had mercury concentration of 2,000 ng/m^3 in the breathing zone and 3,000 ng/m^3 at the floor, and the office adjacent to the spill room had mercury concentrations of 3,000 ng/m^3 in the breathing zone and 12,000 ng/m^3 at the floor.
¿At 1740 START conducted air monitoring of the HVAC and vent area, readings were approximately 400 ng/m^3. ERRS also vented the spill room and the adjacent office.
¿At 1800 hours air monitoring of the office adjacent to the spill room indicated mercury concentrations of 1,500 ng/m^3 in the breathing zone and 4,000 ng/m^3 at the floor level.
¿ERRS conducted heating of the spill room and adjacent office from approximately 1900 hours on August 10, 2011 until 0500 hours on August 11, 2011.
¿ERRS ended the heating cycle and began venting at approximately 0500 hours until approximately 0730 hours on August 11, 2011.
Update: On August 12, 2011 the following site activities occurred:
¿Additional venting of the administration office, spill room, and office adjacent to the spill room was conducted.
¿Air monitoring of the breathing zones in each of the rooms were all below 3,000 ng/m3.
¿Air monitoring at the floor near the bookcases on the east wall of the office adjacent to the spill room yielded results up to 7,000 ng/m3.
ERRS removed the remaining items and carpet, with an exception for the large desk, from the room adjacent to the spill room. All furniture and items were screened for mercury concentrations; none exceeded 3,000 ng/m3. The carpet was isolated and air monitoring yielded concentrations up to

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 51443 **INSPECTION DATE:** 8/8/2011 **TIME OF ARRIVAL:** 5:46pm

ALTERNATE ID#: _____ (ID Type/Number) **DEPARTURE DATE:** 8/8/2011 **TIME OF DEPARTURE:** 11:00pm

FACILITY NAME: McKinley Senior High School **PHONE #:** (225) 344-7696

LOCATION: Administrative Office

PARISH: East Baton Rouge

RECEIVING STREAM (BASIN/SUBSEGMENT): _____

MAILING ADDRESS: 800 East McKinley Street (Street/P.O. Box) Baton Rouge (City) LA (State) 70802 (Zip)

FACILITY REPRESENTATIVE: Coey Malveaux **TITLE:** School District Env. Specialist

FACILITY REPRESENTATIVE PHONE NUMBER: 225-229-0291

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above): _____

INSPECTION TYPE: Tempo# 152979 **PROGRAM INVOLVED:** AIR ☐ WASTE ☐ WATER ☐ OTHER: Emergency Response

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

On August 8, 2011 at approximately 1600 hours Louisiana Department of Environmental Quality Emergency Responder (LDEQ-ER) Chris Rajewski, Peter Michgelsen, and Peter Ricca responded to McKinley Senior High School concerning a mercury (CAS# 07439-97-6) spill. According to Coey Malveaux, East Baton Rouge School District Environmental Specialist, on August 6, 2011 approximately 2 fluid ounces of mercury from a manometer were reportedly spilled on the carpet within a room in the administration building of the school. The representative of the school attempted to remove the spilled mercury through gross recovery with a vacuum cleaner. School representatives then reportedly disposed of a manometer along with traces of elemental Mercury into a trash container immediately outside of the school. At approximately 1850 hours Eric Delgado, EPA Region 6, arrives to test the mercury vapors by using a Lumex Mercury Analyzer. Mr. Delgado tested the vapor levels in the office outside of the contaminated room. The mercury vapor levels were between 10,000-15,000 ng/m^3 in the breathing zone. EPA contractor clean up service Weston Solutions arrived on scene at 2000 hours but was denied initial access to the building by Larry Munson, East Baton Rouge School Director, until he arrived on scene to discuss incident further. At approximately 2145 hours Mr. Munson granted access to the contaminated area and Weston Solutions commenced the initial entry. No fires, injuries or road closures were reported as a result of this incident. No further action by LDEQ Emergency Response at this time. CMR

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
_____	_____	YES ☐ NO ☐
_____	_____	YES ☐ NO ☐

PHOTOS TAKEN: YES ☐ NO ☒ **SAMPLES TAKEN:** YES ☐ NO ☒ (Attach Chain-of-Custody)

RECEIVED BY SIGNATURE: Armand D. Brown

PRINT NAME: Armand D. Brown

(NOTE: SIGNATURE DOES NOT INDICATE AGREEMENT WITH INSPECTOR'S NOTES)

INSPECTOR(S): Chris Rajewski

Peter Michgelsen

REVIEWER: Peter Ricca 8/11/11

CROSS REFERENCE: _____

ATTACHMENTS: _____

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

Facility Name: McKinley Senior High School AI: 51443
City: Baton Rouge Parish: East Baton Rouge Photographer: C. Rajewski
Date: 8/8/2011 Reason: Mercury Spill Other ID #:

Photo #: 1 of 3 Time: 8/8/2011
Description: START-3 conducting air monitoring

Photo #: 2 of 3 Time: 8/10/2011
Description: view of main room of administration building after removal began

Facility Name: McKinley Senior High School AI: 51443
City: Baton Rouge Parish: East Baton Rouge Photographer: C. Rajewski
Date: 8/8/2011 Reason: Mercury Spill Other ID #:

Photo #: 3 of 3 Time: 8/10/2011
Description: view of elemental mercury collected by ERRS with mercury vacuum

REPUBLIC SERVICES — NON-HAZARDOUS SPECIAL WASTE & ASBESTOS MANIFEST

255957

If waste is asbestos waste, complete Sections I, II, III and IV
If waste is **NOT** asbestos waste, complete Sections I, II and III

I. GENERATOR (Generator completes Ia-r)

a. Generator's US EPA ID Number	b. Manifest Document Number	c. Page 1 of

d. Generator's Name and Location:	e. Generator's Mailing Address:
USEPA / MCKINLEY HIGH SCHOOL MERCURY SPILL 800 EAST MCKINLEY ROAD f. Phone: BATON ROUGE, LA 70802 214-665-2705	USEPA ATTN: MARK HAYES 1445 ROSS AVE, SUITE 1200 6SF-PR g. Phone: DALLAS, TX 75202 214-665-2705
If owner of the generating facility differs from the generator, provide: h. Owner's Name:	i. Owner's Phone No.:

j. Waste Profile #	k. Exp. Date	l. Waste Shipping Name and Description	m. Containers No.	m. Containers Type	n. Total Quantity	o. Unit Wt/Vol
5096-11-12689	8/12/2012	LOW LEVEL MERCURY CONTAMINATED DEBRIS	01	T		Y

GENERATOR'S CERTIFICATION: I hereby certify that the above named material is not a hazardous waste as defined by 40 CFR 261 or any applicable state law, has been properly described, classified and packaged, and is in proper condition for transportation according to applicable regulations; AND, if this waste is a treatment residue of a previously restricted hazardous waste subject to the Land Disposal Restrictions. I certify and warrant that the waste has been treated in accordance with the requirements of 40 CFR 268 and is no longer a hazardous waste as defined by 40 CFR 261.

p. Generator Authorized Agent Name (Print)	q. Signature	r. Date
Jon Rinehart	Jon Rinehart	Aug. 18 2011

II. TRANSPORTER (Generator completes IIa-b and Transporter completes IIc-e)

a. Transporter's Name and Address: P.O. BOX [illegible], WALKER, LA 70785

b. Phone: 225-667-1707

c. Driver Name (Print)	d. Signature	e. Date
AARON HARRIS	Aaron Harris	8-23-11

III. DESTINATION (Generator complete IIIa-c and Destination Site completes IIId-g)

a. Disposal Facility and Site Address:	c. US EPA Number	d. Discrepancy Indication Space:
BFI COLONIAL LANDFILL 5328 HWY. 70 b. SORRENTO, LA 70778 225-675-6021	TD-005-0632	

I hereby certify that the above named material has been accepted and to the best of my knowledge the foregoing is true and accurate.

e. Name of Authorized Agent (Print)	f. Signature	g. Date

IV. ASBESTOS (Generator completes IVa-f and Operator complete IVg-i)

a. Operator's Name and Address:	c. Responsible Agency Name and Address:
b. Phone:	d. Phone:

e. Special Handling Instructions and Additional Information:

f. ☐ Friable ☐ Non-Friable ☐ Both % Friable % Non-Friable

OPERATOR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

g. Operator's Name and Title (Print)	h. Signature	i. Date

*Operator refers to the company which owns, leases, operates, controls, or supervises the facility being demolished or renovated, or the demolition or renovation operation or both

Material Safety Data Sheet
Mercury MSDS

Section 1: Chemical Product and Company Identification

Product Name: Mercury

Catalog Codes: SLM3505, SLM1363

CAS#: 7439-97-6

RTECS: OV4550000

TSCA: TSCA 8(b) inventory: Mercury

CI#: Not applicable.

Synonym: Quick Silver; Colloidal Mercury; Metallic Mercury; Liquid Silver; Hydragyrum

Chemical Name: Mercury

Chemical Formula: Hg

Contact Information:

Sciencelab.com, Inc.
14025 Smith Rd.
Houston, Texas 77396

US Sales: **1-800-901-7247**
International Sales: **1-281-441-4400**

Order Online: ScienceLab.com

CHEMTREC (24HR Emergency Telephone), call: 1-800-424-9300

International CHEMTREC, call: 1-703-527-3887

For non-emergency assistance, call: 1-281-441-4400

Section 2: Composition and Information on Ingredients

Composition:

Name	CAS #	% by Weight
Mercury	7439-97-6	100

Toxicological Data on Ingredients: Mercury LD50: Not available. LC50: Not available.

Section 3: Hazards Identification

Potential Acute Health Effects:
Very hazardous in case of skin contact (irritant), of eye contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive, permeator). Liquid or spray mist may produce tissue damage particularly on mucous membranes of eyes, mouth and respiratory tract. Skin contact may produce burns. Inhalation of the spray mist may produce severe irritation of respiratory tract, characterized by coughing, choking, or shortness of breath. Severe over-exposure can result in death. Inflammation of the eye is characterized by redness, watering, and itching. Skin inflammation is characterized by itching, scaling, reddening, or, occasionally, blistering.

Potential Chronic Health Effects:
Hazardous in case of skin contact (permeator). CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. 3 (Not classifiable for human.) by IARC. MUTAGENIC EFFECTS: Not available. TERATOGENIC EFFECTS: Not available. DEVELOPMENTAL TOXICITY: Not available. The substance may be toxic to blood, kidneys, liver, brain, peripheral nervous system, central nervous system (CNS). Repeated or prolonged exposure to the substance can produce target organs damage. Repeated or prolonged contact with spray mist may produce chronic eye irritation and severe skin irritation.

Repeated or prolonged exposure to spray mist may produce respiratory tract irritation leading to frequent attacks of bronchial infection. Repeated exposure to a highly toxic material may produce general deterioration of health by an accumulation in one or many human organs.

Section 4: First Aid Measures

Eye Contact:
Check for and remove any contact lenses. In case of contact, immediately flush eyes with plenty of water for at least 15 minutes. Cold water may be used. WARM water MUST be used. Get medical attention immediately.

Skin Contact:
In case of contact, immediately flush skin with plenty of water for at least 15 minutes while removing contaminated clothing and shoes. Cover the irritated skin with an emollient. Wash clothing before reuse. Thoroughly clean shoes before reuse. Get medical attention immediately.

Serious Skin Contact:
Wash with a disinfectant soap and cover the contaminated skin with an anti-bacterial cream. Seek immediate medical attention.

Inhalation:
If inhaled, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Get medical attention immediately.

Serious Inhalation:
Evacuate the victim to a safe area as soon as possible. Loosen tight clothing such as a collar, tie, belt or waistband. If breathing is difficult, administer oxygen. If the victim is not breathing, perform mouth-to-mouth resuscitation. WARNING: It may be hazardous to the person providing aid to give mouth-to-mouth resuscitation when the inhaled material is toxic, infectious or corrosive. Seek immediate medical attention.

Ingestion:
Do NOT induce vomiting unless directed to do so by medical personnel. Never give anything by mouth to an unconscious person. If large quantities of this material are swallowed, call a physician immediately. Loosen tight clothing such as a collar, tie, belt or waistband.

Serious Ingestion: Not available.

Section 5: Fire and Explosion Data

Flammability of the Product: Non-flammable.

Auto-Ignition Temperature: Not applicable.

Flash Points: Not applicable.

Flammable Limits: Not applicable.

Products of Combustion: Not available.

Fire Hazards in Presence of Various Substances: Not applicable.

Explosion Hazards in Presence of Various Substances:
Risks of explosion of the product in presence of mechanical impact: Not available. Risks of explosion of the product in presence of static discharge: Not available.

Fire Fighting Media and Instructions: Not applicable.

Special Remarks on Fire Hazards:
When thrown into mercury vapor, boron phosphodiiodide ignites at once. Flame forms with chlorine jet over mercury surface at 200 deg to 300 deg C. Mercury undergoes hazardous reactions in the presence of heat and sparks or ignition.

Special Remarks on Explosion Hazards:
A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium. CHLORINE DIOXIDE & LIQUID HG, WHEN MIXED, EXPLODE VIOLENTLY. Mercury and Ammonia can produce an

explosive compound. A mixture of the dry carbonyl and oxygen will explode on vigorous shaking with mercury. Methyl azide in the presence of mercury was shown to be potentially explosive.

Section 6: Accidental Release Measures

Small Spill: Absorb with an inert material and put the spilled material in an appropriate waste disposal.

Large Spill:
Corrosive liquid. Poisonous liquid. Stop leak if without risk. Absorb with DRY earth, sand or other non-combustible material. Do not get water inside container. Do not touch spilled material. Use water spray curtain to divert vapor drift. Use water spray to reduce vapors. Prevent entry into sewers, basements or confined areas; dike if needed. Call for assistance on disposal. Be careful that the product is not present at a concentration level above TLV. Check TLV on the MSDS and with local authorities.

Section 7: Handling and Storage

Precautions:
Keep locked up.. Keep container dry. Do not ingest. Do not breathe gas/fumes/ vapor/spray. Never add water to this product. In case of insufficient ventilation, wear suitable respiratory equipment. If ingested, seek medical advice immediately and show the container or the label. Avoid contact with skin and eyes. Keep away from incompatibles such as oxidizing agents, metals.

Storage: Keep container tightly closed. Keep container in a cool, well-ventilated area. Do not store above 25°C (77°F).

Section 8: Exposure Controls/Personal Protection

Engineering Controls:
Provide exhaust ventilation or other engineering controls to keep the airborne concentrations of vapors below their respective threshold limit value. Ensure that eyewash stations and safety showers are proximal to the work-station location.

Personal Protection:
Face shield. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Gloves. Boots.

Personal Protection in Case of a Large Spill:
Splash goggles. Full suit. Vapor respirator. Boots. Gloves. A self contained breathing apparatus should be used to avoid inhalation of the product. Suggested protective clothing might not be sufficient; consult a specialist BEFORE handling this product.

Exposure Limits:
TWA: 0.025 from ACGIH (TLV) [United States] SKIN TWA: 0.05 CEIL: 0.1 (mg/m3) from OSHA (PEL) [United States] Inhalation TWA: 0.025 (mg/m3) [United Kingdom (UK)] Consult local authorities for acceptable exposure limits.

Section 9: Physical and Chemical Properties

Physical state and appearance: Liquid. (Heavy liquid)

Odor: Odorless.

Taste: Not available.

Molecular Weight: 200.59 g/mole

Color: Silver-white

pH (1% soln/water): Not available.

Boiling Point: 356.73°C (674.1°F)

Melting Point: -38.87°C (-38°F)

Critical Temperature: 1462°C (2663.6°F)

Specific Gravity: 13.55 (Water = 1)

Vapor Pressure: Not available.

Vapor Density: 6.93 (Air = 1)

Volatility: Not available.

Odor Threshold: Not available.

Water/Oil Dist. Coeff.: Not available.

Ionicity (in Water): Not available.

Dispersion Properties: Not available.

Solubility: Very slightly soluble in cold water.

Section 10: Stability and Reactivity Data

Stability: The product is stable.

Instability Temperature: Not available.

Conditions of Instability: Incompatible materials

Incompatibility with various substances: Reactive with oxidizing agents, metals.

Corrosivity: Non-corrosive in presence of glass.

Special Remarks on Reactivity:
Ground mixtures of sodium carbide and mercury, aluminum, lead, or iron can react vigorously. A violent exothermic reaction or possible explosion occurs when mercury comes in contact with lithium and rubidium. Incompatible with boron diiodophosphide; ethylene oxide; metal oxides, metals(aluminum, potassium, lithium, sodium, rubidium); methyl azide; methylsilane, oxygen; oxidants(bromine, peroxyformic acid, chlorine dioxide, nitric acid, tetracarbonynickel, nitromethane, silver perchlorate, chlorates, sulfuric acid, nitrates,); tetracarbonylnickel, oxygen, acetylinic compounds, ammonia, ethylene oxide, methylsiliane, calcium,

Special Remarks on Corrosivity:
The high mobility and tendency to dispersion exhibited by mercury, and the ease with which it forms alloys (amalga) with many laboratory and electrical contact metals, can cause severe corrosion problems in laboratories. Special precautions: Mercury can attack copper and copper alloy materials.

Polymerization: Will not occur.

Section 11: Toxicological Information

Routes of Entry: Absorbed through skin. Dermal contact. Eye contact. Inhalation. Ingestion.

Toxicity to Animals:
LD50: Not available. LC50: Not available.

Chronic Effects on Humans:
CARCINOGENIC EFFECTS: Classified A5 (Not suspected for human.) by ACGIH. 3 (Not classifiable for human.) by IARC. May cause damage to the following organs: blood, kidneys, liver, brain, peripheral nervous system, central nervous system (CNS).

Other Toxic Effects on Humans:
Very hazardous in case of skin contact (irritant), of ingestion, of inhalation. Hazardous in case of skin contact (corrosive, permeator).

Special Remarks on Toxicity to Animals: Not available.

Special Remarks on Chronic Effects on Humans:

May affect genetic material. May cause cancer based on animal data. Passes through the placental barrier in animal. May cause adverse reproductive effects(paternal effects- spermatogenesis; effects on fertility - fetotoxicity, post-implantation mortality), and birth defects.

Special Remarks on other Toxic Effects on Humans:

Section 12: Ecological Information

Ecotoxicity: Not available.

BOD5 and COD: Not available.

Products of Biodegradation:
Possibly hazardous short term degradation products are not likely. However, long term degradation products may arise.

Toxicity of the Products of Biodegradation: The products of degradation are less toxic than the product itself.

Special Remarks on the Products of Biodegradation: Not available.

Section 13: Disposal Considerations

Waste Disposal:
Waste must be disposed of in accordance with federal, state and local environmental control regulations.

Section 14: Transport Information

DOT Classification: Class 8: Corrosive material

Identification: : Mercury UNNA: 2809 PG: III

Special Provisions for Transport: Not available.

Section 15: Other Regulatory Information

Federal and State Regulations:
California prop. 65: This product contains the following ingredients for which the State of California has found to cause cancer, birth defects or other reproductive harm, which would require a warning under the statute: Mercury California prop. 65: This product contains the following ingredients for which the State of California has found to cause birth defects which would require a warning under the statute: Mercury Connecticut hazardous material survey.: Mercury Illinois toxic substances disclosure to employee act: Mercury Illinois chemical safety act: Mercury New York acutely hazardous substances: Mercury Rhode Island RTK hazardous substances: Mercury Pennsylvania RTK: Mercury Minnesota: Mercury Massachusetts RTK: Mercury New Jersey: Mercury New Jersey spill list: Mercury Louisiana spill reporting: Mercury California Director's List of Hazardous Substances.: Mercury TSCA 8(b) inventory: Mercury SARA 313 toxic chemical notification and release reporting: Mercury CERCLA: Hazardous substances.: Mercury: 1 lbs. (0.4536 kg)

Other Regulations:
OSHA: Hazardous by definition of Hazard Communication Standard (29 CFR 1910.1200). EINECS: This product is on the European Inventory of Existing Commercial Chemical Substances.

Other Classifications:

WHMIS (Canada):
CLASS D-1A: Material causing immediate and serious toxic effects (VERY TOXIC). CLASS D-2A: Material causing other toxic effects (VERY TOXIC). CLASS E: Corrosive liquid.

DSCL (EEC):
R23- Toxic by inhalation. R33- Danger of cumulative effects. R38- Irritating to skin. R41- Risk of serious damage to eyes. R50/53- Very toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment. S2- Keep out of the

reach of children. S7- Keep container tightly closed. S26- In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S39- Wear eye/face protection. S45- In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible). S46- If swallowed, seek medical advice immediately and show this container or label. S60- This material and its container must be disposed of as hazardous waste. S61- Avoid release to the environment. Refer to special instructions/Safety data sheets.

HMIS (U.S.A.):

Health Hazard: 3

Fire Hazard: 0

Reactivity: 0

Personal Protection:

National Fire Protection Association (U.S.A.):

Health: 3

Flammability: 0

Reactivity: 0

Specific hazard:

Protective Equipment:
Gloves. Full suit. Vapor respirator. Be sure to use an approved/certified respirator or equivalent. Wear appropriate respirator when ventilation is inadequate. Face shield.

Section 16: Other Information

References: Not available.

Other Special Considerations: Not available.

Created: 10/10/2005 08:22 PM

Last Updated: 11/01/2010 12:00 PM

The information above is believed to be accurate and represents the best information currently available to us. However, we make no warranty of merchantability or any other warranty, express or implied, with respect to such information, and we assume no liability resulting from its use. Users should make their own investigations to determine the suitability of the information for their particular purposes. In no event shall ScienceLab.com be liable for any claims, losses, or damages of any third party or for lost profits or any special, indirect, incidental, consequential or exemplary damages, howsoever arising, even if ScienceLab.com has been advised of the possibility of such damages.

EBR PARISH SCHOOL SYSTEM
FACILITIES MANAGEMENT DEPARTMENT
2875 MICHELLI DRIVE
BATON ROUG, LA 70805

FACSIMILE TRANSMITTAL SHEET

TO:	FROM:
Louisiana Dept of Environ Quality	Coey Malveaux
COMPANY:	DATE:
Louisiana Dept of Environ Quality P.O. Box 4312 Baton Rouge, LA 70821-4312	8/12/2011
FAX NUMBER:	TOTAL NO. OF PAGES, INCLUDING COVER:
225-219-4044	
PHONE NUMBER:	SENDER'S REFERENCE NUMBER:
225-226-3671/225-226-3738	ATTN: OEC – ERSD - SPOC
RE:	YOUR REFERENCE NUMBER:
UNAUTHORIZED DISCHARGE NOTIFICATION REPORT	

☐ URGENT X FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

East Baton Rouge Parish School System
7-Day Written Notification Report
In accordance to LAC 33:I.3915, 3917 and 3719

Reported By: Coey L. Malveaux
Environmental Specialist
Facilities Management
East Baton Rouge Parish Schools System
2875 Michelli Drive
Baton Rouge, LA 70805
Office: 225-226-3671 or 225-226-3788

Location: McKinley High School
A.I. Number: 51443
800 E. McKinley Street
Baton Rouge, Louisiana 70802

I, Coey Malveaux, was first notified of the incident around 3pm, Monday, August 8, 2011, by a Faculty member of McKinley High School. The faculty member stated that Mercury spilled onto the carpet in the office. LDEQ was contacted for guidance following the conversation with the Faculty member. Mr. Larry Munson, Director of Facilities for East Baton Rouge Parish School System (EBRPSS), to whom I report, and the State Police representative, Ms. Trameka, was contacted also. LDEQ emergency response representative, Peter J. G. Michgelsen and an associate arrived on site around 5pm. At that point, the EPA was contacted and a response person arrived around 7pm, Mr. Erick Delgado. An EPA emergency response contractor, Weston Solutions, arrived an hour or two later and began evaluating the office and a dumpster. The EPA response team has continued 24 hours a day from the time they arrived onsite. A representative onsite says they are aiming to be completed by Friday, August 12, 2011.

Through further conversation with the Faculty member, I was informed that he noticed silver metallic beads identified as Mercury on the carpet in a small office, that is located in the main office of McKinley High on Saturday, August 6, 2011. The individual contacted poison control and was instructed on how to handle the spill. The Faculty member, with the assistance of another coworker, followed the instructions of a poison control representative and collected the silver beads identified as Mercury into a plastic container, using a piece of cardboard or similar material like a broom and dust pan. The source of the mercury was a baromeler which was being stored in the office by a previous employee. The amount was estimated to be between 2 and 3 fluid ounces. The materials were then placed in a dumpster that remained onsite until the day I was notified on Monday, August 8, 2011. The Faculty member contacted me on Monday the 8th when he noticed that mercury beads still remained on the carpet, which initiated the above action that was taken. The material was confirmed as Elemental Mercury (Hg).

The EPA is currently managing the remediation efforts and will properly dispose of all affected materials, as well as the Mercury itself. They have also been checking individuals involved for possible exposure. The discharge was limited to the main office and the dumpster. The dumpster is still onsite at this time. The incident took place prior to the school year beginning and use of the main office by staff and visitors was very limited. The discharge was preventable by proper education, handling, storage and or disposal of the source prior to the incident. No injuries resulted from the spill.

Procedures and measures to prevent future releases of this type will include the following:

- Produce and distribute a pamphlet or letter that will educate staff and contractors of the hazards of Mercury. The handout would also include educational information that would outline the proper way to store, and or dispose of Mercury and Mercury containing devices and instruments. The notification would also contain information for proper reporting and response to a spill.
- A means of cataloging and disposing of Mercury containing devices and instruments that are no longer in use will be put together. A means of replacing devices and instruments still in use with a suitable none Mercury containing equivalent will be drawn up if one does not already exist.

State of Louisiana

Department of Environmental Quality

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

DEC 15 2005

CERTIFIED – RETURN RECEIPT REQUESTED (7004 1160 0001 9950 8595)

Mr. Bryan Harmon
Assistant Director/Chief Engineer
City of Baton Rouge
Department of Public Works
P.O. Box 1471
Baton Rouge, LA 70821

RE: Certificate of Completion/No Further Action
North Boulevard Improvements; Agency Interest (AI) Number 86103
North Blvd. at 10th Street to 19th Street, Baton Rouge, East Baton Rouge Parish

Dear Mr. Harmon:

The Louisiana Department of Environmental Quality (LDEQ), Remediation Services Division (RSD) has completed its review of the "Remedial Action Report" dated August 25, 2005, which was prepared on your behalf by Conestoga-Rovers and Associates. Thank you for providing this information. Based on our review of this document and all previously submitted information, we have determined that no further action is necessary at this time. The Basis of Decision for this notification is attached.

This report also documents that the corrective action performed under the LDEQ Voluntary Remediation Program (VRP) has resulted in a complete remediation of the site to established standards for industrial/commercial land use. All other requirements of the VRP in accordance with La. R.S., Title 30, Chapter 12, Part II have also been completed as documented by your previous submittals.

This letter serves as your Certificate of Completion and No Further Action for the North Boulevard Improvements Site. This Certificate of Completion is subject to the industrial/commercial land use restriction imposed as an institutional control, and documented by the environmental notification filed in the records. So long as industrial/commercial land use is maintained, this Certificate of Completion exempts the City of Baton Rouge from liability under LSA-R.S., Title 30, Chapter 12, Part I.

Office of Environmental Assessment
P. O. Box 4314 Baton Rouge, LA 70821-4314
Telephone: (225) 219-3236 Fax: (225) 219-3239
An Equal Opportunity Employer

No soils may be removed from this site without prior approval from LDEQ unless they are removed and disposed at a permitted disposal facility. Prior to the construction of enclosed structures over any portion of the impacted area, further evaluation and approval from LDEQ is warranted.

The LDEQ appreciates your effort in concluding this project, which is the second Complete Remediation performed under the VRP in the state of Louisiana. Please contact Mr. John Halk, Environmental Scientist Manager, at (225) 219-3217 for any questions regarding the site.

Sincerely,

Wilbert F. Jordan, Jr.
Assistant Secretary
Office of Environmental Assessment

WFJ:jhh

Attachment: Basis of Decision (BOD)

c: LDEQ Imaging Operations – IAS

Ms. Vicki Thibodeaux, LDEQ-RSD, HQ

Mr. Barry Hebert
Conestoga-Rovers and Associates, Inc.
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816

BASIS OF DECISION (BOD) FOR CERTIFICATE OF COMPLETION & NO FURTHER ACTION

North Boulevard Improvements Site; Agency Interest (AI) Number 86103

The Louisiana Department of Environmental Quality – Remediation Services Division (LDEQ-RSD) has determined that the North Boulevard Improvements site requires No Further Action, and is granted a Certificate of Completion under the LDEQ Voluntary Remedial Program (VRP).

The North Boulevard Improvements site encompasses a section of North Boulevard from 10th to 19th Streets in Baton Rouge. An improvement project is underway to widen the roadway and construct an overpass over the railroad tracks that cross North Boulevard. The area of investigation consisted of commercial properties on the south side of North Boulevard from 10th to 15th Streets and on the north side of North Boulevard from 15th to 19th Streets.

Ten Areas of Investigation (AOIs) was closed in accordance with the 2000 LDEQ Risk Evaluation Corrective Action Program (RECAP) under the LDEQ VRP using Management Option-1 (MO-1) industrial/commercial standards. Initial interim corrective action involved removal of 22 underground storage tanks (USTs) and their contents, several hydraulic lifts and sumps used for car repair, and excavation of affected soils in and adjacent to the tank holds. These wastes were disposed of at a LDEQ permitted solid waste disposal facility as evidenced by manifests provided to the LDEQ-RSD. The removal of all source material insures that the residual concentrations of constituents of concern (COCs) will remain the same, or more likely, reduce over time due to natural processes. Following this interim corrective action, a RECAP Site Investigation was conducted under LDEQ oversight, after the site had been entered into the LDEQ VRP.

The RECAP Site Investigation documented that the groundwater beneath the AOI met the criteria for a Groundwater Classification 3 that does not discharge to surface water used as drinking water source (GW3NDW). The groundwater sample results documented that COCs did not exceed the site-specific GW3NDW RECAP MO-1 standards.

MO-1 RECAP soil industrial standards were applied to the site soil concentrations after the soil to groundwater pathway was eliminated from concern by using EPA SW-846 Method 1312, the Synthetic Precipitation Leaching Procedure (SPLP) for certain COCs. Temporary monitoring wells used to evaluate the groundwater were plugged and abandoned in accordance with applicable regulations when the site investigation was completed.

Based on the RECAP Site Investigation, it was determined that no further remedial action was needed for six of the ten identified AOIs, since these areas met the established RECAP standard. It was determined that further soil remediation was required at four AOIs (1350 North Blvd., 105 S. 14th St.; 1665 North Boulevard; and 1717 North Boulevard). This was due to levels of benzene, xylenes, lead, and Total Petroleum Hydrocarbons – Gasoline Range Organics (TPH-GRO), which exceeded established standards.

Prior to final approval of the Remedial Action Plan for the four AOIs needing further remedial action by the LDEQ-RSD, a thirty-day public notice period was conducted, and the adjacent landowners were notified of the proposed remedial action via certified letter as required by the VRP regulations. No comments were received from the public or adjacent landowners, therefore, the proposed corrective action received LDEQ approval without further modification.

Remedial action taken at the four AOIs included excavation and off-site disposal of the remaining contaminated soils at a LDEQ permitted solid waste disposal facility. A total of approximately 1,170 cubic yards of soil were excavated. Confirmation samples documented that the soil limiting RECAP standards had been achieved following these actions. No Further Action is granted when contamination either meets or is reduced to the extent necessary to achieve the established standards. When this action is conducted under the LDEQ VRP, a Certificate of Completion is also granted. The constituents of concern present that now meet the approved remediation standards for each AOI are noted in the following tables. The media impacted by these constituents is soil.

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1124 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Iron	14,800	56,000 (Soili)
Aluminum	10,800	190,000 (Soili)
Arsenic	9.73*	100 (Soil GW3ndw)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1244 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Aluminum	12,800	190,000 (Soili)
Arsenic	7.3*	100 (Soil GW3ndw)
Iron	16,700	56,000 (Soili)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1350 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Benzene	1.0	4.2 (Soil GW3ndw)
Ethylbenzene	35	230 (Soilsat)
TPH-GRO	1900	2,267 (Soili)
TPH-DRO	110	2,267 (Soili)
TPH-ORO	1700	2,000 (Soili)
Arsenic	6.46*	100 (Soil GW3ndw)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 105 South 14th Street

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Toluene	240	520 (Soil GW3ndw)
Ethylbenzene	75	230 (Soilsat)
Xylenes	< 0.04 (DL)	150 (Soilsat)
TPH-GRO	< 21 (DL)	2,267 (Soil GW3ndw)
TPH-DRO	110	1,667 (Soil GW3ndw)

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1545 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
2-Methylnaphthalene	3.3	5.1 (Soili)
Arsenic	7.3*	100 (Soil GW3ndw)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1605 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Benzene	1.7	3.2 (Soili)
TPH-DRO	1,400	2,500 (Soili)
TPH-ORO	2,500	5,000 (Soili)
Arsenic	4.0*	100 (Soil GW3ndw)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1665 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Toluene	170	520 (Soilsat)
Ethylbenzene	93	230 (Soilsat)
Xylenes	<0.045 (DL)	150 (Soilsat)
TPH-GRO	<23 (DL)	1,250 (Soili)
TPH-DRO	110	1,250 (Soili)
TPH-ORO	890	2,000 (Soili)
Arsenic	6.84*	100 (Soil GW3ndw)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1717 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
Aluminum	12,600	38,000 (Soili)
Arsenic	9.15*	100 (Soil GW3ndw)
Iron	17,600	56,000 (Soili)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1801 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
TPH-GRO	1,400	1,667 (Soili)
Benzene	1.7	3.2 (Soili)
Aluminum	13,800	63,333 (Soili)
Arsenic	10.7*	100 (Soil GW3NDW)
Iron	16,500	56,000 (Soili)

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

North Boulevard Improvements; Agency Interest (AI) Number 86103
Area of Interest (AOI): 1855 North Boulevard

Constituent of Concern	Maximum Remaining Concentration (mg/kg)	Soil Limiting RECAP Standard (mg/kg)
TPH-DRO	280	650 (Soilni)
Arsenic	8.32*	100

*Also meets the RECAP 2003 statewide background concentration of 12 mg/kg

Remediation to site-specific standards was conducted. In accordance with LAC 33:I.Chapter 13, if land use is going to be changed from industrial to non-industrial, the responsible party shall notify the LDEQ within thirty (30) days and the Area of Investigation shall be reevaluated to determine if conditions are appropriate for the proposed land use. Future use may dictate additional remedial activities. A conveyance notice has been filed with the East Baton Rouge City-Parish noting that the Area of Investigation was closed under industrial standards.

Additional information on the details of the investigation and evaluation of this site may be obtained from LDEQ's Public Records Center located in the Galvez Building, Room 127, 602 N. Fifth Street, Baton Rouge, LA 70802. Additional information regarding the Public Records may be obtained by calling (225) 219-3168 or by emailing publicrecords@la.gov.

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City, State, ZIP+4
City of Baton Rouge
Dept. of Public Works
P.O. Box 1471
Baton Rouge LA 70821

PS Form 3800, June 2002 See Reverse for Instructions

NFA/B001/
COC

OFFICE OF ENVIRONMENTAL ASSESSMENT
REMEDIATION SERVICES DIVISION

SECTION: GP3 PROJECT: North Blvd, ORIGINATOR: HALK
DATE: 12-2-5 AI#: 86103 OTHER #:

	Req'd.	Signature	Date	Comments
Section Mgr./Supvr.	☑	J HALK	12/2/5	
Adm. Assistant	☑	[illegible]	12/6/05	
Administrator	☑	Keith Casanova	12/12/05	
Legal	☐			
Other ( )	☐			
Assistant Secretary	☑	[illegible]	12/15/05	
Deputy Secretary	☐			
Secretary	☐			
Additional Comments				

State of Louisiana

Department of Environmental Quality

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

October 25, 2004

CERTIFIED – RETURN RECEIPT REQUESTED (7003 2260 0000 5832 6055)

Mr. Bryan Harmon
Assistant Director/Chief Engineer
City of Baton Rouge
Department of Public Works
P.O. Box 1471
Baton Rouge, LA 70821

RE: Approval of Remedial Action Plan
North Boulevard Improvements; Agency Interest (AI) Number 86103
North Blvd. at 10th Street to 19th Street, Baton Rouge, East Baton Rouge Parish

Dear Mr. Harmon:

The Remediation Services Division, LDEQ, has completed review of the Remedial Action Plan dated August 2004. The public comment period is now considered closed. Based on our review and the fact that no public comments were received regarding the site, the above-referenced document is hereby approved for implementation.

Initiation of the corrective action process must begin within 60 days of receipt of Department approval and verified by submittal of the DEQ provided form (attachment), along with a cover letter. The completed form/cover letter must be received by the LDEQ

Remediation Services Division at the enclosed address within 75 days of receipt of Department approval of the corrective action workplan.

Please contact me at 225-219-3217 with any questions.

Sincerely,

John Halk
Environmental Scientist Manager
Remediation Services Division

attachment

c: Terri Gibson
LDEQ File Scanning Room 144-IAS

Barry Hebert
CRA Services, Inc.
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816

CORRECTIVE ACTION IMPLEMENTATION FORM

Submit to RSD within 75 days of receipt of approval of Corrective Action Workplan

THIS PORTION TO BE COMPLETED BY TEAM LEADER	
Agency Interest Number	Agency Interest Name
Team Leader	
AOI Name/Unit Name/AOC Name	
Agency Interest Mailing Address	

THIS PORTION TO BE COMPLETED BY AGENCY INTEREST REPRESENTATIVE	
Description of Activities (See examples below)	Date

Agency Interest Representative Name and Title
(printed)
(signature)

Mail to: Keith L. Casanova, Administrator
Remediation Services Division
P.O. Box 4314
Baton Rouge, LA 70821-4314

Examples
Approve design specifications
Authorize the development of design specifications
Award contract to contractor/consultant for implementation of corrective action
Begin equipment installation, i.e., waste water treatment system, air stripper unit, etc.
Begin interim measures corrective actions
Begin site preparation
Implement Interim Corrective Action Measures
Install groundwater recovery wells
Let out RFP
Order Corrective Action equipment
Submit application for LDEQ permit(s)
Submit formal application for LDEQ permit(s)

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Mr. Bryan Harmon
Assistant Director/Chief Engineer
City of Baton Rouge
Dept. of Public Works-P.O. Box 1471
Baton Rouge, LA 70821

PS Form 3800, June 2002 — See Reverse for Instructions

OFFICE OF ENVIRONMENTAL SERVICES
REMEDIATION SERVICES DIVISION
Routing/Approval Slip

VH#1838

DEQ LOUISIANA

AI No.	**9151**	**Facility:**	**Consolidated Force Main Alignment**	**Date Routed:**	**10/5/2011**
Other ID No.		**Location:**	**Narin Drive Section**		
Activity No.		**Originator:**	**Rashaunda J. Sparks**		
Section/Group:	**RG**	**Attachments:**			
Description/Type of Document(s):	Conditional Approval/No Objection to Project Plans				

Closure ☐ **Comfort Letter** ☐ **Correspondence** ☐ **Corrective Action** ☐ **Conveyance Notice** ☐

NFA ☐ **NOD** ☐ **Personnel** ☐ **Other** ☒

Technical Review	Req'd.	Initials	Date	Return to Originator?	Comments
Environmental Scientist	☒	RMJS	10/5/11	☐ Y ☒ N	
Geology	☐			☐ Y ☐ N	
Legal	☐			☐ Y ☐ N	
Technical Advisor	☐			☐ Y ☐ N	
Other (_____)	☐			☐ Y ☐ N	
Additional Comments					

Management Review	Req'd.	Initials	Date	Return to Originator?	Comments
Supervisor	☒		10/6/11	☐ Y ☒ N	
Manager	☒	CET	10/6/11	☐ Y ☐ N	
Administrator	☒	TPD	10/10/11	☐ Y ☐ N	
Assistant Secretary	☐			☐ Y ☐ N	
Deputy Secretary	☐			☐ Y ☐ N	
Secretary	☐			☐ Y ☐ N	
Other (_____)	☐			☐ Y ☐ N	
Additional Comments					

☒ **TEMPO Data Entry Completed (Date Document Completed):** 9/20/2011

Revised 01/26/10

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

OCT 11 2011

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

September 20, 2011

David Einsel, P.E.
Shread-Kuyrkendall & Associates, Inc.
13000 Justice Avenue, Suite 16
Baton Rouge, Louisiana 70816

RE: Conditional Approval/No Objection to Project Plans
Consolidated Force Main Alignment; **AI Number 9151**
Narin Drive Section
Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Einsel:

We have completed our review of the Limited Subsurface Investigation dated March 4, 2011, on behalf of Shread-Kuyrkendall & Associates, Inc.

Based on a technical review of the above-referenced document, we hereby have no objection to the plans submitted for this project as long as the following stipulations are addressed:

- Fill material should be clean in areas of potential or suspected contamination, removed soils or wastes in these areas must be disposed of at permitted facilities (see below)
- A plan should be in place if potential hazardous materials are encountered. This plan should include testing, storage and disposal. Contractor should be aware of potentially hazardous conditions of such materials for worker safety compliance. It is understood that this plan will be submitted to the LDEQ for review and comment prior to its implementation.
- In the area of the Historic Valley Park Landfill:
  - Groundwater encountered should be treated as leachate, which should be properly disposed of at a permitted facility, or discharged under a Louisiana Pollution Discharge Elimination System (LPDES) Permit
  - Any waste or contaminated soils should be tested prior to disposal at a permitted facility. Per the Resource Conservation and Recovery Act (RCRA) once the material is removed from a pre-RCRA facility it becomes a waste and should be tested for RCRA Characteristics, and any other parameters specified by the disposal facilities permit or procedures

Please contact Rashaunda Sparks at 225-219-2967 or via email at Rashaunda.Sparks@la.gov with any questions. All correspondence must include the AI numbers cited above and be submitted in triplicate to:

Thomas F. Harris, Administrator
Underground Storage Tank and Remediation Division
P.O. Box 4312
Baton Rouge, LA 70821-4312

Thank you for your cooperation.

Sincerely,

Thomas F. Harris, Administrator
Underground Storage Tank and Remediation Division

rmjs

c: Imaging Operations – IAS
Mr. Richard M. Simon, Senior Principal/Regional Manager
Terracon Consultants, Inc.
2822-B O'Neal Lane
Baton Rouge, LA 70816

PRELIMINARY ASSESSMENT

DATE: August 31,1989

PREPARED BY: Charles Hunter, Inactive and Abandoned Sites, LaDEQ, Baton Rouge, LA

Site: Valley Park Middle School
4510 Bawell St.
Baton Rouge, LA 70808

EPA ID#: None assigned.

TDD#: None assigned.

1. Site Information

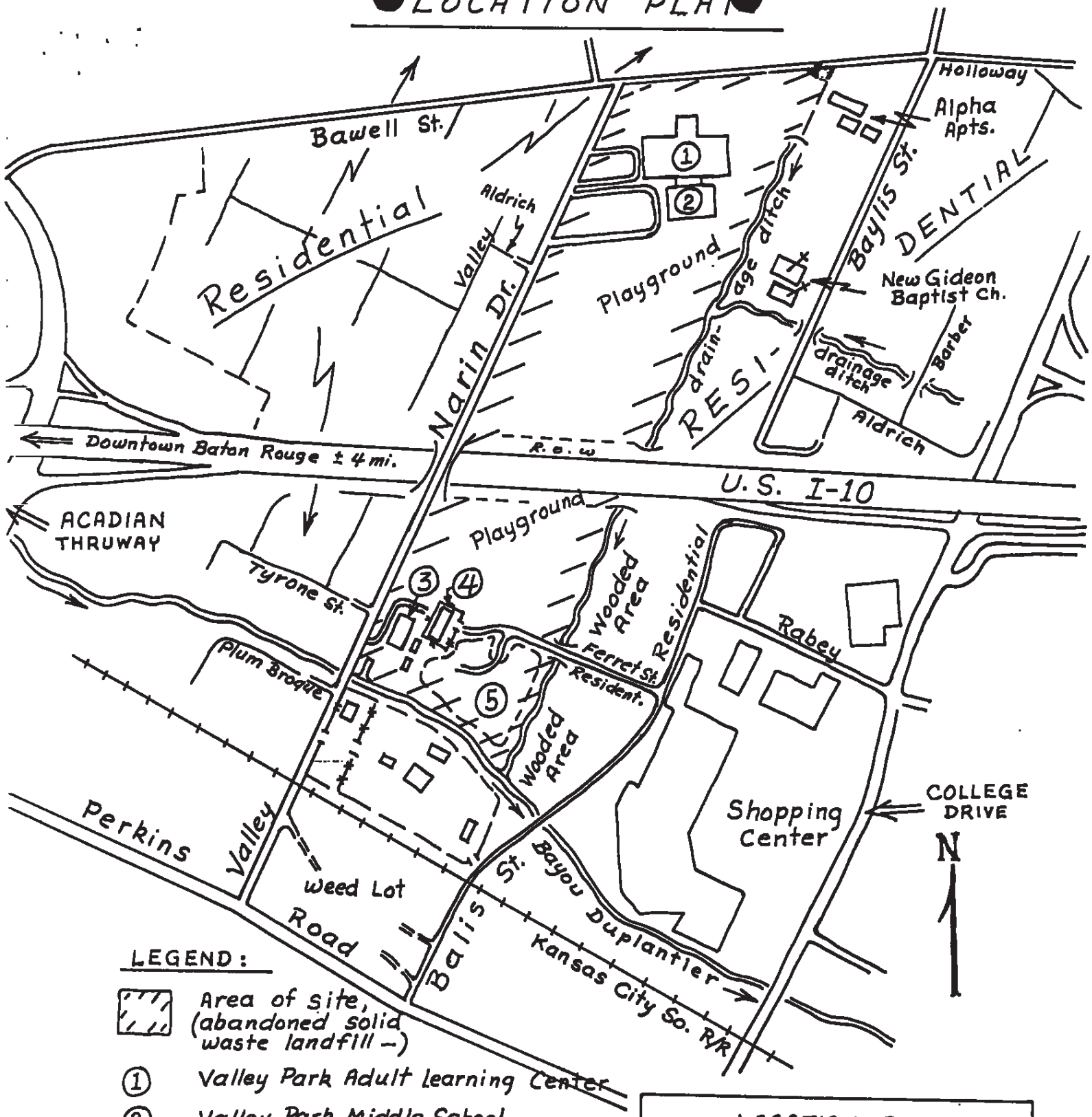
The Valley Park Middle School site, hereinafter referred to as "the site", occupies approximately 36 acres in Baton Rouge, Louisiana. The site is a rectangular shaped property bounded by Bawell St. to the North, Nairn St. to the West, Dawson Creek to the South, and an unnamed drainage ditch to the East (see figure 1). The geographic coordinates are 30° 26' 33" N latitude and 91° 08' 38" W longitude. The site overlies a former municipal landfill for the City of Baton Rouge, and is divided East to West by Federal Highway Interstate 10 (I-10). The Valley Park Middle School building is located on the site property north of I-10 that totals just over 23 acres, and the Valley Park Recreational Playground is located on the site property south of I-10 that totals approximately 13 acres. The East Baton Rouge School Board acquired the site property north of I-10 from the City of Baton Rouge in 1965. The East Baton Rouge Parish Recreation and Park Commission (BREC) and the Baton Rouge City-Parish separately own all the parcels of the site south of I-10 (1). Because there are buildings and play areas located over the landfill and because there are no records of what was disposed at the landfill during its operation, the purpose of this investigation is to compile records and evidence of the impact of landfill contaminants.

2. Background/Operating History

a. Site history.

FIGURE 1:

LOCATION PLAT



LEGEND:

- Area of site, (abandoned solid waste landfill –)
- ① Valley Park Adult learning Center
- ② Valley Park Middle School
- ③ Narin Dr. Park (A BREC facility)
- ④ Dept. of Public Works, S. Maint. Lot
- ⑤ Dept. P.W., Stockpile excess dirt and broken concrete –

Note: Orig. Sz. of landfill = 40 ac. (Valley park area = 23ac; Narin Dr. Pk. = 13 ac.; I-10 area = 4 ac. –)

LOCATION PLAT

Valley Park Elementary Site

(City of Baton Rouge, La., E. Baton Rouge Pa.)

Data taken from an Aerial Photo (La. DOTD 450-10-00, 749-29, taken 5-20-86) –

EBO/4-1-89 Scale: 1" = 505'

The Baton Rouge City-Parish began using the site, then called the Valley Park Landfill, as a backup to their primary landfill, the McKinley St. Landfill, in the 1940's, and continued to use it as a backup landfill until the McKinley St. Landfill was closed in 1957. The site served as the City-Parish's primary landfill from 1958 through 1962. Investigation of City-Parish records revealed no existing documentation of the types or quantities of materials disposed at the site during this period. Landfilling at the site was discontinued with the commencement of construction of the interstate at the site in 1963. The construction of I-10 across the property was completed in 1965. In August, 1965, the East Baton Rouge School Board acquired the site property north of I-10 in a land swap with the City-Parish (2). Construction of the Valley Park School building began in 1966. The building is situated directly over a portion of the landfill (3). The school system operated the building as a junior high school (approx. 800 children, grades 9 &10) from 1968 through the 1978-79 school year, and as a middle school (approx. 600 children, grades 6,7 &8) from the 1979-80 school year through the 1985-86 school year (4). Since September,1986, the EBR School System has housed special education support services personnel and an adult education program in the building. At the present time, approximately 150 staff and from 20 to 50 students occupy the building 40 hours per week and an estimated 150 adult education students occupy the building 15 hours per week (4,5). BREC built a recreational park, called Nairn Park, on the landfill south of I-10 in 1966, right after the EBR School Board began development of the site property north of I-10. Since then additional fill material has been added to the playing field on an as needed basis to maintain a solid flat playing surface. The Director of Nairn Park estimates that approximately 300 people use the playing field each week throughout the year for recreational purposes.

b.Discussion of known/potential problems

-Summary of existing analytical data

The Hazardous Waste Management Division, La. Department of Natural Resources (LaDNR), contracted for laboratory testing of one water and three sludge samples from the site in December, 1981. Tests for 14 heavy metals in the water sample, and 88 organic compounds in the sludge samples indicated "no environmental problems at this time" (6,7). In August, 1982, three Louisiana State University (LSU) faculty/researchers released a report of analysis of soil-sediment and surface water samples performed by a class of LSU

students during Spring, 1982. They reported that " (t)he soil-sediment samples contained elevated levels of zinc, cadmium, and lead", and that..."arsenic concentrations in the first two leachate streams (plumes into the drainage ditch along the eastern boundary of the site) were a factor of 10 higher than the upstream soils" (8). In December, 1982, as a followup to the LSU study, the Hazardous Waste Management Division, LaDNR, contracted for analysis of seven samples drawn from the site for the presence of 29 volatile and 57 semivolatile organic priority pollutants, 25 pesticides and polychlorinated biphenyls (PCBs), and 14 heavy metal priority pollutants (9,10). This analysis, summarized in Table 1, revealed the presence of two volatile organic priority pollutants, chloroform and methylene chloride, in two soil samples drawn from the school and recreational playgrounds; a combined total of 15 semivolatile organic priority pollutants and 11 heavy metal priority pollutants present in varying numbers and amounts in all seven samples; and no pesticides or PCBs in any of the samples. Analysis of these 1982 reports reflects there is the potential for direct contact with priority pollutants at the site, and therefore a strong possibility for concern at the present time.

-Summary of off-site reconnaissance

Aerial photos of the site include pictures taken in 1941, 1953, 1959, 1965, 1981 and 1986 (8,11).

-Sources of available information

Sources would include past employees of the City-Parish landfill system, BREC, and the SPCA.

-Emergency or remedial actions

In November, 1988, the Inactive and Abandoned Sites (IAS) Division, LaDEQ, responded to a citizen's complaint filed by an East Baton Rouge Parish School System employee housed in the Valley Park Middle School building at the site. The employee was situated in the pupil appraisal room that was previously the cafeteria when the building served as a school. She complained of a foul smell, "like rotten garbage, rotten eggs" eminating from the floor drains in the room. In March, 1989, the IAS Division investigated the school building for the presence of volatile organics, using an Organic Vapor Analyzer (OVA). No volatile organics were detected. However, the OVA unit used was not capable of detecting either hydrogen sulfide (H_2S) or methane gases, two gases known to be generated in landfills; one, H_2S, with the characteristic odor of rotten eggs. The school

system plugged the floor drains the following week and no further complaints have been received by the IAS Division (4,5).

3. Waste containment/Hazardous Substance Identification

a. Documentation available

Investigation by the IAS Division supports that the Baton Rouge City-Parish maintained no records of types or quantities of waste materials received by its landfills during the 40's, 50's, or 60's. Hence, no waste disposal records or manifests are believed to exist.

b. Potential/known waste type/estimated waste quantity/operation responsible

Known waste types identified in site soil and leachate samples include two volitile organic and 15 semivolitile organic priority pollutants, and 11 heavy metal priority pollutants (12,13). Assuming that the site includes 36 acres of fill material, and assuming a uniform soil profile of 6 to 8 feet of garbage mixed with fill soil, there are approximately 400 thousand cubic yards of garbage/fill mix at the site. Of this estimated total of gardage/fill mix, approximately 256 thousand cubic yards underly the Valley Park Middle School building and school grounds and 144 thousand cubic yards underly Nairn Park. The Baton Rouge City-Parish is the party responsible for the operation of Valley Park Landfill and, consequently, all materials disposed at the site.

c. Containment

There are no containment structures other than the two foot clay fill overlying the landfill.

4. Pathway Characteristics

a. Air pathway characteristics (gas mobility)

Landfill-produced H_2S and methane gases are two potential air pathway contaminants of concern. No vapor sampling has been performed on site for the presence of H_2S or methane, though there is reason to suspect their presence based upon the citizen's complaint(4,5).

b. Ground water characteristics

-Regional ground water setting

A typical soil profile for the Baton Rouge area includes a hard clay pleistocene layer which blankets the area beginning at a depth of approximately 15 feet and extending to a depth of a minimum of 60 feet below sea level. East Baton Rouge Parish overlies 12 fresh water aquifers aligned in layers of sand from 200 to 3100 feet below sea level. Except for the alluvial sand aquifer layers near the surface that lie near the Mississippi River and west of the River, these aquifers are recharged where they reach the earth's surface east of the Mississippi River and northward as far as into the state of Mississippi. The blanket layer of hard pleistocene clay serves as a natural barrier restricting migration of contaminants into the aquifers from above (14).

-Site specific conditions

There are 90 registered water wells within a four mile radius of the site that are either operational or on standby, 41 of which are public supply wells (see attached water well location map (15) and well listing (16)). Of the 17 wells within a two mile radius of the site, five are public supply wells. Other wells may exist in this area that have not been registered with the Louisiana Department of Transportation (LaDOTD) Office of Public Works.

-Net precipitation estimate

Based upon thirty years of data (1951-1980) from the National Weather Service, mean annual rainfall is 55.8 inches in the Baton Rouge area. Water budget analysis performed by the Louisiana Office of State Climatology indicates that the average environmental moisture utilization (evapotransporation) for the same 30 years is approximately 36.3 inches. The difference between these two values, surplus available for runoff, equals 19.5 inches per year (17). During June, 1989, a total of 23 inches of rainfall was recorded in the Baton Rouge area, and it rained on 15 of the first 17 days in July, 1989.

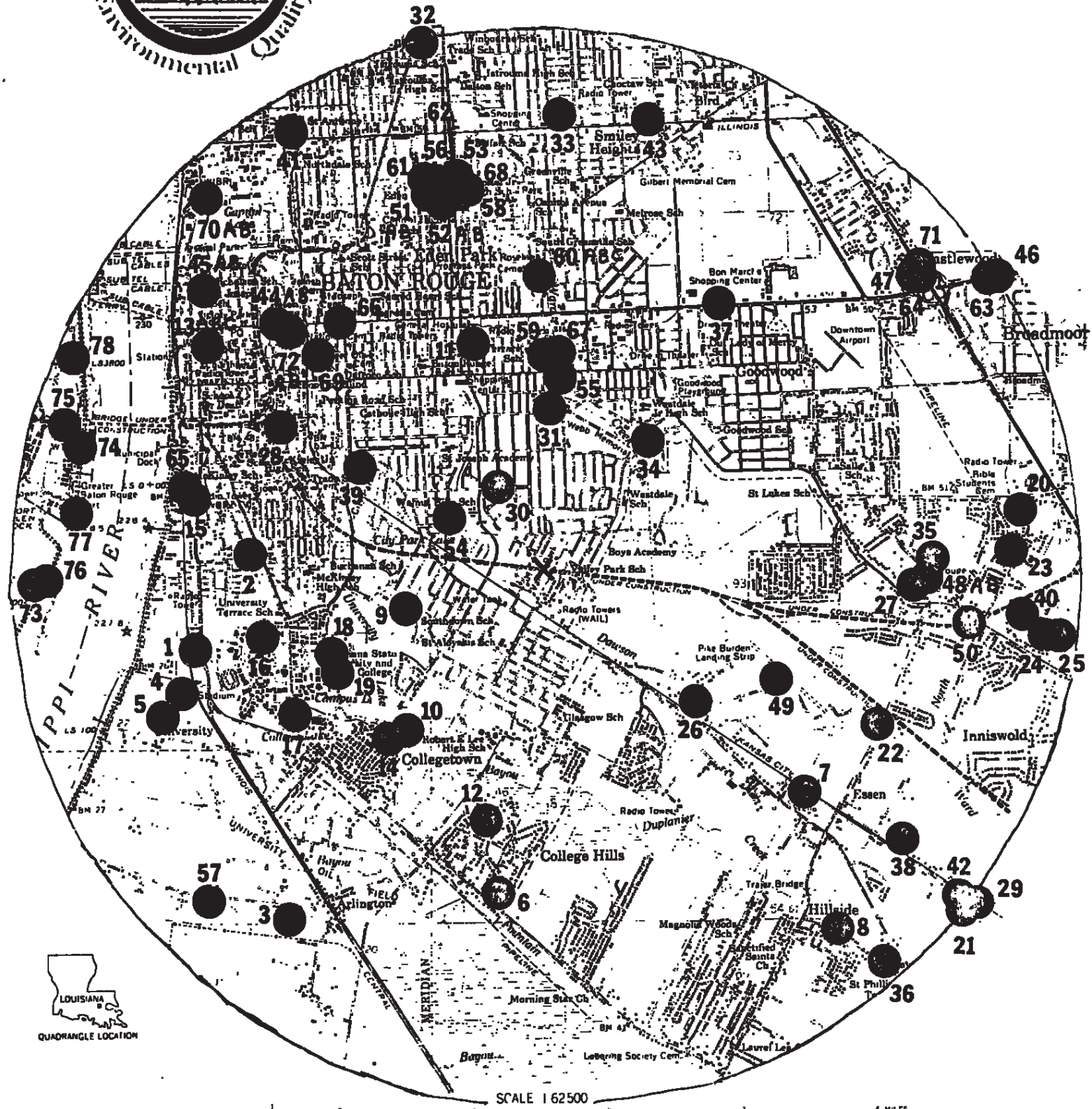
c. Surface water characteristics

-Regional surface water setting

An open drainage ditch bounds the site to the North and East and carries surface water from the site southwestward, joining Dawson's Creek which bounds the site to the South. Dawson's Creek then flows southeastward joining Ward's Creek 6.3 miles downstream from the site. Approximately 7.5 miles downstream from the site, Ward's Creek divides forming a 1.5 mile long diversion canal which then rejoins Ward's Creek. At a point 12.3 miles downstream from the site, Ward's Creek joins Bayou Manchac which

VALLEY PARK MIDDLE SCHOOL SITE

WATER WELL LOCATIONS



flows easterly. The 15 mile target distance is reached 2.7 miles downstream along Bayou Manchac where the Bayou intersects Welsh Gully. Bayou Manchac joins the Amite River which flows southeasterly into Lake Maurepas which connects with Lake Pontchartrain and eventually the Gulf of Mexico.

-Recreational use

Bayou Manchac is used heavily for recreational purposes. Its banks are lined with camps, some occupied year-round and some occupied seasonally for fishing and/or hunting. A small wetlands area exists along Ward's Creek within the target distance downstream from the site. A diversion canal has been constructed along this section of Ward's Creek to assist stream flow during high water conditions. Bayou Manchac drains a watershed, Alligator Swamp, that is used for marshland hunting and fishing.

5. Targets

There are 90 known ground water wells within 4 miles of the site, 41 of which are used for public water supplies (15,16), and there are five public supply wells within two miles of the site. There are no drinking water intakes along the 15 mile surface water migration path from the site. Surface water along the 15 mile migration pathway is used for recreational fishing only. The population within 4 miles of the site is 121,994 (18). Single family residences abutt the site to the North, West, and East.

6. Other Regulatory Involvement

None

7. Conclusions and Recommendations

The Valley Park Middle School Site is a 36 acre former municipal landfill for the City-Parish of Baton Rouge. A total of 27 priority pollutants in the form of volitile organics (chloroform and methylene chloride), semivolitile organics (phthalates, pyrenes, fluoranthenes, and others), and heavy metals (arsenic, mercury, chromium, lead, and others) have been detected at locations on site that are in direct contact with school students, personnel, and the general public. Sample analysis has revealed the presence of no pesticides or PCBs on site. The major concern is the proximity of the school building and the recreation center/playground to the covered

landfill. An estimated 300 people use the BREC ball diamond each week and another 300+ personnel/students use the school building as a job site or attend classes on a regular basis. Another concern is the potential for contamination of surface water from migration of pollutants from the landfill. Site surface water drainage is not controlled. Analysis of sludge samples drawn from the open drainage ditch in 1982 suggested that surface water migration of priority pollutants had not advanced to Dawson's Creek. The present surface water migration status of priority pollutants is unknown.

The IAS Division, LaDEQ, concludes that further information is necessary to characterize the site.

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2	Legal Document, Title Transfer of Property Between BR City-Parish and the EBR School Board. August 23, 1965.
3	Letter from Louis Capizzoli Jr., CEC, to EBR School Board Regarding Building Construction Recommendations. May 12, 1966.
4	LaDEQ, IAS Division, Citizen's Complaint Record. November, 1988.
5	Memorandum from Tom Mayhall, LaDEQ, to File Regarding Valley Park Middle School. March 30, 1989.
6	LaDNR, Interim Inspection Report Providing Results of Lab Tests Performed by Enviro-Med. December 9 1982.
7	Enviro-Med Laboratories, Report of Findings from Analysis of 3 Samples Drawn from the Site. November 30, 1981.
8	Hill, John M., Malone, Roland F., Burden, David S., "A Preliminary Environmental Assessment, East Valley Park Middleschool Landfill Site", Submitted to LaDNR. October, 1982.
9	Hazardous Waste Management Division, LaDEQ, General Inspection Report Listing Field Sample Locations/Statistics. December 1, 1982.
10	Gulf South Research Institute (GSRI), "Preliminary Data Summary- Priority

REFERENCES

Reference Number	Reference
10,cont'd.	Pollutant and Miscellaneous Analytical Determinations", Prepared for Hazardous Waste Management Division, LaDNR. December 13, 1982.
11	Aerial Photo of the Valley Park Middle School Site. May 20, 1986.
12	(GSRI), "Final Data Summary- Priority Pollutant and Miscellaneous Analytical Determinations", Prepared for Hazardous Waste Management Division, LaDNR. December 21, 1982.
13	LaDEQ, IAS Division, Summary Table of GSRI Sample Analysis Results Contained in December 21, 1982 Final Report. August 4,1989.
14	La Dept. of Conservation, La. Geol. Survey, and La. Dept. of Public Works, Water Resources Bulletin #2, "Ground Water Conditions in the Baton Rouge Area 1954-59". December, 1961.
15	LaDEQ, IAS Division, Valley Park Middle School Site Water Well Location Map, July 25, 1989.
16	DOTD Water Resources Division, Listing of Water Wells Within 4 Mile Coordinates of Valley Park Site. July 18,1989.
17	Letter from LSU Assistant Climatologist to Charles Hunter, LaDEQ, Regarding Baton Rouge Precipitation. June 26, 1989.
18	POPULATION ESTIMATE WITHIN 4 MILES RADIUS OF SITE BASED UPON ESTIMATED 1988 CENSUS TRACT POPULATIONS, AUGUST 31, 1989.

SCREENING SITE INSPECTION REPORT

JUL - 1 1992

VALLEY PARK SCHOOL
4510 BAWELL STREET
BATON ROUGE, LOUISIANA 70808
(LAD985170273)

VOLUME 1 OF 3

Prepared by

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The Louisiana Department of Environmental Quality
Inactive and Abandoned Sites Division

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VALLEY PARK SCHOOL

BATON ROUGE, LOUISIANA

1. INTRODUCTION

The U.S. Environmental Protection Agency (EPA) has tasked the Louisiana Department of Environmental Quality (LDEQ), Inactive and Abandoned Sites Division (LDEQ) to develop a report for the screening site investigation (SSI) of the Valley Park School in Baton Rouge, Louisiana in East Baton Rouge Parish. The EPA Site Identification number for this site is LAD985170273. This investigation is performed under the authority of the Comprehensive Environmental Response, Compensation, and Liability Act of 1980 (CERCLA) and the Superfund Amendments and Reauthorization Act of 1986 (SARA). The project is funded by the EPA/LDEQ Multi-site Grant.

1.1 Screening Site Investigation Objectives

The SSI evaluates the potential risks associated with hazardous waste generation, storage and disposal at the site. It expands upon data collected during the Preliminary Assessment (PA) and identifies data gaps. Information obtained during the SSI supports the management decision of whether the site qualifies for the Listing Site Inspection (LSI) or receives the classification of "Site Evaluation Accomplished (SEA)" under the Superfund Amendments and Reauthorization Act (SARA).

1.2 Site Description

The Valley Park School site, also called the Valley Park Landfill, hereinafter referred to as "the site," comprises approximately thirty-six (36) acres within the city limits of Baton Rouge, Louisiana in East Baton Rouge Parish. The geographic coordinates are: 30° 26′ 33" N. latitude and 91° 08′ 38" W. longitude. It is divided in half from east to west of the site by U.S. Interstate Highway 10.

The northern twenty-three acre section of the site is owned by the East Baton Rouge (EBRP) School Board and includes the Valley Park Administration Complex building, parking lots, basketball courts and two baseball fields. Approximately 300 personnel occupy the building on a full or part time basis. Also, adult and child students participate in learning and testing activities.

The East Baton Rouge Parish Recreation and Parks Commission and the Baton Rouge City-Parish separately own two parcels of land located in the southern portion of the site, totaling 13 acres. This area includes an indoor recreational center, three adjacent buildings, a baseball field, an adolescent playground area, and a large

stockpile of dirt and rubble. Approximately 1500 people use the recreation center and approximately 300 people use the outdoor facilities on a monthly basis. The three buildings are occupied by twenty-seven City/Parish staff members (Ref. 1, 2 & 3).

1.3 Site Conditions

There is an estimated six- to eight- foot deep lift of garbage/fill material in the landfill. There is a two foot clay cap on the landfill in good condition. There are no containment structures at the site except a two foot clay cap. Garbage debris is apparent along the full length of the ditch bordering the east side of the site. The cap is in good condition with a healthy grass covering. Stressed vegetation was not detected. Leachate in four places along the east side of the site flows into the adjacent ditch. All building structures on the site appear in good condition. The parking lot at the Administration Building is in poor condition due to subsidence. Subsidence is the result of settling that occurs as loosely-packed wastes compress and decompose over time. The administration building has not and probably will not suffer from subsistence because the building foundation slab is anchored and supported by a hard Pleistocence clay (Ref 4).

1.4 Operating History

The Valley Park Landfill began using the site in the 1940's, first as a backup, then as the City-Parish's primary landfill from 1958 to 1963. No known records were maintained as to types or quantities of materials deposited at the site. It is assumed that the site contains primarily residential garbage from the Baton Rouge Community. There is no evidence that potentially hazardous wastes were or were not deposited at the site. Construction of the Interstate (I-10) dividing the site commenced in 1963 and was completed in 1965.

The East Baton Rouge Parish School Board initiated construction of the Valley Park School building in 1966 and it was completed in 1968. The building is supported by wooden pilings at a depth of fifteen feet into pleistocene clay. Valley Park operated as a junior high school from 1968 to 1973, then as a middle school until 1986, at which time it converted to an administrative, testing, and adult education center.

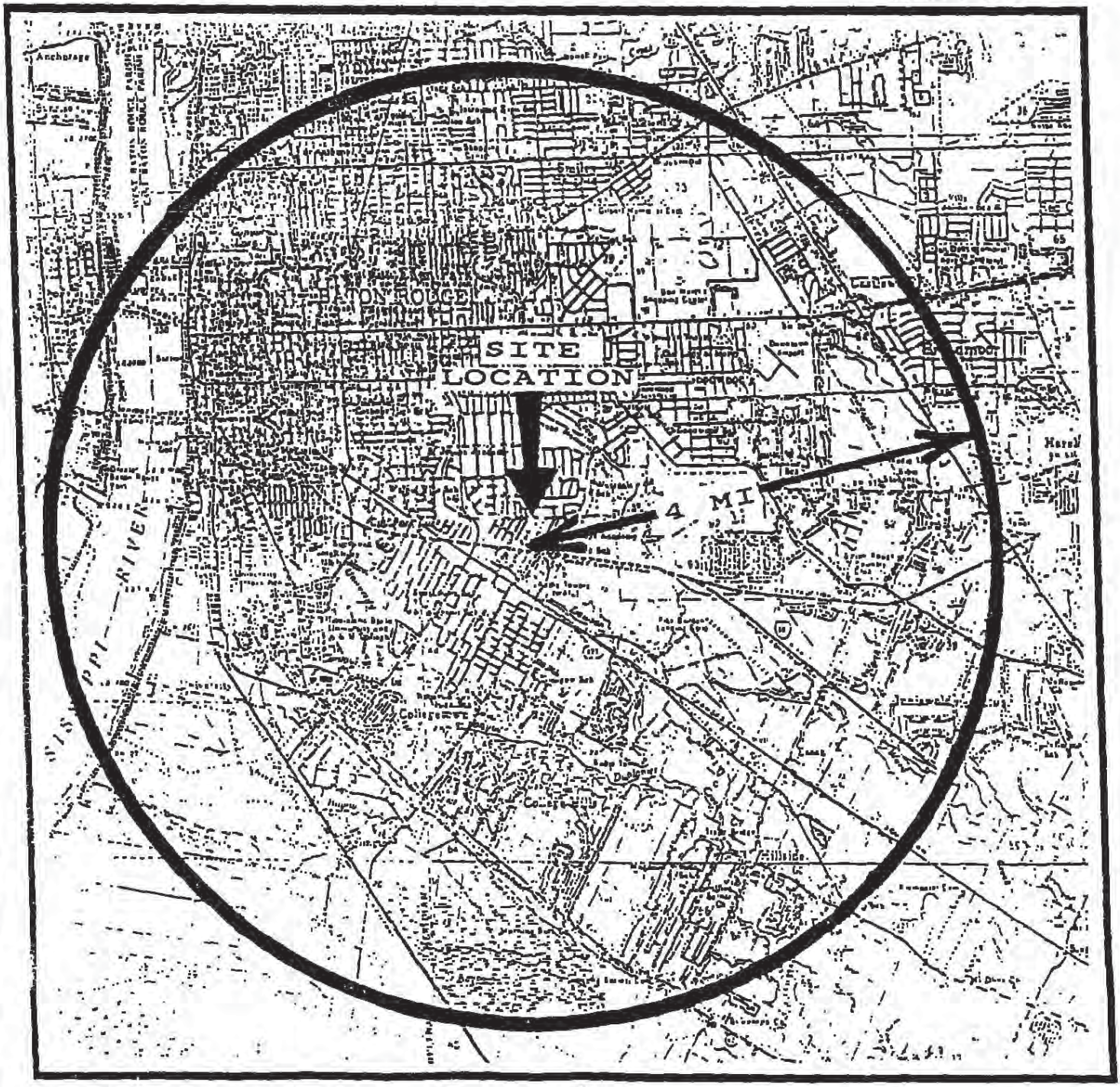
Residential construction occurred around the site primarily between 1941 and 1953, with an increase in density of housing from 1953 until 1959. Most buildings around the site are single or multiple family homes. There are also some apartment complexes, churches, and small businesses nearby.

1.5 Site Location Map

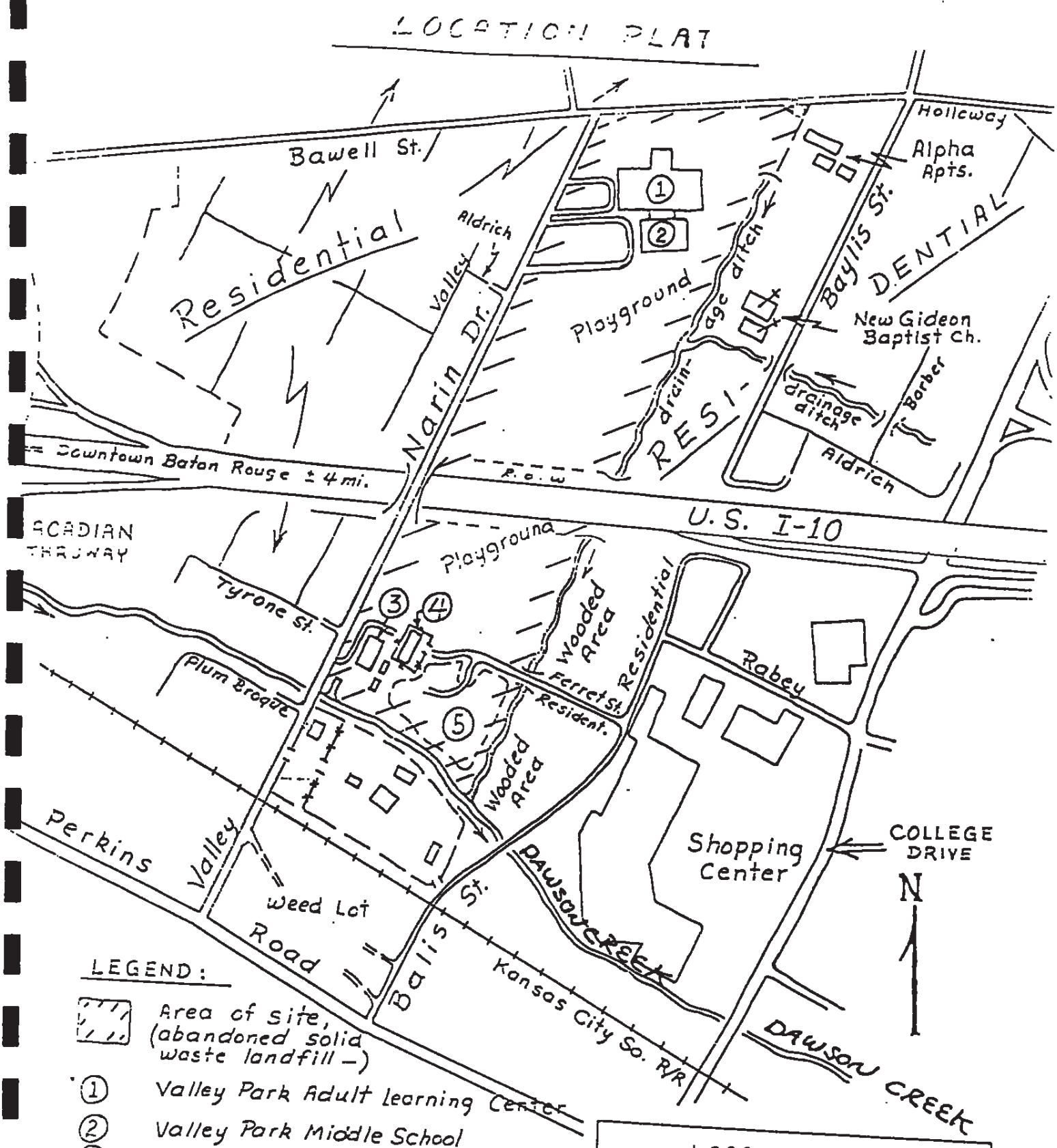
Louisiana Department of Environmental Quality

SITE LOCATION MAP

VALLEY PARK LANDFILL
BATON ROUGE, LA



1.6 Location Plat and Aerial Photo



LEGEND:

- Area of site, (abandoned solid waste landfill –)
- ① Valley Park Adult learning Center
- ② Valley Park Middle School
- ③ Narin Dr. Park (A BREC facility)
- ④ Dept. of Public Works, S. Maint. Lot
- ⑤ Dept. P.W., Stockpile excess dirt and broken concrete –

Note: Orig. Sz. of landfill = 40 ac. (Valley park area = 23ac; Narin Dr. Pk. = 13ac.; I-10 area = 4 ac. –)

LOCATION PLAT

Valley Park Elementary Site

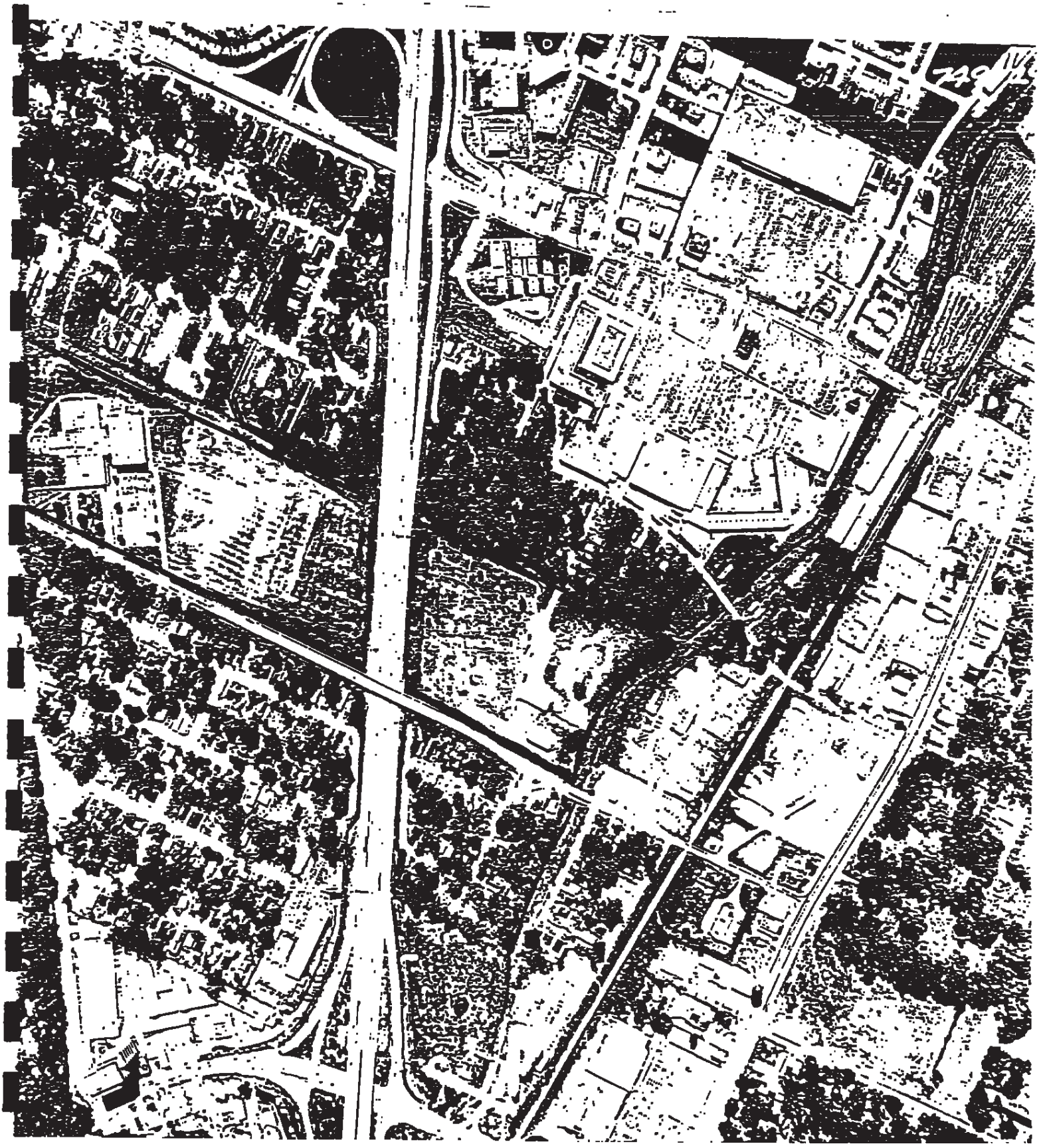
(City of Baton Rouge, La., E. Baton Rouge Pa.)

Data taken from an Aerial Photo (La. DOTD 450-10-00, 749-29 taken 5-20-86) –

EBO/4-1-89 Scale: 1" = 505'

AERIAL PHOTO (05-20-86)

N



1.7 Summary of Previous Investigations

The PA completed by the LDEQ/IASD in August, 1989, revealed that three field investigations were previously conducted. A total of 27 priority pollutants in the form of volatile organics, semi-volatile organics, and heavy metals have been detected at locations on the site. These pollutants have the potential to come in direct contact with students, personnel, and the general public. Most detections of hazardous substances were from leachate from the landfill. The major concern is being the proximity of the administration building and the public recreation center/playground to the covered landfill. Another concern is that no containment structures exist at the landfill site except for a two foot clay cap. Site surface drainage and leachate from the site poses potential for contamination of nearby surface water pathways. It was concluded that further information was necessary to more fully characterize the site (Ref. 5).

The following is a chronological summary of investigative events concerning the Valley Park Complex Building and/or landfill to date.

1981-The Louisiana Department of Natural Resources (DNR), Hazardous Waste Management Division collected shallow soil, water and sediment samples from the landfill site. There were no detections of hazardous constituents from the samples, but more extensive sampling was recommended (Ref. 6).

1982-The Louisiana State University submitted a preliminary environmental assessment of the landfill site which detailed a sampling event which resulted in detection of zinc at 300 ppm, cadmium at 16 ppm; lead at 1120 ppm and arsenic at 53.0 ppm (Ref. 7).

1982-Gulf South Institute prepared an investigative report for DNR. Samples collected at the Valley Park Landfill resulted in low levels of some metals only (Ref. 8).

1986-Cox, Walker and Associates, Inc., consulting Engineers were unsuccessful in attempting to collect air samples of the indoor air environment at Valley Park School. The inspector noted he detected no odors, damaged vegetation, or chemicals (Ref. 9).

1988-The EBRP School Board contracted Arch Consulting Services, Inc., to test the indoor air for formaldehyde from Valley Park School in rooms 100 and 104. Formaldehyde was not detected. It was determined that," the findings should not pose any significant problem for employees working in those areas" (Ref. 10).

1989-Arch Consulting Co., Inc., sampled ambient air in rooms no. 100 and no. 104, testing for formaldehyde, methane, carbon

dioxide and carbon monoxide. Detections reported were within safe guidelines. Biological monitoring of the building was recommended (Ref. 11)

1989-The Maintenance Division of the EBRP School Board cleaned and re-installed all air conditioning coils in the Valley Park Complex building. Six floor drains were plugged with cement in an office area that had previously been a kitchen. These drains had not been in use for some time, therefore sewer gas was possibly emitted into the building.

1990-The EBRP School Board contracted West-Paine Laboratories to test the drinking water for metals, fluorides, nitrates, volatile organics, radiologicals and pesticides/herbicides. All detections were within acceptable levels (Ref. 12).

1991-In September, 1991, an employee representative at Valley Park submitted results of health concerns to Dr. Bernard Weiss, Superintendent of EBRP Schools. The report identified numerous health complaints including neurologic, upper respiratory, ocular, and dermatologic symptoms. Employee proposals included extensive ambient air sampling of the building interior and campus grounds, examination of the ventilation system, and other proposals.

1991-October 7th, 8th and 9th. LDEQ/IAS personnel collect thirty-two field samples in accordance with SSI work plan dated April 7, 1991 (Ref. 13).

1992-In February, the LDEQ/IAS Division submitted an investigation report of the Valley Park Administration Center building to Dr. Bernard Weiss of the EBRP School board. The investigation was jointly conducted with the Louisiana Office of Public Health Section of Environmental Epidemiology. Indoor ambient air was sampled and tested for non-methane hydrocarbons, all compounds on the Target Compound List, CO2/O2 concentrations, bacteria and fungi. No vapors were detected which could have originated from the previous landfill. Bacteria and Fungi were detected in the heating/air conditioning duct work. The general opinion was that the building had symptoms of sick building syndrome. Other findings were reported and other recommendations were made (Ref. 14).

2. DATA COLLECTION

2.1 On-Site Reconnaissance Inspection

Just prior to SSI sample collection in September 1991, a site reconnaissance inspection was made by Tom Mayhall of the LDEQ/IAS Division. Sampling locations were easily accessible. Leachate was flowing from the site into the adjacent ditch from three locations. Household Garbage coming from the landfill was apparent the full length of most of the bank of the adjacent ditch. The site was

inspected on other occasions by the LDEQ/IAS Division. Other inspections were primarily follow-up to citizen complaints of either building related health concerns or leachate coming from the site.

The landfill is easily accessible to the general public. There are no natural or artificial barriers preventing accessibility. Chain-link fencing is present around the site on the northern section (North of I10), but it is not continuous. There are numerous entry points in this area. An indoor environmental investigation of the Administration building resulted in the conclusion that landfill vapors were not detected in the building. The health related problems were most probably from fungi and bacteria in the ventilation system and inadequate air flow distribution (Ref. 14).

The Maximum Exposed Individual (MEI) locations and target distance determinations were made. The Valley Park Administration building is situated on top of the old landfill. There are approximately 300 occupants that are in the building in a normal eight hour day Monday through Friday (Ref. 1, 2 & 3) Approximately 1500 use the recreation center and 300 people use the outdoor recreation facilities on a monthly basis. The site is situated in a heavily populated residential area. The target population estimate based on the 1990 Census from 0 to ¼ mile from the parameter of the site is 1,787 people (Ref 17). This figure does not include the number of people that use the site for recreation or occupants of buildings located on the site.

The landfill generally received household waste. It is not known if the site received industrial and/or commercial wastes. No records are available as to waste types. Nearby neighbors reported the site previously had an incinerator that burned garbage located just south of the Administration building. The site is not known to be underlain with a liner. The site is well drained with a three to five percent slope to the southeast. All surface drainage and leachate eventually flows into Dawson Creek.

On December 2, 1991, a public meeting was held at the Valley Park Complex building to determine health concerns in the building and area residents. The Louisiana Office of Public Health, Section of Environmental Epidemiology and the LDEQ/IASD held a public meeting December 2, 1991 at the Administration Building. The purpose of the meeting was to determine health related problems from occupants in the building and area residents. In response to reported health problems from employees of the Valley Park Administration building, LDEQ and the Office of Public Health (OPH), DHHR, undertook and indoor environmental investigation of the building. The objective of the investigation was to collect data which would define and help evaluate the indoor environment, locate potential sources of contamination, and evaluate the ventiliation system for the purpose of making recommendations for corrective action. This resulted

into the Valley Park Administrative Center Investigative Report (Ref. 14).

2.2 Sampling Inspection

LDEQ/IASD staff conducted the sampling inspection on October 7, 8 and 9, 1991. On October 7 & 8, staff included Tom Mayhall (site safety officer and sampler), John Halk (team leader), Todd Thibodeaux (decontamination officer) and Kyle Moppert (sampler) of LDEQ/IASD and Thea Sloan (CLP Coordinator) with Ecology and Engineering (TAT). On October 9, Samples were collected by Tom Mayhall (team leader and site safety officer), Kyle Moppert (sampler) and Thea Sloan (CLP Coordinator). EPA tasked TAT team member Thea Sloan to tag, package, and ship samples in accordance with CLP criteria.

Sampling was needed to more fully characterize the site. Sample locations were chosen which would help determine if the site was posing a potential environmental and/or health threat. The locations were in accordance with the Valley Park School SSI Work Plan dated April 7, 1991 (Ref. 15). Locations were also chosen at previous sampling locations to qualify previous analytical results. The pathway of most concern was on-site exposure considering the high usage of the administration building and recreational facilities. Ground water and surface water pathways were also of concern because previous sampling of leachate indicated the presence of hazardous substances.

Nine (9) soil, seven (7) sediment, nine (9) surface water, One (1) rinsate and seven (7) ground water samples were collected, a total of thirty-three (33) samples. All sample containers were tagged, packaged and shipped according to Department of Transportation (DOT) requirements 49 CFR. Inorganic samples were shipped to Datachem laboratories and organic samples were shipped to Southwest Research Institute (Ref. 13)

2.3 Sampling Locations Table

Note: Refer to sample location Plat

SAMPLE #	MATRIX	LOCATION
SS-1	SOIL	0-6" FROM A VACANT LOT BETWEEN 4581 AND 4615 BAWELL ST. 200 FT. N. OF STREET R. OF WAY
SS-2	SOIL	0-6" FROM N. SIDE OF BUILDING, 47' E. OF BUILDING, 12' S. OF SIDEWALK
SS-3	SOIL	0-6" IN LOW AREA 56' W. OF PAVED AREA IN LINE WITH CHAIN LINK FENCE AND 28' FROM CORNER OF BALL FIELD FENCE
SS-4	SOIL	0-6" FROM N. SIDE OF I-10 R. OF WAY IN 1' WIDE DRAINAGE 126' W. FROM SE FENCE CORNER AND 58' S. OF FENCE AND 8' N. OF LIGHT POLE
SS-5	SOIL	0-6" 95' N. OF I-10 CULVERT, 15' UP EMBANKMENT (SAME LOCATION AS SW-8)
SS-6	SOIL	FIELD DUPLICATE OF NO. SS-5
SS-7	SOIL	0-6" 427' N. OF NO. SW-8, 10' UP EMBANKMENT (SAME LOCATION AS SW-9)
SS-8	SOIL	0-6" IN LOW AREA 100' E. OF TWO WOODEN LIGHT POLES AND 64' S. OF FENCE
SS-9	SOIL	0-6" AT CHILDREN'S PLAYGROUND AREA 12' S. OF UTILITY POLE W/TRANSFORMER, 150' E. OF NAIRNE DR. BRIDGE
SW-1	SURFACE WATER	CENTER OF DAWSON CREEK 50' E. OF DRAINAGE DITCH OUTFALL AND 155' W. OF BALIS ST. BRIDGE
SW-2	SURFACE WATER	CENTER OF DAWSON CREEK 100' W. OF NAIRNE ST. BRIDGE
SW-3	SURFACE WATER	CENTER OF DRAINAGE DITCH 30' N. OF FERRET ST. BRIDGE
SW-4	SURFACE WATER	CENTER OF DRAINAGE DITCH 50' N. OF PAVED DRAINAGE DITCH
SW-5	SURFACE WATER	DISCHARGE WATER FROM CORRUGATED DRAIN (SURFACE WATER DRAINAGE)
SW-6	SURFACE WATER	EXTREME N. OF DRAINAGE DITCH DIRECTLY BELOW STORM WATER OUTFALL CENTER OF DRAINAGE DITCH

SAMPLE #	MATRIX	LOCATION
Note: Refer to sample location Plat		
SW-7	SURFACE WATER	FIELD DUPLICATE OF SW-6
SW-8	SURFACE WATER	LEACHATE FROM 15' UP EMBANKMENT, 95' N. OF I-10 CULVERT (SAME LOCATION AS SS-5
SW-9	SURFACE WATER	LEACHATE FROM 10' UP EMBANKMENT , 427' N. OF SW-8
SW-10	WATER	RINSATE FROM DECONNING SAMPLING TOOLS
S-1	SEDIMENT	CENTER OF DAWSON CREEK 50' E. OF DRAINAGE DITCH OUTFALL AND 155' W. OF BALIS ST. BRIDGE (SAME LOCATION AS SW-1)
S-2	SEDIMENT	CENTER OF DAWSON CREEK 100' W. OF NAIRNE ST. BRIDGE
S-3	SEDIMENT	CENTER OF DRAINAGE DITCH 30' N. OF FERRET ST. BRIDGE
S-4	SEDIMENT	CENTER OF DRAINAGE DITCH 50' N. OF PAVED DRAINAGE DITCH INTERSECTION
S-5	SEDIMENT	CENTER OF DRAINAGE DITCH 1' FROM STORMWATER OUTFALL DRAIN AT BAWELL ST.
S-6	SEDIMENT	FIELD DUPLICATE OF S-5
S-7	SEDIMENT	COLLECTED DIRECTLY FROM DISCHARGE FROM CORRUGATED DRAIN PIPE LOCATED NEAR BASKETBALL COURT DRAINING INTO DRAINAGE DITCH
GW-1	GROUND WATER	LSU-FOOTBALL PRACTICE FIELD, WELL I. D. NO. 302439091103001
GW-2	GROUND WATER	FIELD DUPLICATE OF GW-1
GW-3	GROUND WATER	LSU-PUMP HOUSE AT ACADIAN DORM WELL I. D. NO. 302456091101
GW-4	GROUND WATER	LSU-ROSE GARDEN WELL NO. 302443091101
GW-5	GROUND WATER	LSU-PUMPHOUSE AT SYSTEMS BUILDING WELL I. D. NO. 302434091103001

SAMPLE #	MATRIX	LOCATION

Note: Refer to sample location Plat

GW-6	GROUND WATER	M. NEHER RESIDENCE AT 861 DELGADO WELL I. D. NO. 302422091094
GW-7	GROUND WATER	J. OBERLING RESIDENCE AT 5620 BERKSHIRE DR. WELL I. D. NO. 302422091094 (BACKGROUND)

2.4 Sample I.D. Table

The following table details the station location number with the assigned Contract Lab Program (CLP) identification number.

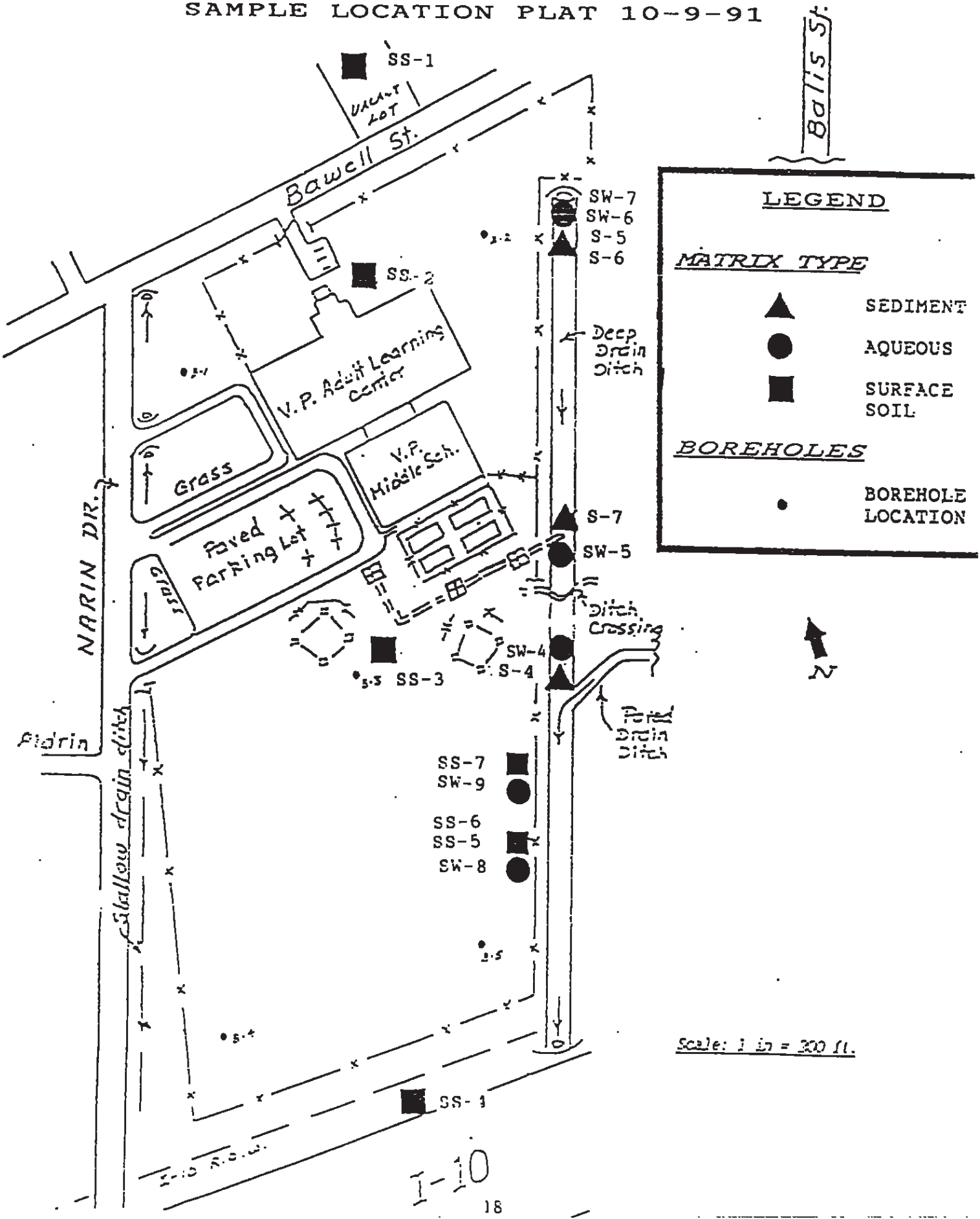
STATION LOC	CLP ORGANIC NO.	CLP INORGANIC NO.
SS-1	FT218	MFR618
SS-2	FT219	MFR619
SS-3	FT220	MFR620
SS-4	FT221	MFR621
SS-5	FT222	MFR622
SS-6	FT223	MFR623
SS-7	FT224	MFR624
SS-8	FT225	MFR625
SS-9	FT226	MFR626
SW-1	FT201	MFR601
SW-2	FT202	MFR602
SW-3	FT203	MFR603
SW-4	FT204	MFR604
SW-5	FT205	MFR605
SW-6	FT206	MFR606
SW-7	FT207	MFR607
SW-8	FT208	MFR608
SW-9	FT209	MFRS09
SW-10	FT217	MFR617
S-1	FT210	MFR610
S-2	FT211	MFR611
S-3	FT212	MFR612
S-4	FT213	MFR613
S-5	FT214	MFR614

STATION LOC	CLP ORGANIC NO.	CLP INORGANIC NO.
S-6	FT215	MFR615
S-7	FT216	MFR616
GW-1	FT227	MFR627
GW-2	FT228	MFR628
GW-3	FT229	MFR629
GW-4	FT230	MFR630
GW-5	FT232	MFR632
GW-6	FT231	MFR631
GW-7	FT233	MFR633

2.5 Sample Location Plat (Northern Section)

VALLEY PARK SCHOOL (SSI)

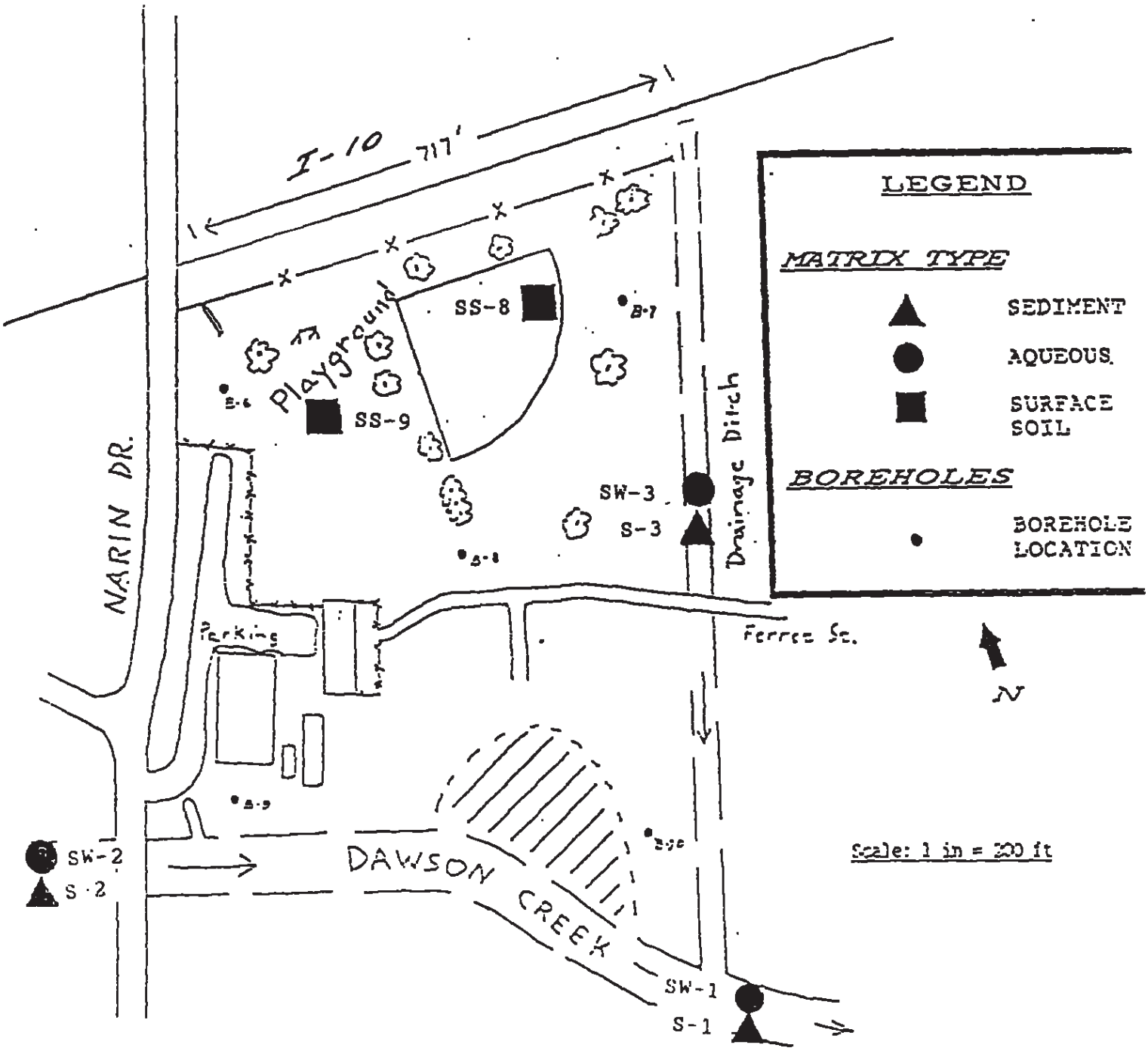
SAMPLE LOCATION PLAT 10-9-91



2.6 Sample Location Plat (Southern Section)

VALLEY PARK SCHOOL (SSI)

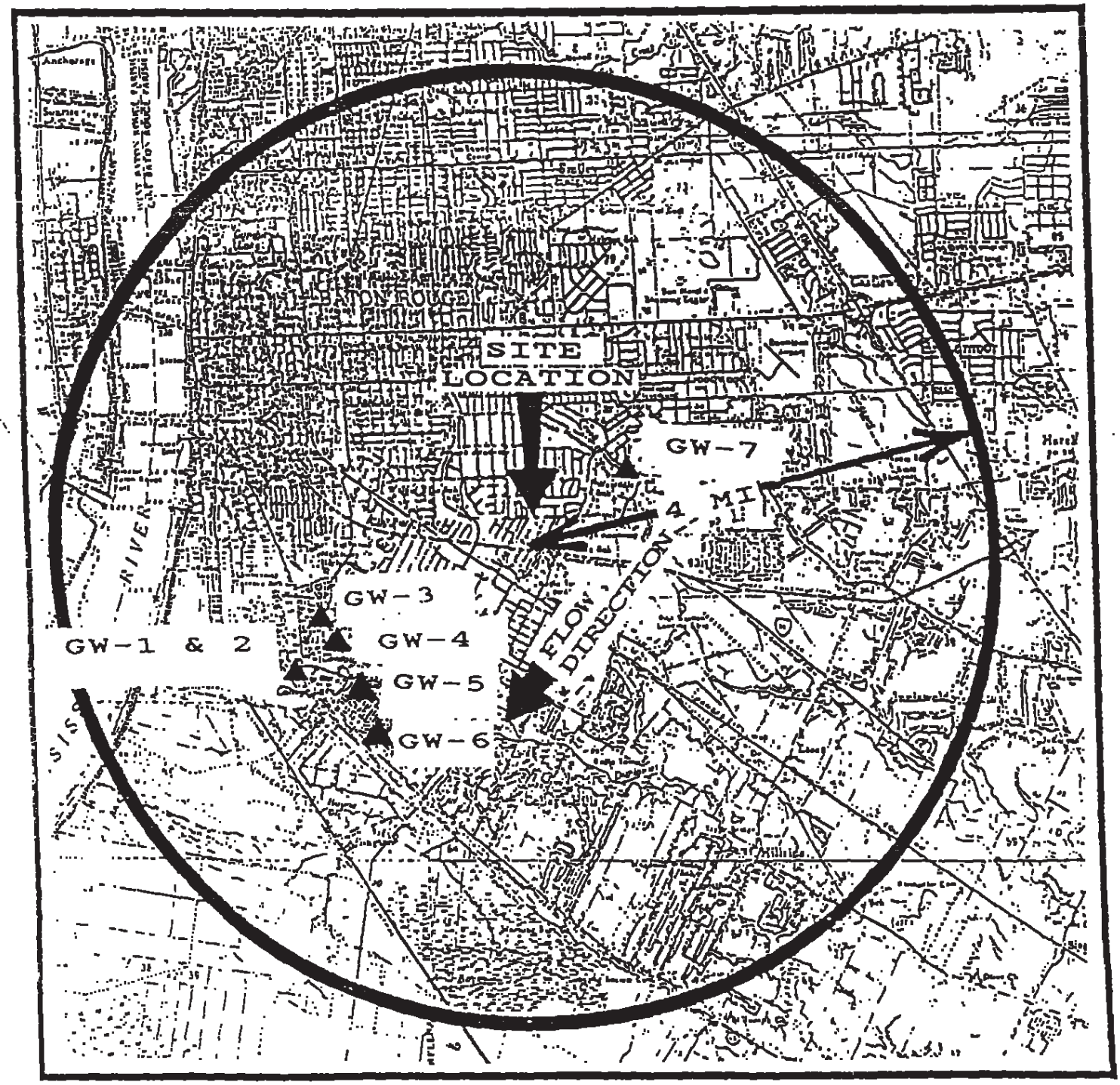
SAMPLE LOCATION PLAT 10-9-91



2.7 Sample Location Plat (Water Wells)

WATER WELL SAMPLING LOCATIONS

VALLEY PARK LANDFILL
BATON ROUGE, LA



3. ANALYTICAL RESULTS

3.1 Narrative

note:For complete explanation of Routine Analytical Services data flags, see RAS data flags definitions at the end of the Sample Analyses Summary Table (Appendix B).

Volatiles

Levels of 4 Target Compound List (TCL) volatile organic compounds were detected in 7 surface soil samples, 1 surface water sample and 5 sediment samples. No volatile organic compounds were detected in ground water samples (See Sample Analyses Summary Table). Ten of the 17 volatile detections were flagged "J" or "BJ", which indicates either the associated value is an estimated quantity or the associated value is an estimated quantity and is found in the associated blank as well as the sample. The concentrations of these 4 volatiles (Acetone, 2-Butanone, Chlorobenzene, Disulfide,Dimethyl) ranged from 4-33 ppb.

Pesticides/PCBs

Two TCL Aroclors and 7 TCL Pesticides were detected at a total of five sample locations for surface water sediments and surface soils: S-5, S-6, SS-4, SS-8, and SS-9. Sample S-6 is a field duplicate of S-5. These sediment samples were taken at the extreme northern point of the deep drainage ditch, just after drainage crosses underneath Bawell St. through a drain pipe and outfalls into the deep drainage ditch that borders the eastern edge of the Valley Park site. The Pesticides/PCBs detected in S-5 and Field Duplicate S-6 are from sediments falling from the urban surface water drainage north of Bawell Street.

Aldrin (11 UG/KG), 4,4'-DDT (12 UG/KG), and Aroclor-1248 (830 UG/KG) were detected in S-6. Aroclor-1242 (180 UG/KG) was detected in SS-4. Samples SS-4, SS-8, and SS-9 contained levels of 5 pesticides ranging from alpha-Chlordane (4.3 UG/KG) to 4,4'-DDE (17 UG/KG).

Semi-Volatiles and Tentatively Identified Compounds (TICs)

The greatest number of detections occurred in the TCL semi-volatile and tentatively indentified compounds (TICs) analytical categories. Most of these detections (494 out of 538) were flagged with the following data qualifiers: B, J, BJ, and NJ (See qualifiers definition list at the end of the Sample Analyses Summary Table).

No TCL semi-volatile compounds or TICs were detected above the Sample Quantitation Limit (SQL) in ground water samples GW-1 ▸ GW-7. Di-n-butylphthalate was found in GW-1 ▸ GW-7 at levels below

the SQL (1-2 UG/L); Seven TICs were found in GW-1 ▸ GW-7 below the SQL and flagged "J" or "BJ".

No TCL semi-volatile compounds or TICs were detected above the SQL in the surface water samples SW-1 ▸ SW-10. All detections (< SQL) were flagged with "J", "BJ", or "NJ".

All deep drain ditch sediments and Dawson Creek sediments exhibited semi-volatile and TIC detections. Samples S-1, S-5, and S-6 (Field Duplicate of S-5) showed concentrations of semi-volatile compounds above the SQL. Sample S-5 and S-6 were located 1' from the storm water outfall drain just south of Bawell Street. These samples represent the storm water outfall coming from off-site areas north of the Valley Park site. Representative compounds detected include benzo(a)anthracene, benzo(a)pyrene, benzo(k)fluoranthene, fluoranthene, phenanthrene, and pyrene. Sediment samples S-4 and S-3, located in the deep drain ditch, showed estimated "J" values of only 5 semi-volatile compounds. Two of these compounds were also found in the associated blanks (See Sample Analyses Summary Table). Sample S-7, sediment collected directly below discharge from a corrugated drain pipe draining into the deep drain ditch, also showed estimated "J" values of 10 semi-volatiles. Two of the 10 detected compounds were also found in associated blanks.

Sample S-1, sediment from the farthest downstream location in Dawson creek, showed compounds and concentrations of compounds similar to those seen in Sample S-5 and S-6. It is notable that this sample was taken approximately 200' downstream from a city DPW construction debris pile.

All on-site soil samples (SS-2 ▸ SS-9) taken from 0-6" into the cap clay material of the Valley Park site showed various TCL semi-volatiles and TICs. All values were flagged with "J" (estimated values) or "BJ" (estimated values; value also found in the associated blank). All semi-volatile TCLs were below the SQL for the on-site soil samples. Some of these detections were also found in the off-site background sample, SS-1. No discernible pattern can be seen when comparing these values to either the background sample or between the samples themselves. The highest concentration target compound was fluoranthene at 390 UG/KG ("J" flagged) in SS-4. SS-5, SS-6 (field duplicate of SS-5), and SS-7 were samples taken of the red-stained or rust-colored soils present on the side of the west embankment of the deep drain ditch. Again, these samples showed no detections of semi-volatile TCL or TIC compounds above the SQL.

Metals

Target Analyte List (TAL) inorganics were obtained for ground water, surface water, on-site soils, and surface water sediments.

Ground water samples (GW-1 ▸ GW-7) and surface water samples (SW-1 ▸ SW-9) exhibited no detections above the associated inorganics primary drinking water standards of the Safe Drinking Water Act (Ref. 25: 40 CFR 141.11).

Cyanide was found in surface water sample SW-5 (deep drain ditch) at a level of 120 UG/L, with decreasing levels detected downstream: SW-4 (21.2 UG.L), SW-9 (12.6 UG/L), SW-3 (16.1 UG/L), and SW-1 (11.2 UG/L).

On-site surface soils were compared with the background soil levels represented by SS-1. According to Table 2.3 of the USEPA Hazard Ranking System (40 CFR 300) an **observed release** is established when the sample measurement is 3 times or more above background, if the background concentration equals or exceeds the detection limit (Ref. 26).

Using the criteria above, observed releases were noted for non-priority and priority metals: aluminum, barium, cadmium, calcium, cobalt, copper, iron, mercury, potassium, silver, thallium, and zinc. Specifically, elevated levels of iron, calcium, aluminum, and potassium were seen in soil samples SS-5, SS-6 (field duplicate of SS-5), and SS-7. These were the soils that were stained with reddish coloration. Six priority metals (Arsenic, cadmium, copper, mercury, silver, and zinc) were compared with ranges of concentrations as depicted near the Baton Rouge area in "Element Concentrations in Soils and Other Surficial Materials of the Conterminous United States" -- a USGS Professional Paper by Shacklette and Boerngen (Ref. 27):

Element	Detected Location	Detected Conc. or. Conc. Range (ppm)	USGS PP 1270 Range (ppm)
Arsenic	SS-2,3,4,7,8	4.6 - 7.4	4.1 - 10
Cadmium	SS-2	1.3	not shown
Copper	SS-2	28.7	15 - 30
Mercury	SS-2	0.33	.2 -5.1
Silver	SS-2	0.79B	not shown
Zinc	SS-2,4,7,8	91.2 - 173	28 - 74

B - Indicates analyte was found in associated blank as well as the sample

Surface water sediment samples (S-1 ▸ S-7) were examined in the same way as for surface soils. Using sample S-2 (the most upstream Dawson Creek location) as representative of background concentrations for urban run-off sediments, observed releases were noted (3 times above S-2 concentrations) for arsenic, beryllium, cadmium, calcium, copper, iron, lead, manganese, nickel, thallium, vanadium, and zinc. All observed releases except for one (S-5) occurred in S-1, S-6 (Field duplicate of S-5), and S-7.

Priority pollutant metals were compared with the USGS Professional Paper 1270 element ranges found near the Baton Rouge area:

Element	Detected Location	Detected Conc. or Conc. Range (ppm)	USGS PP 1270 Range (ppm)
Arsenic	S-1	27.7	4.1 - 10
Beryllium	S-6	5	0 - 1
Cadmium	S-6	8.3	not shown
Copper	S-6,7	62.4 - 96.1	15 - 30
Lead	S-1,7	87.4 - 175	10 - 20
Nickel	S-6	137	20 - 700
Thallium	S-7	0.30B	not shown
Zinc	S-5,6,7	170 - 325	28 - 74

B: Indicates that analyte was found in the associated blank as well as the sample

Sample S-6 is located just south of Bawell Street, at the extreme North end of the deep drain ditch. It represents sediment that has accumulated from run-off coming from drainage points north of the site. Sample S-7 is located about mid-point between the I10 R.O.W. and S-6 (See map). S-1 is just downstream of the confluence of Dawson Creek with the deep drain ditch.

3.2 Sample Analyses Summary Table (See Appendix B)

This table presents all detections not flagged with a "U" data flag; the "U" qualifier indicates those compounds that were analyzed for but not detected.
The data qualifiers definitions and TCL Contract Required Quantitation Limits (CRQL) can be located at the end of the Sample Analyses Summary Table. The
"Table" was derived from the CLP laboratory data submitted with this report.

Note: Matrix spikes (MS), matrix spike duplicates(MSD), and secondary dilution factor analyses (DL) samples are included in the "Table".

3.3 Data Validation Summary

Environmental data associated with samples taken from the Valley Park Site were subjected to data validation by the USEPA (or its contractor). The guidelines utilized for the data validation process were "Laboratory Data Validation Functional Guidelines for Evaluating Organics Analysis" (USEPA 1988) and "Laboratory Data Validation functional Guidelines for Evaluating Inorganics Analysis" (USEPA 1988), for organic and inorganic data, respectively.

In general, the following criteria are typically considered when subjecting CLP (Contract Laboratory Program) formatted, organic analytical data to the data validation process:

Holding Times
GC/MS Tuning
Calibration
Blanks
Surrogate Recovery
Matrix Spike / Matrix Spike Duplicates
Field Duplicates
Internal Standards Performance
Overall Assessment of Data.

The criteria that are considered for validating inorganic data under the data validation guidelines are:

Holding Times
Calibration
Blanks
ICP Interference Check Samples
Laboratory Control Sample
Duplicate Sample
Furnace Atomic Absorption Quality Control
ICP Serial Dilution
Field Duplicates
Overall Assessment of Data.

Once validated, data are qualified with codes (qualifiers) according to the data validation guidance criteria. A listing of the qualifiers and their respective definitions have been included as a table in this document.

4. PATHWAY CHARACTERISTICS AND TARGET OBJECTIVES

Ground water, surface water, soil exposure and air pathway characteristics and targets are summarized below.

4.1 Source/Waste Characterization

The potential on-site source of contamination is the municipal waste buried at the site. The City-Parish maintained no records as to types and/or quantities of waste materials received by its landfills prior to the early 1970's. It is estimated that the site includes thirty-six (36) acres of garbage/fill material approximately seven (7) feet deep covered by a two (2) foot clay cap.

There are no containment structures on the site except the clay cap. A site visit was made to verify the depth and condition of the clay cap. Ten boreholes were installed, B-1 through B-10, (See Sample Location Plats 2.4 & 2.5). A three inch hand operated auger was used for this purpose. The soil surface was penetrated from the surface to a maximum depth of five feet, or until garbage/fill was encountered. Each borehole had at least a two foot clay cap. Garbage/fill was encountered at each borehole at two to three feet.

The general condition of the cap appeared intact. There were no apparent outcroppings of garbage on top of the site. Outcroppings of trash/rubble were observed along the east side of the site along an open ditch (Ref. 16)

4.2 Air Pathway

The site is located within a densely populated urban area, complete wtih multiple housing, shopping complexes, chruches, restaurants, and other businesses. The target population within the four mile target radius limit is based on U.S. Census figures of 1990. The census was divided into census tracts sized between 2,500 and 8,000 residents that are similar in population characterisitcs. Target radiuses were superimposed on an enlarged map containing census tracts to facilitate the use of a planimeter to obtain an accurate count within each radius segment. The total population of each tract segment within a radius zone was obtained by determining the percent partial area multiplied by the total census tract population. The populations are as shown below (Ref. 17):

RADIUS DISTANCE FROM SITE	POPULATION
0 to ¼ mi	1,787
¼ to ½ mi	2,474
½ to 1 mi	6,048
1 to 2 mi	30,840
2 to 3 mi	45,066
3 to 4 mi	47,068

TOTAL POPULATION WITHIN A FOUR MILE RADIUS: 133,883

During field sampling, air monitoring conducted on-site with an organic vapor monitor (OVM) did not detect concentrations above background at the surface. An Indoor Air Investigation was conducted at the Valley Park Administration Building which sits atop the landfill. Based on the analytical results of the indoor air sampling, no harmful chemicals were being emitted into the indoor air environment of the building.

4.3 Ground Water Pathway

East Baton Rouge Parish overlies twelve (12) freshwater aquifers aligned in layers of sand from 200 to 3100 feet below sea level. A blanket layer of hard pleistocene clay restricts migration between the surface ground water and the underlying sands.

The University Sand lies above the 400' Sand and is the most surfical aquifer containing water wells. The flow direction of the University sand aquifer in East Baton Rouge Parish appears to flow in a north to south-southwest direction, as does the "400 ft. sand". There is no documentation concerning horizontal flow patterns for this aquifer, however the "University sand" and the

"400 foot" sand are considered to have a close relationship in that they interconnect. Therefore, the best assumption is that the University Sand most probably flows in the same direction as the "400 ft. sand". Ground water direction is well documented for the 400 'sand. (Ref 18).

Five well samples were collected from 334 to 361 feet in depth located in the University Sands, one of which was a duplicate. Four wells are located down-gradient from the site and, as well as could be determined, are the shallowest and closest wells to the site. One background sample was collected up gradient, north of the site, at a depth of 390 ft.

4.4 Surface Water Pathway

An open drainage ditch bounds the site on the east side, and flows southwesterly into Dawson Creek. It is approximately 60 feet in width and 20 feet deep from the top of the landfill cap to the bottom of the drainage ditch. The ditch serves as a major drainage system for the residential area North of the site. Dawson Creek borders the southern end of the site. Surface run-off and leachate from the site eventuates into Dawson Creek. Dawson Creek flows southeasterly 6.3 miles emptying into Ward's Creek. At a point 12.3 miles downstream from the site, Ward's joins Bayou Manchac. The target distance limit of fifteen (15) miles is reached 2.7 miles downstream on Bayou Manchac, where Welsh Gully intersects.

The Bayou Manchac is used for recreational purposes including fishing and hunting. Residential dwellings exist along the Bayou Manchac within the fifteen (15) mile target distance limit. No declared wetland and/or sensitive environments exist within the 15 mile target distance limit (Ref. 19 & 20). There are no known drinking water intakes along the 15 mile target limit distance limit (Ref. 21).

4.5 On-Site Exposure Pathway

The onsite exposure pathway is of high concern considering the high usage and location of the administration building and the recreational facilities.

Three areas have been targeted for on-site exposure pathway consideration and are: (1) observed intermittent leachate flowing into the drainage ditch just south of the school building, (2) the recreational surface play areas, (3) and the surface area around the administration building. Samples were collected from all of these areas and results discussed in Section 3.1. There is a 2 foot clay cap over the former landfill area. Exposed areas along the east deep drain ditch, the south bank of the northern landfill section, and deep drain ditch and Dawson Creek sediments exhibited detections of hazardous substances above the SQL. Designation of Areas of Contamination (AOCs) are difficult due to the sparse

number and concentration level of postive contaminant detections. No patterns of migration of hazardous substances from the landfill were noted, when comparing surface soils SS-5, 6, and 7 with sediment samples S-7,4,3, and 1. Zinc was the only compound that was evident in samples from the bank of the ditch and also in the ditch sediment. It is difficult to designate the deep drain ditch as an area of contamination (AOC) due to the landfill because of the heavy influence of urban storm water run-off from areas north of the site.

Resident Populations

The northern 23 acre section of the Valley Park site includes the Valley Park Administration Complex, parking lots, basketball courts, and two baseball fields. Approximately 300 people occupy the building on a full or part-time basis.

The southern area, totaling 13 acres, is occupied by th East Baton Rouge Parish Recreation and Parks Commission and the Baton Rouge City Parish. This area includes an indoor recreation center, three adjacent buildings, a baseball field, an adolescent playground area, and a large stockpile of dirt and rubble used by the Department of Public Works. Approximately 1500 people use the recreation center and approximately 300 people use the outdoor facilities on a monthly basis. The three buildings are occupied by 27 City/Parish staff members (Ref. 1,2, & 3).

5. PROJECT MANAGEMENT

5.1 Key Personnel

On October 7 & 8, 1991, staff included Tom Mayhall (site safety officer and sampler), John Halk (team leader), Todd Thibodeaux (decontamination officer) and Kyle Moppert (sampler) of LDEQ/IASD and Thea Sloan (CLP Coordinator) with Ecology and Engineering (TAT). On October 9, 1991, Samples were collected by Tom Mayhall (team leader and site safety officer), Kyle Moppert (sampler) and Thea Sloan (CLP Coordinator). EPA tasked TAT team member Thea Sloan to tag, package and ship samples in accordance with CLP criteria.

The Project Manager for the SSI sampling was Tom Mayhall, who developed the work plan, gained site access (Ref. 22, 23 & 24), and was the site safety officer. John Halk was the field team leader October 7 and 8, 1991 and Tom Mayhall was the field team leader October 9, 1991. TAT team member Thea Sloan was the CLP coordinator. The remaining sampling team members were Todd Thibodeaux and Kyle Moppert.

6. CONCLUSIONS

A total of 33 environmental samples (including QA/QC samples) were taken at the Valley Park School (LAD985170273) by the Inactive and

Abandoned Sites Division, LDEQ, under a multi-site grant administered by the State. The sampling episode was performed during the period October 7-9, 1991. Contract Laboratory Program (CLP) procedures were followed with regard to identifying, tagging, shipping, and analyzing the samples. Although not a part of the SSI Workplan, air monitoring was done at the site. An Indoor Air Investigation (Ref. 14) was completed by DEQ/DHHR at the Valley Park Administration Complex. This study was in response to many reported health problems from occupants in the building, mostly respiratory in nature. The study concluded that, based on the analytical results of the indoor air sampling, no harmful chemicals were being emitted into the indoor air environment of the building. An organic vapor monitor (OVM) did not detect emissions at the site surface at the various sample locations. Analytical results from ground water samples collected in the "University Sands" between 334 and 361 feet in depth and down-gradient from the site indicate that contamination is not present in the strata studied. Surface water analytical results indicated no volatile, semi-volatile and TICs, or pesticides/PCBs above the SQL. Low concentrations of cyanide was found in the deep drain ditch surface water, with decreasing levels downstream.

Surface water sediments exhibited detections of TCL and TAL compounds. Most of the compounds detected were below the SQL. For example: 494 of 538 Semi-volatile and TIC detections for all samples were flagged with the data qualifiers "B", "J", "BJ", or "NJ". For sediment samples, a definite contaminant influence of urban run-off is seen in the drainage coming into the deep drain ditch north of the site (above Bawell Street). Observed releases were documented for sediments within the study area. Most of these releases occurred in S-5 and S-6, located just south of the Bawell Street culvert crossing. A pattern of migration of observed release contaminants was not readily discernible above the "background noise" of the urban run-off contaminant influence. The metal Zinc was the only element found that constituted an observed release and was found in both the reddish-stained soils of the deep ditch bank and the deep ditch sediments.

Low detections of organics in the on-site surface soils (almost all below the SQL) do not indicate a migration of potential hazardous constituents from the landfill. Possible explanations for the detections include import of clay fill material from another geographical location with accompanying background concentrations, past application of herbicides and insecticides in routine maintenance, and hydrocarbon emissions or fuel leaks from grass-mowing machines used at the site.

7. APPENDICES

APPENDIX A

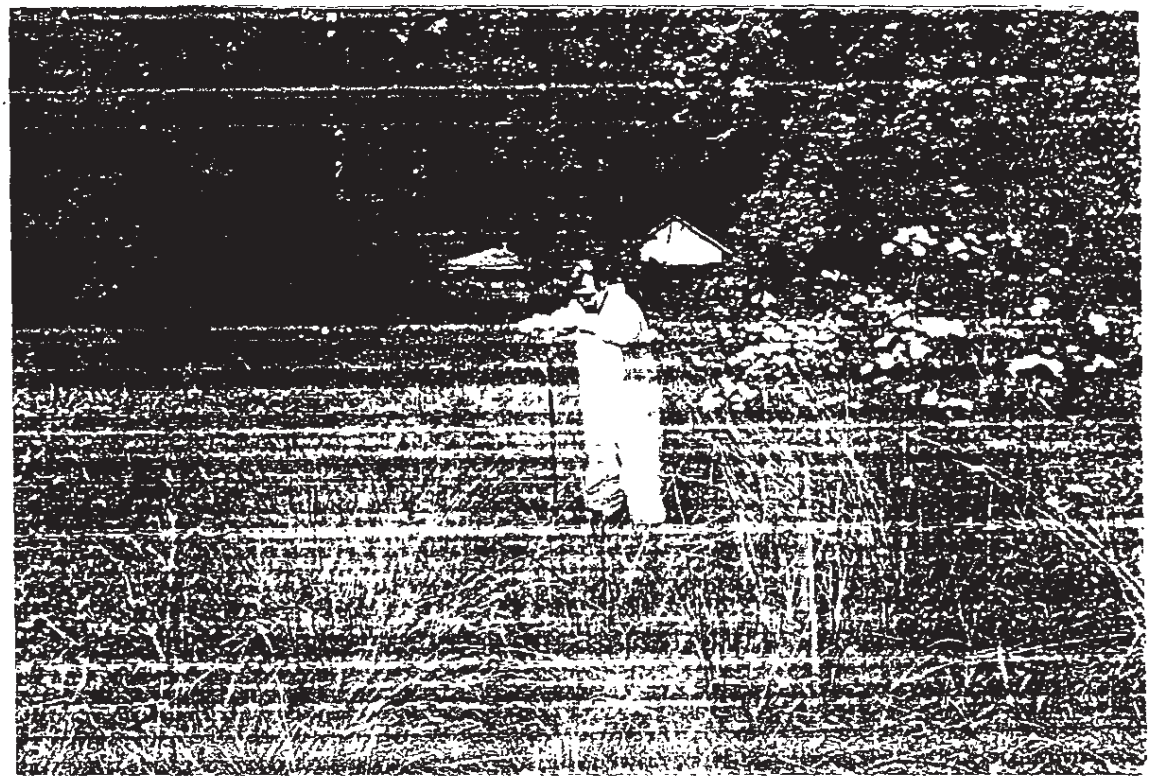


PHOTO NO. 1

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DATE 10-8-91 TIME 1000 HRS DIRECTION N

DESCRIPTION SAMPLE NO SS-1

PHOTO NO. 2

PHOTOGRAPHER/WITNESS KYLE MOPPERT

DATE 10-8-91 TIME 1030 HRS DIRECTION SSE

DESCRIPTION SAMPLE NO SS-2

PHOTO NO. 3

PHOTOGRAPHER/WITNESS KYLE MOPPERT/TOM MAYHALL

DATE 10-8-91 TIME 1100 hrs DIRECTION W

DESCRIPTION SAMPLE NO SS-3

PHOTO NO. 4

PHOTOGRAPHER/WITNESS KYLE MOPPERT/TOM MAYHALL

DATE 10-8-91 TIME 1200 hrs DIRECTION N

DESCRIPTION SAMPLE NO SS-4

PHOTO NO 5

PHOTOGRAPHER/WITNESS KYLE MOPPERT/TOM MAYHALL

DATE 10-8-91 TIME 1215 hrs DIRECTION E

DESCRIPTION SAMPLE NO SS-8

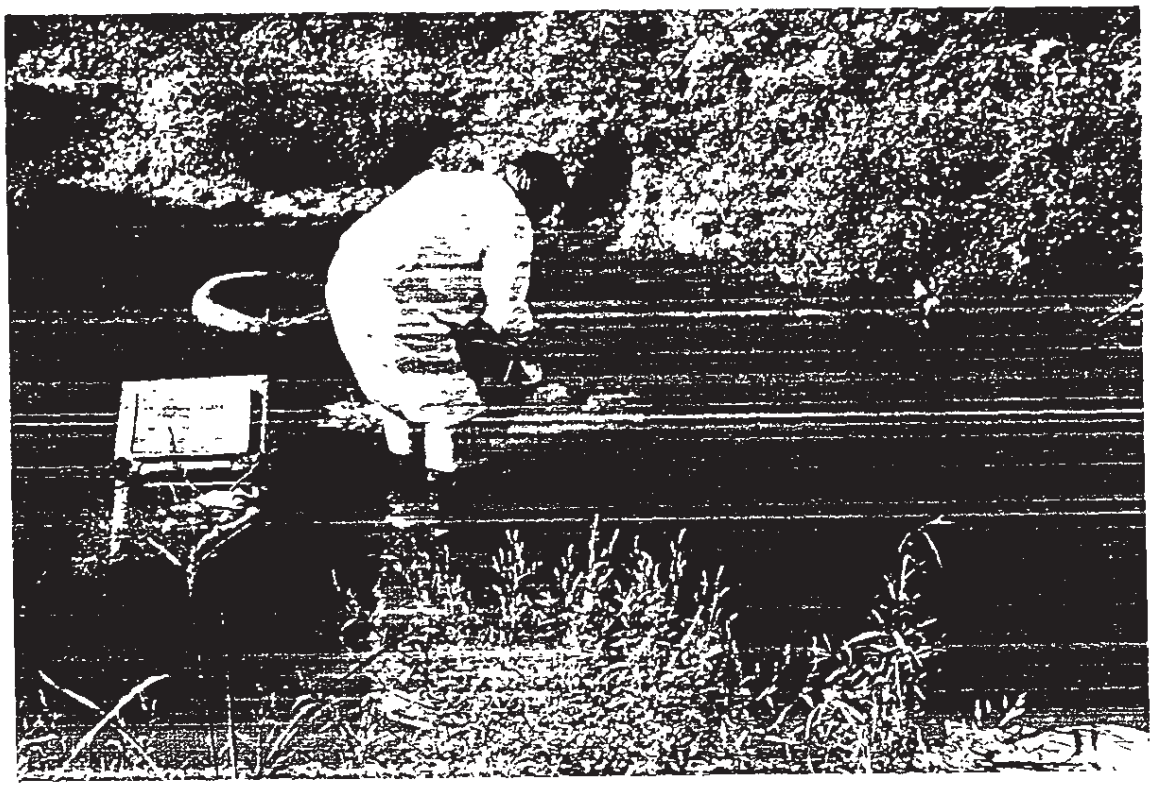
PHOTO NO. 6

PHOTOGRAPHER/WITNESS KYLE MOPPERT

DATE 10-8-91 TIME 1230 hrs DIRECTION N

DESCRIPTION SAMPLE NO SS-9

PHOTO NO
7



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WITNESS: TOM MAYHALL
DATE: 10-9-91
TIME: 0930 hrs
DIRECTION: NW
DESCRIPTION: SAMPLE NO S-2

PHOTO NO
8

PHOTO NO. 9

PHOTOGRAPHER/WITNESS KYLE MOPPERT/TOM MAYHALL

DATE 10-9-91 TIME 1000 hrs DIRECTION N

DESCRIPTION SAMPLE NO S-3

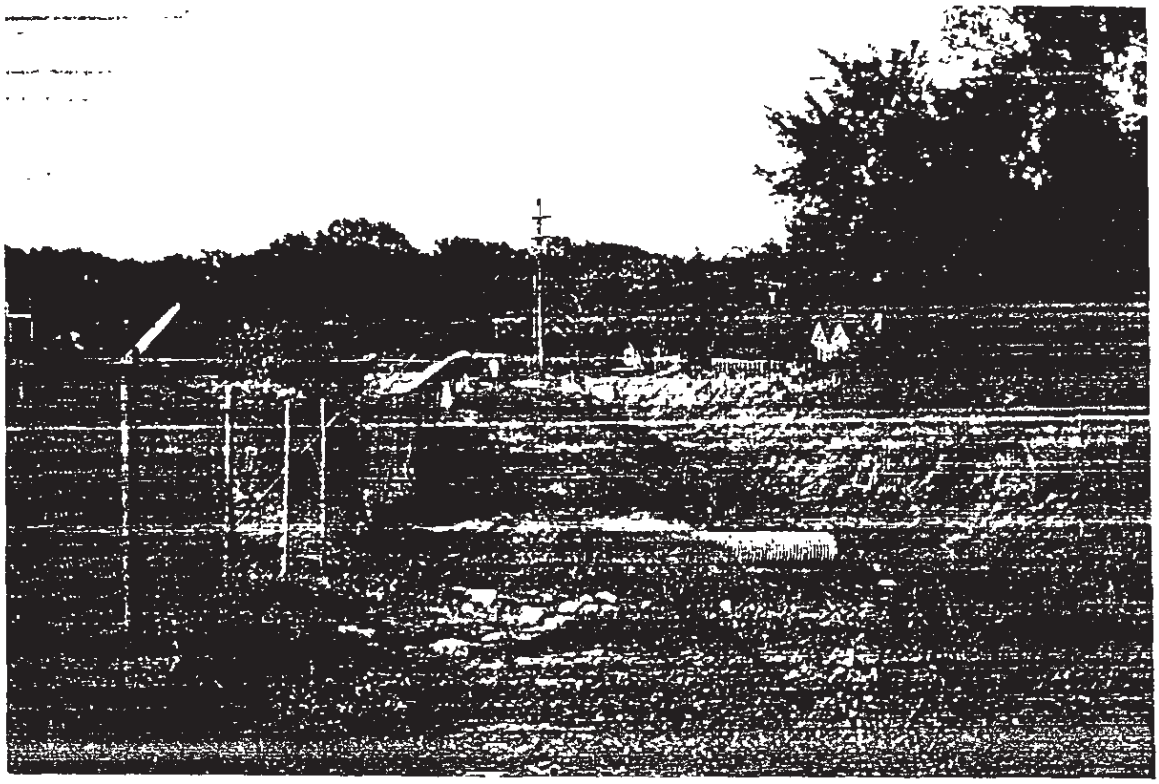
PHOTO NO. 10

PHOTOGRAPHER/WITNESS TOM MAYHALL/KYLE MOPPERT

DATE 10-9-91 TIME 1030 hrs DIRECTION E

DESCRIPTION SAMPLE NO S-4

PHOTO NO
11



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PHOTOGRAPHER: TOM MAYHALL
WITNESS: KYLE MOPPERT
DATE: 10-9-91
TIME: 1130 hrs
DIRECTION: NW
DESCRIPTION: NO S-7

PHOTO NO
12

PHOTO NO. 13

PHOTOGRAPHER/WITNESS JOHM HALK/TOM MAYHALL

DATE 10-9-91 TIME 1200 hrs DIRECTION N

DESCRIPTION SAMPLE NO SW-3

PHOTO NO. 14

PHOTOGRAPHER/WITNESS JOHN HALK/TOM MAYHALL

DATE 10-9-91 TIME 1230 hrs DIRECTION E

DESCRIPTION SAMPLE NO SW-4

PHOTO NO
15

PHOTOGRAPHER: JOHN HALK

WITNESS: TOM MAYHALL

DATE: 10-9-91

TIME: 1300 HRS

DIRECTION: E

DESCRIPTION: SAMPLE NO SW-5

PHOTOGRAPHER: JOHN HALK

WITNESS: TOM MAYHALL

DATE: 10- 9-91

TIME: 1300 HRS

DIRECTION: NW

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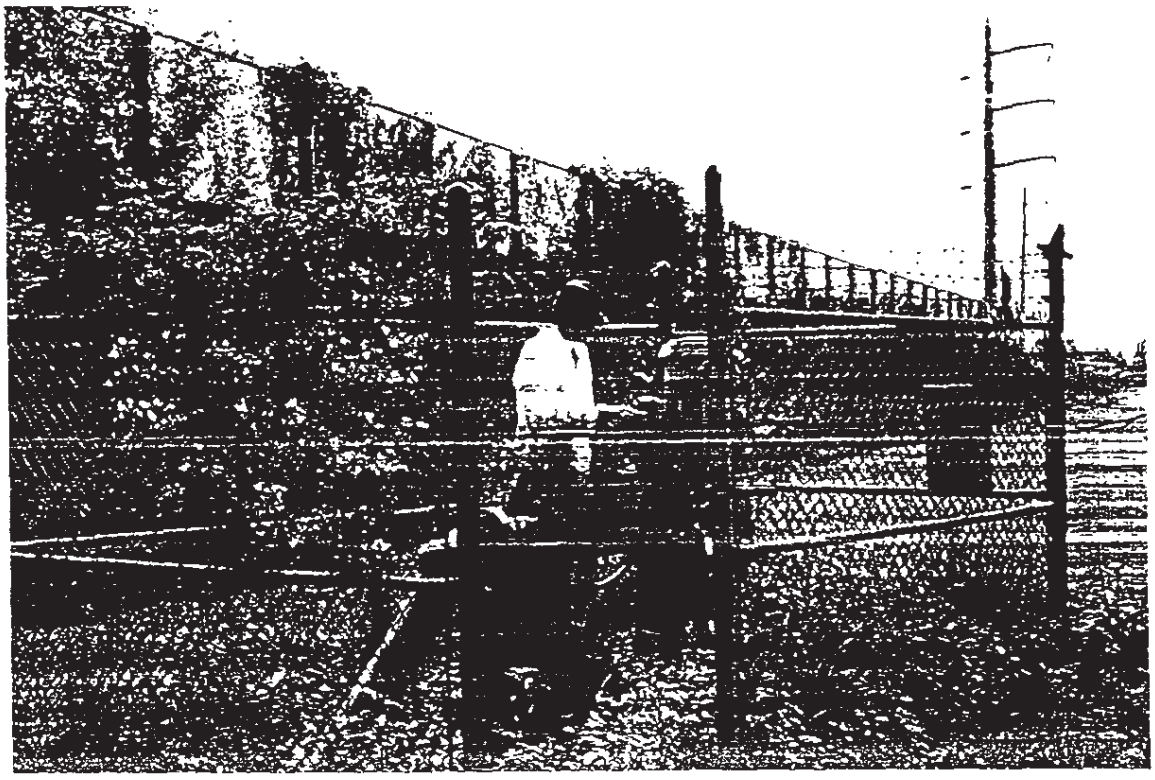
16

PHOTO NO
17



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PHOTOGRAPHER: JOHN HALK
WITNESS: TOM MAYHALL
DATE: 10-9-91
TIME: 1400 HRS
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PHOTO NO
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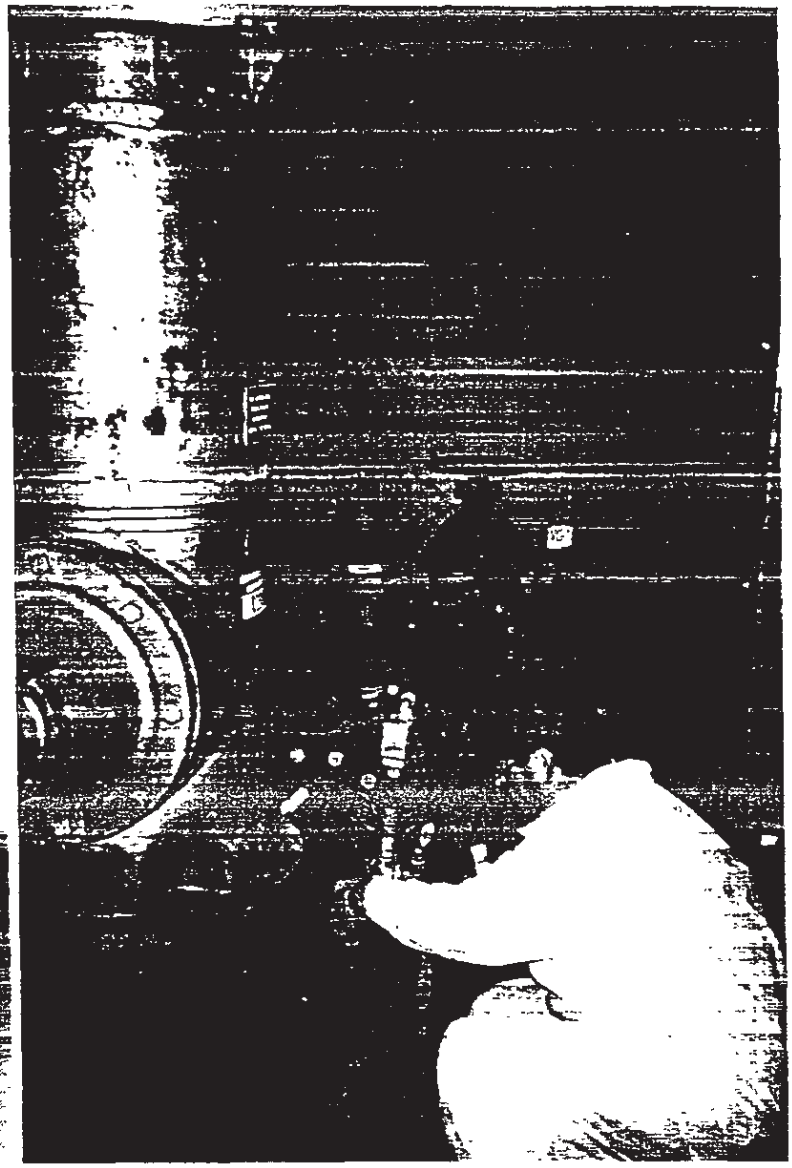
PHOTO NO
19



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WITNESS: KYLE MOPPERT

DATE: 10-10-91

TIME: 0930 HRS

DIRECTION: E

DESCRIPTION: SAMPLE NO GW-3

PHOTOGRAPHER: TOM MAYHALL

WITNESS: KYLE MOPPERT

DATE: 10-10-91

TIME: 1000 HRS

DIRECTION: N

DESCRIPTION: SAMPLE NO GW-4

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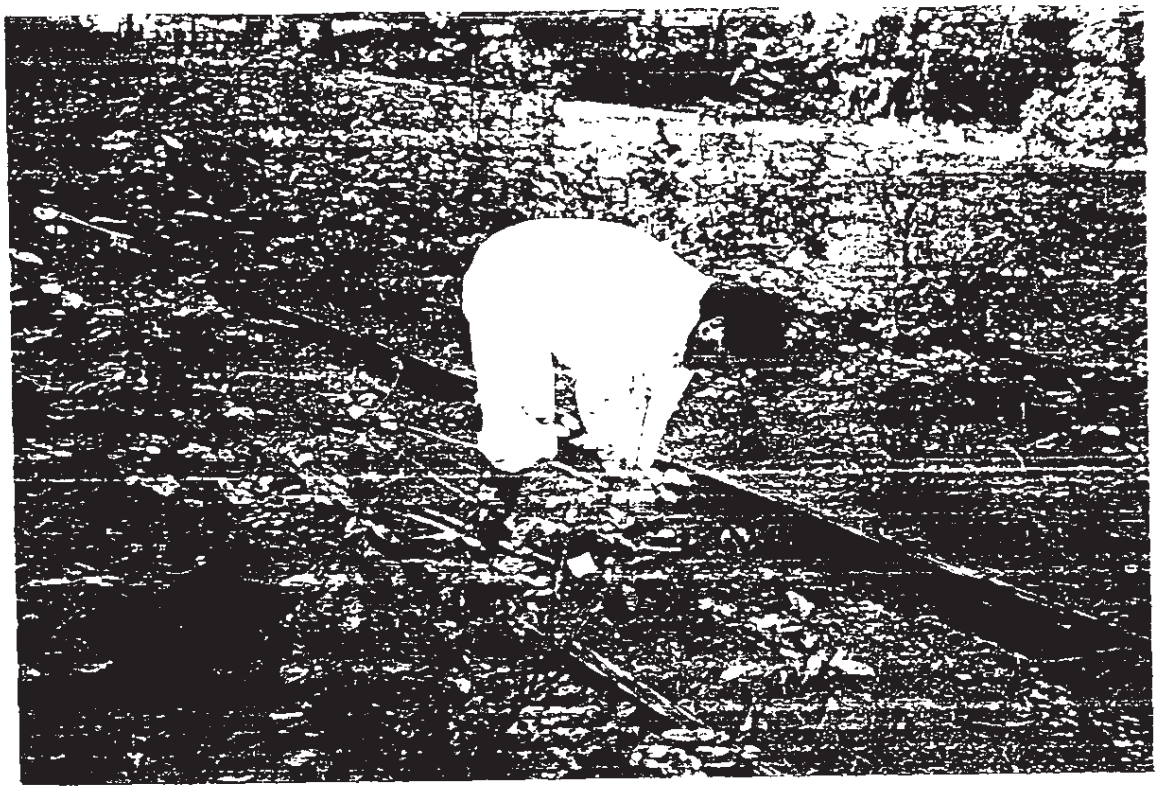
20

PHOTO NO.
21



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WITNESS: KYLE MOPPERT
DATE: 10-10-91
TIME: 1000 HRS
DIRECTION: NW
DESCRIPTION: SAMPLE NO GW-6

PHOTOGRAPHER: TOM MAYHALL
WITNESS: KYLE MOPPERT
DATE: 10-9-91
TIME: 1030 HRS
DIRECTION: SAMPLE NO GW-5
DESCRIPTION:

PHOTO NO
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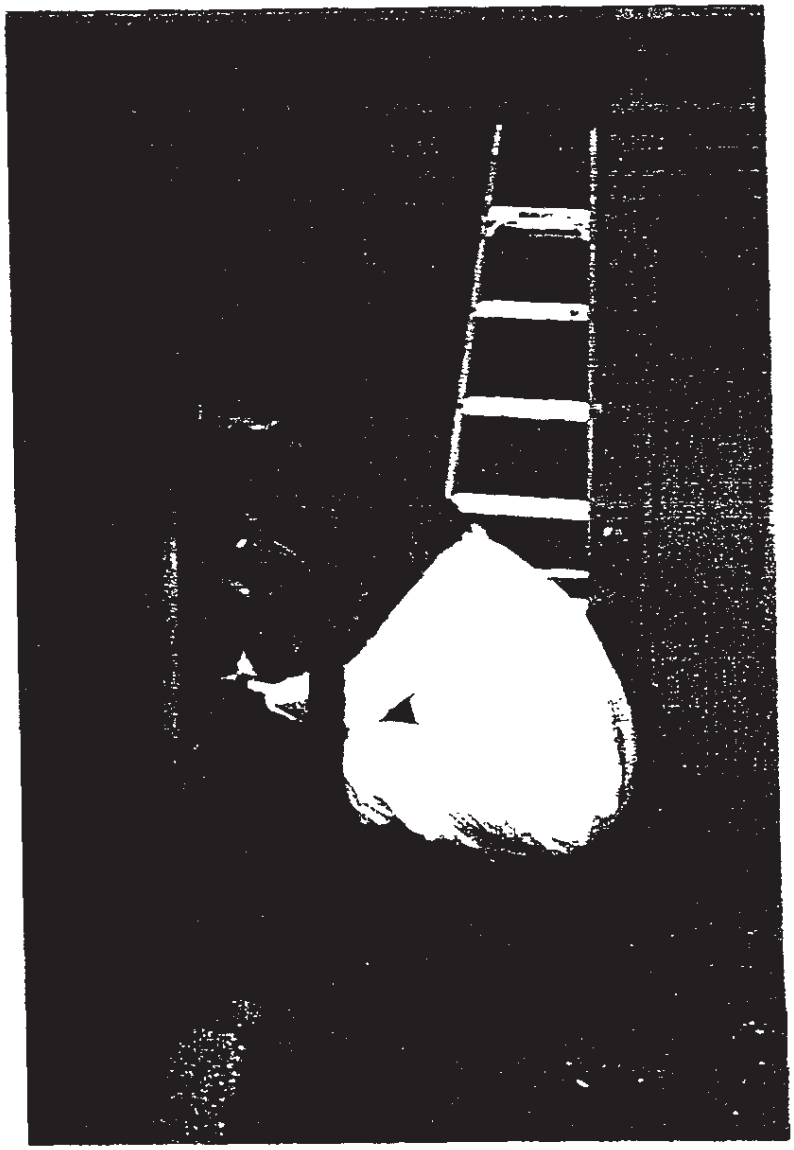

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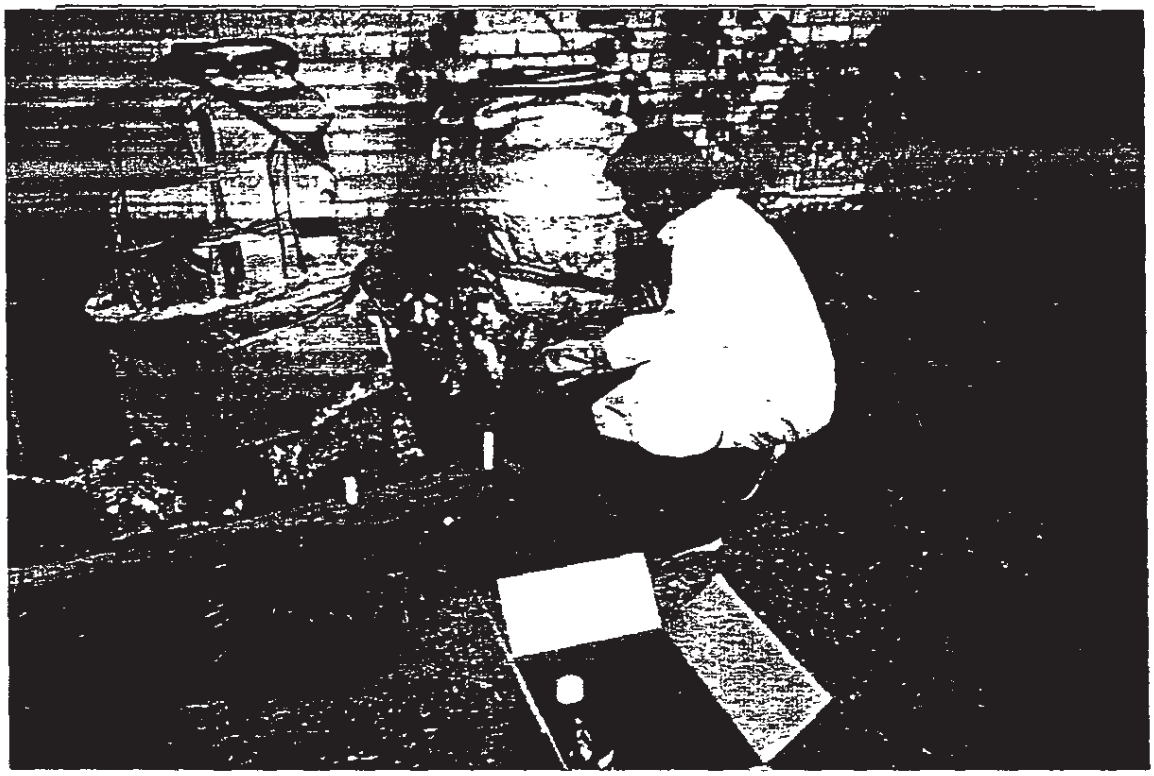

PHOTOGRAPHER/WITNESS TOM MAYHALL/KYLE MOPPERT

DATE 10-10-91 TIME 1400 HRS DIRECTION NE

DESCRIPTION SAMPLE NO. GW-7

APPENDIX B

Valley Park Site - Baton Rouge, Louisiana Sample Analyses Summary Table						Pesticides/PCB's Numbers FT210MS -FT226		
Lab Number	FT210MS	FT210MSD	FT214	FT215	FT215DL	FT221	FT225	FT226
Sample Num	S-1	S-1	S-5	S-6	S-6	SS-4	SS-8	SS-9
Matrix	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Aldrin	15	18		11.P	32.P			
alpha-Chlordane	13	13				4.3P		5.2P
Aroclor-1232						180		
Aroclor-1248				830	1700			
4,4'-DDD	26.P	13					6.5	4.6P
4,4'-DDE	26.P	12				6.9P	4.4	17.P
4,4'-DDT	39.P	40.P		12.P				
delta-BHC						5.2P		
Dieldrin	55	56						
Endrin	36.P	23.P						
gamma-BHC (Lindane)		14						
gamma-Chlordane	16	17.P	11.P			16.P		4.9P
Heptachlor	18	20						

Notes:
DL - Indicates sample or extract was reanalyzed at a high dilution factor.
MS - Indicates sample was a matrix spike.
MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Metals**

Sample Analyses Summary Table — **Numbers MFR601 - MFR616**

Lab Number	MFR601	MFR602	MFR603	MFR604	MFR605	MFR606	MFR607	MFR608	MFR609	MFR610	MFR611	MFR612	MFR613	MFR614	MFR615	MFR616
Sample Num	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-2	S-3	S-4	S-5	S-6	S-7
Matrix	Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG
Aluminum	347	229	628	970	141B	277	122B	71.3B	123B	7290	12800	16300	23600	24800	16300	10300
Antimony									33.8B							
Arsenic	4.8B	4.0B	1.6B	1.9B	2.8B	3.1B	3.3B	1.4B	1.6B	27.7	5.8	0.90B	2.7	7.5	4.8	8.2
Barium	73.1B	53.5B	162B	125B	139B	166B	154B	66.4B	101B	272	475	226	113	233	355	167
Beryllium										1.2B	1.1B	0.75B	0.59B	1.2B	5	0.82B
Cadmium											1.1B				8.3	
Calcium	34400	27600	38100	28700	28700	32300	31200	33800	33400	19900	2700	3270	2440	4610	13200	5830
Chromium		9.9B			13.5			15.1		22.5	20.5	20.8	26.3	44.8	16.4	22.5
Cobalt					11.0B			7.4B		18	73.3	8.0B	4.0B	13.6	94.8	13.4B
Copper	29.4	14.3B	5.9B	15.1B	13.4B	13.4B	18.5B			18.9	11.3	8.4	10.3	23	62.4	96.1
Iron	388	351	1080	977	4880	490	98.0B	1850	1130	27100	25800	14700	18300	28100	70800	35400
Lead	7.5	5.2	4.1	4.7	6.2	3.1	2.7B	3.7	1.1B	175	25.6	9	11.2	55.7	44.1	87.4
Magnesium	8990	6460	16300	10500	19400	7650	7320	15200	17700	1700	1990	2250	1990	3660	2550	1910
Manganese	117	125	86.8	39	97.8	198	184	90.6	141	1780	2550	720	125	592	16500	1430
Mercury														0.39	0.62	0.25
Nickel	23.1B				17.3B			17.3B	16.8B	15.1	29.7	13.3	12.5	24.6	137	22.4
Potassium	6000	7620	11200	7080	55600	5900	5900	33370	26900	448B	672B	1020B	737B	2440	1070B	548B
Selenium										0.39B						
Silver																
Sodium	93100	93500	88400	97200	102000	96200	94000	61400	56400	155B	147B	161B	192B	223B	207B	134B
Thallium																0.30B
Vanadium	5.2B		4.1B	4.1B		3.1B	3.2B		3.0B	52.4	58.8	28.2	44.9	63.6	219	40.8
Zinc	25.2	23.5	16.9B	28.2	59.5	18.2B	18.8B	9.2B	9.2B	125	34.3	40.9	32.5	325	315	170
Cyanide	11.2		16.1	21.2	120				12.6							

Notes:

DL - Indicates sample or extract was reanalyzed at a high dilution factor.

MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Metals**

Sample Analyses Summary Table — **Numbers MFR617 - MFR633**

Lab Number	MFR617	MFR618	MFR619	MFR620	MFR621	MFR622	MFR623	MFR624	MFR625	MFR626	MFR627	MFR628	MFR629	MFR630	MFR631	MFR632	MFR633
Sample Num	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units	UG/L	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	MG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Aluminum	84.3B	7820	11100	16800	14400	19200	18400	25000	17000	7070	88.0B	30.4B	131B	103B	43.4B	50.8B	117B
Antimony											34.9B	31.4B				35.8B	
Arsenic		1.4B	4.6	7.4	5.2	4.2	3.6	5.3	4.9	1.1B	27.9	34.8B					1.1B
Barium	1.8B	97.7	332	324	170	141	167	121	180	99.9	439	461	404	260	207	361	57.3B
Beryllium		0.53B	0.86B	1.1B	0.77B	1.3B	0.76B	0.93B	0.88B	0.35B							
Cadmium			1.3														
Calcium	55.6B	538B	4110	4820	3210	2260	2540	1780	2760	4910	101000	102000	80100	39500	30200	73800	3760B
Chromium		10.1	24	21.5	21.5	25.8	22.7	29.9	22.6	8.6							
Cobalt		4.3B	14.4	9.8B	7.3B	9.8B	7.5B	15	6.7B	3.8B							
Copper	10.9B	8	28.7	12.3	18.9	10	10.5	20.1	19.2	7.6	13.4B		12.6B	11.7B		5.0B	25.2
Iron	37.4B	7150	25700	18900	22000	31400	38500	27700	17400	7730	74.8B	1600	1230	115	134	43.1B	276
Lead	2.1B	28.5	81.2	17.1	16.9	10.9	7.3	14	56.1	21.5		1.1B	2.6B	1.2B	1.9B	2.5B	1.8B
Magnesium	26.3B	484B	2250	3270	1820	3200	2970	3420	1950	685B	29900	30200	27100	12800	9400	24000	1670B
Manganese		819	1640	1460	167	130	127	156	489	364	240	242	176	150	139	350	98.2
Mercury			0.33														
Nickel		9.6B	20.4	19	16.9	19.8	19.4	21.7	16.8	4.3B							
Potassium		297B	949B	1250	1160B	1520B	1590	1960	1200B	352B	2460B	2300B	1510B	1620B	1600B	1670B	1350B
Selenium		0.47B						0.36B	0.32B								
Silver			0.79B														
Sodium	292B	47.1B	73.7B	181B	171B	174B	177B	172B	81.1B	41.6B	23100	23500	65300	104000	78100	62200	50200
Thallium				0.26B	0.27B	0.39B			0.31B								
Vanadium	4.2B	18.2	30.1	33.3	33.9	38.4	37.3	50.2	37.2	15.3	3.2B	4.0B			4.2B	4.2B	
Zinc	9.4B	28	173	63.9	123	65	61.9	91.2	115	47.4	10.2B	6.7B	10.3B	113	43.6	7.9B	61.5
Cyanide																	

Notes:

DL - Indicates sample or extract was reanalyzed at a high dilution factor.

MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
VOLATILES																				
Acetone									4.BJ		21				8.J	6.J	11.J	33	21	
2-Butanone																		7.J		
Chlorobenzene									9.J											
Disulfide, Dimethyl																				
SEMI-VOLATILES																				
Acenaphthene											660	680.DJ	1600	1500				120.J		12000.D
Acenaphthylene											170.J	170.DJ		41.J				320.J	8000	640.DJ
Anthracene											960	920.DJ	230.J					320.J		
Benzo(a)anthene																				
Benzo(a)anthracene											5700	2900.D		270.J				3400	49000	31000.D
Benzo(a)pyrene											4300	2800.D	390.J	130.J				1600	18000	27000.D
Benzo(b)fluoranthene											6200	3300.D	860	340.J				2400	14000	36000.D
Benzo(k)fluoranthene											2000	2700.D	550					1700	44000	20000.D
Benzo(g,h,i)perylene											2000	1800.DJ	240.J	78.J				950	13000	
bis(2-ethylhexyl)phthalate		1.J	3.J	2.J		1.J	8.J			3.J	560.B	380.DBJ	380.BJ	350.BJ		65.BJ	46.BJ	5200.B		
Butylbenzylphthalate											220.J		85.J		53.J	130.J				
Carbozole											2200	2800.DB	290.BJ					96.BJ	15000.B	39000.DB
Chrysene																				
2-Chlorophenol													2100							
4-Chloro-3-methylphenol													2500	2800						
Chrysene											3100	2400.D		280.J				2700	27000	28000.D
Diethylphthalate							1.J									24.J		8200		
Dimethylphthalate																		120.J		
Di-n-butylphthalate		3.BJ	2.BJ	2.BJ	2.BJ	2.BJ	3.BJ	3.BJ	2.BJ	1.BJ	160.BJ	250.DBJ	58.BJ		96.BJ	59.BJ	53.BJ			1900.DBJ
Dibenzofuran											480	500.DJ		16.J				170.J	8900	10000.DJ
Dibenz(a,h)anthracene											1200	690.DJ	150.J						3700	8500.DJ
Di-n-Octylphthalate																	32.J			
1,3- Dichlorobenzene																				
1,4-Dichlorobenzene									4.J					1200						
2,4-Dinitrotoluene													1400	1500						
2,6-Dnitrotoluene																				

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MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Fluoranthene											11000	7000.D	1800					7300	58000	
Fluorene											570	700.DJ	110.J	24.J				170.J	17000	20000.D
Indeno(1,2,3-cd)pyrene											2400	1600. DJ	240.J	75.J				930	14000	14000.D
2-Methylnaphthalene									1.J		150.J	150.DJ						120.J	5000	6500.DJ
4-Methylphenol																			320.J	
Methylnaphthalene											280J.	270.DJ		21.J				62.J	9600	13000.D
Naphthalene													1600	1600						
N-Nitroso-di-n-propylamine									1.J									430.J		
N-Nitrosodiph-enylamine (1)													960.J	2300						
4-Nitrophenol													1800	2200						
Pentachlorophenol											10000	8200.D	1300					4300	79000	
Phenanthrene													2100	2100						
Phenol											12000	6900.D	3700	2800				9900	84000	
Pyrene													1400	1400						
1,2,4-Trichlorobenzene																				
Unknown Chlorinated	5.2					10.J														
Unknown	5.7					14.J														
Unknown	5.8	4.BJ	11.BJ		4.J			4.BJ				700.DBJ			540 BJ					
Unknown	5.9				2.BJ				5.BJ										820 J	
Unknown	6 0										860.BJ					800.BJ	900.BJ			
Unknown C10H18 MW=138	6.0				3.J			4.J												
Unknown	6.1											2000.DBJ			980 BJ			1320.J	480.BJ	
Unknown C10H18 MW=152	6.1								3.BJ											
Unknown	6 2																480.BJ			
Unknown	6.3										1300.BJ					1240.BJ		840.J		
Unknown	6.4										460.J					400 J				
2-Propanol, 1-(2-Methoxy-1-M)	6.7	7 NJ																		
2-Propanol, 1-(2-Methoxy-1-M)	6.8		7.NJ																	
Unknown	7.1															240.J	128.J			
Unknown C10H18 MW=138	7.1																			
Unknown	7.2	3.J	2.J																	
Unknown	7 5	2 J																		
Unknown	7.6		6.J		5.J															
Unknown	7.9										2400.J					1400.BJ	1940.BJ			

Notes:

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MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Unknown C10H16O MW=152	8.6								8.J	6.J										
Unknown	8.9					13.J														
Unknown	9.2					12.J														
Unknown Aromatic MW=142	9.3								7.J											
Unknown	9.4									5.J										
Unknown Aromatic MW=130	9.6																		1440.J	
Unknown	10.2					2.J														
Unknown	10.4								4.J	4.J										
Unknown Aromatic	10.4		3.J																	
Unknown Aromatic MW=135	10.7																	2400.J		
Unknown	10.9											600.DJ								
Unknown	11.1									3.J	300.J									
Unknown	11.2								4.J											
Phenol, (1,1-Dimethylethyl)	11.5								18.J	17.J										
Naphthalene,1-Methyl-	11.9										92.NJ									
Unknown Aromatic MW=142	11.9								5.J											
Unknown	12.0					4.J														
Naphthalene, 1-Methyl	12.0																			2600.DJ
Naphthalene, 1-Methyl	12.1																		5200.J	
Unknown	12.3	4.J																		
Unknown	12.4		6.J																	
Unknown Halogenated	12.7		5.J																	
1,1'-Biphenyl	13.2																		2200.NJ	
Unknown	13.2					5.J														
Naphthalene, Dimethyl-	13.8																		2800.J	
Unknown C10H18 MW=138	13.9																			
Unknown	13.9		6.J	3.J																
Unknown Hydrocarbon	13.9	3.J						3.J												
Unknown Hydrocarbon	14.0				3.J															
Unknown Hydrocarbon	14.1									2.J										
Unknown Hydrocarbon	14.2														110.J					
Unknown	14.8					3.J														
Unknown Aromatic	14.9	2.J	3.J																	
Unknown	15.6																			

Notes:

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MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Unknown	15.6	7.BJ																		
Unknown	15.7								3.BJ											
Phenol, Tetrame-Methylbutyl	15.8		6.J																	
Unknown	15.8									3.BJ										4000.DJ
Dibenzofuran, 4-Methyl-	16.5			3.J																
Unknown Aromatic	16.5					9.J			10.J	11.J										
Unknown Aromatic	16.7								13.J											
Unknown Aromatic	17.4									19.J										6800.DJ
Unknown Aromatic	17.5																			
Dibenzothiophene	18.1																			
Caffeine	18.8	4.NJ	37.NJ			4.J														
Unknown Aromatic	18.9																			
Unknown Hydrocarbon	18.9		12.J																	
Hexadecanoic Acid	19.8		24.NJ												114.J					
Unknown Adipate	19.0								5.J	4.J										
Unknown Aromatic	19.0																			
Unknown Hydrocarbon	19.0											720.DJ								8600.DJ
Unknown P.A.H. MW=192	19.7											760.DJ								
Unknown P.A.H. MW=192	19.7																			7200.DJ
Unknown P.A.H. MW=192	19.8																			
Hexadecanoic Acid	19.8		24.NJ														340.J			
Unknown	19.9											1020.DJ								14000.DJ
Unknown P.A.H.	20.0																260.NJ			
Hexadecanoic Acid	20.1																		7200.J	
Unknown P.A.H. MW=192	20.1																		7200.J	
Unknown P.A.H. MW=192	20.2										1420.J									
Unknown P.A.H.	20.2																		7200.J	
Unknown Aromatic	20.3																	4200.NJ		
Hexadecanoic Acid	20.5											1040.DNJ								
Naphthalene, 2-Phenyl-	20.5										680.NJ									
Naphthalene, 2-Phenyl-	20.7																		3800.NJ	
Naphthalene, 2-Phenyl-	20.8																			
Unknown	20.8		20.J																3400.J	
Unknown Aromatic	21.2																			

Notes:

DL - Indicates sample or extract was reanalyzed at a high dilution factor.

MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Unknown	21.4		17.J																	
Unknown	21.8											1760.DJ								
Unknown	22.2										4800.J									
Unknown Aromatic	22.2								10.J											
Unknown Aromatic	22.3									11.J								13000.J		
Unknown	22.4																			
Unknown Aromatics	22.5																	6400.NJ		
Octadecanoic Acid	22.6																	4400.J		
Unknown Hydrocarbon	22.8					3900.J						480.DJ								9600.DJ
Unknown Organics	22.8																			5600.DJ
Unknown P.A.H. MW=216	23.0										620.J								5000 J	
Unknown P.A.H. MW=216	23.1																			
Unknown P.A.H. MW=216	23.2										520.J						186.J			
Unknown P.A.H. MW=216	23.3																		6200 J	
Unknown P.A.H. MW=216	23.5																		3200.J	
Unknown P.A.H. MW=216	23.6																			
Unknown Hydrocarbon	23.7								3000.J	240.J										
Unknown P.A.H. MW=216	23.7					2.J														
Unknown P.A.H.	23.8																			
Unknown Organics	23.9																			
Unknown	24.0																			
Unknown Aromatics	24.0																			
Unknown	24.2	7.J	18.J	9.J																
Unknown Aromatics	24.2					2.J														
Unknown	24.3					5.J.														
Unknown	24.4								2.J	5.J								36000.J		
Unknown Adipate	24.6										420.J									
Unknown P.A.H. MW=230	24.7																			
Unknown	25.0			3.J							420.J.									3000.DJ
Unknown P.A.H. MW=230	25.0																	2800.J		
Unknown P A H MW=217	26.0																			4400.DJ
Unknown Alkane	26.2																			5800.DJ
Unknown P.A.H. MW=242	26.4																			
Unknown	26.8																			

Notes:

DL - Indicates sample or extract was reanalyzed at a high dilution factor.

MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT201 - FT215DL**

Lab Number	Retention	FT201	FT202	FT203	FT204	FT205	FT206	FT207	FT208	FT209	FT210	FT210DL	FT210MS	FT210MSD	FT211	FT212	FT213	FT214	FT215	FT215DL
Sample Num	Time	SW-1	SW-2	SW-3	SW-4	SW-5	SW-6	SW-7	SW-8	SW-9	S-1	S-1	S-1	S-1	S-2	S-3	S-4	S-5	S-6	S-6
Matrix		Water	Water	Water	Water	Water	Water	Water	Water	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil
Conc. Units		UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG
Unknown Alkane	26.9														1200.J					
Unknown Alkane	27.0																	2800.J		
Unknown UnresolvedHydrocarbon	27.4														34000.J					
Unknown Alkane	27.9																	1740.J		
Unknown P.A.H. MW=252	28.6																			3400.DJ
Unknown Alkane	29.0																	1320.J		
Unknown P.A.H. MW=252	29.1																		1140.J	
Unknown	29.2																102 J			
Unknown P.A H. MW=252	29.2											1160.DJ								13000.DJ
Unknown	29.3																94.J			
Unknown P.A.H. MW=252	29.7																		3400 J	
Unknown P.A.H. MW=252	29.8										320.J								1480.J	
Unknown P.A.H. MW=252	30.2																			2800.DJ
Unknown P.A.H. MW=266	30.2																	1060.J.		
Unknown Alkane	30.2																			
Unknown	30.7							2.J												
Unknown Alkane	30.7														920.J					
Unknown	30.9				3.J															
Unknown Alkane	31.4											960.DJ								
Unknown Natural Product	31.5		10.J																	
Unknown	32.1																	560.J		
Unknown NaturalProduct	32.2		15.J								108.J									
Unknown	32.2	2.J																		
Unknown Alkane	33.3																	660.J		
Unknown Natural Product	34.8		4 J																	
Unknown P.A.H MW=278	34.1																		400.J	
Unknown	35.0														152.J					
Unknown	35.4																840 J			
Unknown Alkane	35.4														820.J					
Unknown Alkane	35.5																	560.J		
Unknown Natural Product	35.6																	540.J		
Unknown P.A.H. MW=278	35.6																		700.J	

Notes:

DL - Indicates sample or extract was reanalyzed at a high dilution factor.

MS - Indicates sample was a matrix spike.

MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT216 - FT233**

Lab Number	Retention	FT 216	FT 217	FT 218	FT 219	FT 220	FT 221	FT 222	FT 223	FT 224	FT 225	FT 226	FT 227	FT 228	FT 229	FT 230	FT 231	FT 232	FT 233
Sample Num	Time	S-7	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix		Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units		UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
VOLATILES																			
Acetone		11		5. J		5. J		19		30	4. J								
2-Butanone																			
Chlorobenzene		18. J																	
Disulfide, Dimethyl		18. J																	
SEMI-VOLATILES																			
Acenaphthene																			
Acenaphthylene																			
Anthracene					38. J														
Benzo(a)anthene																			
Benzo(a) anthracene		34. J			130. J	35. J	300. J				67. J	80. J							
Benzo(a)pyrene					83. J	29. J	140. J				56. J	63. J							
Benzo(b) fluoranthene		38. J			140. J	50. J	300. J				160. J	150. J							
Benzo(k) fluoranthene		41. J			160. J	50. J	190. J												
Benzo(g,h,i) perylene							220. J												
bis(2-ethylhexyl)-phthalate		190. BJ		31. BJ	130. BJ	52. BJ		220. BJ	160. BJ	300. BJ		63 BJ							
Butylbenzylphthalate		44. J						43. J	59. J										
Carbazole					53. BJ						24. BJ	20. BJ							
Chrysene		35. J			130. J	45. J	290. J				82. J	78. J							
Di-n-butylphthalate		54. BJ	3. BJ	52. BJ	96. BJ	60. BJ	48. BJ	86. BJ	83. BJ		54. BJ	67. BJ	2 BJ	2. BJ	1. BJ	1. BJ	1. BJ	2. BJ	2. BJ
Di-n-Octylphthalate					27. J	32. J	65. J	68. J	68. J		290. J	57. J							
Dibenzofuran							25. J												
1,4-Dichlorobenzene							79. J												
Diethylphthalate					29. J	23 J		57. J	53. J	32. J	26. J	27. J							
Fluoranthene		61. J			270. J	77. J	390. J				170. J	160. J							
Fluorene					27. J														
Indeno(1,2,3-cd)pyrene							170. J				31. J								
2-Methylnaphthalene							44. J												
Naphthalene							43. J												
Phenanthrene		40 J		22. J	210. J	47. J	290. J				91. J	80. J							
Pyrene		62. J			200. J	64. J					150. J	140. J							
Unknown	5.8								920.BJ			1360.J							14 BJ

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Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT216 - FT233**

Lab Number	Retention	FT 216	FT 217	FT 218	FT 219	FT 220	FT 221	FT 222	FT 223	FT 224	FT 225	FT 226	FT 227	FT 228	FT 229	FT 230	FT 231	FT 232	FT 233
Sample Num	Time	S-7	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix		Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units		UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Unknown	5.9		27. BJ					720. BJ					7. BJ		11. BJ	21. BJ	13. BJ	8. J	
Unknown	6.0	620. BJ		900. BJ		1360. BJ				198. BJ	1160. BJ								
Unknown	6.1							700. BJ	660. BJ										
Unknown C10H18 MW=138	6.1		3. BJ												4. BJ	4. BJ	3. BJ		
Unknown	6.2	640. BJ		500. BJ		520. BJ				200. BJ	400. BJ								
Unknown	6.3						1660. J												
Unknown	6.4	220. J								110. J	200. J								
2-PROPANOL, 1-(2-METHOXY-1-M-	6.7																		
2-PROPANOL, 1-(2-METHOXY-1	6.8																		
Unknown	7.1							2400. J	1140. J										
Unknown C10H18 MW=138	7.1														3. J	3. J			
Unknown	7.2	300. J								980. J	420. J								
Unknown	7.5																		
Unknown	7.6																		
Unknown	7.8				2800. J		2400. J	3400. BJ	2800. BJ			2400. BJ							
Unknown	7.9	1800. BJ				2600. BJ				1340. BJ	3000. BJ								
Unknown	9.7						420.J												
Unknown	9.8										140. J								
Unknown Aromatic	10.4																		
Unknown Aromatic MW=135	10.7						780. J												
Unknown	11.1	156 J																	
Unknown	12.3																		
Unknown	12.4		2. J																
Unknown	12.6						196. J	154. J	194. J										
Unknown Hydrocarbon	13.9																		2 J
Unknown MW=220	14.1		3. BJ																
Unknown Hydrocarbon	14.1								192. BJ										
Unknown Hydrocarbon	14.2				240. BJ			200. J				148. BJ							
Unknown	14.3									114. J									
Unknown Hydrocarbon	14.3			90. BJ															
Unknown MW=220	14.6		6. J																
Unknown Aromatic	14.9																		
Unknown	15.6																		8 BJ
Unknown Aromatic	15.6						320. J												

Notes:

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MSD - Indicates sample was a matrix spike duplicate.

Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT216 - FT233**

Lab Number	Retention	FT 216	FT 217	FT 218	FT 219	FT 220	FT 221	FT 222	FT 223	FT 224	FT 225	FT 226	FT 227	FT 228	FT 229	FT 230	FT 231	FT 232	FT 233
Sample Num	Time	S-7	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix		Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units		UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Unknown	15.7		10. BJ										3. BJ		2. BJ	3. BJ	2 BJ	3. J	
Phenol, Tetrame- Methylbutyl	15.8																		
Unknown Alkane Coeluting W/U	15.9						320. J												
Unknown Hydrocarbon	16 8							178. J	220. J										
Unknown Alkane	17.1							380. J	620. J										
Unknown Alkane	17.2									136. J									
Tetradecanoic Acid	17 8							640. NJ	540. NJ										
Tetradecanoic Acid	17.9									420. NJ									
Unknown MW=234	17.9		2. J																
Pentadecanoic Acid Coeluting	18.5				240. J														
Pentadecanoic Acid	18.6					220. NJ													
Unknown	18.7							260. J	340. J										
Caffeine	18.8																		
Unknown	18 8									122. J									
Unknown Hydrocarbon	18.9																		
Hexadecanoic Acid	19.8																		
Unknown	19.9	300. J							3200. J		158. J								
Unknown Hydrocarbon	19.9							4000. J											
Hexadecanoic Acid	20 0											280. NJ							
Unknown	20.0					174. J													
Unknown	20.0			240. J		400. J													
Hexadecanoic Acid	20.1	380. NJ		440. NJ	540. NJ					.	520. NJ								
Hexadecanoic Acid	20.2					780. NJ				1620. NJ									
Unknown Hydrocarbon	20 6					146. J					240. J								
Unknown	20 8																		
Unknown	21.1					94. J													
Unknown	21 4																		
Unknown	21.7							360. J	360. J										
Unknown	21.8									420. J									
Unknown	22.0	400. J		280. J				2200. J	2000. J										
Unknown Hydrocarbon	22.0					340. J					240 J								
Octadecanoic Acid	22.1				300. NJ														
Unknown	22 1									2400. J									
Octadecanoic Acid	22.2			96. NJ							200. NJ								

Notes:

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Valley Park Site - Baton Rouge, Louisiana **Volatiles & Semi-volatiles**

Sample Analyses Summary Table **Numbers FT216 - FT233**

Lab Number	Retention	FT 216	FT 217	FT 218	FT 219	FT 220	FT 221	FT 222	FT 223	FT 224	FT 225	FT 226	FT 227	FT 228	FT 229	FT 230	FT 231	FT 232	FT 233
Sample Num	Time	S-7	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix		Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units		UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Unknown	22.4						940. J												
Unknown	23.6							148. J											
Unknown Aromatic	23.7						1520. J												
Unknown	23.7									260. J									
Unknown	23.7									420. J									
Unknown	24.2																		
Unknown	24.3							1700. J											
Unknown Alkane	24.3				188. J														
Unknown	24.6				186. J							170. J							
Unknown	24.7					88. J					142. J								
Unknown Alkane	25.1								114. J										
Unknown Alkane	25.2											260. J							
Unknown	25.3	540. J				220. J													
Unknown Alkane	25.3			440. J			1080. J			340. J	200. J								
Unknown Alkane	26.1								520. J		82. J								
Unknown	26.4	136. J																	
Unknown Alkane	26.5							380. J											
Unknown Phthalate	26.7										134. J								
Unknown Alkane	26.8								140. J			320. J							
Unknown Alkane	26.9			340. J	620. J						240. J								
Unknown Alkane	27.0					220. J	1040. J												
Unknown	27.1	174. J																	
Unknown Alkane	27.2									380. J									
Unknown	27.5				600. J														
Unknown Alkane	27.8				240. J														
Unknown Alkane	28.6										540. J								
Unknown Alkane	28.8				1620. J							150. J							
Unknown Alkane	28.9										340. J								
Unknown Alkane	29.0					520. J													
Unknown Alkane	29.9								920. J										
Unknown Alkane	31.4											300. J							
Unknown Alkane	31.5				1940. J														
Unknown Natural Product	31.5																		
Unknown	31.6	146. J		196. J		760. J				146. J									

Notes:

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MS - Indicates sample was a matrix spike.

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Valley Park Site - Baton Rouge, Louisiana — **Volatiles & Semi-volatiles**

Sample Analyses Summary Table — **Numbers FT216 - FT233**

Lab Number	Retention	FT 216	FT 217	FT 218	FT 219	FT 220	FT 221	FT 222	FT 223	FT 224	FT 225	FT 226	FT 227	FT 228	FT 229	FT 230	FT 231	FT 232	FT 233
Sample Num	Time	S-7	SW-10	SS-1	SS-2	SS-3	SS-4	SS-5	SS-6	SS-7	SS-8	SS-9	GW-1	GW-2	GW-3	GW-4	GW-6	GW-5	GW-7
Matrix		Soil	Water	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Soil	Water	Water	Water	Water	Water	Water	Water
Conc. Units		UG/KG	UG/L	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/KG	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L	UG/L
Unknown Hydrocarbon	31.6				740. J														
Unknown Alkane	31.7						440. J												
Unknown PAH	32.1	136. J																	
Unknown	32.2																		
Unknown Natural Product	32.2																		
Unknown	32.6								240. J			280. J							
Unknown Natural Product	32.9	160. J				300. J													
Unknown	33.5	98. J																	
Unknown Alkane	34.6								1200. J										
Unknown Natural Product	34.7				1900. J							380. J							
Unknown Natural Product	34.8																		
Unknown Natural Product	34.9			240. J															
Unknown Natural Product	35.0					540. J													
Unknown	35.1							1000. J	1180. J										
Unknown Alkane	35.2				2000. J							480. J							
Unknown Alkane	35.4	1760. J		340. J															
Unknown	35.4											400. J							
Unknown	35.5									1140. J									
Unknown	35.6			150. J															
Unknown Natural Product	35.8				2000. J														

Notes:

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INORGANIC TARGET ANALYTE LIST (TAL)

Analyte	Contract Required Detection Limit (1,2) (ug/L)
Aluminum	200
Antimony	60
Arsenic	10
Barium	200
Beryllium	5
Cadmium	5
Calcium	5000
Chromium	10
Cobalt	50
Copper	25
Iron	100
Lead	3
Magnesium	5000
Manganese	15
Mercury	0.2
Nickel	40
Potassium	5000
Selenium	5
Silver	10
Sodium	5000
Thallium	10
Vanadium	50
Zinc	20
Cyanide	10

(1) Subject to the restrictions specified in the first page of Part C, Section IV of Exhibit D (Alternate Methods - Catastrophic Failure) any analytical method specified in SOW Exhibit D may be utilized as long as the documented instrument or method detection limits meet the Contract Required Detection Limit (CRDL) requirements. Higher detection limits may only be used in the following circumstance:

If the sample concentration exceeds five times the detection limit of the instrument or method in use, the value may be reported even though the instrument or method detection limit may not equal the Contract Required Detection Limit. This is illustrated in the example below:

For lead:

Method in use = ICP
Instrument Detection Limit (IDL) = 40
Sample concentration = 220
Contract Required Detection Limit (CRDL) = 3

TARGET COMPOUND LIST (TCL) AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQL)

Volatiles	CAS Number	Quantitation Limits* Water ug/L	Low Soil ug/Kg	Med. Soil ug/Kg	On Column (ng)
1. Chloromethane	74-87-3	10	10	1200	(50)
2. Bromomethane	74-83-9	10	10	1200	(50)
3. Vinyl Chloride	75-01-4	10	10	1200	(50)
4. Chloroethane	75-00-3	10	10	1200	(50)
5. Methylene Chloride	75-09-2	10	10	1200	(50)
6. Acetone	67-64-1	10	10	1200	(50)
7. Carbon Disulfide	75-15-0	10	10	1200	(50)
8. 1,1-Dichloroethene	75-35-4	10	10	1200	(50)
9. 1,1-Dichloroethane	75-34-3	10	10	1200	(50)
10. 1,2-Dichloroethene (total)	540-59-0	10	10	1200	(50)
11. Chloroform	67-66-3	10	10	1200	(50)
12. 1,2-Dichloroethane	107-06-2	10	10	1200	(50)
13. 2-Butanone	78-93-3	10	10	1200	(50)
14. 1,1,1-Trichloroethane	71-55-6	10	10	1200	(50)
15. Carbon Tetrachloride	56-23-5	10	10	1200	(50)
16. Bromodichloromethane	75-27-4	10	10	1200	(50)
17. 1,2-Dichloropropane	78-87-5	10	10	1200	(50)
18. cis-1,3-Dichloropropene	10061-01-5	10	10	1200	(50)
19. Trichloroethene	79-01-6	10	10	1200	(50)
20. Dibromochloromethane	124-48-1	10	10	1200	(50)
21. 1,1,2-Trichloroethane	79-00-5	10	10	1200	(50)
22. Benzene	71-43-2	10	10	1200	(50)
23. trans-1,3-Dichloropropene	10061-02-6	10	10	1200	(50)
24. Bromoform	75-25-2	10	10	1200	(50)
25. 4-Methyl-2-pentanone	108-10-1	10	10	1200	(50)
26. 2-Hexanone	591-78-6	10	10	1200	(50)
27. Tetrachloroethene	127-18-4	10	10	1200	(50)
28. Toluene	108-88-3	10	10	1200	(50)
29. 1,1,2,2-Tetrachloroethane	79-34-5	10	10	1200	(50)
30. Chlorobenzene	108-90-7	10	10	1200	(50)
31. Ethyl Benzene	100-41-4	10	10	1200	(50)
32. Styrene	100-42-5	10	10	1200	(50)
33. Xylenes (Total)	1330-20-7	10	10	1200	(50)

* Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

TARGET COMPOUND LIST (TCL) AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQL)

Semivolatiles	CAS Number	Quantitation Limits* Water ug/L	Low Soil ug/Kg	Med. Soil ug/Kg	On Column (ng)
34. Phenol	108-95-2	10	330	10000	(20)
35. bis(2-Chloroethyl) ether	111-44-4	10	330	10000	(20)
36. 2-Chlorophenol	95-57-8	10	330	10000	(20)
37. 1,3-Dichlorobenzene	541-73-1	10	330	10000	(20)
38. 1,4-Dichlorobenzene	106-46-7	10	330	10000	(20)
39. 1,2-Dichlorobenzene	95-50-1	10	330	10000	(20)
40. 2-Methylphenol	95-48-7	10	330	10000	(20)
41. 2,2'-oxybis (1-Chloropropane)#	108-60-1	10	330	10000	(20)
42. 4-Methylphenol	106-44-5	10	330	10000	(20)
43. N-Nitroso-di-n-propylamine	621-64-7	10	330	10000	(20)
44. Hexachloroethane	67-72-1	10	330	10000	(20)
45. Nitrobenzene	98-95-3	10	330	10000	(20)
46. Isophorone	78-59-1	10	330	10000	(20)
47. 2-Nitrophenol	88-75-5	10	330	10000	(20)
48. 2,4-Dimethylphenol	105-67-9	10	330	10000	(20)
49. bis(2-Chloroethoxy) methane	111-91-1	10	330	10000	(20)
50 2,4-Dichlorophenol	120-83-2	10	330	10000	(20)
51. 1,2,4-Trichlorobenzene	120-82-1	10	330	10000	(20)
52. Naphthalene	91-20-3	10	330	10000	(20)
53. 4-Chloroaniline	106-47-8	10	330	10000	(20)
54. Hexachlorobutadiene	87-68-3	10	330	10000	(20)
55. 4-Chloro-3-methylphenol	59-50-7	10	330	10000	(20)
56. 2-Methylnaphthalene	91-57-6	10	330	10000	(20)
57. Hexachlorocyclopentadiene	77-47-4	10	330	10000	(20)
58. 2,4,6-Trichlorophenol	88-06-2	10	330	10000	(20)
59. 2,4,5-Trichlorophenol	95-95-4	25	800	25000	(50)
60. 2-Chloronaphthalene	91-58-7	10	330	10000	(20)
61. 2-Nitroaniline	88-74-4	25	800	25000	(50)
62. Dimethylphthalate	131-11-3	10	330	10000	(20)
63. Acenaphthylene	208-96-8	10	330	10000	(20)
64. 2,6-Dinitrotoluene	606-20-2	10	330	10000	(20)
65. 3-Nitroaniline	99-09-2	25	800	25000	(50)
66. Acenaphthene	83-32-9	10	330	10000	(20)
67. 2,4-Dinitrophenol	51-28-5	25	800	25000	(50)
68. 4-Nitrophenol	100-02-7	25	800	25000	(50)

Previously known by the name bis(2-Chloroisopropyl) ether

Semivolatiles	CAS Number	Quantitation Limits* Water ug/L	Low Soil ug/Kg	Med. Soil ug/Kg	On Column (ng)
69. Dibenzofuran	132-64-9	10	330	10000	(20)
70. 2,4-Dinitrotoluene	121-14-2	10	330	10000	(20)
71. Diethylphthalate	84-66-2	10	330	10000	(20)
72. 4-Chlorophenyl-phenyl ether	7005-72-3	10	330	10000	(20)
73. Fluorene	86-73-7	10	330	10000	(20)
74. 4-Nitroaniline	100-01-6	25	800	25000	(50)
75. 4,6-Dinitro-2-methylphenol	534-52-1	25	800	25000	(50)
76. N-nitrosodiphenylamine	86-30-6	10	330	10000	(20)
77. 4-Bromophenyl-phenylether	101-55-3	10	330	10000	(20)
78. Hexachlorobenzene	118-74-1	10	330	10000	(20)
79. Pentachlorophenol	87-86-5	25	800	25000	(50)
80. Phenanthrene	85-01-8	10	330	10000	(20)
81. Anthracene	120-12-7	10	330	10000	(20)
82. Carbazole	86-74-8	10	330	10000	(20)
83. Di-n-butylphthalate	84-74-2	10	330	10000	(20)
84. Fluoranthene	206-44-0	10	330	10000	(20)
85. Pyrene	129-00-0	10	330	10000	(20)
86. Butylbenzylphthalate	85-68-7	10	330	10000	(20)
87. 3,3'-Dichlorobenzidine	91-94-1	10	330	10000	(20)
88. Benzo(a)anthracene	56-55-3	10	330	10000	(20)
89. Chrysene	218-01-9	10	330	10000	(20)
90. bis(2-Ethylhexyl)phthalate	117-81-7	10	330	10000	(20)
91. Di-n-octylphthalate	117-84-0	10	330	10000	(20)
92. Benzo(b)fluoranthene	205-99-2	10	330	10000	(20)
93. Benzo(k)fluoranthene	207-08-9	10	330	10000	(20)
94. Benzo(a)pyrene	50-32-8	10	330	10000	(20)
95. Indeno(1,2,3-cd)pyrene	193-39-5	10	330	10000	(20)
96. Dibenz(a,h)anthracene	53-70-3	10	330	10000	(20)
97. Benzo(g,h,i)perylene	191-24-2	10	330	10000	(20)

* Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

TARGET COMPOUND LIST (TCL) AND CONTRACT REQUIRED QUANTITATION LIMITS (CRQL)

Pesticides/Aroclors	CAS Number	Quantitation Limits* Water ug/L	Soil ug/Kg	On Column (pg)
98. alpha-BHC	319-84-6	0.05	1.7	5
99. beta-BHC	319-85-7	0.05	1.7	5
100. delta-BHC	319-86-8	0.05	1.7	5
101. gamma-BHC (Lindane)	58-89-9	0.05	1.7	5
102. Heptachlor	76-44-8	0.05	1.7	5
103. Aldrin	309-00-2	0.05	1.7	5
104. Heptachlor epoxide	1024-57-3	0.05	1.7	5
105. Endosulfan I	959-98-8	0.05	1.7	5
106. Dieldrin	60-57-1	0.10	3.3	10
107. 4,4'-DDE	72-55-9	0.10	3.3	10
108. Endrin	72-20-8	0.10	3.3	10
109. Endosulfan II	33213-65-9	0.10	3.3	10
110. 4,4'-DDD	72-54-8	0.10	3.3	10
111. Endosulfan sulfate	1031-07-8	0.10	3.3	10
112. 4,4'-DDT	50-29-3	0.10	3.3	10
113. Methoxychlor	72-43-5	0.50	17.0	50
114. Endrin ketone	53494-70-5	0.10	3.3	10
115. Endrin aldehyde	7421-36-3	0.10	3.3	10
116. alpha-Chlordane	5103-71-9	0.05	1.7	5
117. gamma-Chlordane	5103-74-2	0.05	1.7	5
118. Toxaphene	8001-35-2	5.0	170.0	500
119. Aroclor-1016	12674-11-2	1.0	33.0	100
120. Aroclor-1221	11104-28-2	2.0	67.0	200
121. Aroclor-1232	11141-16-5	1.0	33.0	100
122. Aroclor-1242	53469-21-9	1.0	33.0	100
123. Aroclor-1248	12672-29-6	1.0	33.0	100
124. Aroclor-1254	11097-69-1	1.0	33.0	100
125. Aroclor-1260	11096-82-5	1.0	33.0	100

* Quantitation limits listed for soil/sediment are based on wet weight. The quantitation limits calculated by the laboratory for soil/sediment, calculated on dry weight basis as required by the contract, will be higher.

There is no differentiation between the preparation of low and medium soil samples in this method for the analysis of Pesticides/Aroclors.

RAS ORGANIC DATA FLAGS

Under the column labeled "Q" for qualifier, flag each result with the specific Data Reporting Qualifiers listed below. The Contractor is encouraged to use additional flags or footnotes. The definition of such flags must be explicit and must be included in the SDG Narrative.

For reporting results to the USEPA, the following contract specific qualifiers are to be used. The seven qualifiers defined below are not subject to modification by the laboratory. Up to five qualifiers may be reported on Form I for each compound.

The seven EPA-defined qualifiers to be used are as follows:

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution and for percent moisture. For example, 10 U for phenol in water if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 100 U. For a soil sample, the value must also be

adjusted for percent moisture. For example, if the sample had 24% moisture and a 1 to 10 dilution factor, the sample quantitation limit for phenol (330 U) would be corrected to

$$\frac{(330\ U)}{D} \times df \qquad \text{where } D = \frac{100 - \%\ \text{moisture}}{100}$$

and df = dilution factor

For example, at 24% moisture, $D = \frac{100-24}{100} = 0.76$

$$\frac{(330\ U)}{.76} \times 10 = 4300\ U$$ rounded to the appropriate number of significant figures

For soil samples subjected to GPC clean-up procedures, the extract must be concentrated to 0.5 mL, and the sensitivity of the analysis is not compromised by the cleanup procedures. Therefore, the CRQL values in Exhibit C will apply to all samples, regardless of cleanup. However, if a sample extract cannot be concentrated to the protocol-specified volume (see Exhibit C), this fact must be accounted for in reporting the sample quantitation limit.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 ug/L, but a concentration of 3 ug/L is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

N - Indicates presumptive evidence of a compound. This flag is only used for tentatively identified compounds, where the identification is based on a mass spectral library search. It is applied to all TIC results.

P - This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns (see Form X) The lower of the two values is reported on Form I and flagged with an "P".

C - This flag applies to pesticide results where the identification has been confirmed by GC/MS. If GC/MS confirmation was attempted but was unsuccessful, do not apply this flag, instead use a laboratory-defined flag, discussed below.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified target compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. If one or more compounds have a response greater than full scale, <u>except as noted</u> in Exhibit D, the sample or extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate copies of Form I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number. NOTE: For total xylenes, where three isomers are quantified as two peaks, the calibration range of <u>each peak</u> should be considered separately, e.g., a diluted analysis is <u>not</u> required for total xylenes unless the concentration of either peak separately exceeds 200 ug/L.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and <u>all</u> concentration values reported on that Form I are flagged with the "D" flag. This flag alerts data users that any discrepancies between the concentrations reported may be due to dilution of the sample or extract.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

X - Other specific flags may be required to properly define the results. If used, they must be fully described, and such description attached to the Sample Data Summary Package and the SDG Narrative. Begin by using "X". If more than one flag is required, use "Y" and "Z" as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some sample. The laboratory-defined flags are <u>limited</u> to the letters "X", "Y", and "Z".

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" <u>only</u> when they are detected in the sample.

RAS INORGANIC DATA FLAGS

Under the column labeled "Concentration", enter for each analyte either the value of the result (if the concentration is greater than or equal to the Instrument Detection Limit) or the Instrument Detection Limit for the analyte corrected for any dilutions (if the concentration is less than the Instrument Detection Limit).

Under the columns labeled "C", "Q", and "M", enter result qualifiers as identified below. If additional qualifiers are used, their explicit definitions must be included on the Cover Page in the Comments section.

FORM I-IN includes fields for three types of result qualifiers. These qualifiers must be completed as follows:

- C (Concentration) qualifier -- Enter "B" if the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL) but greater than or equal to the Instrument Detection Limit (IDL). If the analyte was analyzed for but not detected, a "U" must be entered.

- Q qualifier -- Specified entries and their meanings are as follows:

  E - The reported value is estimated because of the presence of interference. An explanatory note must be included under Comments on the Cover Page (if the problem applies to all samples) or on the specific FORM I-IN (if it is an isolated problem).

  N - Duplicate injection precision not met.

  N - Spiked sample recovery not within control limits.

  S - The reported value was determined by the Method of Standard Additions (MSA).

  W - Post-digestion spike for Furnace AA analysis is out of control limits (85-115%), while sample absorbance is less than 50% of spike absorbance. (See Exhibit E.)

  * - Duplicate analysis not within control limits.

  + - Correlation coefficient for the MSA is less than 0.995.

  Entering "S", "W", or "+" is mutually exclusive. No combination of these qualifiers can appear in the same field for an analyte.

- M (Method) qualifier -- Enter:

  - "P" for ICP
  - "A" for Flame AA
  - "F" for Furnace AA
  - "PM" for ICP when Microwave Digestion is used
  - "AM" for flame AA when Microwave Digestion is used
  - "FM" for Furnace AA when Microwave Digestion is used
  - "CV" for Manual Cold Vapor AA
  - "AV" for Automated Cold Vapor AA
  - "CA" for Midi-Distillation spectrophotometric.
  - "AS" for Semi-Automated Spectrophotometric
  - "C" for Manual Spectrophotometric
  - "T" for Titrimetric
  - " " where no data has been entered.
  - "NR" if the analyte is not required to be analyzed.

ORGANIC HIGH CONCENTRATION DATA FLAGS

Under the column labeled "Q" for qualifier, flag each result with the specific Data Reporting Qualifiers listed below. The Contractor is encouraged to use additional flags or footnotes. The definition of such flags must be explicit and must be included in the Case Narrative.

For reporting results to the USEPA, the following contract specific qualifiers are to be used. The eight qualifiers defined below are not subject to modification by the Laboratory. Up to five qualifiers may be reported on Form I for each compound.

The eight EPA-defined qualifiers to be used are as follows:

U - Indicates compound was analyzed for but not detected. The sample quantitation limit must be corrected for dilution. For example, 20 U for phenol if the sample final volume is the protocol-specified final volume. If a 1 to 10 dilution of extract is necessary, the reported limit is 200 U.

J - Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the mass spectral or GC/EC data indicate the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero. For example, if the sample quantitation limit is 10 mg/Kg, but a concentration of 3 mg/Kg is calculated, report it as 3J. The sample quantitation limit must be adjusted for dilution as discussed for the U flag.

B - This flag is used when the analyte is found in the associated blank as well as in the sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action. This flag must be used for a TIC as well as for a positively identified TCL compound.

E - This flag identifies compounds whose concentrations exceed the calibration range of the GC/MS instrument for that specific analysis. This flag will not apply to Aroclors analyzed by GC/EC methods. If one or more compounds have a response greater than full scale, the extract must be diluted and re-analyzed according to the specifications in Exhibit D. All such compounds with a response greater than full scale should have the concentration flagged with an "E" on the Form I for the original analysis. If the dilution of the extract causes any compounds identified in the first analysis to be below the calibration range in the second analysis, then the results of both analyses shall be reported on separate Forms I. The Form I for the diluted sample shall have the "DL" suffix appended to the sample number.

D - This flag identifies all compounds identified in an analysis at a secondary dilution factor. If a sample or extract is re-analyzed at a higher dilution factor, as in the "E" flag above, the "DL" suffix is appended to the sample number on the Form I for the diluted sample, and all concentration values reported on that Form I are flagged with the "D" flag.

A - This flag indicates that a TIC is a suspected aldol-condensation product.

N - This flag identifies Aroclor or Toxaphene compounds where one or more of the peaks used for quantitation are more than two times the width of the corresponding peaks in the highest concentration calibration standard. It indicates an uncertainty in the quantitation for the compound other than those discussed under the "J" flag.

X - Other specific flags and footnotes may be required to properly define the results. In order to limit the number of laboratory-defined flags and not use such flags as may be part of the Agency's data review processes, the laboratory-defined flags are restricted to the three letters "X", "Y", and "Z". If used, they must be fully described and such description attached to the Sample Data Summary Package and the Case Narrative. If more than one is required, use "Y" and "Z", as needed. If more than five qualifiers are required for a sample result, use the "X" flag to combine several flags, as needed. For instance, the "X" flag might combine the "A", "B", and "D" flags for some samples.

The combination of flags "BU" or "UB" is expressly prohibited. Blank contaminants are flagged "B" only when they are also detected in the sample.

If analyses at two different dilution factors are required (see Exhibit D), follow the data reporting instructions given in Exhibit D and with the "D" and "E" flags above.

John H.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

September 9, 1992

Mr. Tim B. Knight
Program Manager
Inactive and Abandoned Sites Division
Office of Legal Affairs and Enforcement
Louisiana Department of Environmental Quality
Post Office Box 82282
Baton Rouge, Louisiana 70884-2282

Dear Mr. Knight:

The Environmental Protection Agency has reviewed and accepted the August 18, 1992, revised Valley Park School, Screening Site Inspection (SSI) report, prepared by the Louisiana Department of Environmental Quality, under the Multi-Site Cooperative Agreement. Enclosed for your information and files, is a copy of the Superfund Site Strategy Recommendation (SSSR) for this site:

Site Name	EPA I.D.	Site Recommendation
Valley Park School	LAD985170273	PreScore

Should you have any questions, please contact me or have your staff contact John L. Jones at (214) 655-6740.

Sincerely,

Eddie A. Sierra

Eddie A. Sierra, Chief
Superfund Site Assessment Section (6H-MA)

Enclosure

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IAS DIVISION

LOG # 9-14-92-90

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Superfund Site Strategy Recommendation **Region 6**

Site Name: Valley Park School **Site Number:** LAD985170273

Alias Site Name(s): Valley Park Landfill

Address: 4510 Bawell Street

City/County or Parish/State/Zip: Baton Rouge/E.Baton Rouge/70808

Recommendation:

[ ] 1. No further remedial action planned under Superfund.

[X] 2. Further pre-remedial investigative action needed under Superfund:

PA_____ Priority: High_____
SSI_____ Low X
LSI_____
Other Prescore
To be performed by ARCS Contractor

[ ] 3. Action may be appropriate under other authority:

NPDES_____ SPCC_____ 404_____ TSCA_____
UIC_____ SMCRA_____ STATE_____ RCRA_____
OTHER_____

Discussion: A Screening Site Inspection (SSI) conducted by the Louisiana Department of Environmental Quality (LDEQ) on the Valley Park School Site was reviewed. This site was operated as a sanitary landfill from the 1940's to 1963; an estimated six to eight foot deep lift of garbage/fill material was covered by a two foot clay cap. There are no other containment structures at the site and leachate flows out of four locations on the east side of the site and into the adjacent ditch. Construction of buildings at the facility was completed in 1968 and it now serves as an administrative, testing, and adult education center. Sample analytical results from the SSI indicated: observed releases of acetone, PCBs, pesticides and metals to the soil and surface water sediment. The soil pathway is the primary pathway of concern considering the high usage and the location of the administrative building and the recreational facilities on-site. A PreScore is recommended using the information from the SSI to determine if this site would score high enough using the revised HRS to be a potential candidate for the National Priority List.

Copies to (please list) ATSDR 6W-S 6E-E 6T-P 6H-PA State

Recommended By: John L. Jones 9/8/92 Date: September 4, 1992

Approved By: Betty Williamson Date: 9/9/92

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
REGION 6
1445 ROSS AVENUE, SUITE 1200
DALLAS, TX 75202-2733

January 18, 1995

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JAN 19 1995
LA. DEPT. OF ENVIRONMENTAL QUALITY
IAS DIVISION

Mr. Tim Knight, Administrator
Inactive and Abandoned Sites Division
Louisiana Department of Environmental Quality
P.O. Box 82282
Baton Rouge, LA 70884-2282

LOG # 1/20/95 217

Dear Mr. Knight:

Enclosed for your information and files is a copy of the Superfund Site Strategy Recommendation (SSSR) and an associated report for each of the following sites:

Site Name	EPA I.D.	Recommendation
Allied Chemical Corporation	LAD001829589	NFRAP
AT&T Consumer Products	LAD001829689	NFRAP
BWS-Basile	LAD980750764	NFRAP
Central Wood Preserving, Inc.	LAD008187940	SI
Manville Forest Products Corp.	LAD008050940	NFRAP
Roy Young Yard	LAD008198483	NFRAP
Sam Carline Site	LAD980501522	NFRAP
Valley Park School	LAD985170273	NFRAP

Should you have any questions, please contact me at (214) 665-6740.

Sincerely yours,

for Joshua Jones

Eddie Sierra, Chief
Site Assessment Section (6H-MA)

Enclosures (8)

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
SUPERFUND SITE STRATEGY RECOMMENDATION - REGION 06

Site Name: Valley Park School CERCLIS ID#: LAD985170273

Address: 4510 Bawell Street

City/County or Parish/State/Zip Code: Baton Rouge/East Baton Rouge/LA

Report Type, Date, and Author: SIP, January, 1995

RECOMMENDATION

(x) 1. No Further Remedial Action Planned (NFRAP)

( ) 2. Further Investigation Needed Under Superfund
( ) PA ( ) HRS Priority: ( ) High
( ) SI ( ) RA ( ) Low
( ) ESI ( ) RI/FS
( ) Other:
To be performed by:

( ) 3. Action Deferred to:
( ) RCRA ( ) NRC

NOTIFY AUTHORITY:

( ) Removal	( ) RCRA	( ) TSCA	( ) CAA	( ) SMCRA	
( ) Remedial	( ) State	( ) NPDES	( ) NRC	( ) Resource Trustee:	
( ) CERCLA Enforcement	( ) Federal Facility	( ) UIC	( ) SPCC	(_) Other:	
SEND REPORT COPIES TO:	(x)6E-E	(x) 6W-SP	(x) ATSDR	(x) State Agency	( ) Other

DISCUSSION: The Site Inspection Prioritization (SIP) report for this site was reviewed. This site is a school that was built on the location of the Valley Park landfill. The landfill served the parish from 1940 to 1963. The landfill is covered with a 2 foot clay cap. There is no information available to indicate that the landfill accepted hazardous waste.

Soil samples collected from the soils at the site have shown the presence of barium at 332 parts per million (ppm) and benzo(j,k)fluorene at 0.390 ppm. According to a reference paper "Element Concentrations in Soils and Other Surfacial Materials of the Conterminous United States" produced by the U.S Geological Survey, naturally occurring barium soil concentrations in the Baton Rouge area range from 300 to 700 ppm. Benzo(j,k)fluorene a typical constituent of asphalt was present in the soil sample adjacent to the I-10 right of way, and cannot be solely attributable to the site. Similarly, the benzo(b)fluoranthene found in the surface pathway cannot be attributed solely to the site, because other urban runoff enters the surface water drainage pathway from other sources.

Wells to the south of the site have shown elevated concentrations of barium in the ground water, but the barium cannot be attributed exclusively to the landfill since the East Baton Rouge fault runs east to west 300 feet north of the site. The East Baton Rouge fault is a geological formation that runs east to west approximately 300 feet north of the site. This fault has historically caused salt water intrusion into the deeper sands of the fault. In fact due to this salt water intrusion there are no public supply wells located downgradient of the site.

Based on the results of the SIP report, this site is not a potential candidate for inclusion on the National Priorities List of Superfund sites. The site will be returned to the Louisiana Department of Environmental Quality for any further action, if appropriate, under state regulations.

APPROVALS:

Report Reviewed by: John L. Jones	Signature: [illegible]	Date: 01/09/95
Disposition Recommended by: Eddie A. Sierra (Section Chief)	Signature: Eddie A. Sierra	Date: 01/09/95
Disposition Approved by: Betty Williamson for (Branch Chief)	Signature: Carlene L Chamber	Date: 1/9/95

FINAL REPORT

INTERSTATE I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION REPORT

LOUISIANA DEPARTMENT OF TRANSPORTATION AND DEVELOPMENT
BATON ROUGE, LOUISIANA

RECEIVED
JUN 15 1995
L.A. DEPT. OF ENVIRONMENTAL QUALITY
IAS DIVISION

LOG # 6/13/95 #131

Prepared for
Gulf Engineers and Consultants, Inc.
Baton Rouge, Louisiana

April 1995

WCC File 94B491

Woodward-Clyde

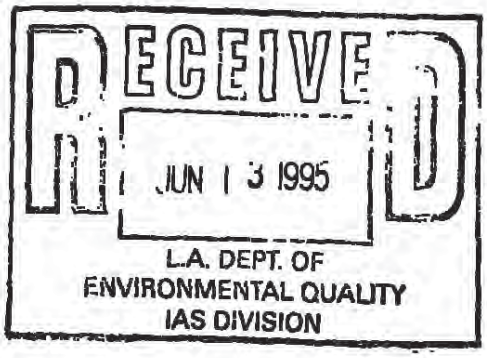
Woodward-Clyde Consultants
2822 O'Neal Lane (70816)
P.O. Box 66317 (70896)
Baton Rouge, Louisiana

Valley Creek

GEC
Gulf Engineers & Consultants

Verdi Adam, PE
President

June 13, 1995



Mr. Tim B. Knight, Administrator
Louisiana Department of Environmental Quality
Office of Legal Affairs and Enforcement
Inactive and Abandoned Sites Division
P. O. Box 82282
Baton Rouge, Louisiana 70884-2282

Re: State Project No. 700-30-0259
Acadian Thruway - Jct. I-12
Route I-10
East Baton Rouge Parish
GEC Project No. 50800131

LOG # 6/13/95 131

Dear Mr. Knight:

We hereby transmit two (2) copies of the Final Report *Interstate I-10 Right of Way Subsurface Investigation Report*, April 1995, for your information and files.

Should you have any questions concerning this matter, please do not hesitate to contact me.

Sincerely,

Philip K. Meyers, P. E.
Vice President

Enclosures

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1.0
INTRODUCTION

Woodward-Clyde Consultants (WCC) was retained to conduct an assessment for the widening of Interstate 10 (I-10) between the College Drive and Acadian Thruway exits. The Louisiana Department of Transportation and Development (LDOTD) is planning to widen I-10 along a corridor from the intersection I-10 and I-12 (I-10/I-12 split) to the Acadian Thruway. The location of the area of this assessment is shown in Figure 1. An aerial photograph of the area taken in 1990 is included as Figure 2. The widening will involve partial excavation, removal, stabilization, and recapping of a closed municipal solid waste landfill on the north side of the west bound lanes of I-10 between the College Drive and Acadian Thruway exits. Figure 3 shows the existing lanes and proposed widening. The purpose of this assessment was to characterize the subsurface in the area to be widened. The assessment was conducted in accordance with a January, 1995 workplan prepared by WCC for this project, "I-10 Right of Way Subsurface Investigation Workplan" (workplan).

2.0
BACKGROUND

LDOTD is planning to widen I-10 from the I-10/I-12 split to the Acadian Thruway. This project will impact a closed municipal landfill located on the northern edge of the I-10 right of way between College Drive and Acadian Thruway. The landfill was operated by the city of Baton Rouge for municipal solid waste disposal from approximately 1958 to 1962. It is believed that the landfill was closed by placing a two-foot thick clay cap over the entire disposal site.

In the LDOTD widening project, the west bound section of I-10 will be widened by approximately 12 feet. In addition, the ditch just north of the interstate shoulder will be moved and resloped. As a result, construction activities will impact what is believed to be the southern edge of the closed landfill. The existing features and the proposed widening of I-10 in relation to the closed landfill are shown in Figure 3. This figure was developed from drawings and sections provided by LDOTD and their consultant, Gulf Engineers and Consultants (GEC) and a site reconnaissance with GEC personnel. The figure is not considered a design drawing and is included only to show the relative proximity of I-10 to the closed landfill and the expected impact to the landfill. Copies of the drawings provided by LDOTD and GEC were included in Appendix A of the January 1995 workplan.

3.0
SCOPE OF WORK

The work at this site consisted of drilling ten soil borings to characterize subsurface materials. Actual boring locations are shown in Figure 4. The purpose of the borings was to determine the following:

- the approximate thickness of waste in the area of concern;
- whether residual waste is characteristically hazardous; and
- whether detectable levels of priority pollutants are present.

Waste or soil samples were collected to determine if subsurface materials were characteristically hazardous waste. To make this determination, selected samples from each boring were analyzed for ignitability, corrosivity, reactivity, and toxic characteristic leaching procedure (TCLP) volatile and semivolatile organic constituents, metals, pesticides, and herbicides. These samples were also analyzed for volatile and semivolatile organic constituents, metals, pesticides and PCBs. The results of these analyses can be used to determine the appropriate disposal method of excavated material.

Borings were advanced to natural soils immediately below the waste. At boring locations where waste was not encountered, borings were advanced to a depth of 10 feet below land surface (bls).

This report shows boring locations, describes drilling activities, sampling procedures, sample handling procedures, decontamination procedures, field quality assurance/quality control methods, and sample results. Conclusions with appropriate supporting documentation such as boring logs, laboratory reports, and chain-of-custody forms are also included.

4.0
FIELD ACTIVITIES

4.1 SOIL BORING LOCATIONS

To characterize subsurface materials, ten shallow borings were drilled at the locations shown in Figure 4. All borings were drilled through subsurface waste (if present) and into the underlying soils.

Borings were located in the following areas:

- The elevated relatively flat portion of the right of way; one boring in each of the flat spaces between berms (B-1, B-2, B-3, B-4) and one boring west of the westernmost berm (B-5). These borings ranged from approximately 20 to 40 feet south of the fence on the northern edge of the right of way;

- One boring through one of the berms (B-7);

- Three borings in the existing ditch (B-8, B-9 and B-10). These areas will be covered with pavement in the widening; and

- Two borings in the vicinity of the thickest part of material to be removed based on the sections provided by GEC (B-6 and B-9).

4.2 SOIL BORING AND SAMPLING PROCEDURES

The borings were drilled using solid stem rotary methods. Borings were advanced by dry auger methods until free water was encountered. When free water was encountered in a boring, drilling operations were stopped for 10 to 15 minutes and the water level allowed to rise. The initial water level and the water level after 10 minutes were noted and recorded on the boring log. The completed boring logs are included in Appendix A.

The borings were continuously sampled on 2-foot intervals to the total depth of each boring. Natural soil or waste samples were collected by pushing a thin walled Shelby tube through each 2-foot interval. For intervals where there was no recovery of materials in the Shelby tubes, samples were collected from the flight augers for that interval. All borings were sampled and described by a WCC geologist.

Each two-foot interval was visually inspected to determine if the sample was soil, waste, or a mixture of soil and waste. A portion from each two-foot interval was retained for headspace analysis using a photoionization detection device (Microtip). Following collection, at least thirty minutes was allowed to elapse between the time of collection of the sample and the headspace reading. Headspace readings were recorded on the boring logs. If waste was not encountered in a boring, one soil sample was selected for laboratory analysis from each boring. The sample interval was based on the results of the headspace readings and visual observations of the soils. Borings where waste was not encountered were drilled to a maximum depth of 10 feet bls. If waste was encountered at a boring location, waste materials from the entire boring were placed in a clean stainless steel bowl, mixed, and a composite sample of the waste collected. All borings were advanced through the waste (when present) into the underlying native soil.

Upon completion of sampling activities, each borehole was grouted the full depth using a cement/bentonite grout. Cap materials were tamped back over the surface of the grouted borehole.

4.3 BORING LOGS

Soil boring logs were recorded in the field and are included in Appendix A. Soil classifications were in accordance with the Unified Soil Classification System. Soil classifications were prepared in the field at the time of sampling by a WCC geologist.

The field geologist described and classified each stratum. The locations of strata changes are defined on the logs at the appropriate depth. Depths are recorded to the nearest tenth of a foot. When depths were estimated, the estimated range was noted.

The secondary features or changes within each stratum were also recorded at the appropriate depth on the boring log where the change occurred.

Other information was placed on the soil boring logs, as appropriate, including:

- The depth of first encountered free water and the depth of water after allowing the level to partially stabilize for 10 minutes.
- The estimated depth interval for each soil sample taken, classified, and/or retained, the length of sample recovery and the sampler type and size.
- Microtip readings for each interval.

4.4 DECONTAMINATION AND CROSS-CONTAMINATION CONTROL

Prior to any drilling activities and between each boring location, all equipment used in the drilling was decontaminated using either steam cleaning or high pressure/hot water wash. Sampling equipment was decontaminated using the following procedures:

1. Washing with a phosphorous-free detergent solution (i.e. Alconox)
2. Triple rinsing with deionized water

A decontamination area was set up for the drilling rig prior to the start of any drilling activities. All waste sampling materials and decontamination wash waters were containerized for disposal by GEC.

In order to minimize the possibility of cross-contamination, strict cross-contamination control procedures were followed. These include:

- Sample jars were kept in limited access area until used.
- Latex gloves were worn during all sampling activities and changed between sample locations.

- Clean plastic sheeting was placed at the sampling area and all sampling equipment was placed on these sheets. This plastic was discarded after use.

- All purge water, decontamination water and discarded gloves and plastic sheeting was containerized for disposal by GEC.

4.5 SAMPLE HANDLING PROCEDURES

All samples collected were transferred directly to clean new sample containers in accordance with Table 1 of the January 1995 workplan. All samples were properly preserved and placed on ice upon collection in accordance with Table 1 of the workplan. Each sample container was labeled. Each sample label included: sample number, sample location, sample matrix, date, time, sampler's initials, method of preservation, and analysis.

The person collecting the sample initiated document(s) at the source of the sample and started the chain-of-custody procedure. Chain-of-custody documentation included the following applicable data:

- Field sample number and site name and project
- Date and time sample taken
- Date sample submitted to laboratory
- Sample taken by (signature)
- Information describing source of sample and sample itself
- Number of shipping containers
- Signature of persons relinquishing and obtaining custody of samples

The samples were kept in a limited access area at the proper temperature until custody was relinquished from the site and formal documentation of the transfers completed. Samples were shipped by overnight courier to the designated analytical laboratory, PACE Laboratories in St. Rose, Louisiana. The chain-of-custody form is included in Appendix B at the end of the laboratory report.

4.6 DOCUMENTATION

For documentation purposes, all information pertinent to field observations and sampling was recorded in a field logbook with consecutively numbered pages. Entries in the logbook included the following:

- Location of sampling activity
- Number of samples taken
- Description of sampling point
- Date and time of collection
- Collector's sample identification number(s)
- Collector's name
- Equipment calibration as applicable

Other documentation included the chain-of-custody, previously described, to track sample transfers.

5.0
ANALYTICAL PARAMETERS AND ANALYTICAL METHODS

Soil and waste samples were analyzed for the same parameters. These samples were analyzed for the parameters listed below.

Hazardous Waste Characteristics

- ignitability;
- reactivity;
- corrosivity;
- toxicity (TCLP metals and organic constituents)

Organic and Inorganic Constituents

- volatile organic constituents listed in Method 8240;
- semivolatile organic constituents listed in Method 8270; and
- pesticides and PCBs listed in Method 8080
- total metals

Analytical methods for the above parameters are listed in Table 1.

6.0
QUALITY ASSURANCE/QUALITY CONTROL PROGRAM

To attain the quality assurance objectives in terms of accuracy, precision, completeness, comparability and representativeness, the following additional requirements were implemented for this project:

- A duplicate soil sample analysis was performed to measure variability induced by sampling, handling and laboratory procedures. This duplicate was run on the sample collected from boring B-5.

- One trip blank analysis for volatile organic constituents was performed to measure bias introduced by field handling, shipping and laboratory procedures.

- Representativeness was assured by meticulous sampling and testing and not by statistical methods.

Quality Assurance and Quality Control (QA/QC) was maintained by the laboratory in accordance with its standard QA/QC practices.

Review of the QA/QC results indicates recoveries of laboratory and matrix spikes and surrogates were generally within laboratory QC limits with some matrix effects noted. Overall, the data appears to be of acceptable quality. No compounds were detected in either the trip blank or the laboratory blanks. The laboratory QA/QC summary is provided in the back of the laboratory report in Appendix B.

7.0
SUMMARY OF RESULTS

The field and laboratory results for this investigation are presented below. Supporting information is provided in Appendix A (boring logs) and Appendix B (Laboratory Report). The attached Tables and Figures present the data for ease of understanding.

7.1 FIELD RESULTS

A summary of the field results for each boring is presented in Table 2 and includes the depth intervals of each stratigraphic unit, maximum headspace interval, depth of groundwater, boring total depth, and sample interval.

7.1.1 Boring Locations and Depths

The boring locations for borings B-1 through B-10 are shown in Figure 4. Borings B-1 through B-7 were drilled at locations where landfill waste materials were encountered while B-8, B-9 and B-10 were drilled in the existing drainage ditch where no landfill waste materials were noted.

Boring depths ranged from 10 feet bls to 20 feet bls, depending on the occurrence and thickness of landfill waste materials. Where waste was encountered, the borings extended a maximum of three feet below the waste materials. Where waste was absent, the borings were terminated at 10 feet bls in accordance with the January 1995 workplan.

7.1.2 Stratigraphy

Three separate units were encountered in the study area. These units consisted of the following in order, from land surface downward (See Figure 5);

- Silty Clay and Clay FILL (cap material)
- Landfill Debris or WASTE and Silty Clay FILL
- Natural Clays and Silty Clay (CH)

The surficial silty clay and clay cap material ranged in thickness from two feet to six feet. The thickest landfill cap material was noted on the easternmost boring (B-1) and westernmost borings (B-5 and B-6), with most of the borings having approximately two feet of cap materials overlying the waste materials.

Landfill waste materials mixed with silty clay fill material were noted in borings B-1 through B-7. The waste was encountered below the cap material at two feet bls in most locations. Recovery of landfill waste materials in the Shelby tubes was generally poor. Samples of the waste were collected from the flight augers for each interval. The thickness of the landfill waste varied from three feet (B-6) to seventeen feet (B-3). Landfill waste materials were not found in borings B-8, B-9 or B-10, all of which were drilled along the existing drainage ditch.

The natural basal materials below the landfill waste consisted of silty clays and clays.

7.1.3 Headspace Readings

Maximum headspace readings in the borings were relatively low with maximum Microtip readings occurring generally within the landfill waste, typically highest near the upper contact of the waste. In borings B-8, B-9 and B-10, where no waste was encountered, maximum headspace readings occurred at the 2 to 4 foot, 6 to 8 foot and 6 to 8 foot intervals, respectively. Samples from these intervals were therefore sent for laboratory analyses in accordance with the workplan.

7.1.4 Occurrence of Groundwater

Groundwater was encountered in six of the ten borings (B-1, B-3, B-4, B-5, B-6 and B-8). When encountered, groundwater occurred immediately below the cap material (at the waste material contact), typically at two to four feet bls. Groundwater was not

encountered in two borings where wastes were present (B-2 and B-7) or in two of the three borings in the existing drainage ditch (B-9 and B-10)

7.1.5 Results by Boring

The field results for each boring are further discussed below.

B-1

Boring B-1, the easternmost boring, was drilled to a total depth of 14 feet bls. A light gray and tan silty clay cap fill material was encountered from land surface to 6 feet bls, at which depth groundwater was encountered. Landfill waste material and silty clay was encountered from 6 feet to 12 feet bls. A greenish gray silty clay was encountered at 12 feet. Headspace readings ranged from 0.2 ppm to a maximum of 13.2 ppm at 6 to 8 feet bls.

B-2

Boring B-2 was drilled to a total depth of 15 feet bls. A yellowish brown silty clay cap fill material was encountered from land surface to 2 feet bls. Landfill waste material and silty clay was encountered from 2 feet to 13 feet bls. A greenish gray silty clay was encountered at 13 feet. Headspace readings ranged from nondetect to a maximum of 6.0 ppm at 2 to 4 feet bls.

B-3

Boring B-3 was drilled to a total depth of 20 feet bls. A greenish gray silty clay cap fill material was encountered from land surface to 2 feet bls. Landfill waste material and silty clay was encountered from 2 feet to 19 feet bls. Groundwater was encountered at a depth of 5 feet bls. A gray and tan clay was encountered at 19 feet. Headspace readings ranged from nondetect to a maximum of 17.3 ppm at 16 to 18 feet bls.

B-4

Boring B-4 was drilled to a total depth of 20 feet bls. A yellowish brown and gray silty clay cap fill material was encountered from land surface to 3 feet bls. Landfill waste material and silty clay was encountered from 3 feet to 19 feet bls. Groundwater was encountered at a depth of 4.5 feet bls. A light tan clay to silty clay was encountered at 19 feet. Headspace readings ranged from 2.0 ppm to a maximum of 18.0 ppm at 12 to 4 feet bls.

B-5

Boring B-5, the westernmost boring, was drilled to a total depth of 12 feet bls. A gray and yellowish brown silty clay to clay cap fill material was encountered from land surface to 2 feet bls. Landfill waste material and silty clay was encountered from 2 feet to 11 feet bls. Groundwater was encountered at a depth of 4 feet bls. A gray silty clay was encountered at 11 feet. Headspace readings ranged from 2.7 ppm to a maximum of 19.6 ppm at 8 to 10 feet bls.

B-6

Boring B-6 was drilled to a total depth of 10 feet bls. A light gray and reddish brown silty clay cap fill material was encountered from land surface to 4 feet bls. Landfill waste material and silty clay was encountered from 4 feet to 7 feet bls. Groundwater was encountered at a depth of 4 feet bls. A gray silty clay to clay was encountered at 7 feet bls. Headspace readings ranged from nondetect to a maximum of 8.7 ppm at 6 to 8 feet bls.

B-7

Boring B-7 was drilled atop an existing berm to a total depth of 10 feet bls. A gray and brown silty clay cap fill material was encountered from land surface to 2 feet bls. Some landfill waste material mixed with silty clay was encountered from 2 feet to 8 feet bls. Groundwater was not encountered in the boring. A gray silty clay was encountered at

8 feet bls. Headspace readings ranged from 1.7 ppm to a maximum of 7.5 ppm at 2 to 4 feet bls.

B-8

Boring B-8 was drilled in the existing drainage ditch to a total depth of 10 feet bls. A light gray and brown silty clay cap fill material was encountered from land surface to 7 feet bls. A gray silty clay was encountered from 7 feet to 10 feet bls. No waste material was encountered. Groundwater was encountered at a depth of 4 feet bls. An interval of coarse wet sand was noted from 6.0 to 6.6 feet bls. Headspace readings ranged from 3.5 ppm to a maximum of 9.6 ppm at 2 to 4 feet bls, which was the interval sampled.

B-9

Boring B-9 was drilled in the existing drainage ditch to a total depth of 10 feet bls. A light gray and tan silty clay cap fill material was encountered from land surface to 8 feet bls. A greenish gray silty clay was encountered from 8 feet to 10 feet bls. No waste material was encountered. Groundwater was not encountered in the boring. An interval of coarse wet sand was noted at 7.0 feet bls. Headspace readings ranged from nondetect to a maximum of 9.2 ppm at 6 to 8 feet bls, which was the interval sampled.

B-10

Boring B-10 was the easternmost boring drilled in the existing drainage ditch to a total depth of 10 feet bls. A light brown silty clay to clay cap fill material was encountered from land surface to 3 feet bls. A yellowish brown silty clay was encountered from 3 feet to 10 feet bls. No waste material was encountered. Groundwater was not encountered in the boring. Headspace readings ranged from 2.4 ppm to a maximum of 4.2 ppm at 6 to 8 feet bls, which was the interval sampled.

7.2 ANALYTICAL RESULTS

The analytical results are presented on Table 3 (hazardous waste characteristics), Table 4 (hazardous constituents) and Table 5 (total metals). The findings are discussed below.

7.2.1 Hazardous Waste Characterization

Samples collected from the waste materials were analyzed for full hazardous waste characteristics. The results indicate that none of the samples exceeded the criteria for classification as a hazardous waste. Corrosivity results indicate pH values between 6.91 and 8.30 standard units. Reactivity and ignitability results were below regulatory levels for all samples. TCLP (toxicity) results were non detect for all volatiles, semivolatiles, pesticides and herbicides. Leachable mercury, barium, selenium and lead were detected in various samples at concentrations well below TCLP regulatory limits.

7.2.2 Organic and Inorganic Constituents

Relatively low levels of various organic compounds and metals were detected in samples collected during this assessment. These results are summarized by parameter suite.

Volatile Organic Compounds

Acetone was detected in every sample collected except the sample from B-10. Detected acetone concentrations included 139 ug/kg in B-1, 45.7 ug/kg in B-2, 69.9 ug/kg in B-3, 24.4 ug/kg in B-4, 132 ug/kg in B-5, 105 ug/kg in B-6, 251 ug/kg in B-7, 17.1 ug/kg in B-8 and 33.3 ug/kg in B-9. 2-butanone was detected in B-1 (31 ug/kg), B-5 (28.9 ug/kg) and B-6 (33.4 ug/kg). Carbon disulfide was detected only in B-5 at a concentration of 11.5 ug/kg but was not detected in the B-5 duplicate. Acetone, 2-butanone, and carbon disulfide are considered common laboratory artifacts. These constituents were not detected in the trip blank however.

Chlorobenzene was detected in all waste samples at concentrations of 117 ug/kg in B-1, 144 ug/kg in B-2, 61.6 ug/kg in B-3, 160 ug/kg in B-4, 361 ug/kg in B-5, 335 ug/kg in B-6, and 14.6 ug/kg in B-7. Ethylbenzene was detected in the sample from B-5 at a

concentration of 26.8 ug/kg. Xylenes were detected in two samples at concentrations of 177 ug/kg in B-4 and 53.7 ug/kg in B-5. Benzene was detected in the sample from B-5 at 10.9 ug/kg, but was not detected in the B-5 duplicate.

Semivolatile Organic Compounds

The only detected semivolatile compound was bis (2-ethylhexyl) phthalate which was detected in B-1, B-2 and B-3 at concentrations of 21,600 ug/kg, 12,200 ug/kg, and 5,800 ug/kg, respectively. Bis (2-ethylhexyl) phthalate is commonly associated with plasticizers.

Pesticides

Trace levels of various pesticides were detected in the samples collected. Delta-BHC was detected in B-6 at 42.5 ug/kg. 4,4'-DDD was detected at concentrations of 47 ug/kg in B-7 and 118 ug/kg in B-9. 4,4'-DDE was detected at concentrations of 117 in B-1, 80.3 ug/kg in B-6, and 70.8 ug/kg B-7. 4,4'-DDT was detected in B-9 at a concentration of 258 ug/kg. Dieldrin and methoxychlor were detected in the sample from B-1 at concentrations of 71.6 ug/kg and 422 ug/kg, respectively.

PCBs

PCBs were detected in all borings containing landfill waste material, however Aroclor 1242 was the only PCB detected in the samples collected. Detected concentrations of Aroclor 1242 included 2,540 ug/kg in B-1, 6,810 ug/kg in B-2, 610 ug/kg in B-3, 532 ug/kg in B-4, 436 ug/kg in B-5,997 ug/kg in B-6, and 333 ug/kg in B-7.

Metals

Total metals results are summarized in Table 5. Detected metals included arsenic, barium, cadmium, chromium, lead, and mercury. Arsenic was detected at concentrations ranging from 18.8 mg/kg to 71.8 mg/kg. Barium was detected at concentrations ranging from 96.0 mg/kg to 553 mg/kg. Cadmium was detected at concentrations ranging from 1.34 mg/kg to 7.37 mg/kg. Chromium was detected at concentrations ranging from 17.6

mg/kg to 92.0 mg/kg. Lead was detected at concentrations ranging from <5 mg/kg to 333 mg/kg. Mercury was detected at concentrations ranging from 0.87 mg/kg to 4.1 mg/kg. Selenium was not detected in any samples collected. Silver was detected only in B-4 at a concentration of 1.8 mg/kg. These metals results were generally within typical published ranges for soils except for cadmium. Cadmium concentrations were above the typical ranges but still relatively low and consistent for all borings.

8.0
CONCLUSIONS

The results of the investigation verifies the approximate limits of the landfill in the subject area to be immediately north of the existing drainage ditch. A silty clay cap material overlies the landfill waste material and is typically two feet in thickness, increasing to approximately six feet in thickness at the easternmost location sampled and four feet in the westernmost location sampled. The thickness of the landfill waste materials varies from three feet to as much as 17 feet, with the thickest areas being between the existing berms. Groundwater with a hydrostatic head occurs at the top of the waste materials in most of the locations sampled in relatively moderate quantities. The landfill waste overlies a natural silty clay and clay unit. Table 2 and Figure 5 illustrate these field conditions.

Based on analytical results, the landfill waste materials do not meet the regulatory criteria for hazardous waste characteristics. As such, the wastes may be considered a solid waste (i.e., municipal or industrial solid waste) and handled as such. Minor levels of various volatile, semivolatile, pesticide and PCB compounds were detected in the samples collected, as well as naturally occurring metals. It would not necessarily be considered atypical of a municipal landfill operating during the period of the late 1950's and early 1960's to find the above listed compounds in varying concentrations. The presence of these compounds may warrant consideration of handling the excavated material as industrial solid waste with disposal at a permitted facility of this nature.

9.0
LIMITATIONS

Professional judgements are presented in the report. They are based partly on the technical information gathered, including analytical date, partly on our understanding of the facility's operations and partly on our experience of subsurface conditions in the area. The borings may not be representative of varying subsurface conditions at other locations at the site. The results presented herein are applicable only to this specific site and should not be used for any other purposes. We do not guarantee the performance of the project in any respect other than our engineering work and judgments rendered meet the standards and care of our profession.

TABLES

TABLE 1

SUMMARY OF ANALYTICAL PROGRAM
I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION

Hazardous Waste Characteristics	
Corrosivity	Method 9045
Reactivity	Method 7.3.3.2
Igniteability	Method 1010
Toxicity (TCLP) Volatiles Semivolatiles Pesticides Herbicides Metals	Leachate Method 1311 zero headspace by 40 CFR 268; leachate analyses by the following: Method 8240 Method 8270 Method 8080 Method 8150 Method 6010, except mercury which was Method 7470
Organic Constituents	
Volatile Organic Compounds	Method 8240
Semivolatile Organic Compounds	Method 8270
Pesticides	Method 8080
PCBs	Method 8080
Inorganic Constituents	
Metals: As, Ba, Cd, Cr, Pb, Hg, Se, Silver (Ag)	Analysis by ICP Methods except mercury which was Method 7470

NOTE: All methods as described in SW-846 except where noted in Laboratory Report.

TABLE 2

SUMMARY OF FIELD BORING RESULTS
I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION

	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
Cover Material (ft bls)	0-6	0-2	0-2	0-3	0-2	0-4	0-2	0-7	0-8	0-3
Waste Interval (ft bls)	6-12	2-13	2-19	3-19	2-11	4-7	2-8	NE	NE	NE
Maximum Organic Vapor Interval (ft bls)/Reading (ppm)	6-8/13.2	2-4/6.0	16-18/17	12-14/18.0	8-10/19.6	6-8/8.7	2-4/7.5	2-4/4.6	6-8/8.2	6-8/4.2
Depth to Water (ft bls)	6	NE	5	4.5	4	4	NE	4	NE	NE
Boring Depth (ft bls)	14	15	20	20	12	10	10	10	10	10
Sampled Interval (ft bls)	6-12	2-13	4-18	4-16	2-11	4-7	2-4	2-4	6-8	6-8

NE = Free water not encountered.

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TABLE 3

HAZARDOUS WASTE CHARACTERISTICS ANALYTICAL RESULTS
I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION

TCLP RESULTS (TOXICITY)											
Organics (µg/l)	**B-1**	**B-2**	**B-3**	**B-4**	**B-5**	**B-6**	**B-7**	**B-8**	**B-9**	**B-10**	**Regulatory Level**
VOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ADL
SVOCs	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ADL
Pesticides	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ADL
Herbicides	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ADL
Metals (mg/l)											
Mercury	0.017	0.017	0.014	0.012	0.012	0.014	0.016	0.014	0.014	0.011	>0.200
Barium	ND	1.8	1.5	1.2	1.5	1.1	1.8	1.5	2.4	1.1	>100
Selenium	ND	ND	ND	0.27	ND	ND	ND	ND	ND	ND	>1.0
Lead	ND	ND	ND	ND	1.0*	ND	ND	ND	ND	ND	>5.0
OTHER HAZARDOUS WASTE CHARACTERISTIC RESULTS											
Corrosivity (pH in standard units)	7.82	7.61	8.25	8.23	7.95	7.68	6.91	7.98	7.96	8.30	≤2 or >12.5
Reactivity (mg/kg)	ND	ND	ND	ND	60**	ND	ND	ND	ND	ND	>500 mg/kg
Ignitability	No	No	No	No	No	No	No	No	No	No	Flashpoint <60° C

ADL = Regulatory level is above method detection limit for all compounds.
ND = Not detected using detection levels below regulatory limits.
* ND in duplicate.
** Sulfide reactivity: ND in duplicate.

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TABLE 4

HAZARDOUS CONSTITUENT ANALYTICAL RESULTS
I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION (µg/kg)

	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10
Volatile Organic Compounds										
Acetone	139	45.7	69.9	24.4	132	105	251	17.1	33.3	<10
2-butanone	31	<10	<10	<10	28.9*	33.4	<10	<10	<10	<5
Carbon Disulfide	<5	<5	<5	<5	11.5*	<5	<5	<5	<5	<5
Chlorobenzene	117	144	61.6	160	361	335	14.6	<5	<5	<5
Ethylbenzene	<5	<5	<5	<5	26.8	<5	<5	<5	<5	<5
Xylenes (total)	<5	<5	<5	177	53.7	<5	<5	<5	<5	<5
Benzene	<5	<5	<5	<5	10.9*	<5	<5	<5	<5	<5
Semivolatile Organic Compounds										
bis(2-ethylexyl)Phthalate	21,600	12,200	5,800	<3,330	<3,330	<3,330	<3,330	<333	<333	<333
Pesticides										
delta-BHC	<17	<17	<17	<17	<17	42.5	<17	<1.7	<17	<1.7
4,4'-DDD	<33	<33	<33	<33	<33	<33	47.0	<3.3	118	<3.3
4,4'-DDE	117	<33	<33	<33	<33	80.3	70.8	<3.3	<33	<3.3
4,4'-DDT	<33	<33	<33	<33	<33	<33	<33	<3.3	258	<3.3
dieldrin	71.6	<33	<33	<33	<33	<33	<33	<3.3	<33	<3.3
Methoxychlor	422	<170	<170	<170	<170**	<170	<170	<17	<170	<17
PCBs										
Arochlor-1242	2540	6810	610	532	436	997	333	<33	<66	<33

Results reflect detected constituents only.
* Not detected in duplicate.

TABLE 5

TOTAL METALS ANALYTICAL RESULTS
I-10 RIGHT OF WAY SUBSURFACE INVESTIGATION

	B-1	B-2	B-3	B-4	B-5	B-6	B-7	B-8	B-9	B-10	Typical Range[1]
Total Metals Results (mg/kg)											
Arsenic	71.8	43.5	28.3	26.9	18.8	59.3	25.8	40.7	33.4	32.0	0.1-97
Barium	536	553	289	218	449	214	193	96.0	264	257	10-500
Cadmium	7.37	4.79	6.69	3.94	3.28	3.6	2.53	1.34	2.0	2.21	0.01-0.7
Chromium	54.8	34	33.3	35.2	43.7	92.0	44.9	20.6	21.4	17.6	1-2000
Lead	68.4	307	86.2	91.9	24	333	95.8	8.0	24.3	<5	<10-700
Mercury	3.1	2.6	1.2	2.6	4.1	1.7	1.3	1.2	1.0	0.87	<0.01-4.6
Selenium	<5	<5	<5	<5	<5	<5	<5	<5	<5	<5	<0.1-4.3
Silver	<1	<1	<1	1.8	<1*	<1	<1	<1	<1	<1	0.01-5

* Detected in duplicate at 9.9 mg/kg.

[1] Source: Shacklett, N.T., and Boerngen, J.G., "Elemental Concentrations in Soils and Surficial Material of the Continuous U.S." USGS Professional paper 1270, U.S. Government Printing Office, Washington, D.C., 1984

Woodward-Clyde

Limited Subsurface Investigation

Consolidated Force Main Alignment

Nairn Drive Section

Baton Rouge, East Baton Rouge Parish, Louisiana

March 4, 2011

Terracon Project Nos. EH097303

RECEIVED
JUN 03 2011
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG #

Prepared for:

Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

Remediation Services Division
Manager:
Team Leader:
AI #:
TEMPO Task #:
Desk Copy File Room:

Prepared by:

Terracon Consultants, Inc.
Baton Rouge, Louisiana

Offices Nationwide Established in 1965
Employee-Owned terracon.com

Terracon

Geotechnical ■ Environmental ■ Construction Materials ■ Facilities

March 4, 2011

Terracon

Shread-Kuyrkendall & Associates, Inc.
13000 Justice Avenue, Suite 16
Baton Rouge, LA 70816

Attn: Mr. David Einsel, P.E.

Re: Limited Subsurface Investigation
Consolidated Force Main Alignment
Nairn Drive Section
Baton Rouge, East Baton Rouge Parish, Louisiana
Project No. EH097303

Dear Mr. Einsel:

Terracon Consultants, Inc. (Terracon) is pleased to submit this Limited Subsurface Investigation (LSI) report for the above referenced site. This investigation was performed in accordance with Terracon's proposal dated July 27, 2010 (revised August 12, 2010).

We appreciate the opportunity to perform the Limited Subsurface Investigation (LSI) services for Shread-Kuyrkendall & Associates. Please contact the undersigned if you should have any questions regarding this report at (225) 344 6052.

Sincerely,
Terracon Consultants, Inc.

Richard M. Simon
Senior Principal/ Regional Manager

Stephen E. Greaber, PE
Office Manager

RMS/SEG:jrk

Enclosure

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Limited Subsurface Investigation

Consolidated Force Main Alignment
Nairn Drive Section
Baton Rouge, East Baton Rouge Parish, Louisiana

Terracon Project Nos. EH097303
March 4, 2011

1.0 INTRODUCTION

1.1 Site Description

Site Name	Consolidated Force Main Alignment
Site Location/Address	Nairn Drive, Baton Rouge, East Baton Rouge Parish, Louisiana
Land Area	Approximately 1,400 linear feet.
Site Improvements	The alignment traverses a gravel parking lot, recreational park, vacant field, and interstate highway.

The site has an approximate center at Latitude 30° 25' 27.7" North and Longitude 91° 08' 42.7" West with an average elevation of approximately 32 feet National Geodetic Vertical Datum (NGVD). A copy of a portion of the United States Geological Survey (USGS) 1995 Baton Rouge East, Louisiana 7.5-Minute Series topographic map depicting the site vicinity is presented on Figure 1 and a Soil Boring Location Map is presented on Figure 2.

1.2 Background

Terracon developed a scope of services based on information presented in the Phase I Environmental Site Assessment (ESA) and Geotechnical Investigation reports, dated April 20 and October 20, 2010, respectively, performed by Terracon. This information identified the former Baton Rouge landfill, located east of Narin Drive, as a Recognized Environmental Condition in connection with the site.

Based upon a review of the historical aerial photography, the proposed alignment along Nairn Drive is located along the approximate western edge of the former landfill facility. It is understood that the former landfill extends from Dawson's Creek to the north across Interstate 10. The old landfill was reportedly partially excavated to allow for the construction of the Interstate 10 alignment. The initial geotechnical borings in this vicinity identified a thin layer of rubbish in three borings at depths less than 10 feet below ground surface (bgs).

1.3 Scope of Services

Terracon conducted a Limited Site Investigation (LSI) at the Consolidated Force Main Alignment segment located along Narin Drive. The objective of this LSI was to further delineate the rubbish encountered during previous investigations in the proposed Force Main alignment and to identify possible environmental contaminants in the soil and/or groundwater. Terracon's LSI was conducted in accordance with Terracon's proposal dated July 27, 2010 (revised August 27, 2010).

This objective was generally achieved by further defining the horizontal and vertical extent of rubbish in the subsurface along the proposed alignment and by comparing the analytical results of collected analytical samples to the Louisiana Department of Environmental Quality (LDEQ) Risk Evaluation Corrective Action Program (RECAP) Screening Standards for Soil at Industrial Sites and Groundwater.

1.4 Standard of Care

Terracon's services were performed in a manner consistent with generally accepted practices of the profession undertaken for similar studies in the same geographical area during the same time period. Terracon makes no warranties, either expressed or implied, regarding the findings, conclusions or recommendations. Please note that Terracon does not warrant the work of laboratories, regulatory agencies or other third parties supplying information used in the preparation of this report. These LSI services were performed in accordance with the scope of work agreed with you, our client, as reflected in our proposal and were not restricted by ASTM E1903-97.

1.5 Limitations

Findings, conclusions and recommendations resulting from these services are based upon information derived from the on-site activities and other services performed under this scope of work; such information is subject to change over time. Certain indicators of the presence of hazardous substances, petroleum products, or other constituents may have been latent, inaccessible, unobservable, nondetectable or not present during these services, and we cannot represent that the site contains no hazardous substances, toxic materials, petroleum products, or other latent conditions beyond those identified during this assessment. Subsurface conditions may vary from those encountered at specific borings or wells or during other surveys, tests, assessments, investigations or exploratory services; the data, interpretations, findings, and our recommendations are based solely upon data obtained at the time and within the scope of these services.

1.6 Reliance

This report has been prepared for the exclusive use of Shread-Kurykendall and Associates and the City-Parish of Baton Rouge, its affiliates and subsidiaries and their successors, assigns, and grantees; any authorization for use or reliance by any other party (except a governmental entity having jurisdiction over the site) is prohibited without the express written authorization of Shread-Kurykendall and Associates and the City-Parish of Baton Rouge, its affiliates and subsidiaries and their successors, assigns, and grantees and Terracon. Any unauthorized distribution or reuse is at the client's sole risk.

2.0 FIELD ACTIVITIES AND METHODOLOGY

2.1 Site Geology and Hydrology

According to the Geologic Map of Louisiana (1984), the site is situated within the surface outcrop of the Pleistocene age Prairie Terrace. Topographically and stratigraphically lowest of the Prairie Terraces east of the Mississippi Alluvial Valley, the original terrace deposit topography lies hidden beneath a thick layer of wind deposited Peoria Loess. The terrace deposit is composed of coastal plain deposits of the late-to-middle Pleistocene streams; sediments are generally clay, silty clay loam, or sandy clay loam.

2.2 Soil Boring Installation

Field activities were overseen on December 14 and 15, 2010, by Mr. Adam Kiehn, a Terracon staff geologist. As part of the scope of work, 18 soil borings were advanced at the site using a direct-push drill rig. Figure 2 presents the site layout and soil boring locations. Soil borings LF-01 and LF-14 were advanced to depths of 35 feet and 30 feet bgs, respectively. Soil borings LF-02 to LF-13 were advanced to a depth of approximately 15 feet bgs each. Additionally, on January 21, 2011 soil borings LF-14 to LF-18 were advanced to depths of 30 to 40 feet bgs.

Drilling services were performed by a State of Louisiana licensed driller utilizing direct-push drilling techniques under the supervision of a Terracon professional. Soil samples were collected using five-foot core barrel samplers equipped with clear PVC liners. Sampling equipment was cleaned using an Alconox® wash and potable water prior to the beginning of the project and before collecting each soil sample.

Soil samples were collected continuously and observed to document soil lithology, color, moisture content and sensory evidence for the presence of rubbish. The soil samples were field-screened using a photoionization detector (PID) to indicate the presence of Volatile Organic Compounds (VOC). Soil boring logs, including PID screening values, lithology descriptions and analytical sample collection depth are presented in Appendix A.

2.3 Soil Analytical Sampling

A total of seven soil samples were collected for analytical laboratory analysis based on PID screening, lithology and other field observations. The soil samples were collected from selected soil borings according to the SOW and identified respective to the soil boring identification and sample depth (e.g. LF-01 12'-14'). Rubbish was observed in many soil samples and olfactory evidence indicated the presence of rubbish at intervals of poor sample recovery. All soil samples collected were submitted to the laboratory for analysis of Volatile Organic Compounds (VOC) by EPA Method 8260, Semi-Volatile Organic Compounds (SVOC) by EPA 8270, RCRA Metals by EPA 6010/7471, Pesticides/PCBs by EPA 8081/8082, and Herbicides by EPA 8151. Two soil samples were also selected for a full Toxicity Characteristics Leaching Procedure (TCLP) by EPA 1311/8260, 8270, 6010, 8081, 8082, and 8151.

All collected soil samples were placed in laboratory provided sample containers, sealed and labeled appropriately and placed on ice in an insulated container for the duration of field activities. A chain-of-custody was prepared with sample identification, time of collection and other field information and placed inside the insulated container with the samples. The container was then sealed with a signed custody seal and relinquished to an overnight carrier for delivery to Accutest Laboratories (Accutest) located in Houston, Texas on December 16, 2010.

2.4 Groundwater Analytical Sampling

Following completion of soil sampling, soil borings LF-01, LF-02, LF-05, LF-06, LF-10, LF-12, and LF-14 were converted to temporary monitoring wells. The temporary monitoring well material consisted of 1-inch diameter, 0.010-inch machine slotted PVC screen, fitted with a threaded bottom cap and finished with flush joint PVC riser to the ground surface. Sufficient groundwater did not accumulate in temporary wells LF-02 and LF-06, therefore samples were not collected for analysis from those wells.

One groundwater sample was collected from temporary monitoring wells LF-01, LF-05, LF-10, LF-12, and LF-14. Prior to sample collection, the monitoring wells were purged of standing groundwater a minimum of three well casing volumes, or until the monitoring well failed to recharge (i.e.., well ran dry). Subsequent to sufficient recharge, a groundwater sample was collected with a peristaltic pump fitted and dedicated tubing for each well location.

After collection of groundwater samples, the PVC well material was removed from the ground, and the borings were backfilled to the surface with cement-bentonite grout. Temporary monitoring well construction details are presented on the soil boring logs included in Appendix A. All groundwater samples collected were submitted to the laboratory for analysis of VOC by

EPA Method 8260, VOC by EPA Method 8260, SVOC by EPA 8270, RCRA Metals by EPA 6010/7471, Pesticides/PCBs by EPA 8081/8082, and Herbicides by EPA 8151.

The groundwater flow direction and the depth to shallow groundwater would likely vary depending upon seasonal rainfall, nearby surficial water bodies and other geologic conditions. Without the benefit of permanently installed groundwater monitoring wells and surveyed datum, groundwater flow direction at the site cannot be ascertained. This is not anticipated to affect the findings or recommendations of this LSI.

3.0 DATA EVALUATION

3.1 Geotechnical Soil Conditions

A soil profile presenting the soil conditions along the north side of the interstate are presented in Figure 3 and the south side in Figure 4. The borings along the North side of the interstate encountered rubbish at various locations. The elevation where the rubbish is present varies across the area. Data from this area shows rubbish as deep as 15 to 20 feet below existing ground surface. On the south side of the interstate, the borings within approximately 300 feet of the interstate encountered rubbish as deep as 25 feet below existing grade.

The soils overlying the rubbish were silty clays (Unified Soil Classification System symbol, CL) and clays (CH) and are considered fill material. Below the rubbish, tan and light gray silty clays (CL) and clays (CH) consistent with typical expected Pleistocene geologic conditions were identified.

3.2 Soil Analytical Results

All soil results were compared to the LDEQ RECAP Screening Standards for non-industrial sites. A full listing of analyses is included in the analytical laboratory report included in Appendix B. A summary of soil analytical results is presented in Table 1. Soil sample LF-12 13 -15 feet bgs revealed an arsenic concentration of 44.5 milligrams per Kilogram (mg/Kg), which exceeds the RECAP Screening Standard of 12 mg/Kg. The remainder of the soil samples revealed concentrations less than the LDEQ RECAP Screening Standards for VOC, SVOC, Pesticides, Herbicides.

3.3 Groundwater Analytical Results

All groundwater results were compared to the LDEQ RECAP Screening Standards for groundwater, as presented on Table 2. A complete listing of all results and constituents is included in the laboratory report included in Appendix B.

Lead was detected above the screening standard in all of the samples collected. Chromium and Cadmium were detected above the screening standards in GW-05. Arsenic was detected above the screening standard in GW-05, GW-10, GW-12, and GW-14. No other metal exceedances of the RECAP Screening Standards were detected. Arsenic is a common metal detected in the subsurface in this geographic area and is not believed to present significant risks associated with the planned construction activities.

Two SVOC constituents were detected above the RECAP Screening Standard. Bis (2-ethyl hexyl) phthalate was detected in all five groundwater samples above the screening standard; and 2-methylnapthalene was detected above the screening standard in GW-12. Bis (2-ethyl hexyl) phthalate is a common plasticizer used in many household and commercial plastic products. 2-methylnapthalene is a natural component of crude oil and can be associated with smoke, combustion engine emissions, asphalt, coal tar, and used oils. It is likely that these compounds are a result of the trash and debris encountered in the subsurface and the proximity to the previous construction activities of Interstate-10. No VOC, Pesticides or Herbicide constituents were detected above the RECAP Screening Standard.

3.4 Toxicity Characteristic Leachate Procedure Results

The two soil samples submitted for TCLP analysis revealed all concentrations of the leachate to be below the laboratory reporting limit and the RECAP groundwater standards. The results of this analysis are included in the Analytical Report in Appendix B.

4.0 CONCLUSIONS AND RECOMENDATIONS

Due to the varying elevations where rubbish is present, this area may not be suitable for directional drilling. During drilling, pockets of rubbish may be encountered and cause complications such as loss of drilling fluid and hanging up of drill pipe. It is recommended that other types of installation be considered for these areas where rubbish is present. For example, a jack and bore installation method with pits closer to the interstate, where the rubbish was reportedly removed may be considered a method with lower risk. It should be noted that the borings adjacent to the interstate encountered rubbish only near the surface. This supports the understanding that the rubbish was over-excavated and removed for the construction of the interstate.

For other areas along the alignment where trash was encountered, other possible options for installation may be more viable due to the site conditions. Open cut installation can be used in the other areas. Excavation in the rubbish area should be braced to prevent sloughing. Excavated material should be removed and properly disposed per local, state and federal regulations. Based on the environmental analytical results, this material is considered non-hazardous and may be disposed in a municipal landfill.

Designers should be cautioned of placing pipes in areas where rubbish is present. The rubbish has been in place for an extended period of time and a majority of the consolidation of the material has likely already occurred. Long term secondary settlement can become an issue; therefore, flexible piping and connections should be used in this area to allow for some differential movements that could occur over the lifespan of the forcemain.

Environmental analytical results revealed arsenic in one soil sample at a level above the LDEQ screening standard. This sample was taken from a clay layer between rubbish layers and included some small fragments of metallic rubbish, which may account for the elevated arsenic levels. No other contaminants were identified in the soils above the screening standards. The two TCLP samples analyzed did not reveal levels of the constituents above the detection limit.

Multiple metals, including arsenic, cadmium, chromium and lead, in addition to bis (2-ethyl hexyl) phthalate and 2-methylnapthalene were identified in the groundwater above the screening standards. No petroleum constituents, VOC, PCB, pesticides or herbicides were detected in the groundwater above the screening standards. In accordance with LAC 33:1.3919, Terracon recommends the findings of the environmental sampling be submitted to LDEQ, as a result of the contaminants identified above the screening standard in the groundwater.

Proper procedures should be followed with respect to worker health and safety, including appropriate personal protective equipment typical for construction projects with potentially contaminated materials. The detected compounds are not believed to be of a significant risk to human health or the environment due to non-potable uses of groundwater in the area, and as there will no long term contact with subsurface soils and groundwater during construction.

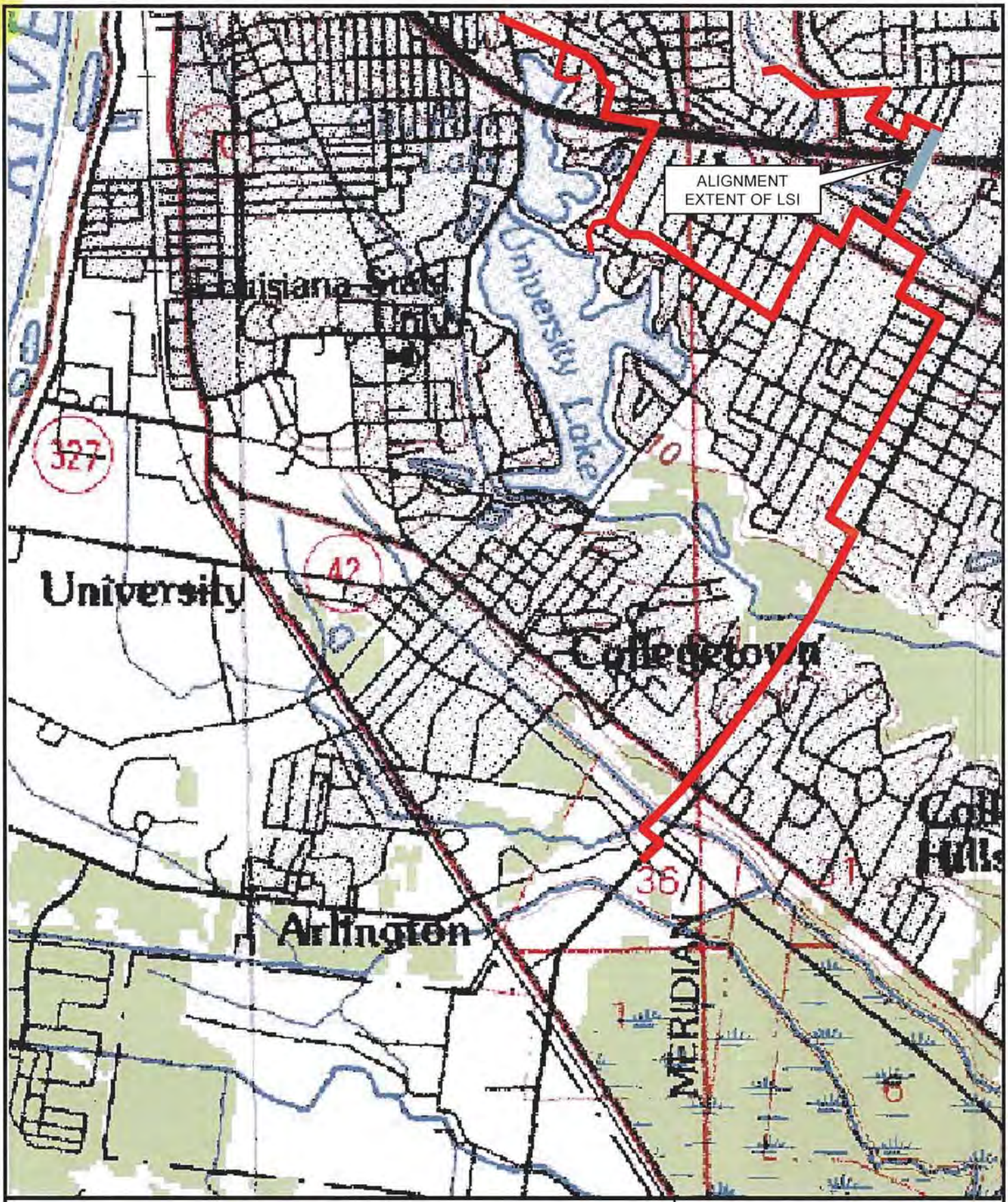
5.0 GENERAL COMMENTS

This report has been prepared for the exclusive use of the client for specific applications to the project as discussed here-in. The analysis and opinions expressed in this report are based upon data obtained from the soil and groundwater samples and laboratory analysis at the indicated locations or from other information discussed in this report. This report does not reflect variations in subsurface stratigraphy, hydrogeology, and contaminant distribution that may occur across the site. Actual subsurface conditions may vary and may not become evident without further assessment.

This report has been prepared in accordance with generally accepted environmental engineering practices. No warranties to third parties are intended or made. In the event any changes in the nature or location of suspected sources of contamination as outlined in this report are observed, the conclusions and recommendations contained in this report shall not be valid unless these changes are reviewed and the opinions of this report are modified or verified in writing by Terracon.

FIGURES

Figure 1 – Topographic Vicinity Map
Figure 2 – Soil Boring Location Map
Figure 3 – Soil Profile North of I-10
Figure 4 – Soil Profile South of I-10



SITE VICINITY MAP

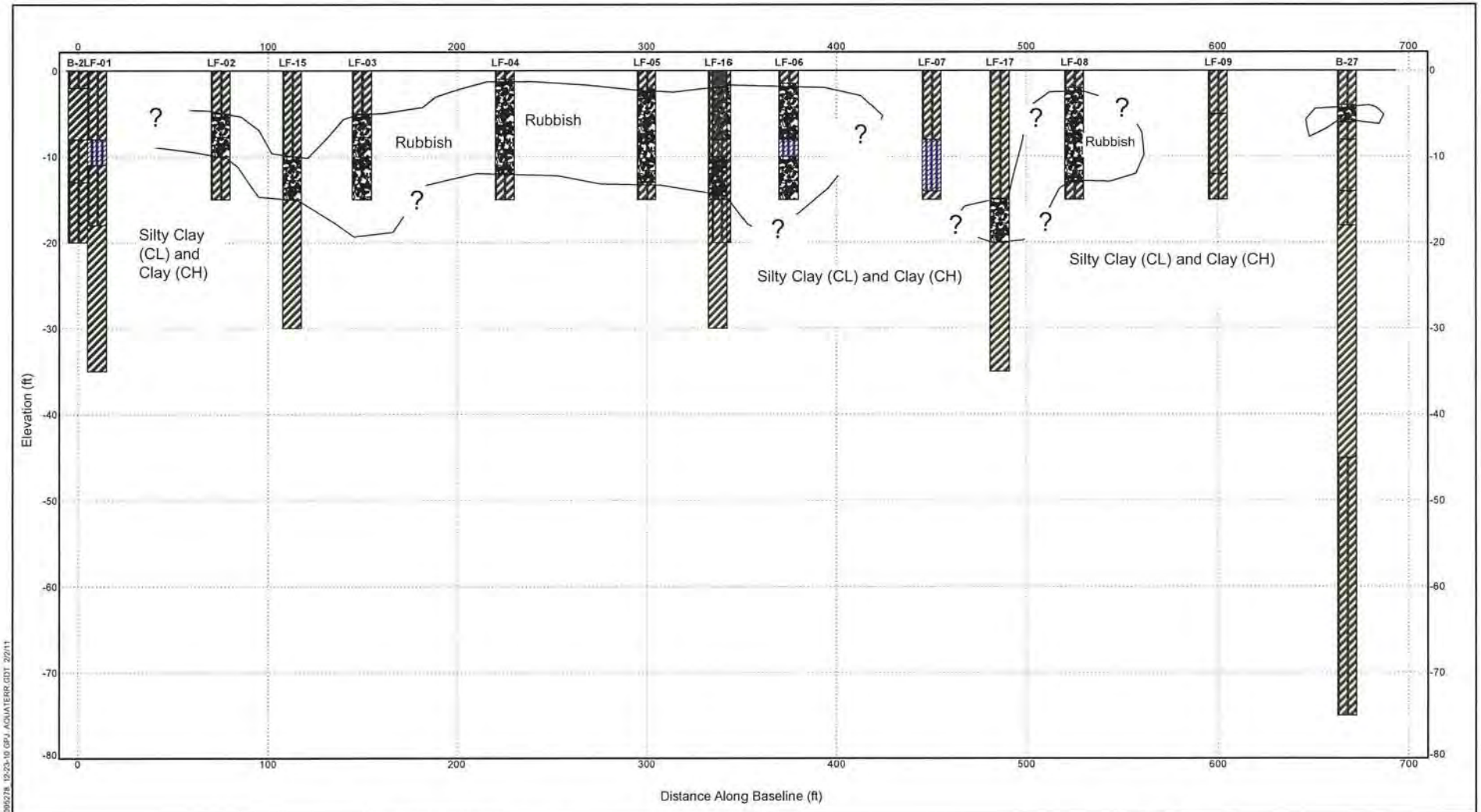
East Consolidated Force Main
Baton Rouge, LA

7.5-Minute Topographic Map
Baton Rouge East, Louisiana

Terracon

Fig No.
A-1

B-29
LF-01
LF-02
LF-15
LF-03
B-28
LF-04
LF-16
LF-05
LF-06
LF-07
LF-17
LF-08
B-27
LF-09
I-10
B-26
LF-10
LF-18
LF-11
LF-12
B-25
LF-13
LF-14
B-24
0
500'
Site Diagram
Direct Push Soil Boring
Soil Boring
North
Consolidated Force Main Alignment
Nairn Drive, Baton Rouge, LA
Fig No.
2



Terracon

LITHOLOGY GRAPHICS

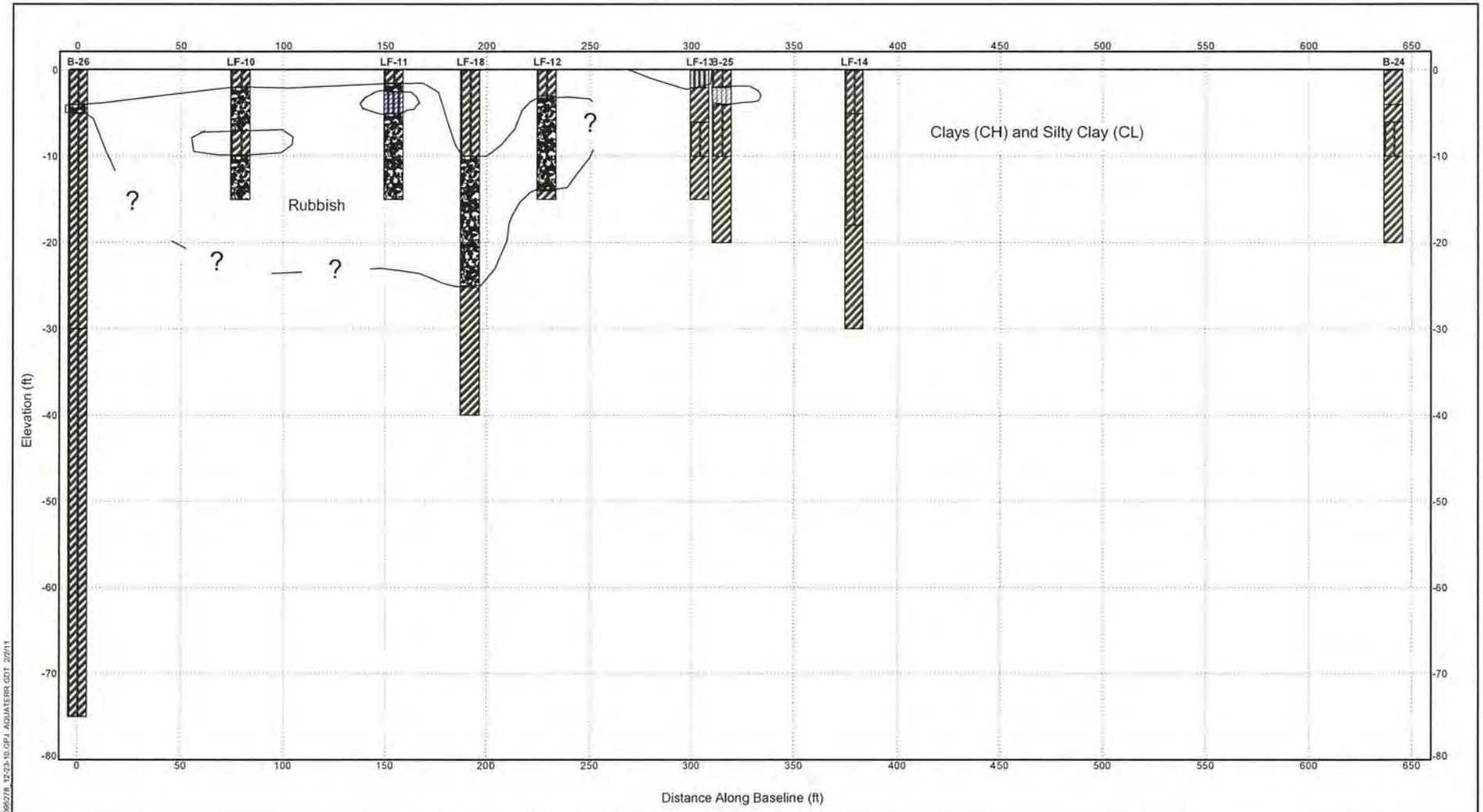
Silty Clay (CL) | Rubbish | High Plasticity Clay (CH) | Clayey Silt (ML)

Figure 3

Geotechnical Investigation
Central Consolidated Force Main
North of Interstate 10

Project Number: EH097303

SIMPLE FENCE - B SIZE SLOCS EH09727B 12-23-10 GPJ AGUATERR.GDT 2/2/11



LITHOLOGY GRAPHICS

- High Plasticity Clay (CH)
- Silty Clay (CL)
- Very Silty Clay (CL-ML)
- Rubbish
- Clayey Silt (ML)
- Sandy Silt (ML)

Figure 4

Geotechnical Investigation
Central Consolidated Force Main
South of Interstate 10

Project Number: EH097303

SIMPLE FENCE - B SIZE SLOGS EH096278_12-23-10.GPJ AQUATERR.GDT 2/2/11

APPENDIX A

Soil Boring Logs

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-24

SHEET 1 OF 1

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 18.4" N Long: 91° 08' 49.4" W
Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
			2.50 (P)	2.79	124	99		15; 21 25 52	31	Very stiff brown and tan **CLAY (CH)** -very dry to 2'	-4.0	
5			1.00 (P)							Firm to stiff tan and light gray **CLAY (CH)**	-6.0	
			0.25 (P)	0.46	122	96		27		Soft brown and tan **SILTY CLAY (CL)**	-10.0	
10		▽	0.25 (P)									
		▽	2.00 (P)	1.64	156	132		19 18 70	51	Stiff brown, tan, and light gray **CLAY (CH)** -dry to 13'		
15			2.00 (P)							-with calcareous nodules below 14'		
			2.25 (P)								-20.0	
20										**Boring Terminated at 20 Feet.**		
25										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 11 feet.

▽ Rise to 10 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 20'

Abandonment Method

Boring backfilled with soil cuttings upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-25

SHEET 1 OF 1

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 21.1" N Long: 91° 08' 47.5" W
Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
								14		Stiff to very stiff brown **SILTY CLAY (CL)** - with asphalt and gravel	-2.0	
			3.00 (P)	0.79	123	103		20 24 19	4	Firm brown and light gray **very SILTY CLAY (CL-ML)** - dry, with glass and debris	-4.0	
5			1.50 (P)							Firm tan and light gray **SILTY CLAY (CL)**		
			0.25 (P)	0.81	122	96		27				
			0.50 (P)								-10.0	
10		▽								Very stiff tan and light gray **CLAY (CH)**		
		▽	1.75 (P)									
15			2.25 (P)	2.27	129	106		17 22 52	35			
			2.50 (P)								-20.0	
20										**Boring Terminated at 20 Feet.**		
25										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 11 feet.

▽ Rise to 10.4 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 20'

Abandonment Method

Boring backfilled with soil cuttings upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-26

SHEET 1 OF 4

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 23.4" N Long: 91° 09' 45.6" W
Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
			2.00 (P)					13		Stiff to very stiff brown **SILTY CLAY (CL)** - with gravel to 2' - dry		
		▽	2.25 (P)		127	104		23				
		▽									-4.0	
										RUBBISH	-5.0	
5										Firm gray and tan **SILTY CLAY (CL)** - with rubbish to 8'		
			1.25 (P)					23 36 24	13			
			0.50 (P)	0.70	125	97		29				
10												
			0.75 (P)									
										- stiff from 14' - 28'		
15			1.25 (P)	1.82	129	105		17 39 22	22			
			2.50 (P)									
20												
			3.00 (P)									
25												

STRATA BOUNDARIES MAY NOT BE EXACT

Groundwater Level Data

▽ First encountered at 4 feet.

▽ Rise to 3.5 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-26

SHEET 2 OF 4

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 23.4" N Long: 91° 09' 45.6" W

Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
										Firm gray and tan **SILTY CLAY (CL)** - with rubbish to 8' *(continued)*		
			1.75 (P)	0.97	127	100		26				
30										-30.0		
										Stiff light gray and tan **SILTY CLAY (CL)** - blocky to 45'		
			3.25 (P)									
35												
			3.00 (P)									
40												
			3.50 (P)	1.50	126	101		20 44 25	24			
45												
			3.00 (P)									
50												

STRATA BOUNDARIES MAY NOT BE EXACT

Groundwater Level Data

▽ First encountered at 4 feet.

▽ Rise to 3.5 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-26

SHEET 3 OF 4

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 23.4" N Long: 91° 09' 45.6" W

Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
55			3.50 (P)							Stiff light gray and tan **SILTY CLAY (CL)** - blocky to 45' *(continued)*		
60			3.00 (P)									
65			2.00 (P)	2.28	130	108		17 37 21	20	- very stiff, trace sand below 63'		
70			2.25 (P)									
75			2.50 (P)							-75.0 *STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 4 feet.

▽ Rise to 3.5 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-26

SHEET 4 OF 4

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 23.4" N Long: 91° 09' 45.6" W

Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit – Moisture Content – Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
80										**Boring Terminated at 75 Feet.**		
85												
90												
95												
100										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 4 feet.

▽ Rise to 3.5 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-27

SHEET 1 OF 4

FILE: EH097303
DATE: April 9, 2010
DRILLER: R. Warren
TECH.: A. Lyons
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 26.4" N Long: 91° 09' 43.7" W

Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
		▽	4.00 (P)	3.64	125	109		15 / 21 / 40	19	Very stiff brown **SILTY CLAY (CL)** - dry - with gravel and asphalt	-4.0	
			4.00 (P)							**RUBBISH**	-6.0	
5			4.00 (P)	1.86	128	104		20 / 23 / 40	20	Stiff brown, tan, and gray **SILTY CLAY (CL)** - with trace sand	-8.0	
			0.50 (P)							Soft tan **SILTY CLAY (CL)**		
10			0.25 (P)	0.32 (t)	115	88		31			-14.0	
15			1.00 (P)							Firm to stiff tan **SILTY CLAY (CL)**	-18.0	
			2.00 (P)	1.94	127	103		24 / 16 / 66	50	Stiff tan and light gray **CLAY (CH)**		
20			2.50 (P)									
25										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 4 feet.

No rise was observed after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-27

SHEET 2 OF 4

FILE: EH097303
DATE: April 9, 2010
DRILLER: R. Warren
TECH.: A. Lyons
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 26.4" N Long: 91° 09' 43.7" W
Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit – Moisture Content – Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
30			3.00 (P)							Stiff tan and light gray **CLAY (CH)** *(continued)*		
35			2.50 (P)	1.92 (s)	122	96		27		- slickensided from 33' - 35'		
40			3.50 (P)					31				
45			3.50 (P)							-45.0 Very stiff tan and light gray **SILTY CLAY (CL)** - with trace sand to 60'		
50			3.00 (P)	2.17	125	100		21 48 25	27			

STRATA BOUNDARIES MAY NOT BE EXACT

Groundwater Level Data

▽ First encountered at 4 feet.

No rise was observed after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-27

SHEET 3 OF 4

FILE: EH097303
DATE: April 9, 2010
DRILLER: R. Warren
TECH.: A. Lyons
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 26.4" N Long: 91° 09' 43.7" W

Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit – Moisture Content – Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
55			2.50 (P)							Very stiff tan and light gray **SILTY CLAY (CL)** - with trace sand to 60' *(continued)*		
60			4.00 (P)	2.20	127	104		23				
65			3.00 (P)									
70			4.00 (P)					26				
75			4.00 (P)							-75.0 STRATA BOUNDARIES MAY NOT BE EXACT		

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

Groundwater Level Data

▽ First encountered at 4 feet.

No rise was observed after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-27

SHEET 4 OF 4

FILE: EH097303
DATE: April 9, 2010
DRILLER: R. Warren
TECH.: A. Lyons
ENGINEER: S. Greaber

Location: See Figure 2

Lat: 30° 25' 26.4" N Long: 91° 09' 43.7" W

Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit – Moisture Content – Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
										Boring Terminated at 75 Feet.		
80												
85												
90												
95												
100										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 4 feet.

No rise was observed after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 10'
Rotary Wash: 10' - 75'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-28

SHEET 1 OF 1

FILE: EH097303
DATE: April 9, 2010
DRILLER: R. Warren
TECH.: A. Lyons
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 29.4" N Long: 91° 08' 42.0" W
Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
			4.00 (P)	1.17	109	96		13 / 24 / 41	17	Stiff brown and tan **SILTY CLAY (CL)** - desiccated - with brick	-2.0	
5		▽								**RUBBISH**	-8.0	
			1.75 (P)	1.69	126	102		23		Stiff gray **SILTY CLAY (CL)**		
10			1.00 (P)									
										- tan and light gray below 14'		
15			1.00 (P)	1.17	128	103		16 / 24 / 40	24			
			2.50 (P)								-20.0	
20										**Boring Terminated at 20 Feet.**		
25										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 4 feet.

No rise was observed after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 20'

Abandonment Method

Boring backfilled with soil cuttings upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS.EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. B-29

SHEET 1 OF 1

FILE: EH097303
DATE: April 10, 2010
DRILLER: R. Warren
TECH.: B. Alexander
ENGINEER: S. Greaber

Location: See Figure 2
Lat: 30° 25' 32.5" N Long: 91° 08' 40.4" W
Surface Elevation (Ft): 0

Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit; 20 40 60 80)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
			2.50 (P)					14		Stiff to very stiff tan and light gray **SILTY CLAY (CL)** - very dry - with gravel	-2.0	
			2.50 (P)	1.78	127	102		19, 24, 53	34	Stiff tan and brown **CLAY (CH)**		
5			1.75 (P)									
			1.00 (P)	1.84	128	104		24		- gray and tan below 6'	-8.0	
			0.75 (P)							Firm tan and gray **SILTY CLAY (CL)**		
10												
			0.50 (P)	0.83	124	99		20, 25, 33	13		-13.0	
		▽								Stiff tan and light gray **SILTY CLAY (CL)**		
15		▽	1.25 (P)	1.18	124	101		23				
			2.25 (P)								-20.0	
20										**Boring Terminated at 20 Feet.**		
25										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

▽ First encountered at 14 feet.

▽ Rise to 13.5 feet after 20 minutes.

Advancement Method

Short-flight Auger: 0' - 20'

Abandonment Method

Boring backfilled with soil cuttings upon completion.

Notes

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

PROJECT: Geotechnical Investigation
Central Consolidated Force Main
Baton Rouge, Louisiana

CLIENT: Shread-Kuyrkendall & Associates, Inc.
Baton Rouge, Louisiana

SOIL BORING LOG

No. LF-01

SHEET 1 OF 1

FILE: EH097303
DATE: December 14, 2010
DRILLER: J. Grissom
TECH.: A. Kiehn
ENGINEER: L. Smith

Location: See Figure 2.
Lat: 30° 25' 32.2" N Long: 91° 08' 40.3" W
Surface Elevation (Ft): 0

FIELD DATA				LABORATORY DATA								
Depth (feet)	Samples	Groundwater Level	Field Test Results	Undrained Shear Strength (ksf)	Unit Weight (pcf) Moist	Unit Weight (pcf) Dry	PID	Natural Moisture Content and Atterberg Limits (Plastic Limit / Moisture Content / Liquid Limit)	Plasticity Index PI	DESCRIPTION	Strata Break Elev.	Soil Type
0							0	20 / 37 / 20	17	Light gray and tan **SILTY CLAY (CL)** - dry to 2'		
5							0					
							0				-8.0	
10							0	23 / 30 / 25	7	Brown and gray **CLAYEY SILT (ML)**		
							0				-11.0	
15							0			Tan and light gray **SILTY CLAY (CL)** - wet		
							0				-18.0	
20							0	15 / 56 / 23	41	Tan and gray **CLAY (CH)**		
							0					
25							0					
							0	24 / 76 / 31	52			
30							0					
							0					
							0					
35							0				-35.0	
										Boring Terminated at 35 Feet.		
40												
45												
50										*STRATA BOUNDARIES MAY NOT BE EXACT*		

Groundwater Level Data

- First encountered at 13.5 feet.
- Rise to 18.9 feet after 15 minutes.
- Static level observed at 13.8 feet.

Advancement Method

Direct Push: 0' - 35'

Abandonment Method

Boring backfilled with cement-bentonite grout upon completion.

Notes

3-inch topsoil
Analytical Sample taken from 12' to 14'

Terracon

AQ LOG W/O LAT AND LONG SLOGS EH095278_12-23-10.GPJ AQUATERR.GDT 2/3/11

URS

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SEP 1 3 2001
L. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG# RS7652 - 1236

URS Corporation
600 Carondelet St.
New Orleans, LA 70130-3587
Tel: 504.586.8111
Fax: 504.599.5181
www.urscorp.com

Letter of Transmittal

T-17

Louisiana Department of Environmental Quality
7290 Bluebonnet Boulevard
Baton Rouge, LA 70810

Date: September 10, 2001

Job No.: 25723-036
CFIS# 33815

Attention: Mr. Keith Casanova
Administrator, Remediation Services Division

GENTLEMEN:

WE FURNISH YOU HEREWITH THE FOLLOWING:

DESCRIPTION	COPIES	NUMBER	TITLE	REV. NO.	REV. DATE
Report	3		Voluntary Remediation Program, Remediation Action Summary Report for 8006 Jefferson Highway, Baton Rouge, Louisiana.		

Remarks: CFIS# 33815. Document for LDEQ review and approval. One copy should be forwarded to Mr. Carey Dicharry (LDEQ Site Coordinator).

BY: Ben J. Haney

Ben J. Haney, P.E., Eng. D.
Vice President
Manager, Environmental Services

BJH/GJH/mfm

Remediation Services Division
Manager. Bradford
Team Leader: Dicharry
AI #. 33815
TEMPO Task #.
☐ Desk Copy File Room: GW

VOLUNTARY REMEDIATION PROGRAM
REMEDIAL ACTION SUMMARY REPORT

FOR

8006 JEFFERSON HIGHWAY
BATON ROUGE, LOUISIANA

Remediation Services Division
Manager: Bradford
Team Leader: Dichamp
AI #: 3385
TEMPO Task #:
Desk Copy File Room: RW

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REMEDIATION SERVICES DIVISION
LOG # RP0002-1236

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

URS JOB NO. 25723-036

SEPTEMBER 2001

URS

VOLUNTARY REMEDIATION PROGRAM
REMEDIAL ACTION SUMMARY REPORT

FOR

8006 JEFFERSON HIGHWAY
BATON ROUGE, LOUISIANA

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

Prepared By: _____
G. J. Hymel, P.G

Reviewed and Approved By: _____
Ben J. Haney, P.E., Eng. D.

JOB NO. 25723-036
SEPTEMBER 2001

URS

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

JOB NO.: 25723-036

VOLUNTARY REMEDIATION PROGRAM REMEDIAL ACTION SUMMARY REPORT FOR 8006 JEFFERSON HIGHWAY BATON ROUGE, LOUISIANA

SEPTEMBER 2001

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D PIEZOMETER PLUGGING AND ABANDONMENT FORM

E QC REVIEW AND LABORATORY ANALYTICAL SUMMARY REPORT

1.0 INTRODUCTION

1.0 INTRODUCTION

Whitney National Bank (Whitney) of New Orleans, Louisiana currently owns a 4.042-acre tract of land on Jefferson Highway in Baton Rouge, Louisiana (Site). Refer to Figure 1 of Appendix A. In 1997, apparently impacted soils were encountered in the subsurface at the Site. Subsequently, the Whitney performed several environmental investigations and evaluations related to the Site. These evaluations indicated that constituents typical of dry cleaning operations were identified in the subsurface soils and groundwater at the Site. Figure 2, Appendix A, depicts a Site plot plan with locations sampled during the Site investigation activities.

On January 24, 2001, Whitney and the Louisiana Department of Environmental Quality (LDEQ) entered into a Voluntary Remedial Remedial Action Cooperative Agreement and a Partial Remediation Agreement under the Voluntary Remediation Program (VRP) to manage the Site. The VRP provides that partial remedial actions at the Site may be employed where such actions are consistent with the proposed re-use or development of the property, are protective of human health and the environment and allow for Site access by LDEQ. Under the terms of the Partial Remediation Agreement, Whitney must also impose use restrictions on the future use of the site and submit to LDEQ for approval a Monitoring Maintenance Plan (MMP), which shall be incorporated into the use restrictions.

Prior to initiation of remedial actions at the Site, the document entitled *Remedial Action Plan and Confirmatory Sampling and Analysis Plan for 8006 Jefferson Highway, Baton Rouge, Louisiana* dated January, 2001 (RAP/SAP), was developed by URS Corporation (URS) and submitted to the LDEQ on January 24, 2001 for review and comment. On February 19, 2001 and March 8, 2001, at the request of LDEQ, two addenda to the RAP/SAP were issued. On May 11, 2001, after solicitation of public comments on the RAP/SAP document, the LDEQ provided approval to initiate the RAP/SAP activities at the Site.

In August of 2001, URS implemented the approved RAP/SAP and completed the partial remedial actions at the Whitney Site. The objective of the remedial actions were to remove and dispose of those Site soils that contain tetrachloroethylene (PCE) concentrations above the Risk Evaluation/Corrective Action Program (RECAP), Management Option 2 (MO-2) Non-Industrial Limiting RECAP Standard for Surface Soil and Potential Surface Soil ($Soil_{ni}$) [henceforth MO-2 RS], as presented in the LDEQ approval RAP/SAP. To facilitate remedial actions, one Site piezometer (PZ-16) was plugged and abandoned, due to the need to excavate and remove adjacent soils exceeding the MO-2 RS.

This Remedial Action Summary Report (RASR) document provides a summary of the remedial actions and confirmatory sampling activities performed at the Site in August of 2001, and also provides a comparison of the confirmatory sampling analytical data to the MO-2 RS.

The results of the confirmatory sampling activities presented herein indicate that the MO-2 RS have been achieved. Therefore, pending resolution of any use restriction issues, a Certificate of Completion from the LDEQ under the VRP is warranted.

2.0 REMEDIAL ACTIONS

2.0 REMEDIAL ACTIONS

URS contracted with Safety Kleen, Inc. (Safety Kleen) to excavate, remove and dispose of Site soils with PCE concentrations greater than the MO-2 RS. The excavated materials were disposed of off-site at the Safety Kleen facility in White Castle, Louisiana. A total of 498 tons of materials was disposed. Refer to Appendix C for Waste Manifests. Field activities were conducted between August 1 and August 17, 2001, in accordance with the Site-Specific Health and Safety Plan developed for the Site remedial activities. The remedial actions addressed the soils in the vicinity of the following previous sampling locations:

- SB-4 (2 - 4'),
- SB-4 (9 - 11'),
- SB-24 (6 - 9'),
- SS-1 (2'), and
- SS-6 (10').

Excavation was performed using typical excavation equipment. Excavated soils were removed and placed into dump trucks or roll off boxes and transported to the disposal facility. Excavation was performed until soils with PCE concentrations above the MO-2 RS were excavated. Termination of excavation was determined based upon existing Site data, field observations and ultimately the results of confirmatory samples collected from the excavation areas.

The extent of soils that were excavated, removed and disposed is depicted on Figure 3, Appendix A. The depth of excavation was 15 feet below ground surface (bgs) or greater. Descriptions of the excavation areas are as follows:

Area 1

The Area 1 excavation area encompassed sample location SB-24. The excavation measured approximately 20 feet by 14 feet by 15 feet deep.

Area 2

The Area 2 excavation area encompassed sample locations SB-4 and SS-1. The excavation measured approximately 26 feet by 12 feet by 15 to16.5 feet deep. Area 2 encompassed piezometer PZ-16, which was plugged and abandoned, and subsequently removed by excavation to a depth of 12 feet bgs. The southeastern end of Area 2 terminated, and joined with, Area 3.

Area 3

The Area 3 excavation area encompassed sample location SS-6. The excavation measured approximately 10 feet by 10 feet by 15 feet deep. The western end of Area 3 terminated at piezometer PZ-16. Area 3 was merged with excavation Area 2 by the additional excavation performed in Area 2.

Confirmatory sampling of the open excavations was performed after the URS field team leader believed soils containing PCE above MO-2 RS were removed (see Section 3.0 for more details concerning field sampling activities). At the end of each day, excavated areas were covered with plastic sheeting and remained open until confirmatory analytical results were evaluated. After analytical results of confirmatory samples were evaluated, either additional excavation was performed in areas which contained soils with PCE concentrations above the MO-2 RS, or the excavations were backfilled. Initial confirmatory sampling results required that additional excavation be performed in two locations, prior to backfilling activities as follows: 1) at the western end of Area 3 (southeastern portion of Area 2) near PZ-16, and 2) at the western end of Area 1. Backfill consisted of clean soil from Jenkins dirt pit, located on Jewel Road, Baton Rouge, Louisiana. A total of 550 cubic yards of backfill was placed at the Site.

Remedial actions in the vicinity of Site PZ-16 required that soils surrounding this piezometer be removed. To facilitate the removal and disposal of the surrounding soils, URS contracted Professional Technical Support Services, Inc. (Pro-Tech) to plug and abandon (P&A) piezometer PZ-16. Prior initiation of P&A activities, verbal approval to

P&A piezometer PZ-16, as well as for the methods to be utilized, were obtained from Mr. Carey Dicharry of the LDEQ. On August 7, 2001, Pro-Tech plugged PZ-16 with a cement-bentonite grout from the bottom of the well to ground surface.

On August 15, 2001, the soils surrounding PZ-16, were excavated by Safety Kleen down to approximately 8 feet bgs, and the well was broken off using the excavator bucket, at approximately 8 feet bgs, just below the 17.25-inch diameter outer steel casing. On August 16, 2001 the soils surrounding PZ-16, were excavated down to 15 feet bgs, and the outer PVC casing was broken off at approximately 15 feet bgs. The stainless steel well casing was disconnected at a joint at approximately 12 feet bgs. On August 17 the area of PZ-16 was backfilled to approximate the previous ground surface elevation. Refer to Appendix D for a copy of the well P&A form.

URS
Walk Haydel

URS Corporation
600 Carondelet St.
New Orleans, LA 70130-3587
Tel: 504.586.8111
Fax: 504.599.5161
www.urscorp.com

Letter of Transmittal

T-8

Louisiana Department of Environmental Quality
7290 Bluebonnette Blvd.
Baton Rouge, LA 70810

Date: January 24, 2001

Job No.: 01518
CFIS # 33815

Attention: Mr. Keith Casanova
Administrator, Remediation Service Division

LADIES/GENTLEMEN:

WE FURNISH YOU HEREWITH THE FOLLOWING:

DESCRIPTION	COPIES	NUMBER	TITLE	REV. NO.	REV. DATE
Reports	3		Remedial Action Plan and Confirmatory Sampling and Analysis Plan for 8006 Jefferson Highway, Baton Rouge, Louisiana		

Remarks: **CFIS# 33815.** Document for LDEQ review and approval. One copy should be forwarded to Mr. Carey Dicharry (LDEQ Site Coordinator).

BY:
Michael E. Neal, Q.E.P., R.E.P.
Program Manager

MEN/ko

Remediation Services Division
Manager: Christy
Team Leader Dicharry
AI #:
TEMPO Task #: 33815
☐ Desk Copy File Room GW

RECEIVED
JAN 26 2001
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG# RS2001-311

REMEDIAL ACTION PLAN
AND
CONFIRMATORY SAMPLING AND ANALYSIS PLAN

FOR

8006 JEFFERSON HIGHWAY
BATON ROUGE, LOUISIANA

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

Remediation Services Division
Manager: Chuotz
Team Leader: Dichaley
AI #. 33815
TEMPO Task #
Desk Copy File Room GW

RECEIVED
JAN 26 2001
L OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG # FY2001-3071

URS TASK NO. 01518
January 2001

URS
Walk Haydel

Envr188:399

REMEDIAL ACTION PLAN
AND
CONFIRMATORY SAMPLING AND ANALYSIS PLAN
FOR
8006 JEFFERSON HIGHWAY
BATON ROUGE, LOUISIANA

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

Prepared By:

G. J. Hymel, P.G

Prepared and Reviewed By:

Michael E. Neal, Q.E.P., P.E.

Reviewed and Approved By:

Ben J. Haney, P.E., Eng. D.

URS TASK NO. 01518

January 2001

WHITNEY NATIONAL BANK
NEW ORLEANS, LOUISIANA

January 2001 **URS Task No. 01518**

REMEDIAL ACTION PLAN
AND
CONFIRMATORY SAMPLING AND ANALYSIS PLAN
FOR
8006 JEFFERSON HIGHWAY
BATON ROUGE, LOUISIANA

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5.0 FIELD SAMPLING ACTIVITIES

6.0 LABORATORY ACTIVITIES

7.0 EVALUATION OF DATA

APPENDIX A FIGURES

Figure 1 Site Vicinity Map

Figure 2 Site Plot Plan with Sampling Locations

Figure 3 Proposed Excavation Areas

APPENDIX B AGENCY CORRESPONDENCE

LDEQ correspondence dated October 19, 2000

APPENDIX C SITE-SPECIFIC HEALTH AND SAFETY PLAN

1.0 INTRODUCTION

1.0 INTRODUCTION

Whitney National Bank (Whitney) of New Orleans, Louisiana currently owns a 4.042-acre tract of land on Jefferson Highway in Baton Rouge, Louisiana (Site). Refer to Figure 1 of Appendix A. The Whitney currently plans to develop the Site for various uses as discussed below. During pre-construction activities in 1997, apparently impacted soils were encountered in the subsurface. Subsequently, the Whitney has performed several environmental investigations and evaluations related to the Site. These evaluations indicated that constituents typical of dry cleaning operations were identified in the subsurface soils and groundwater at the Site. The Whitney has held several meetings with the Louisiana Department of Environmental Quality (LDEQ) to discuss the status of activities at the Site. Based on the results of the Site investigation activities, the LDEQ has concurred that the delineation of soil and groundwater impacts has been accomplished at the Site.

Whitney and LDEQ have agreed to enter into a cooperative agreement under the Voluntary Cleanup Program (VCP) to manage the Site. The VCP provides that partial remedial actions at a given site may be employed where such actions are consistent with the proposed reuse or development of the property, is protective of human health and the environment and allows for Site access by LDEQ. LDEQ has also agreed that a partial remedial action is appropriate for the Site.

The Whitney plans to develop the Site in a manner that is consistent with the proposed VCP provisions. The Site development could include the following:

- A banking center and / or other commercial office space at the north – northwest section of the Site. It is envisioned that this portion of the development would consist of a building(s), parking areas, access to parking areas and "green" space. At present, it is envisioned that a building would be constructed at the north - northwest portion of the Site. The area of the former dry cleaning building would become either green space or be dedicated to parking or access; and

- The rear (west) portion of the Site may be used for multi-family residential dwellings. This portion of the property is undeveloped and unaffected by prior Site developments.

This Remedial Action Plan and Sampling and Analysis Plan (RAP/SAP) is intended to provide an overview of the proposed soil excavation and disposal actions to be undertaken at the Site and the procedures for confirmatory sampling of soils at the Site subsequent to excavation. Excavation is to take place at Site locations, as specified in this document, which have been shown to contain constituent concentrations above LDEQ Risk Evaluation/Corrective Action Program (RECAP) (dated June 20, 2000) Management Option 2 (MO-2) non-industrial remediation standards. To support these activities, the results of a previous MO-2 evaluation for the Site have been included in this document. The objective of the confirmatory sampling program will be to determine if constituents remaining on the Site are below MO-2 standards.

2.0 SUMMARY OF SITE INVESTIGATIONS

2.0 SUMMARY OF SITE INVESTIGATIONS

Several stages of investigations have been conducted at the Site and the adjacent property (8026 Jefferson Highway), between October 1997 and September 2000. A summary of pertinent information from the investigations conducted through March 1999 is provided in the document entitled *Evaluation of Site Data With Regard To The LDEQ Voluntary Cleanup Program, 7976 and 8006 Jefferson Highway, Baton Rouge Louisiana*, dated April 2000. A summary of the most recent investigation (conducted in September 2000) is provided in a letter report dated September 21, 2000. The following sections provide a brief summary of the Site investigation activities. Figure 2, Appendix A, depicts a plot plan of the Site with the various sampling locations.

CRA/G&E Engineering (CRA) performed several stages of site investigations in 1997 and 1998 at the Site. Results of these investigations are summarized in a CRA report (dated October 1998) and indicate that constituents typical of dry cleaning operations are present in soils and groundwater at the Site. The constituents detected include tetrachloroethylene (PCE), trichloroethylene (TCE), 1,2-dichloroethylene and vinyl chloride. Trenching was performed to determine whether the former dry cleaning establishment discharged its effluent to the city of Baton Rouge sanitary sewer system. A connection from the former dry cleaners building foundation and the main sewer line could not be found. However, a septic tank and leach field were encountered.

In September 2000, URS Corporation - Walk Haydel (URS) conducted an investigation to complete the delineation of the extent of groundwater impacts on the Site. Based on the results of this investigation, it was concluded that groundwater impacts on the Site are delineated and that no further site investigation activities are necessary. The LDEQ has concurred with this determination (refer to Appendix B, LDEQ correspondence dated October 19, 2000).

Files

State of Louisiana

Department of Environmental Quality

M.J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

October 18, 2001

Mr. Michael P. Pou
Vice President
Corporate Real Estate
Whitney National Bank
Post Office Box 61260
New Orleans, Louisiana 70161

RE: Acceptance of VRP Remedial Action Summary Report
Agency Interest Name; **AI Number 33815**
8006 Jefferson Highway, Baton Rouge, Louisiana
East Baton Rouge Parish

Dear Mr. Pou :

The Environmental Technology Division of the Louisiana Department of Environmental Quality (ETD-LDEQ) has reviewed the Remedial Action Summary Report outlining the corrective action activities completed at the referenced site. Based on our review of the confirmatory sampling results and witness of the excavation activities performed at the site, the summary report is accepted as complete and in compliance with the Voluntary Remediation Program. In addition to the summary report, the ETD-LDEQ has reviewed and approves the Monitoring and Maintenance Plan (MMP) which will assure that the ground surface remains intact and that no unauthorized development is undertaken on the subject property.

Whitney Bank is authorized to plug and abandon the existing monitoring wells on the subject site. Please forward copies of the Louisiana Department of Transportation and Development monitor well plugging and abandonment forms to my attention upon completion of field activities.

If you have any questions concerning this site, please contact me at 225-765-0624.
Thank you for your cooperation.

Sincerely,

Carey J. Dicharry, Jr., Geologist
Environmental Technology Division

cjd

cc: Tim Knight, Administrator
GW Fileroom

CEI ✓
CSI ✓
Complaint ____
Spill ____
Other ____

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF WATER RESOURCES
WATER POLLUTION CONTROL DIVISION

ID 12464.
LWG-080041
File Location

Log # Reference

FACILITY INSPECTION FORM

INSPECTION DATE: 100595 TIME IN: 0850

COMPANY NAME: Florida Street Carwash, Inc.

FACILITY NAME: Benny's Carwash - Essen Lane

TYPE OF FACILITY: Car wash PHONE #: (504) 769-3311

COMPANY ADDRESS: 5235 Essen Ln, Br, La 70809

FACILITY REPRESENTATIVE: Ben Alford TITLE: Owner

FACILITY LOCATION: 5235 Essen Ln, B.R

Region 8421 PARISH: EBR (17) BASIN/SEGMENT: Lake Pontchartrain 0402 Basin

PERMIT #'S: NPDES: ____ LWDPS: LWG-080041 GP: ____

EFFLUENT	S	OPERATION & MAINTENANCE	S	SAMPLING PROCEDURES	NE
RECORDS AND REPORTS	S	COMPLIANCE SCHEDULE	N/A	LABORATORY PRACTICES	NE
PERMIT VERIFICATION	M	FLOW MEASUREMENTS	NE	OTHER	____

INSPECTOR'S OBSERVATIONS, PROBLEMS, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES:

The Following observations were made:

1) The Facility just opened the carwash in 07/95. The facility will start sampling this quarter as required by their permit.

2) The facility's treatment system is catch basins to an oil/water seperator. The facility discharge to a storm drain then to Bayou Manchac.

3) The facility will sample from the pipe before it enters the storm sewer. The effluent was clear & with out odor.

PHOTOGRAPHS TAKEN: N SAMPLES TAKEN: N FACILITY ACCEPTED SPLIT SAMPLES: N/A

FACILITY F.I.F. COPY RECEIVED BY: SIGNATURE (X) [signature]

TITLE President

TIME OUT: 0930 INSPECTOR'S SIGNATURE AMmasden BC

DEQ/OWR/WPCD-3 (Rev. 09/01/90) WHITE COPY - MAIN OFFICE YELLOW COPY - COMPLIANCE ASSURANCE SECTION PINK COPY - FACILITY REPRESENTATIVE GOLD COPY - REGIONAL OFFICE

E-Right

United States Environmental Protection Agency
Washington, D. C. 20460

EPA

NPDES Compliance Inspection Report

Form Approved
OMB No 2040-0003
Approval Expires 7-31-85

Section A: National Data System Coding

Transaction Code	NPDES	yr/mo/day	Inspection Type	Inspector	Fac Type
1 N 2 5	3 None 11	12 980427 17	18 C	19 S	20 2

Remarks: MINOR WG-080041

Reserved	Facility Evaluation Rating	BI	QA	Reserved
67 69	70 2	71 N	72 N	73 74 75 80

Section B: Facility Data

Name and Location of Facility Inspected	Entry Time	Permit Effective Date
Benny's Carwash 5235 Essen Lane Baton Rouge, LA 70809 EBR Parish	☒ AM ☐ PM 0900	9-13-94
	Exit Time/Date 1010 am 4-27-98	Permit Expiration Date 9-13-99

Name(s) of On-Site Representative(s)	Title(s)	Phone No(s)
Ben Alford Paul Bourgeois	Owner Manager	(504) 927-7181

Name, Address of Responsible Official	Title	
Paul Bourgeois 5235 Essen Lane Baton Rouge, LA 70809	Manager	
	Phone No. (504) 927-7181	Contacted ☒ Yes ☐ No

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, N = Not Evaluated)

S	Permit	N	Flow Measurement	NA	Pretreatment	S	Operations & Maintenance
U	Records/Reports	M	Laboratory	NA	Compliance Schedules	NA	Sludge Disposal
S	Facility Site Review	S	Effluent/Receiving Waters	U	Self-Monitoring Program	NA	Other

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Summary of Findings: L. Pontchartrain Basin / Segment 0402
Region 8421

Records/Reports - unsatisfactory - Sampled only two times in 1997.
Not submitting DMR's

Laboratory: marginal - On chain of custody, containers, preservatives and matrix are not being listed.

Self-monitoring program: unsatisfactory - not monitoring pH, soaps or flow

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone	Date
Pam Tepfenhart Pam Tepfenhart	765-2511 LADEQ/OWR/WQMD/Surveillance	4-30-98

Signature of Reviewer	Agency/Office	Date
Bob Crain	La.D.E.Q./O.W.R./W.Q.M.D.	5-1-98

Regulatory Office Use Only

Action Taken	Date	Compliance Status
		☐ Noncompliance ☐ Compliance

EPA Form 3560-3 (Rev. 3-85) Previous editions are obsolete.

LADEQ/OWR Further Explanation Form

WB-080041
File Location

Log # Reference

INSPECTION DATE: 4-27-98

COMPANY NAME: Florida Street Carwash, Inc.

FACILITY NAME: Benny's Car Wash

A compliance evaluation inspection was conducted at the above named facility. The following observations were made during the inspection:

1. Permit was onsite and current.
2. Facility not monitoring and analyzing pH as per permit.
3. Facility has an oil/water separator.
4. Facility only sampled twice in 1997. There were not any excursions.
5. Facility is not submitting DMR's.
6. On chain of custody, preservatives, type of container and matrix are not being listed.

FACILITY COPY RECEIVED BY: SIGNATURE (X) [signature]

WHITE COPY - MAIN OFFICE
YELLOW COPY - COMPLIANCE SECTION

PINK COPY - FACILITY REPRESENTATIVE
GOLD COPY - REGIONAL OFFICE

PAGE _____ OF _____

Rev.4/97

Revised 7/11/06 ER

INCIDENT REPORT FORM

Received by: Cindy Dispatch # 07-1615 Incident # T 96326 ✓

Date Reported: 5/17/07 Time Reported: 12:25

Spill Incident/Release ☐ Citizen Complaint ☒ Emergency? ☐ Yes ☐ No Drill? ☐ Yes ☐ No

CALLER INFORMATION: Citizen ☒ Industry ☐ Anonymous Complaint ☐
Other (i.e. Coast Guard):

Name/Company: Joe Wilson - BRFD Title:

Address:

Is caller requesting a follow-up call? Yes ☒ No ☐ Date of Caller Contact:

Telephone No. 225-571-0699 Parish (of occurrence): East Baton Rouge

SITE INFORMATION:
Company Name/
Alleged Violator: Agency Interest #
Other:

Location Address: Ward's Creek - Essen Lane Baton Rouge

Site is Active or Inactive:

Date of discharge if different from date report: Time discharge noticed: Began Ended

Media Affected: Air ☐ Land ☐ Surface Water ☒ Ground Water ☐ Other ☐

If water affected, name of nearest water body (Basin/Subsegment):

If air affected, note wind direction and weather conditions (if provided):

DESCRIPTION OF RELEASE/SPILL/COMPLAINT:
Product/material release and quantity (reported):

Product/material released and quantity (actual):

Description of release/complaint: Unknown green material in Ward's Creek - source unknown.

How was spill contained? Offsite Impact?

How was spilled cleaned/remediated?

DIRECTIONS FOR REACHING THE SITE:

Investigator's Comments:

RECEIVED
MAY 19 2007

Region Assigned: CRO - Bob Gillett Summary Report: Yes ☐ No ☐

Investigator Assigned: Date: Time:

Investigator's Signature: Reviewer's Initials & Date:

Date Closed: Closed by: Site Visit ☐ Telephone ☐ Other:

Referred to: Date: Time:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT
Incident ID: 96326

Incident Description

Incident Type: Complaint, Miscellaneous
Incident Date: MAY-17-07 12:25
Parish: East Baton Rouge
Municipality: Baton Rouge
Location: Ward's CreekEssen LaneBaton Rouge
Lat/Lon:
Basin/Segment: 40201
Substance(s):
Media Impacted: Water
Incident Desc: c07-1615Unknown green material in Ward's Creek--source unknown...jd

Incident Status

Lead Investigator: Robert Gillett Robert Gillett BC
Incident Region: Capital
Incident Status: Referred to Enforcement
Followup Status: Referred to Enforcement
As Of: MAY-21-2007 07:56

Incident Reporter

Received By: Cindy Lafosse
Received Date: MAY-17-2007 12:25
Dispatch #: c07-1615
Reported By: Joe Wilson, Other
Phone: 225-571-0699
Reporter Title:
Organization: BRFD
Address:

Municipality:
State: LA
Zip Code:
Comments:

INCIDENT REPORT

Incident ID: 96326

Incident Source

Source Name: Benney's Car Wash LLC - B Quick of Baton Rouge LLC III

Address: 5235 Essen Ln

Municipality: Baton Rouge

State: LA

Phone: 2257693571

Parish: East Baton Rouge

AI #: 87126

Related Permits:

LAG750350

AOCs - Y

Receiving Waters: Bayou Manchac

Comments: Region 8421 Basin: 040201

The inspection was complaint # T96326 related.

1. The treatment system treats water from a car wash.
2. The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.
3. A DMR review revealed that the last DMR turned into our files was in 2001.
4. The discharge water is a green color. There was no smell, no oily sheen and no solids present.
5. Housekeeping at the facility appeared to be satisfactory at the time of the inspection.

Louisiana Department of Environmental Quality
Baton Rouge, LA 70884

LPDES Compliance Inspection Report

Section A: National Data System Coding

Transaction Code	LPDES	Inspection Date	Inspection Type	Inspector	Fac Type
N	LAG750350	07051707	C	S	2

Remarks: AI#87126 MINOR

Inspection Work Days	Facility Evaluation Rating	BI	QA	Reserved
	2	N	N	

Section B: Facility Data

Name and Location of Facility Inspected *(For industrial users discharging to POTW, also include POTW name and LPDES permit number)*

Benny's Car Wash LLC
5235 Essen Ln.
Baton Rouge, LA East Baton Rouge (17)

Entry Time /Date	Permit Effective Date
1445 / 05-17-2007	03-15-2004
Exit Time/Date	**Permit Expiration Date**
1530 / 05-17-2007	03-15-2009

Name(s) of On-Site Representative(s)/Title(s)/Phone and Fax Number(s)
Paul Bourgeois / Staff Engineer

Other Facility Data

Name, Address of Responsible Official/Title/Phone and Fax Number
Paul Bourgeois / Staff Engineer
5235 Essen Lane
Baton Rouge, LA 70808
phone: (225) 253-0081

Contracted: Yes ☒ No ☐

Section C: Areas Evaluated During Inspection

(S = Satisfactory, M = Marginal, U = Unsatisfactory, NE = Not Evaluated, NA = Not Applicable)

S	Permit	NE	Flow Measurement	S	Operations & Maintenance	NA	CSO/SSO
U	Records/Reports	U	Self-Monitoring Program	NA	Sludge Handling/Disposal	NE	Pollution Prevention
M	Facility Site Review	NA	Compliance Schedules	NA	Pretreatment	NA	Multimedia
M	Effluent/Receiving Waters	NE	Laboratory	NE	Storm Water	NE	Other:

Section D: Summary of Findings/Comments (Attach additional sheets if necessary)

Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

The inspection was complaint # T96326 related.

1. **The treatment system treats water from a car wash.**
2. **The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.**
3. **A DMR review revealed that the last DMR turned into our files was in 2001.**
4. **The discharge water is a green color. There was no smell, no oily sheen and no solids present.**
5. **Housekeeping at the facility appeared to be satisfactory at the time of the inspection.**

Name(s) and Signature(s) of Inspector(s)	Agency/Office/Telephone/Fax	Date
Robert Gillett Robert Gillett	LDEQ Office of Compliance / Surveillance (225) 219-3026	05-21-2007
Signature of Reviewer	**Agency/Office/Phone and Fax Numbers**	**Date**
Bob Cram	LDEQ Office of Compliance / Surveillance (225) 219-3619	June 6, 2007

EPA Form 3560-3 (Rev. 8-2002) adopted by LDEQ - Previous editions are obsolete.

LPDES COMPLIANCE INSPECTION REPORT – LIST OF ATTACHMENTS

Facility Name: Benny's Car Wash LLC Permit #: LAG750350

Date of Inspection: 05-17-2007 AI #: 87126

The following attachments are included with this report:

- ☐ A) LPDES Compliance Inspection Report-Further Explanations
- ☐ B) DMR Calculation Check Sheet
- ☐ C) Flow Calculation Sheet
- ☒ D) Field Interview Form
- ☒ E) Photographs
- ☐ F) Written Request to Permittee for Additional Information
- ☐ G) Additional Information Supplied by Permittee
- ☐ H) Laboratory Data Sheet(s)
- ☐ I) Sampling Inspection Field Data Sheet(s)
- ☐ J) Chain of Custody/Sample Record
- ☒ K) Other: Incident Report, Tempo Report

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 87126 INSPECTION DATE: 5/17/07 TIME OF ARRIVAL: 1445

ALTERNATE ID#: ~~LAG750350~~ (ID Type/Number) DEPARTURE DATE: 5/17/07 TIME OF DEPARTURE: 1530

FACILITY NAME: Benny's Car Wash PH #:

LOCATION: 5235 Essen Lane, Baton Rouge

PARISH NAME: East Baton Rouge (17)

RECEIVING STREAM (BASIN/SUBSEGMENT): 04/02/01

MAILING ADDRESS: 5235 (Street/P.O. Box) (City) (State) (ZIP)

FACILITY REPRESENTATIVE: Paul Bourgeois TITLE: Staff Eng.

FACILITY REPRESENTATIVE PHONE NUMBER:

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above):

INSPECTION TYPE: CEI PROGRAM INVOLVED: AIR WASTE (WATER) OTHER

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

The inspection was complaint # T96326 related. Car wash system is a loop system that is controled by computers. Computer next door causing four times more water to be used in operation. Dye in operation causes a green color to water discharge. As soon as computer is back on line, discharge will return to normal.

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		(YES) NO
		YES NO

PHOTOS TAKEN: ☑ YES ☐ NO SAMPLES TAKEN: ☐ YES ☑ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: Paul B

PRINT NAME: Paul Bourgeois

(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): Robert Hilbert CROSS REFERENCE:

ATTACHMENTS:

REVIEWER: Bob Crain

NOTE: The Information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

Site Benny's Car Wash LLC Location: 5235 Essen Lane
AI # 87126; LAG750350
City: Baton Rouge Parish: East Baton Rouge Photographer Robert Gillett

Photo #: 1 of 5 Date: 05-17-2007 Time: 1338
Description:

LAG750350
AOCs - Y
Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

The inspection was complaint # T96326 related.

1. The treatment system treats water from a car wash.
2. The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.
3. A DMR review revealed that the last DMR turned into our files was in 2001.
4. The discharge water is a green color. There was no smell, no oily sheen and no solids present.
5. Housekeeping at the facility appeared to be satisfactory at the time of the inspection.

Photo #: 2 of 5 Date: 05-17-2007 Time: 1338
Description:

LAG750350
AOCs - Y
Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

The inspection was complaint # T96326 related.

1. The treatment system treats water from a car wash.
2. The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.
3. A DMR review revealed that the last DMR turned into our files was in 2001.
4. The discharge water is a green color. There was no smell, no oily sheen and no solids present.
5. Housekeeping at the facility appeared to be satisfactory at the time of the inspection.

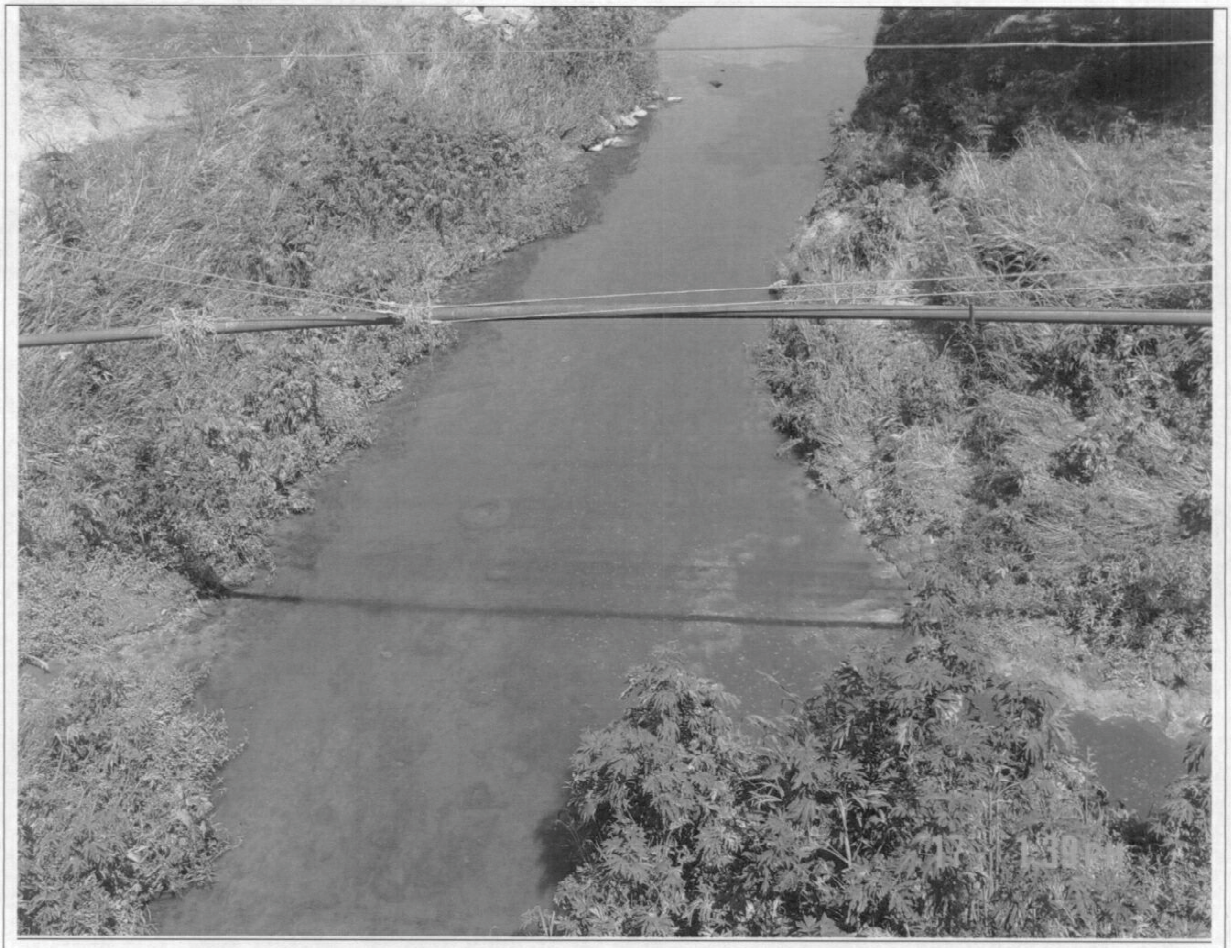

Photo #: 3 of 5 Date: 05-17-2007 Time: 1339
Description:

LAG750350
AOCs - Y
Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

The inspection was complaint # T96326 related.

1. The treatment system treats water from a car wash.
2. The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.
3. A DMR review revealed that the last DMR turned into our files was in 2001.
4. The discharge water is a green color. There was no smell, no oily sheen and no solids present.
5. Housekeeping at the facility appeared to be satisfactory at the time of the inspection.

Photo #: 4 of 5 Date: 05-17-2007 Time: 1339
Description:

LAG750350
AOCs - Y
Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

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LAG750350
AOCs - Y
Receiving Waters: Bayou Manchac
Region 8421 Basin: 040201

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INCIDENT REPORT FORM

Hob 6.

Received by: Carla Dispatch # C07-1949 Incident # T 97087

Date Reported: 6/14/07 Time Reported: 9:50

Spill Incident/Release ☐ Citizen Complaint ☒ Emergency? ☐ Yes ☐ No Drill? ☐ Yes ☐ No

CALLER INFORMATION: Citizen ☐ Industry ☐ Anonymous Complaint ☒

Other (i.e. Coast Guard):

Name/Company: Title:

Address:

Is caller requesting a follow-up call? Yes ☐ No ☐ Date of Caller Contact:

Telephone No. Parish (of occurrence): EBR

SITE INFORMATION:

Company Name/ Alleged Violator: Benny's Car Wash Agency Interest # Other:

Location Address: Essen Lane, BR

Site is Active or Inactive:

Date of discharge if different from date report: Time discharge noticed: Began Ended

Media Affected: Air ☐ Land ☐ Surface Water ☒ Ground Water ☐ Other

If water affected, name of nearest water body (Basin/Subsegment): Ward's Creek to Manchac to Maurepas to Lake Pontchatrain

If air affected, note wind direction and weather conditions (if provided):

DESCRIPTION OF RELEASE/SPILL/COMPLAINT:

Product/material release and quantity (reported):

Product/material released and quantity (actual):

Description of release/complaint: A degreaser & possibly a tire cleaner (bright green in color) being put in drain & emptying into water bodies.

How was spill contained? Offsite Impact?

How was spilled cleaned/remediated?

DIRECTIONS FOR REACHING THE SITE:

Investigator's Comments:

Region Assigned: CRO/Crain Summary Report: Yes ☐ No ☐

Investigator Assigned: Date: Time:

Investigator's Signature: Reviewer's Initials & Date:

Date Closed: Closed by: Site Visit ☐ Telephone ☐ Other:

Referred to: Date: Time:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT
Incident ID: 97087

Incident Description

Incident Type:	Complaint, Miscellaneous
Incident Date:	JUN-14-07 09:50
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	Benny's Car WashEssen LaneBaton Rouge
Lat/Lon:	
Basin/Segment:	40201
Substance(s):	
Media Impacted:	Water
Incident Desc:	c07-1949A degreaser & possibly a tire cleaner (bright green in color) being put in drain and emptying into water...jd

Incident Status

Lead Investigator:	Robert Gillett
Incident Region:	Capital
Incident Status:	Referred to Enforcement
Followup Status:	Referred to Enforcement
As Of:	JUN-21-2007 08:57

Incident Reporter

Received By:	Judy Desselle
Received Date:	JUN-14-2007 09:50
Dispatch #:	c07-1949
Reported By:	Anonymous
Phone:	
Reporter Title:	
Organization:	
Address:	
Municipality:	
State:	
Zip Code:	
Comments:	

INCIDENT REPORT

Incident ID: 97087

Incident Source

Source Name: Benney's Car Wash LLC - B Quick of Baton Rouge LLC III
Address: 5235 Essen Ln

Municipality: Baton Rouge
State: LA
Phone: 2257693571
Parish: East Baton Rouge
AI #: 87126
Related Permits:

LAG750350
AOCs - Y
Receiving Waters: Wards Creek to Bayou Manchac
Comments: Region 8421 Basin: 040201

The inspection was complaint # T97087 related.

1. The treatment system treats water from a car wash.
2. The facility has a permit to discharge commingled treated vehicle wash and sanitary wastewater totaling less than 25,000 gallons per day.
3. A DMR review revealed that the last DMR turned into our files was in 2001.
4. The discharge water is a green color. There was no smell, no oily sheen and no solids present.
5. Housekeeping at the facility appeared to be satisfactory at the time of the inspection.

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

EDMS
Cory
Dawn

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

October 18, 2012

CERTIFIED MAIL (7004 2510 0005 5767 7459)
RETURN RECEIPT REQUESTED

BENNY'S CARWASH, L.L.C.
c/o Lloyd B. Alford
Registered Agent
9611 B Airline Highway
Baton Rouge, LA 70815

RE: CONSOLIDATED COMPLIANCE ORDER
& NOTICE OF POTENTIAL PENALTY
ENFORCEMENT TRACKING NO. WE-CN-12-00525
AGENCY INTEREST NOS. 87126 & 151794

Dear Sir:

Pursuant to the Louisiana Environmental Quality Act (La. R.S. 30:2001, et seq.), the attached **CONSOLIDATED COMPLIANCE ORDER & NOTICE OF POTENTIAL PENALTY** is hereby served on **BENNY'S CARWASH, L.L.C. (RESPONDENT)** for the violations described therein.

Compliance is expected within the maximum time period established by each part of the **COMPLIANCE ORDER**. The violations cited in the **CONSOLIDATED COMPLIANCE ORDER & NOTICE OF POTENTIAL PENALTY** could result in the issuance of a civil penalty or other appropriate legal actions.

Any questions concerning this action should be directed to Cory Lormand at (225) 219-3135.

Sincerely,

Celena J. Cage
Administrator
Enforcement Division

CJC/ccl
Alt ID Nos. LAG750350 & LAG750612
Attachment

e-copy: DHH/Office of Public Health

c: Justin Alford, Benny's Carwash, LLC

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

OFFICE OF ENVIRONMENTAL COMPLIANCE

IN THE MATTER OF	*	
	*	
BENNY'S CARWASH, L.L.C.	*	**ENFORCEMENT TRACKING NO.**
EAST BATON ROUGE PARISH	*	
ALT ID NOS. LAG750350 & LAG750612	*	**WE-CN-12-00525**
	*	
	*	**AGENCY INTEREST NOS.**
PROCEEDINGS UNDER THE LOUISIANA	*	
ENVIRONMENTAL QUALITY ACT,	*	**87126 & 151794**
La. R.S. 30:2001, ET SEQ.	*	

CONSOLIDATED
COMPLIANCE ORDER & NOTICE OF POTENTIAL PENALTY

The following **CONSOLIDATED COMPLIANCE ORDER & NOTICE OF POTENTIAL PENALTY** is issued to **BENNY'S CARWASH, L.L.C. (RESPONDENT)** by the Louisiana Department of Environmental Quality (the Department), under the authority granted by the Louisiana Environmental Quality Act (the Act), La. R.S. 30:2001, et seq., and particularly by La. R.S. 30:2025(C), 30:2050.2 and 30:2050.3(B).

FINDINGS OF FACT

I.

The Respondent owns and/or operates Benny's Car Wash - Essen Lane (AI 151794) located at 5235 Essen Lane in Baton Rouge, East Baton Rouge Parish, Louisiana. The Respondent was granted coverage under the Louisiana Water Discharge Permit System (LWDPS) General Permit Number WG080000 on or about September 13, 1994, and was specifically assigned permit number WG-080041. The permit expired on July 19, 1995, and was not administratively extended. On or about July 18, 2007, the Department received a Notice of Intent (NOI) from the Respondent to discharge exterior vehicle and equipment wash wastewater. The Respondent was granted coverage under the Louisiana Pollutant Discharge Elimination System (LPDES) General Permit LAG750000 on or about July 24, 2007, and was specifically assigned permit number LAG750612. The permit expired on March 14, 2009, and was administratively extended until the general permit was reissued. LPDES General Permit LAG750612

was reissued to the Respondent on or about June 12, 2009, and will expire on March 14, 2014. Under the terms and conditions of LPDES General Permit LAG750612, the Respondent is authorized to discharge treated exterior vehicle wash wastewater to Ward's Creek, waters of the state.

II.

Inspections conducted by the Department on or about May 17, 2007, and June 20, 2007, at Benny's Car Wash - Essen Lane (AI 151794) in response to citizen's complaints, and a subsequent file review conducted by the Department on July 23, 2012, revealed that the Respondent failed to submit a Notice of Intent (NOI) or application for discharges from the facility and caused and/or allowed the following unauthorized discharges to waters of the state:

A. The file review revealed that the Department submitted a letter to the Respondent dated March 5, 1999, that indicated the LWDPS general permit issued to the facility expired on July 19, 1995, and that authorization under an LPDES permit was required for any continuing discharges at the facility. However, the Respondent continued to submit quarterly DMRs after the LWDPS general permit expired, which indicated discharges had occurred from October 2006 through December 2006 and January 2007 through March 2007. At the time of the inspections, the Respondent caused and/or allowed the discharge of treated wastewater to Ward's Creek that was bright green in color, containing no smell, oily sheen, or solids. Correspondence from the Respondent dated July 18, 2007, indicated that upon notification of the complaint, the Respondent immediately discontinued use of the product containing the green dye and returned to a previously used product. The Respondent was not authorized to discharge from the facility until LPDES General Permit LAG750612 was issued to the Respondent on July 24, 2007. Each unauthorized discharge to waters of the state is a violation of La. R.S. 30:2075. The inspections further revealed that the discharge of green colored wastewater resulted in an objectionable color to Wards Creek, waters of the state. Each discharge that results in an objectionable color to waters of the state is a violation of La. R.S. 30:2076(A)(3), LAC 33:IX.1113.B.1.c, and LAC 33:IX.1113.B.2.a

B. The file review also revealed that the Respondent failed to submit a Notice of Intent (NOI) or application for obtaining a LPDES permit for the discharges from the facility to waters of the state cited in Paragraph II.A, which is a violation of La. R.S. 30:2076(A)(3) and LAC 33:IX.2501.

III.

An inspection conducted by the Department on or about January 30, 2012, at Benny's Car Wash – Essen Lane (AI 151794) in response to a citizen's complaint, revealed the following:

A. The Respondent caused and/or allowed the discharge of a pollutant not authorized by LPDES General Permit LAG750612. Specifically, the Respondent used a red dye in the carwash, which remained visible in the wastewater discharged through Outfall 001. LPDES General Permit LAG750612 does not authorize the discharge of the red dye in

the wastewater from the facility. Each discharge of a pollutant not authorized by LPDES General Permit LAG750612 is a violation of La. R.S. 30:2076(A)(3) and LAC 33:IX.501.C. The discharge of the red wastewater resulted in an objectionable color to Wards Creek, waters of the state. Each discharge that results in an objectionable color to waters of the state is a violation of La. R.S. 30:2076(A)(3), LAC 33:IX.1113.B.1.c, and LAC 33:IX.1113.B.2.a.

B. The inspection also revealed that visible foam in greater than trace amounts was discharged from the carwash via Outfall 001 into Wards Creek, waters of the state. Each discharge of visible foam in greater than trace amounts is a violation of LPDES General Permit LAG750612 (Page 9 of 16 and Part III, Section A.2), La. R.S. 30:2076(A)(3), and LAC 33:IX.501.A.

IV.

An inspection conducted by the Department on or about January 30, 2012, at Benny's Car Wash – Essen Lane (AI 151794), and a subsequent file review conducted by the Department on or about July 23, 2012, revealed the following exceedances of permitted discharge limitations as reported by the Respondent on Discharge Monitoring Reports (DMRs):

Monitoring Period	Outfall	Parameter	Permit Limit	Reported Value
04/2007-06/2007	001	CBOD[1] (Daily Maximum)	300 mg/L	665 mg/L
		Oil & Grease	15 mg/L	50.4 mg/L
01/2007-03/2007	001	CBOD (Daily Maximum)	300 mg/L	776 mg/L
		TSS[2] (Daily Maximum)	45 mg/L	490 mg/L
		Oil & Grease	15 mg/L	41 mg/L
10/2007-12/2007	001	CBOD (Daily Maximum)	300 mg/L	479 mg/L
		TSS (Daily Maximum)	45 mg/L	6,443 mg/L
		Oil & Grease	15 mg/L	39.4 mg/L
		TSS (Daily Maximum)	45 mg/L	3,097 mg/L*
04/2008-06/2008	001	CBOD (Daily Maximum)	300 mg/L	614 mg/L
		TSS (Daily Maximum)	45 mg/L	101 mg/L
		Oil & Grease	15 mg/L	19.7 mg/L
07/2008-09/2008	001	CBOD[1] (Daily Maximum)	300 mg/L	1,796 mg/L
		Oil & Grease	15 mg/L	38.3 mg/L
10/2008-12/2008	001	CBOD (Daily Maximum)	300 mg/L	402 mg/L
		TSS (Daily Maximum)	45 mg/L	94.4 mg/L
		Oil & Grease	15 mg/L	61.1 mg/L
01/2009-03/2009	001	CBOD (Daily Maximum)	300 mg/L	519 mg/L
		TSS (Daily Maximum)	45 mg/L	77.6 mg/L
		Oil & Grease	15 mg/L	54.4 mg/L

Monitoring Period	Outfall	Parameter	Permit Limit	Reported Value
04/2009-06/2009	001	CBOD (Daily Maximum)	300 mg/L	527 mg/L
		TSS (Daily Maximum)	45 mg/L	57.5 mg/L
		Oil & Grease	15 mg/L	24.5 mg/L
		CBOD (Daily Maximum)	300 mg/L	519 mg/L*
		TSS (Daily Maximum)	45 mg/L	49 mg/L*
		Oil & Grease	15 mg/L	24.3 mg/L*
07/2009-09/2009	001	CBOD (Daily Maximum)	300 mg/L	430mg/L
		CBOD (Daily Maximum)	300 mg/L	406 mg/L*
10/2009-12/2009	001	CBOD (Daily Maximum)	300 mg/L	309 mg/L
		Oil & Grease	15 mg/L	44.2 mg/L
		CBOD (Daily Maximum)	300 mg/L	307 mg/L*
		Oil & Grease	15 mg/L	17.3 mg/L*
01/2010-03/2010	001	CBOD (Daily Maximum)	300 mg/L	358 mg/L
		TSS (Daily Maximum)	45 mg/L	176 mg/L
		Oil & Grease	15 mg/L	15.5 mg/L
		CBOD (Daily Maximum)	300 mg/L	322 mg/L*
		TSS (Daily Maximum)	45 mg/L	82.7 mg/L*
04/2010-06/2010	001	CBOD (Daily Maximum)	300 mg/L	575 mg/L
		TSS (Daily Maximum)	45 mg/L	4,736 mg/L
		CBOD (Daily Maximum)	300 mg/L	456 mg/L*
		TSS (Daily Maximum)	45 mg/L	123 mg/L*
07/2010-09/2010	001	pH (maximum)	9.0 Standard Units	9.1 Standard Units
10/2010-12/2010	001	TSS (Daily Maximum)	45 mg/L	178 mg/L
		TSS (Daily Maximum)	45 mg/L	60.3 mg/L*
01/2011-03/2011	001	TSS (Daily Maximum)	45 mg/L	77.7 mg/L
		TSS (Daily Maximum)	45 mg/L	52.7 mg/L*
04/2011-06/2011	001	CBOD (Daily Maximum)	300 mg/L	450 mg/L
		TSS (Daily Maximum)	45 mg/L	62 mg/L
		Oil & Grease	15 mg/L	20 mg/L
		CBOD (Daily Maximum)	300 mg/L	390 mg/L*
		Oil & Grease	15 mg/L	16 mg/L*
10/2011-12/2011	001	CBOD (Daily Maximum)	300 mg/L	46 mg/L
		TSS (Daily Maximum)	45 mg/L	410 mg/L
		Oil & Grease	15 mg/L	18 mg/L
		CBOD (Daily Maximum)	300 mg/L	320 mg/L*
		TSS (Daily Maximum)	45 mg/L	130 mg/L*
		Oil & Grease	15 mg/L	20 mg/L*

Monitoring Period	Outfall	Parameter	Permit Limit	Reported Value
01/2012-03/2012	001	CBOD (Daily Maximum)	300 mg/L	350 mg/L
		TSS (Daily Maximum)	45 mg/L	130 mg/L
		Oil & Grease	15 mg/L	19 mg/L
		CBOD (Daily Maximum)	300 mg/L	340 mg/L*
		TSS (Daily Maximum)	45 mg/L	70 mg/L*

[1] Chemical Oxygen Demand (COD) [2] Total Suspended Solids (TSS)
* Reported on Noncompliance Reports.

Each exceedance of a permitted discharge limitation prior to June 12, 2009, is a violation of LPDES General Permit LAG750612 (Part I, Section B, Page 6 of 16 and Part III, Section A.2), La. R.S. 30:2076(A)(3), and LAC 33:IX.501.A. Each exceedance of a permitted discharge limitation after June 12, 2009, is a violation of LPDES General Permit LAG750612 (Section B, Page 8 of 16 and Part III, Section A.2), La. R.S. 30:2076(A)(3), and LAC 33:IX.501.A.

V.

A file review conducted by the Department on or about July 23, 2012, of Benny's Car Wash – Essen Lane (AI 151794) revealed that the Respondent failed to submit DMRs in a timely manner. Specifically, the Respondent submitted DMRs for the April 2007 – June 2007 through January 2012 – March 2012 quarterly monitoring periods with a signature date of May 31, 2012. The Respondent is required to submit DMRs on a quarterly basis no later than the 28th day of the month following each quarterly monitoring period. The most recent of these DMRs was due by April 28, 2012. In addition, a consulting firm for the Respondent submitted a letter dated May 31, 2012, indicating that these and other DMRs were being submitted with the letter. Therefore, the DMRs were received after the due dates. Each failure to submit DMRs in a timely manner is a violation of LPDES General Permit LAG750612 (Page 16 of 16 and Part III, Sections A.2 and D.4), La. R.S. 30:2076(A)(3), and LAC 33:IX.2701.L.4.

VI.

The Respondent owns and/or operates a carwash, B-Quik of Baton Rouge Number Three (AI 87126), located at 4105 Perkins Road in Baton Rouge, East Baton Rouge Parish, Louisiana. The Respondent was granted coverage under the Louisiana Pollutant Discharge Elimination System (LPDES) General Permit LAG750000 on or about February 2, 2001, and was specifically assigned permit number LAG750350. The permit expired on June 30, 2003, but was administratively extended until the general permit was reissued. LPDES General Permit LAG750350 was reissued to the Respondent on or about May 7, 2004, and expired on March 14, 2009, but was administratively

extended until the general permit was reissued. LPDES General Permit LAG750350 was reissued to the Respondent on or about June 12, 2009, and will expire on March 14, 2014. Under the terms and conditions of LPDES General Permit LAG750350, the Respondent is authorized to discharge treated exterior vehicle wash wastewater from the facility through local drainage, thence to Dawson Creek, all waters of the state.

VII.

A file review conducted by the Department on or about July 23, 2012, of B-Quik of Baton Rouge Number Three (AI 87126) revealed the following exceedances of permitted discharge limitations as reported by the Respondent on Discharge Monitoring Reports (DMRs):

Monitoring Period	Outfall	Parameter	Permit Limit	Reported Value
01/2006 – 03/2006	001	COD (Daily Maximum)	300 mg/L	307.64 mg/L
		TSS (Daily Maximum)	45 mg/L	96 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	20 mg/L
10/2006-12/2006	001	TSS (Daily Maximum)	45 mg/L	262 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	82 mg/L
01/2007 – 03/2007	001	COD (Daily Maximum)	300 mg/L	476 mg/L
		TSS (Daily Maximum)	45 mg/L	57 mg/L
04/2007-06/2007	001	TSS (Daily Maximum)	45 mg/L	96.3 mg/L
		COD (Daily Maximum)	300 mg/L	405 mg/L
07/2007-09/2007	001	TSS (Daily Maximum)	45 mg/L	103 mg/L
		COD (Daily Maximum)	300 mg/L	368 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	52.8 mg/L
10/2007-12/2007	001	TSS (Daily Maximum)	45 mg/L	242 mg/L
		COD (Daily Maximum)	300 mg/L	418 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	21.6 mg/L
04/2008-06/2008	001	TSS (Daily Maximum)	45 mg/L	67.6 mg/L
		COD (Daily Maximum)	300 mg/L	662 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	44.9 mg/L
10/2008-12/2008	001	TSS (Daily Maximum)	45 mg/L	62.5 mg/L
		COD (Daily Maximum)	300 mg/L	474 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	37.2 mg/L
		TSS (Daily Maximum)	45 mg/L	50 mg/L*
		COD (Daily Maximum)	300 mg/L	367 mg/L*
		Oil & Grease (Daily Maximum)	15 mg/L	18.2 mg/L*
01/2009-03/2009	001	TSS (Daily Maximum)	45 mg/L	73.3 mg/L
		COD (Daily Maximum)	300 mg/L	426 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	45.6 mg/L

Monitoring Period	Outfall	Parameter	Permit Limit	Reported Value
07/2009-09/2009	001	TSS (Daily Maximum)	45 mg/L	50 mg/L
01/2010-03/2010	001	TSS (Daily Maximum)	45 mg/L	160 mg/L
		COD (Daily Maximum)	300 mg/L	529 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	25.9 mg/L
		TSS (Daily Maximum)	45 mg/L	55.4 mg/L*
		COD (Daily Maximum)	300 mg/L	454 mg/L*
		Oil & Grease (Daily Maximum)	15 mg/L	18.6 mg/L*
04/2010-06/2010	001	TSS (Daily Maximum)	45 mg/L	148 mg/L
		COD (Daily Maximum)	300 mg/L	469 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	20.6 mg/L
		TSS (Daily Maximum)	45 mg/L	79.3 mg/L*
		COD (Daily Maximum)	300 mg/L	444 mg/L*
10/2010-12/2010	001	COD (Daily Maximum)	300 mg/L	448 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	17.5 mg/L
01/2011-03/2011	001	TSS (Daily Maximum)	45 mg/L	213 mg/L
		COD (Daily Maximum)	300 mg/L	922 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	137 mg/L
		pH (maximum)	9.0 Standard Units	9.23 Standard Units
		TSS (Daily Maximum)	45 mg/L	149 mg/L*
		COD (Daily Maximum)	300 mg/L	373 mg/L*
		Oil & Grease (Daily Maximum)	15 mg/L	19.3 mg/L*
04/2011-06/2011	001	COD (Daily Maximum)	300 mg/L	620 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	29 mg/L
		COD (Daily Maximum)	300 mg/L	310 mg/L*
		Oil & Grease (Daily Maximum)	15 mg/L	22 mg/L*
07/2011-09/2011	001	COD (Daily Maximum)	300 mg/L	490 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	22 mg/L
		COD (Daily Maximum)	300 mg/L	340 mg/L*
		Oil & Grease (Daily Maximum)	15 mg/L	20 mg/L*
10/2011-12/2011	001	Oil & Grease (Daily Maximum)	15 mg/L	24 mg/L
		Oil & Grease (Daily Maximum)	15 mg/L	22 mg/L*
01/2012-03/2012	001	TSS (Daily Maximum)	45 mg/L	89 mg/L
		COD (Daily Maximum)	300 mg/L	370 mg/L
		TSS (Daily Maximum)	45 mg/L	79 mg/L*
		COD (Daily Maximum)	300 mg/L	340 mg/L*

* Reported on Noncompliance Reports

Each exceedance of a permitted discharge limitation prior to June 12, 2009, is a violation of LPDES General Permit LAG750350 (Part I, Section B, Page 6 of 16; Part II, Section E; and Part III, Section

A.2), La. R.S. 30:2076(A)(3), and LAC 33:IX.501.A. Each exceedance of a permitted discharge limitation after June 12, 2009, is a violation of LPDES General Permit LAG750350 (Section B, Page 8 of 16 and Part III, Section A.2), La. R.S. 30:2076(A)(3), and LAC 33:IX.501.A.

VIII

A file review conducted by the Department on or about July 23, 2012, of B-Quik of Baton Rouge Number Three (AI 87126) revealed that the Respondent failed to submit DMRs in a timely manner. Specifically, the Respondent submitted DMRs for the April 2007 – June 2007 through January 2012 – March 2012 quarterly monitoring periods with a signature date of May 31, 2012. The Respondent is required to submit DMRs on a quarterly basis no later than the 28th day of the month following each quarterly monitoring period. The most recent of these DMRs was due by April 28, 2012. In addition, a consultant firm for the Respondent submitted a letter dated May 31, 2012, indicating that these and other DMRs were being submitted with the letter. Therefore, the DMRs were received after the due dates. Each failure to submit DMRs in a timely manner is a violation of LPDES General Permit LAG750350 (Page 16 of 16 and Part III, Sections A.2 and D.4), La. R.S. 30:2076(A)(3), and LAC 33:IX.2701.L.4.

COMPLIANCE ORDER

Based on the foregoing, the Respondent is **hereby ordered**:

I.

To cease, immediately upon receipt of this **COMPLIANCE ORDER**, any unauthorized discharges from the facility to waters of the state.

II.

To take, immediately upon receipt of this **COMPLIANCE ORDER**, any and all steps necessary to meet and maintain compliance with the Water Quality Regulations and the permit limitations and conditions contained in LPDES General Permits LAG750350 and LAG750612, including, but not limited to, allowing a discharge that affects the natural aesthetics of waters of the state and submitting DMRs in a timely manner.

III.

To submit to the Enforcement Division, within thirty (30) days after receipt of this **COMPLIANCE ORDER**, a written report that includes a detailed description of the circumstances surrounding the cited violations and actions taken or to be taken to achieve compliance with the Order

Portion of this **COMPLIANCE ORDER**. This report and all other reports or information required to be submitted to the Enforcement Division by this **COMPLIANCE ORDER** shall be submitted to:

Office of Environmental Compliance
Post Office Box 4312
Baton Rouge, Louisiana 70821-4312
Attn: Cory Lormand
Re: Enforcement Tracking No. WE-CN-12-00525
Agency Interest Nos. 87126 & 151794

THE RESPONDENT SHALL FURTHER BE ON NOTICE THAT:

I.

The Respondent has a right to an adjudicatory hearing on a disputed issue of material fact or of law arising from this **COMPLIANCE ORDER**. This right may be exercised by filing a written request with the Secretary no later than thirty (30) days after receipt of this **COMPLIANCE ORDER**.

II.

The request for an adjudicatory hearing shall specify the provisions of the **COMPLIANCE ORDER** on which the hearing is requested and shall briefly describe the basis for the request. This request should reference the Enforcement Tracking Number and Agency Interest Number, which are located in the upper right-hand corner of the first page of this document and should be directed to the following:

Department of Environmental Quality
Office of the Secretary
Post Office Box 4302
Baton Rouge, Louisiana 70821-4302
Attn: Hearings Clerk, Legal Division
Re: Enforcement Tracking No. WE-CN-12-00525
Agency Interest Nos. 87126 & 151794

III.

Upon the Respondent's timely filing a request for a hearing, a hearing on the disputed issue of material fact or of law regarding this **COMPLIANCE ORDER** may be scheduled by the Secretary of the Department. The hearing shall be governed by the Act, the Administrative Procedure Act (La. R.S. 49:950, et seq.), and the Department's Rules of Procedure. The Department may amend or supplement this **COMPLIANCE ORDER** prior to the hearing, after providing sufficient notice and an opportunity for the preparation of a defense for the hearing.

IV.

This **COMPLIANCE ORDER** shall become a final enforcement action unless the request for hearing is timely filed. Failure to timely request a hearing constitutes a waiver of the Respondent's right to a hearing on a disputed issue of material fact or of law under Section 2050.4 of the Act for the violation(s) described herein.

V.

The Respondent's failure to request a hearing or to file an appeal or the Respondent's withdrawal of a request for hearing on this **COMPLIANCE ORDER** shall not preclude the Respondent from contesting the findings of facts in any subsequent penalty action addressing the same violation(s), although the Respondent is estopped from objecting to this **COMPLIANCE ORDER** becoming a permanent part of its compliance history.

VI.

Civil penalties of not more than twenty-seven thousand five hundred dollars ($27,500) for each day of violation for the violation(s) described herein may be assessed. For violations which occurred on August 15, 2004, or after, civil penalties of not more than thirty-two thousand five hundred dollars ($32,500) may be assessed for each day of violation. The Respondent's failure or refusal to comply with this **COMPLIANCE ORDER** and the provisions herein will subject the Respondent to possible enforcement procedures under La. R.S. 30:2025, which could result in the assessment of a civil penalty in an amount of not more than fifty thousand dollars ($50,000) for each day of continued violation or noncompliance.

VII.

For each violation described herein, the Department reserves the right to seek civil penalties in any manner allowed by law, and nothing herein shall be construed to preclude the right to seek such penalties.

NOTICE OF POTENTIAL PENALTY

I.

Pursuant to La. R.S. 30:2050.3(B), you are hereby notified that the issuance of a penalty assessment is being considered for the violation(s) described herein. Written comments may be filed regarding the violation(s) and the contemplated penalty. If you elect to submit comments, it is requested that they be submitted within ten (10) days of receipt of this notice.

II.

Prior to the issuance of additional appropriate enforcement action(s), you may request a meeting with the Department to present any mitigating circumstances concerning the violation(s). If you would like to have such a meeting, please contact Cory Lormand at (225) 219-3135 within ten (10) days of receipt of this **NOTICE OF POTENTIAL PENALTY.**

III.

The Department is required by La. R.S. 30:2025(E)(3)(a) to consider the gross revenues of the Respondent and the monetary benefits of noncompliance to determine whether a penalty will be assessed and the amount of such penalty. Please forward the Respondent's most current annual gross revenue statement along with a statement of the monetary benefits of noncompliance for the cited violation(s) to the above named contact person within ten (10) days of receipt of this **NOTICE OF POTENTIAL PENALTY.** Include with your statement of monetary benefits the method(s) you utilized to arrive at the sum. If you assert that no monetary benefits have been gained, you are to fully justify that statement.

IV.

This **CONSOLIDATED COMPLIANCE ORDER & NOTICE OF POTENTIAL PENALTY** is effective upon receipt.

Baton Rouge, Louisiana, this 18 day of October, 2012.

Cheryl Sonnier Nolan
Assistant Secretary
Office of Environmental Compliance

Copies of a request for a hearing and/or related correspondence should be sent to:

Louisiana Department of Environmental Quality
Office of Environmental Compliance
Enforcement Division
P.O. Box 4312
Baton Rouge, LA 70821-4312
Attention: Cory Lormand

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INTRA-AGENCY ROUTING FORM

TO: Enforcement Division

FROM: Surveillance Division

Routing Date: 03-02-2012

RECEIVED
MAR 0 2 2012
Office of
Environmental Compliance

Facility Information

Company Name: (Benny's Car Wash)

Facility Site Name: (Benny's Car Wash)

Agency Interest No: (151794) | **Alt. AI No:** (LAG750612)

Mailing Address:	**Physical Address:**
Street: 9611B Airline Highway	**Street** 5235 Essen Lane
City, State, Zip: Baton Rouge, LA 70816	**City, Parish** Baton Rouge, (EBR Parish)

Responsible Party/Contact Person: (Paul Bourgeois)

Responsible Party/Contact Person Telephone No: **(225) 262-9198**

Inspection/Referral Information

(Inspection Date: (1/30/2012) | Hours Spent On Inspection/Report: | 16

Media: Check all that apply

Air (inc. asbestos/lead):	☐	(Water:	(☒)	Haz. Waste:	☐	Risk MPs:	☐	Remediation:	☐
Solid Waste (inc. tires):	☐	UST:	☐	Radiation:	☐	Stage 1 & 2:	☐		

Complaint? (☒ Yes) ☐ No	**Follow up?** ☐ Yes ☐ No	*If yes*
		Enforcement Action Number

Inspector/Team Leader Name: (Mary David)

Inspector/Team Leader Contact No.: (225) 219-3343

Approved By:		**Date:**	
Circuit Rider Review:		**Date**	

Revised 10/27/2009

Basis for Routing (check all that apply)			
Areas of Concern: ☒		**Contamination Above RECAP:** ☐	
☐ **Conveyance Notice Only**		**TEMPO Task ID No:**	**INS20120001**
Other: ☐	Please Explain:		

Additional Information: *This section should state the specific reason for the referral, actions that have been taken by the referring division and supporting documentation. This section should also provide sufficient discussion and/or documentation for the Division receiving the referral to take action including documentation of events leading to the referral and company contact information.*

LAC 33:IX.501.A -- Facility has not submitted DMRs for period of review beginning July 2007 to December 2011.

LAC 33LIX.501.C -- Discharging red water and foam to Ward's Creek; frequent exceedences for COD, TSS, Oil and Grease, and 1 pH exceedence on DMRs; period of review: January 2010 through December 2011.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 151794 INSPECTION DATE: 1/30/12 TIME OF ARRIVAL: 915 AM
ALTERNATE ID#: LAG750612 (ID Type/Number) DEPARTURE DATE: 1/30/12 TIME OF DEPARTURE: 1150 AM
FACILITY NAME: Benny's Car Wash-Essen PH #: 225 769-3511
LOCATION: 5235 Essen Lane, Baton Rouge 70809
PARISH NAME: EBR
RECEIVING STREAM (BASIN/SUBSEGMENT): Wards Creek
MAILING ADDRESS: 9611-B Airline Hwy (Street/P.O. Box) Baton Rouge (City) LA (State) 70815 (ZIP)
FACILITY REPRESENTATIVE: Paul Bourgeois TITLE: Chemical Tech
FACILITY REPRESENTATIVE PHONE NUMBER: 262-9198 (cell)
NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above): same

INSPECTION TYPE: Complaint T136808 PROGRAM INVOLVED: AIR WASTE (WATER) OTHER

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

Inspected facility in response to Red Water discharge from storm drain @ Essen & Wards Creek. Facility is currently not discharging. Outfall pipe (green) was inspected and had a reddish tint, low flow. Reclaim tank inspected also had reddish tint. Facility not sure what caused this incident. Operations have not changed. Suspect may be older dye they were using & may have been more concentrated @ bottom of drum. However,

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES NO
		YES NO

PHOTOS TAKEN: [X] YES [ ] NO SAMPLES TAKEN: [X] YES [ ] NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: [signature]

PRINT NAME: Paul Bourgeois

(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): Mary David mary.david@la.gov
Sean Darensbourg

CROSS REFERENCE:

ATTACHMENTS:

REVIEWER:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM OBSERVATIONS (cont'd)

FACILITY ID#:_____ INSPECTION DATE: 1/30/12

FACILITY NAME: Benny's Car Wash - Essen

INSPECTOR OBSERVATIONS CONT:

Visual inspection by Mr. Bourgeois did not indicate any problems with the dye.
Records review to July 2007 from EDMS revealed no DMRs on file submitted to LDEQ. DMRs & Analytical Data are kept @ main office on Airline.

Received copies of DMRs from A&E Labs - DMRs reviewed for period January 2010 - December 2011. Facility Samples Quarterly & has been resampling when they are over permit limits. During period had 7 COD, 11 TSS, 5 Oil & Grease & 1 pH Exceedence.

Collected COD sample from outfall 001 & field parameters.

pH	7.41
Temp	20.11
DO	3.83
DO%	42%
Conductivity	393.9

POTS

INITIALS OF RECEIPT_____

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INSPECTOR OBSERVATIONS (cont'd)

AGENCY INTEREST#: 151794 **ALTERNATE ID#:** LAG750612 **INSPECTION DATE:** 1/30/12

FACILITY NAME: Benny's Car Wash

INSPECTOR OBSERVATIONS CONT'd:

After departing the car wash, inspectors went to the Essen Lane canal by Tire Kingdom, the site of the pinkish-colored water leaving the facility through the storm drain into the Ward's Creek Area. A COD sample was taken at 12:10pm and hydrolab readings were taken as well.

LDO% - 83.0
LDO - 8.08
pH - 7.49
Sal - 0.25
Sp Cond - 491.1
Temp - 17.07

Sample results from COD samples returned to DEQ. The following results were noted:
1) Sample from Benny's Car Wash: 160 mg/l
2) Sample from Ward's Creek on Essen Lane: 250 mg/l

INITIALS OF RECEIPT_____

Facility Name: Benny's Car Wash – Essen Lane
City: Baton Rouge Parish: EBR
Date: 1/30/2012 Reason: Incident

AI: 151794
Photographer: S. Darensbourg
Other ID #: LAG750612

Photo #: 1 of 10 Time: 8:55 AM
Description: Ward's Creek by the Mall of Louisiana – clear. No red water detected.

Photo #: 2 of 10 Time: 9:05 AM
Description: Ward's Creek by Tire Kingdom on Essen Lame – dye dissipates when hitting

Facility Name: Benny's Car Wash – Essen Lane
City: Baton Rouge Parish: EBR
Date: 1/30/2012 Reason: Incident

AI: 151794
Photographer: S. Darensbourg
Other ID #: LAG750612

Photo #: 3 of 10 Time: 9:07 AM
Description: Close-up of the dyed water with foam.

Photo #: 4 of 10 Time: 9:08 AM
Description: Red dye-colored water breaking up after hitting the creek.

Facility Name: Benny's Car Wash – Essen Lane AI: 151794
City: Baton Rouge Parish: EBR Photographer: S. Darensbourg
Date: 1/30/2012 Reason: Incident Other ID #: LAG750612

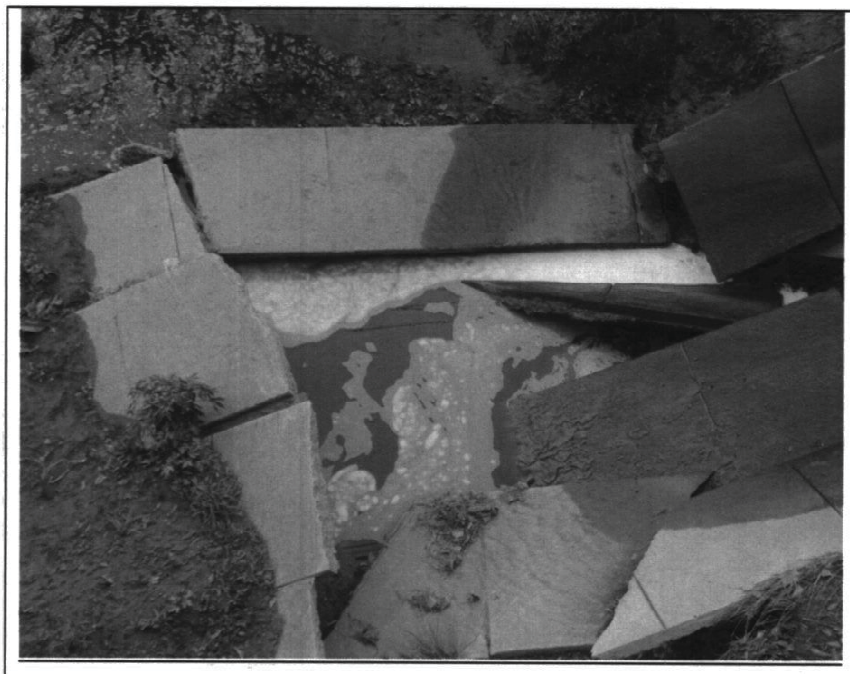


Photo #: 5 of 10 Time: 9:09 AM
Description: Red dye-mixed water with foam in area of ditch.

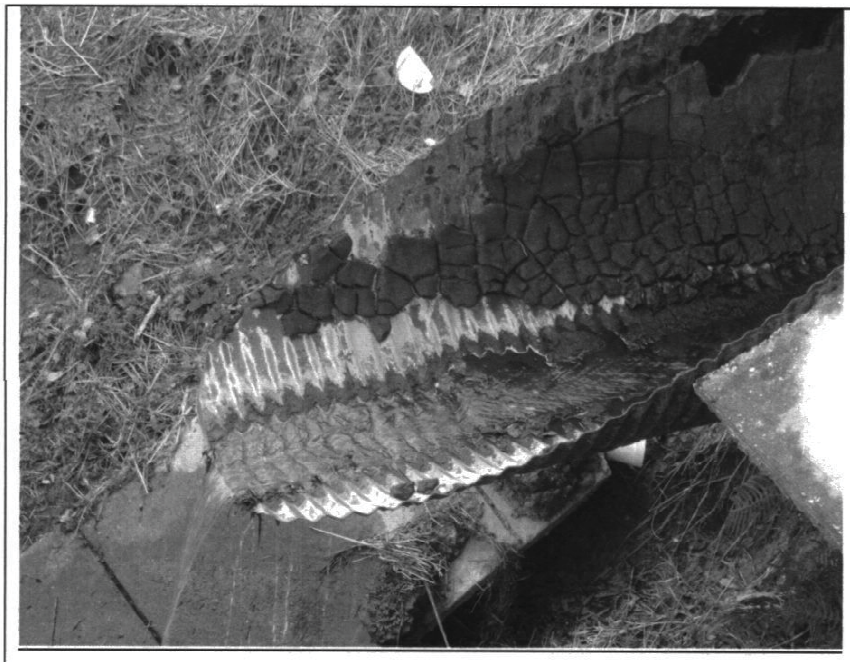


Photo #: 6 of 10 Time: 9:10 AM
Description: Pipe the affected water comes out of – pinkish hue; seen in pipe.

Facility Name: Benny's Car Wash – Essen Lane
City: Baton Rouge Parish: EBR
Date: 1/30/2012 Reason: Incident

AI: 151794
Photographer: S. Darensbourg
Other ID #: LAG750612

Photo #: 7 of 10 Time: 9:10 AM
Description: Close-up of water as it leaves the pipe

Photo #: 8 of 10 Time: 9:40 AM
Description: Discharge pipes at Benny's Car Wash.

Facility Name: Benny's Car Wash – Essen Lane
City: Baton Rouge Parish: EBR
Date: 1/30/2012 Reason: Incident

AI: 151794
Photographer: S. Darensbourg
Other ID #: LAG750612

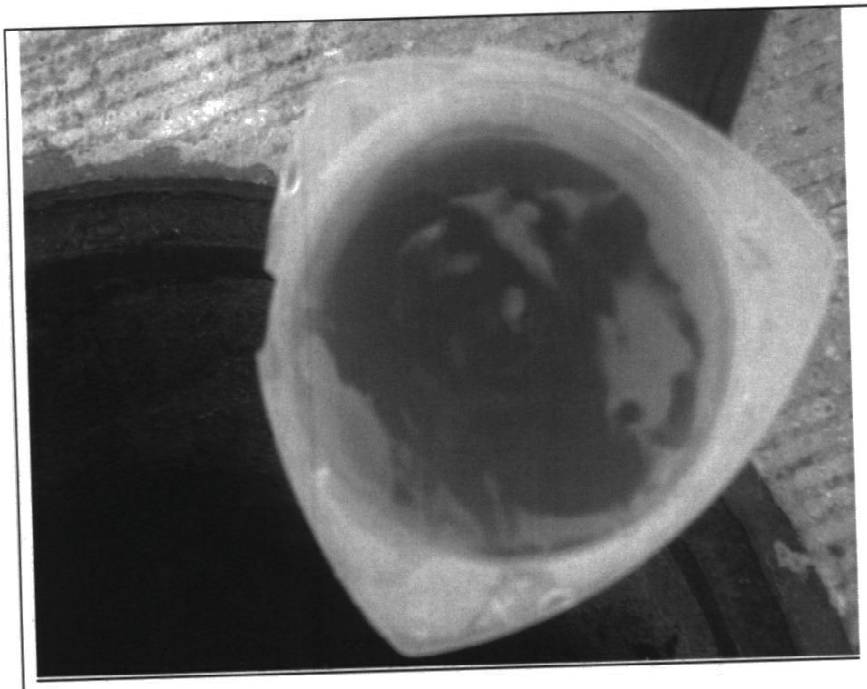


Photo #: 9 of 10 Time: 9:42 AM
Description: Scooped from discharge of pipe.

Photo #: 10 of 10 Time: 10;46 AM
Description: Water after dye added to it – appears light to darkish shade of pink.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 151794 INSPECTION DATE: 01-30-12 TIME OF ARRIVAL: 1415 hrs.

ALTERNATE ID#: LAG 750612 (ID Type/Number) DEPARTURE DATE: 01-30-12 TIME OF DEPARTURE: 1705 hrs.

FACILITY NAME: Benny's Car Wash - Essen PH #: (225) 769-3514

LOCATION: 5235 Essen Lane, Baton Rouge, LA 70809

PARISH NAME: EBR (17)

RECEIVING STREAM (BASIN/SUBSEGMENT): Ward's Creek; 040201

MAILING ADDRESS: 9611-B Airline Hwy. (Street/P.O. Box) Baton Rouge (City) LA (State) 70815 (ZIP)

FACILITY REPRESENTATIVE: Paul Bourgeois TITLE: Chemical Tech.

FACILITY REPRESENTATIVE PHONE NUMBER: (262-9198 (cell)

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above): Same

INSPECTION TYPE: Complaint T136808 PROGRAM INVOLVED: AIR WASTE WATER OTHER

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

Arrived at facility in order to observe oil/water separator pump out and flushing of the wash bay drain. Approximately 5,149 gallons of liquid and 25 gallons of mud were removed. Facility has been shut down - not washing. There was no discharge from Outfall 001. Facility resumed operations after pump out. Coloring will not be used. Water in ditch to Ward's Creek remained red in appearance.

Ward's Creek was revisited on 01-31-12. Red coloration of water in WTP

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES NO
		YES NO

PHOTOS TAKEN: ☒ YES ☐ NO SAMPLES TAKEN: ☐ YES ☒ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE:

PRINT NAME:

(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): William J. Paisseger (225) 219-3321 CROSS REFERENCE:

ATTACHMENTS:

REVIEWER:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM OBSERVATIONS (cont'd)

FACILITY ID#: 151794 INSPECTION DATE: 01-30-12

FACILITY NAME: Benny's Car Wash - Essen

INSPECTOR OBSERVATIONS CONT:

ditch to Ward's Creek persisted. Benny's Outfall 001 discharge was clear in appearance. An adjacent facility stormwater pipe was discharging light pink water. Duration of the stormwater discharge was short. The slab around the Oil/water separator had been recently washed down in an attempt to remove spilled dye. Washwater entered storm drains that normally receive rain water and was discharged via the above mentioned pipe. This inspector advised Mr. Justin Alford, facility owner, to attempt to remove remaining dye discoloration without letting washwater enter the stormwater drainage system.

INITIALS OF RECEIPT_____

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 136808

Incident Description

Incident Type:	Complaint, Muddy Water
Incident Date:	1/28/2012 14:20:00
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	Intersection of Essen Lane @ Ward Creek N/B Lane of Essen Lane - Baton Rouge
Lat/Lon:	
Basin/Segment:	
Substance(s):	Dye and Soap
Media Impacted:	Water
Incident Desc:	c12-0211 Caller was out yachting and saw this reddish liquid pouring into the creek --JB

Incident Status

Lead Investigator:	Ziad Fahd
Incident Region:	Capital
Incident Status:	Pending Review
Followup Status:	Pending Review
As Of:	1/31/2012 00:00:00

Incident Reporter 1

Received By:	Spo Contact
Received Date:	1/30/2012 13:35:00
Dispatch #:	c12-0211
Reported By:	Jonathan Scott
Phone:	225-773-3902 (Work phone number)
Reporter Title:	
Organization:	
Address:	
Municipality:	
State:	LA
Zip Code:	
Comments:	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 136808

Incident Source 1

Source Name: Benny's Car Wash - Essen Full Service
Address: 5235 Essen Ln

Municipality: Baton Rouge
State: LA
Phone:

Parish: East Baton Rouge
AI #: 151794
Related Permits:

Comments: Responded in person
01/28/2012

At approximately 3:11 pm, Jan 28, 2012, Ms Carey called stating that the city police referred a citizen complaint regarding a discharge of red blood fluids into a ditch. I contacted the person who initiated the call for the discharge, Mr. Johnthen Scott, (225) 773-3902. He stated that while he was by Tire Kingdom off Essen Lane across from Mary Bird clinic, he observed a flow of red ¿ blood-in color into the ditch below wood Creek bridge. He added that the flow was in the rate of 20 gallon per minute. I drove to the site and observed that there was a flow of light red to brownish-transmission fluid- in texture fluids coming from a drainage manhole sewage pipe and pouring into the ditch causing a whit soapy foams at a corner of the ditch. I spoke to a mechanic who is employed by Tire Kingdom, didn¿t give his name, who stated that such discharge was not common and he never known if such discharge has ever happened before. I drove to Benny Car wash (about half a mile from the bridge) and spoke to Mr. Al Ortego, Claim Manager, who walked with me to the bridge and observed the discharge. He stated that all their waste from car washing is contained and stored on site, and any soapy foam is not from their car wash facility, and all transmission fluids waste are kept in storage and maintained. He mentioned that there was a construction site on the Mary Bird ground that he learned they did wash brown dirt of their site on number of occasion.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 136808

Incident Source 2

Source Name:

Address:

Municipality:

State:

Phone:

Parish:

AI #:

Related Permits:

Comments:

I drove to that site and spoke to Mr. Troy Dlughsh, Site Manager (Womack-Dunn Construction) 281-960-5110, site general manager, who stated that their discharge of brown dirt goes to a manhole that is parallel to the discharge that is going on. I drove around most of the streets around that bridge looking for any suspicious site but, couldn¿t link the discharge to anyplace, and didn¿t see any work that may have any connection to the discharge. Photos were taken of the discharge and will be attached to this report. Investigation was ended approximately at 530 pm. ZF

Update 01/29/2012
Responded in person

MEt with Peter Ricca at the discharge point. Examined Benny's Car Wash and was unable to determine origin of the discharge. ZF

ENGINEERING
ASSOCIATES, INC.
CONSULTING ENGINEERS
CIVIL • ENVIRONMENTAL • LAND SURVEYING

May 31, 2012

Project No. 12104-A

Ms. Celena Cage, Administrator
Enforcement Division
Louisiana Department of Environmental Quality
P.O. Box 4312
Baton Rouge, LA 70821-4312

RECEIVED
MAY 31 2012
Office of
Environmental Compliance

RE: Red Dye Incident
Benny's Car Wash
5235 Essen Lane
Baton Rouge, Louisiana

Dear Ms. Cage:

Engineering Associates is pleased to provide you with a brief summary of the details surrounding a red dye incident associated with the captioned site. This summary is in follow-up to a May 2, 2012 meeting with members of your staff and Benny's Car Wash personnel.

On January 29, 2012, Benny's Car Wash (Benny's) was advised by Louisiana Department of Environmental Quality (LDEQ) personnel that a possible release of red dye had occurred at their Essen Lane facility. The incident was originally reported to the LDEQ by a passerby who observed a red discoloration in Ward's Creek. Ward's Creek is located approximately one-half mile north of the Benny's site.

Immediately upon notification by the LDEQ, Benny's discontinued all car wash operations beginning at approximately 5:00 pm on January 29, 2012. The facility remained closed for over 24 hours until the four oil/water separators located on the Benny's site were completely evacuated of all liquids and residual sediment. All internal sumps, pumps, piping connections, etc., were also inspected by Benny's personnel and no mechanical or piping concerns were identified. Benny's disconnected all dyes from the car wash facility prior to placing the facility back into service on January 30, 2012.

On January 31, 2012, Engineering Associates personnel mobilized to the site for the purpose of inspecting the subsurface storm drainage system extending along Essen Lane from the Benny's site to Ward's Creek. At that time, the water in Ward's Creek exhibited a pinkish-red coloration immediately adjacent to a storm drainage pipe discharging into the creek from Essen Lane. The discharge from the pipe was also observed to be pinkish in color at that time.

C:\05-12\12104A\cage.053112

Engineering Associates and Benny's personnel inspected all accessible manholes/catch basins between the Benny's site and Ward's Creek. The discharge from the Benny's site was also inspected at a point immediately downstream and adjacent to the site's oil/water separators. No discoloration of the discharge water was observed at any location other than at the storm drainage pipe discharging into Ward's Creek. Whereas the pinkish color in the discharge water to Ward's Creek and the discoloration of the creek water itself was not present during a subsequent inspection, it is presumed that residual quantities of dye were present in the subsurface drainage system on the day of our initial site visit.

In spite of extensive efforts to identify any "upset" condition that may have caused this incident, Benny's has been unable to definitively indentify any such condition. Benny's is of the opinion that the facility was provided with a drum of overly concentrated red dye by its supplier, resulting in inadequate dilution of the dye.

A copy of the Material Safety Data Sheet for the red dye used at Benny's Car Wash was provided to LDEQ personnel during our May 2, 2012 meeting and is attached hereto. Please note that the dye is water soluble and contains no surfactants or characteristics that are considered to be harmful to human health or the environment. Notwithstanding the absence of chemical concerns related to the dye, Benny's has indefinitely discontinued the use of all dyes at the site pending ongoing conversations with its supplier and implementation of additional environmental safety measures.

It is our understanding that foam was also reported to have been observed in the discharge to Ward's Creek in conjunction with this incident. No foam was observed in the discharge from the site in conjunction with our site inspections. In addition, samples of the discharge from the Benny's site and of the water in Ward's Creek itself were collected by LDEQ personnel on January 30, 2012 and were analyzed for chemical oxygen demand (COD). The COD concentration in the water in Ward's Creek was reported to be 250 mg/l and the COD in the discharge from the Benny's site was reported to be 160 mg/l. As such, it does not appear that water exhibiting excessively high COD concentrations was being discharged from the Benny's site. It should be noted that storm water discharges from multiple sites other than Benny's enter the subsurface storm drainage system prior to discharging into Ward's Creek.

Benny's is continuing to monitor its discharges closely to ensure that the discharge is free from discoloration and any other potential concerns. Activities that have been implemented by Benny's in this regard include:

(1) Engineering Associates has been contracted to assist with the review of past permit exceedances at the site and implementation of any required remedial measures. In conjunction with this task, Engineering Associates is submitting historic Discharge Monitoring Reports and a summary of permit excursions for the site to the LDEQ under separate cover.

LDEQ-EDMS Document 8420478, Page 3 of 6

(2) Benny's has identified a new dye and surfactant supplier and is working with the supplier to ensure that no incidents of this type recur in the future. In the interim, the use of all dyes have been discontinued at the site.

(3) Benny's has implemented the use of a "Daily Checklist Sheet" (attached). The checklist ensures that the discharge from the site is inspected on a daily basis for the presence of discoloration or other concerns.

(4) Benny's is in the process of installing a "reclaim system" at the site at a cost of approximately $50,000. The reclaim system will provide additional treatment of discharge water prior to discharge and will also facilitate the recycling/reuse of a significant percentage of the water used on the site, thereby minimizing the quantity of discharge from the site.

We appreciate your assistance and the assistance of your staff in this matter. Should you have any questions or require additional information, please give me a call or Mr. Justin Alford of Benny's at 225-214-7904.

Sincerely,

ENGINEERING ASSOCIATES, INC.

Stephen J. Burnham, P.E.
President

SJB:db

C Mr. Justin Alford, Benny's Car Wash, L.L.C.
Mr. Tyler Ginn, Louisiana Department of Environmental Quality

C:\05-12\12104A\cage.053112

PERMITTEE NAME/ADDRESS

NCR

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM *(NPDES)*
DISCHARGE MONITORING REPORT *(DMR)*

RECEIVED
MAY 31 2012
Office of
Environmental Compliance

NAME Paul Bourgeois
ADDRESS 9611 B Airline Highway
Baton Rouge, LA 70815

FACILITY Benny's Car Wash-Essen (AI No. 151794)
LOCATION 5235 Essen Lane
Baton Rouge, LA

(2-16)	(17-19)
LAG750612	001
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
11	01	01	11	03	31

NO DISCHARGE [ ]

PARAMETER (32-37)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	(54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	(46-53) AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW	SAMPLE MEASUREMENT	30,282	30,282						0	1/3 MONTHS	ESTIMATE
	PERMIT REQUIREMENT	REPORT	REPORT	GPD						1/3 MONTHS	ESTIMATE
TSS	SAMPLE MEASUREMENT						77.7	mg/L	2	2/3 MONTHS	GRAB
	PERMIT REQUIREMENT						45			1/3 MONTHS	GRAB
COD	SAMPLE MEASUREMENT						268	mg/L	0	1/3 MONTHS	GRAB
	PERMIT REQUIREMENT						300			1/3 MONTHS	GRAB
OIL & GREASE	SAMPLE MEASUREMENT						7.8	mg/L	0	1/3 MONTHS	GRAB
	PERMIT REQUIREMENT						15			1/3 MONTHS	GRAB
pH	SAMPLE MEASUREMENT				8.76		8.76	SU	0	1/3 MONTHS	GRAB
	PERMIT REQUIREMENT				6.0		9.0			1/3 MONTHS	GRAB
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Paul Bourgeois/
Maintenance Supervisor

TYPED OR PRINTED

I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THE SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, THE INFORMATION SUBMITTED IS, TO THE BEST OF MY KNOWLEDGE AND BELIEF, TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT FOR KNOWING VIOLATIONS.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MO	DAY
225	769-3511	12	5	31

COMMENT AND EXPLANATION OF ANY VIOLATIONS *(Reference all attachments here)*

See attached Non-Compliance Report for explanation of violations

Computer Reproduction EPA Form 3320-1

12104Admr0111

LDEQ-EDMS Document 8422906, Page 1 of 2

NON-COMPLIANCE REPORT

Facility Name: Benny's Car Wash-Essen
Permit No.: LAG750612
Period: January-March, 2011
Outfall 001
Authorized Signature/Date: 5/31/12

Type of Violation	Permit Limit	Date of Violation	Duration of Violation	Cause of Violation	Corrective Action
TSS (52.7 mg/L)	45 mg/L	01/13/11	Unknown	Excessive solids	The oil/water separators are cleaned on a quarterly basis. This issue is being monitored closely in the event that more frequent cleaning and/or performance of additional activities is necessary.
TSS (77.7 mg/L)	45 mg/L	01/31/11	Unknown	Excessive solids	The oil/water separators are cleaned on a quarterly basis. This issue is being monitored closely in the event that more frequent cleaning and/or performance of additional activities is necessary.

LDEQ-EDMS Document 8422906, Page 2 of 2

PETROLEUM LABORATORIES, INC.

333 East Kaliste Saloom Road
Lafayette, Louisiana 70508
337-234-7414

109 Cleveland Street
Houma, Louisiana 70363
985-868-4820

Company: BENNY'S CAR WASH
9611B Airline Hwy
Baton Rouge, LA 70815

Attn: Mr. Paul Bougeois

Report Date: 05/26/06

Location: Essen Lane

Lab No: LBP-0294
Regulatory

LELAP Certificate #:01968

Wastewater Analysis

Sample Data:

Location: Outfall 001 - Resample
Sample Date/Time: 05-15-06 / 0750hrs.
Sampled By: Nadine Champagne
Sample Received: 05-15-06 / 1425

Laboratory Data:

Parameter - units	Method	Analyst	Analysis Date/Time	Results
Total Suspended Solids - mg/l	SM 2540-D	K. Lafleur	05-19/0945	406

Quality Assurance/Quality Control Data:

Parameter - units	Certified Value	Obtained Value	Recovery %	Acceptance Limits %	Matrix Spike % Recovery	Matrix Spike Duplicate % Recovery
Total Suspended Solids - mg/l	75	75	100.	85-115	92	92

RECEIVED
MAY 26 2006
OFFICE OF
ENVIRONMENTAL COMPLIANCE
ENFORCEMENT DIVISION

SM=Standard Methods for the Examination of Water and Wastewater, 18th ed.

Attest: Allison Spurs

109 Cleveland Street
Houma, LA 70363
(985) 868-4820

PETROLEUM LABORATORIES, INC.

CHAIN OF CUSTODY

333 E. Kaliste Saloom Rd.
Lafayette, LA 70508
(337) 234-7414

Company: Benny's Carwash - Essen
Phone Number: 225-769-3511
Field / Sample Point: 001- Resample
☑ Regulatory ☐ Non-Regulatory

Sample Date	Sample Time	Comp	Grab	Sample Location / Identification	Matrix (W = Water, SL = Sludge, S = Soil, O = Other)	Number of Containers	Bottle (P = Plastic, G = Glass, S = Sterilized, V = 40 mL Vial)	Size (1 = 1 Liter, 4 = 4 oz., 6 = 6 oz., 8 = 8 oz., 16 = 16 oz.)	Preservation (0 = None, 1 = Hydrochloric, 2 = Nitric, 3 = Sulfuric, 4 = Phosphoric)	Analysis Requested: TSS	FOR OFFICE USE ONLY: CONDITION OF SAMPLES UPON RECEIPT AT LAB — PLI LAB NUMBER	pH - s.u.	Temp - °C
5/15/06	0750		✓	Out Fall 001	W	1	P	1	0	✓	LBP-0294		

Sampler (s) (Print)	1. Relinquished By:	Date:	Time:	2. Received By:	Date:	Time:
NC	[signature]	5-15-06	0800	Nadine Champagne	5-15-06	0800
	3. Relinquished By: Nadine Champagne	5-15-06	1425	4. Received By:	Date:	Time:
	5. Relinquished By:	Date:	Time:	6. Received for Laboratory: [signature]	Date: 5-15-06	Time: 1425

Turn-Around Time
Normal Service
☐ 3 - 5 Days
Rush Service
☐ 24 Hrs ☐ 48 Hrs

Date Results To:

Invoice To:

Sample Remarks:

White = Lab Copy Yellow = Return with Lab Report Pink = Client Copy

LDEQ-EDMS Document 3452321, Page 2 of 2

State of Louisiana

Department of Environmental Quality

Edwin W. Edwards
Governor

Kai David Midboe
Secretary

To: Prospective Applicants for a CARWASH GENERAL PERMIT

Attached is a Carwash Wastewater Discharge Permit Application (GP-CW).

To be considered complete, every item on the form must be addressed and the certification on the last page signed by an authorized agent of your company. If an item does not apply to your operation, please enter "NA" (for not applicable) to show that you considered the question. The original and two copies should be submitted.

Three copies of a Location Map (one for each copy of the application form) such as a U.S.G.S. Quadrangle Map or equivalent must be provided. On each copy must be marked the following.

a) the location of each treatment facility
b) the discharge point(s)
c) the path of the effluent from the discharge point to the receiving State waters (a named waterbody)

For existing facilities, Effluent Concentration Data as requested in the application form must be provided for each discharge point. For facilities not yet operating, this should be estimated based on your knowledge of similar operations.

The Louisiana Supreme Court has ruled that the Department of Environmental Quality has the constitutional responsibility to act as the Public Trustee for protecting the natural resources and environment of the State from pollution. According to the Court, these responsibilities require the Department to go beyond its rules and regulations "to see that the environment would be protected to the fullest extent possible consistent with health, safety and welfare of the People". Under this decision, the Department must consider alternative projects, alternate site or mitigation measures, and qualify the environmental costs and weigh them against the costs and economic benefits of the project before any permit can be issued. To assist the Department in fulfilling these obligations, you are requested to complete the Environmental Impact Questionnaire and attach a copy to each copy of the permit application you submit.

Three copies (one original and two copies) of your completed application, each with a marked U.S.G.S. Quadrangle map or equivalent and effluent testing results attached, should be submitted to:

Department of Environmental Quality
Office of Water Resources
Post Office Box 82215
Baton Rouge, Louisiana 70884-2215
Attention: Permits Section

If you have not already applied for an NPDES (Federal EPA) permit for this facility, please do so as soon as possible. Application forms can be obtained from and should be returned to Ms. Jenaie Franke (6W-PS) of the U.S. Environmental Protection Agency, Region VI, Allied Bank Tower, 1445 Ross Avenue, Dallas, Texas 75202, 214-655-7190.

You should also be aware that according to L.R.S. 48:385 any discharge to a highway ditch, cross ditch, or right-of-way shall require approval from the Louisiana Department of Transportation and Development, Office of Highways, Post Office Box 44245, Baton Rouge, Louisiana 70804 and from the Department of Health and Hospitals, Office of Health Services and Environmental Quality, Post Office Box 60630, New Orleans, Louisiana, 70160.

After review of the application, this office will issue written notification to those applicants who are accepted for coverage under this general permit.

If you have any questions, please contact the Permits Section of this Office at (504)765-0525.

Sincerely,

Jim Delahoussaye

Jim Delahoussaye
Acting Permits Program Manager
Office of Water Resources

JD:DGB

Attachment

NOTE - 3 Copies of

the 1)APPLICATION FORM, 2)LOCATION MAP and 3)EFFLUENT DATA are required for all types of operations. Any other information needed for your facility will be specified in the application form itself.

Proposed

Form GP-CW

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Water Pollution Control Division
Post Office Box 82215
Baton Rouge, Louisiana 70884-2215

PERMIT APPLICATION TO DISCHARGE WASTEWATER FROM CARWASHES

PLEASE TYPE OR PRINT CLEARLY

SECTION I

GENERAL INFORMATION

Date of Application: 9. 9. 94

Is this an initial permit application or a permit renewal? INITIAL

Does this facility have an NPDES Permit? NO

If it does, what is the permit number? N/A

If it does not, has one been applied for? NO

Has this facility ever had a water discharge permit issued by this office? NO

If so, what was the permit number? N/A

Has the applicant for this permit ever had a water discharge permit issued by this office for another facility? Yes

If so, what was the facility's name and permit number? WG 080008
LA. St. CAR WASH INC.

Has this facility ever had a permit from any other DEQ Division (Air, Hazardous, or Nuclear)? NO

If so, what was the permit number? N/A

Are there any discharges from this facility other than wastewater from the carwash facility (such as sanitary wastewater)? NO

Is this a proposed facility? Yes

If so, what is the anticipated date of start-up? MARCH 1995

What is the date by which this permit is needed? TODAY 9.5.94

Form GP-CW

SECTION II

FACILITY INFORMATION

1. **Company Name:** FLORIDA ST. CARWASH INC
   Mailing Address: 9607 AIRLINE HWY
   B.R. LA. 70815

2. **Facility Name:** BENNY'S CARWASH (ESSEN)
   Mailing Address: SAME

3. **Facility Location (NOT a Post Office Box)**
   Street address (or some other verbal description): 5235 ESSEN LANE
   Town: B.R. LA 70808
   Parish: E.B.R.

4. **Attach to this application a sketch of the carwash showing the number of bays, location of the treatment system, the receiving stream and any adjoining highways or streets. Drawings of the proposed treatment system, with dimensions, must also be submitted (Drawings can be on 8-1/2" x 11" paper).**

5. **Federal tax #** 720793646 **(nine digit #)**

Form GP-CW

SECTION III

CONTACT PEOPLE

1. **Owner**

   Name: Ben Alford

   Address: 9607 Airline
   B.R. La 70815

   Telephone Number: ( ) 504 927-7181

2. **Contact person completing the application**

   Name: Same

   Address: N/A

   Telephone Number: ( )

3. **Contact person for billing information:**

   Name: Same

   Address: N/A

   Telephone Number: ( )

Form GP-CW

SECTION IV

LABORATORY RESULTS

Provide a measurement of the following effluent characteristics. If this is an existing facility, laboratory reports must be submitted along with this application.

Characteristics	Results
Flow (gpd)*	
BOD_5 (mg/l)	
TSS (mg/l)	
Oil & Grease (mg/l)	
NH_3-N (mg/l)	
PO_4-P (mg/l)	
pH (standard units)	

Not Built Yet

* How was the flow calculated? _____

_____

MATERIAL SAFETY DATA SHEETS

You must submit Material Safety Data Sheets for all the chemicals used in the wash operation.

Form GP-CW

SECTION V

MAP

The following map MUST be provided and on it must be marked the following:

1. Location Map - Must be a U.S.G.S. Quadrangle Map or Equivalent
   On it show:
   a) the location of the treatment facility
   b) the discharge point
   c) the effluent pathway into receiving waters

SECTION VI

TREATMENT

1. Provide a description of the treatment facility including the collection system, type of treatment, and handling of waste materials (both prior to treatment and those materials remaining after treatment).

2500 GALLON TANK with oil Separator with dames & Aerated

2. Name the receiving waters that the effluent from this treatment facility will enter.

Washwater into Storm drain then to the Ward's creek

3. Does this treatment unit receive wastewater from any sources other than the carwash facility?

No

If so, list the sources and amounts: N/a

ENVIRONMENTAL IMPACT QUESTIONNAIRE

There is no requirement that the information furnished in response to this questionnaire be certified by a professional engineer or other expert. However, a measured response should be given for each question posed, taking into consideration appropriate factors such as: the environmental sensitivity of the area, both for the proposed site and alternative sites; impacts on the economy of the area, both favorable and unfavorable; availability of raw materials, fuels and transportation and the impact of potential sites on their availability and economics; relationship of the facility to other facilities, either within or independent of the company, and the effects of location on these relationships; and other factors which may be appropriate on a case-by-case basis.

1. Have the potential and real adverse environmental effects of the proposed facility been avoided to the maximum extent possible?

   yes

2. Does a cost benefit analysis of the environmental impact costs balanced against the social and economic benefits of the proposed facility demonstrate that the latter outweighs the former? yes, To & 's customers, Service

3. Are there alternative projects which would offer more protection to the environment than the proposed facility without unduly curtailing nonenvironmental benefits? NO

4. Are there alternative sites which would offer more protection to the environment than the proposed facility site without unduly curtailing nonenvironmental benefits? NO

5. Are there mitigating measures which would offer more protection to the environment than the facility as proposed without unduly curtailing nonenvironmental benefits? NO

DEPARTMENT OF ENVIRONMENTAL QUALITY

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

May 18, 2007

Gulf Coast Testing, Inc.
17170 Perkins Road
Baton Rouge, LA 70810

Attention: Nelle Fruge', Agent for **Burbank and Lee Investors, LLC**

RE: Water Quality Certification (DH 061219-01/AI 147712/CER 20060001)
Corps of Engineers Permit (MVN-2006-2344-CZ)
East Baton Rouge Parish **Multi-use Development**

Dear Ms. Fruge':

We have received your response to the Department's letters of January 3, 2007, and April 18, 2007, and the notification of your application for a Corps of Engineers 404 permit to cut, fill, and develop acreage for residential and commercial use, off I-10 east to College Drive, then south to West Lee Drive to Burbank Drive near Nicholson Drive to the site in Baton Rouge, Louisiana in East Baton Rouge Parish. Prior to processing the Water Quality Certification, this office requires:

1. **This office needs a copy of the approval letter from the City/ East Baton Rouge Sewer System indicating the sewage treatment system has the capacity to accommodate the additional sewage input.**

2. **Assurance that a Stormwater Discharge Permit will be obtained from the Department's Permit Division, prior to any construction activity, since the site is larger than 5 acres.**

3. **A copy of a revised drawing illustrating a 75' -100' undisturbed vegetation buffer area between the top of the existing bayous and/or creeks and any proposed construction activity.**

4. **A copy of any other drawing changes made subsequent to USACE comments and requests.**

Be sure to include our reference number (DH 061219-01/AI 147712) on all responses. Please send all correspondence to the following address:

ENVIRONMENTAL **SERVICES**
: PO BOX 4313, BATON ROUGE, LA 70821-4313
P:225-219-3181 F:225-219-3309
WWW.DEQ.LOUISIANA.GOV

Louisiana Department of Environmental Quality
P.O. Box 4313
Baton Rouge, LA 70821-4313
Attn: Water Quality Certifications
Dorian Heroman, PE

If we haven't received this information within 30 days from the date of this letter, your application will be considered inactive. If you have any questions, please call Dorian Heroman at 225-219-3467.

Sincerely,

Thomas R. Griggs
Engineer Manager

TRG/dph

c: Corps of Engineers- New Orleans District

GULF COAST
TESTING, LLC

April 24, 2007

State of Louisiana
Department of Environmental Quality
ATTEN: Mr. Dorian Heroman
P.O. 4313
Baton Rouge, Louisiana 70821-4313

RECEIVED
MAY 17 2007
MUNICIPAL FACILITIES
DIVISION

RE: Request for Water Quality Certification for Department of the Army Section 404 Permit (MVN-2006-2344-CZ) and Louisiana Department of Environmental Quality Water Quality Certification (DH-061219-01/AI 147712/CER 20060001) for Burbank and Lee Investors, LLC, in Baton Rouge, Louisiana, East Baton Rouge Parish.

Dear Mr. Heroman,

On behalf of our client, Burbank and Lee Investors, LLC, Gulf Coast Testing formally request a Water Quality Certification for the above referenced proposed project. The following information and attachments are provided for your review.

1. This letter serves as a written request for a Water Quality Certification and the applicant declares that any dredge/fill material is, to the best of the applicant's knowledge free of contaminants.

2. A commercial fee of $350.0 is enclosed. #1269 4/27/07

3. A list of landowners, adjacent to the project site.

4. A signed copy of the Corps of Engineers 404 permit application.

5. The source of fill material used for this project will come from the detention pond constructed on site.

6. Best Management Practices including hay bale dikes and silt fencing will be implemented as needed during construction to reduce the potential for construction runoff. Post-construction impacts from runoff will be minimized through establishment and maintenance of vegetation on exposed areas.

8. The applicant assures LDEQ that any exposed soils will be stabilized by the use of Best Management Practices (such as reseeding and vegetating the exposed area) in order to prevent future erosion and non-point runoff from the site.

9. The applicant assures the LDEQ that storm water discharge permits will be obtained from LDEQ for any discharges that will be generated from the site.

10. The applicant will tie into the existing sewerage system.

Office/Mailing | 17170 Perkins Road • Baton Rouge, LA 70810
Phone 225.612.1987 | Fax 225.612.1988

11. Enclosed is a copy of the Draniage Impact Study from George W. Hudson, P.E. stating the pre-developed 10-year peak discharge exiting the site near the east side of the wetland area is 130 cfs. The HEC-1 of the current plan with the lower normal pool computes a 10-year peak discharge of 76cfs. The increase in the diverted flow from 65 cfs to 78 cfs will not increase the developed conditions discharge above the pre-developed discharge. (See enclosure).

If you have any questions or need additional information, please do not hesitate to contact me at (225) 252-8285 or email nelle.fruge@gctla.com.

Sincerely,

GULF COAST TESTING LLC

Nelle Fruge'
Environmental Manager

NF/jjf

APPLICATION FO PARTMENT OF THE ARMY PERMIT SEP 21 2006
(33 CFR 325)

OMB APPROVAL NO. 0710-0003
Expires December 31, 2004

The public reporting burden for this collection of information is estimated to average 10 hours per response, although the majority of applications should require 5 hours or less. This includes the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003). Washington, DC 20503. Respondents should be aware that notwithstanding any other provision of law, no person shall be subject to any penalty for failing to comply with a collection of information if it does not display a currently valid OMB control number. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authorities: Rivers and Harbors Act, Section 10, 33 USC 403; Clean Water Act, Section 404, 33 USC 1344; Marine Protection, Research, and Sanctuaries Act, Section 103, 33 USC 1413. Principal Purpose: Information provided on this form will be used in evaluating the application for a permit. Routine Uses: This information may be shared with the Department of Justice and other federal, state, and local government agencies. Submission of requested information is voluntary, however, if information is not provided, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED
		SEP 21 2006	

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE *(an agent is not required)*
Victory Real Estate Investments, LLC	Nelle Fruge'
6. APPLICANT'S ADDRESS	**9. AGENT'S ADDRESS**
506 Manchester Expressway, Suite B5 Columbus, Georgia 31904	17170 Perkins Road Baton Rouge, Louisiana 70810
7. APPLICANT'S PHONE NUMBERS WITH AREA CODE	**10. AGENT'S PHONE NUMBERS WITH AREA CODE**
a. Residence	a. Residence
b. Business 706 327-4774	b. Business 225 252-8285

11. STATEMENT OF AUTHORIZATION

I hereby authorize Nelle Fruge to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE — DATE 9/18/06

NAME, LOCATION AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE *(see instructions)*
Bubank and Lee Investors, LLC

13. NAME OF WATERBODY, IF KNOWN *(if applicable)*	14. PROJECT STREET ADDRESS *(if applicable)*
Bayou Fountain	

15. LOCATION OF PROJECT

East Baton Rouge	Louisiana
COUNTY	STATE

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN (see instructions) Section, Township, Range, Latitude, and/or Assessor's Parcel Number, for example.
Section 36, Township 7 South, Range 1 West, Sections 1, 35 and 37 in Township 8 South, Range 1 West, Sections 6, 48 and 49 Township 8 South Range 1 East and Sections 31 and 64 Township 7 South and Range 1 East in Greensburg Land District, East Baton Rouge Parish, Louisiana

17. DIRECTIONS TO THE SITE Take I-10 west, exit south at College Drive, turn left from West Lee Drive onto Burbank. Site is located between Burbank Drive and Nicholson Drive.

18. **Nature of Activity** (Description of project, include all features)

The proposed project activities will include clearing, grading and depositing fill for the construction of a commercial and residential development. The proposed project will include access roads, commercial, retail and residential structures, a detention area, drainage structures, culverts and parking.

19. **Project Purpose** (Describe the reason or purpose of the project, see instructions)

The purpose of this proposed project is to construct a commercial and residential development to help fill the need for additional commercial and residential structures in East Baton Rouge Parish and Baton Rouge, Louisiana.

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge

The reason for the discharge is to deposit fill necessary to construct a commercial and residential development. The proposed project will be constructed in accordance with city of Baton Rouge and East Baton Rouge drainage ordinances.

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

78,000 Cubic yards of excavation
74,000 Cubic yards of Clean earthen fill
14,000 Cubic yards of Concrete

22. Surface Area in Acres of Wetlands or Other Waters Filled (see instructions)

70.88 acres of Wetlands
6.59 Acres of Other Waters of the U.S.

23. Is Any Portion of the Work Already Complete? Yes __ No X IF YES, DESCRIBE THE COMPLETED WORK

24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (if more than can be entered here, please attach a supplemental list).

See Attached List

25. List of Other Certifications or Approvals/Denials Received from other Federal, State, or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
U.S. Army Corps of Engineers	Jurisdictional Determination		Approximately 2001		

A new determination request for the same site was submitted in September 2006 ID # CD35 AG 2006-3319

*Would include but is not restricted to zoning, building, and flood plain permits

26. To the best of my knowledge the proposed activity described in my permit application complies with and will be conducted in a manner that is consistent with the Louisiana Coastal Management Program.
Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the applicant.

9-20, 2006 [signature]

SIGNATURE OF APPLICANT DATE SIGNATURE OF AGENT DATE

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

ADJACENT PROPERTY OWNERS

Joseph R. Supple, Etal.
5756 Highland Road
Baton Rouge, Louisiana 70808

Michael W. Manning, Etal
17092 Plachet Road
Greenwell Springs, Louisiana 70739

Michael J. Woosley, Etal.
5786 Highland Road
Baton Rouge, Louisiana 70808

Madhurendu B. Kumar, Etal.
5802 Highland Road
Baton Rouge, Louisiana 70808

Kathy D. Underwood
5806 Highland Road
Baton Rouge, Louisiana 70808

John M. Hening, Sr.
5876 Highland Road
Baton Rouge, Louisiana 70808

Louise C. Powers, Etal
435 Shady Lake Place West
Baton Rouge, Louisiana 70810

Robert J. Kenney
435 Shady Lake Plac West
Baton Rouge, Louisiana 70810

Karin M. Southwick, Etal
5470 Highland Road
Baton Rouge, Louisiana 70808

Esther A. Pickett Jusup Etal
5500 Highland Road
Baton Rouge, Louisiana 70808

Baton Rouge, Louisiana 70808

Current Resident
5454 Highland Road
Baton Rouge, Louisiana 70808

Kenneth R. McCrosby
14223 Harry Savoy Road
St Amant, Louisiana 70774

Joseph Landry, Etal
C/O Yendalg. LLC.
10065 Old Hammond Highway
Baton Rouge, Louisiana 70816

Charles E. & Celine T. Ateman, Etal &
Kirk A. Patrick & Judith Patrick
8912 Old Hammond Highway
Baton Rouge, Louisiana 70809

Duplantier Family Partnership
8765 Old Voth Road
Beaumont, Texas 77713

Mike Anderson's Seafood
1031 W. Lee Drive
Baton Rouge, Louisiana 70820

Michael Howard Anderson
9151 Highland Road
Baton Rouge, Louisiana 70808

Brian L. Kemp, Etal
19825 Westerly Avenue
Poolesville, MA 20837

Robert H. Hodges
5566 Highland Road
Baton Rouge, Louisiana 70808

Baton Rouge Waterworks Company
5430 Highland Road
Baton Rouge, Louisiana 70808

Donald G. Luther, Jr.

Waseei A. Ansari, Etal
426 Carriage Way
Baton Rouge, Louisiana 70808

Robert L. Turner
8927 Kindletree Drive
Baton Rouge, Louisana 70817

New River Contractors, LLC
11526 Country Club Drive
Gonzales, Louisiana 70737

Frank J. Greco
1248 Elmcrest Drive
Baton Rouge, Louisiana 70404

Edward Martin Morrison
5241 Highland Road
Baton Rouge, Louisiana 70808

Hattie W. Johnson, Willis Williams, Etal
C/O Willie Williams
4347 Adams Avenue
Baton Rouge, Louisiana 70802

Adella Blake Perkins, Etal
666 S. Eugene Street
Baton Rouge, Louisiana 70806

Willie & Alcine Grant
5290 Highland Road
Baton Rouge, Louisiana 70808

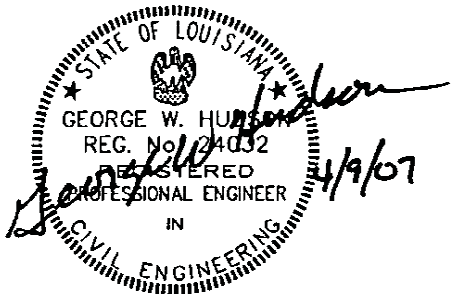
Pansy A. Levert, Etal
C/O Hardy F. Edminston, Sr.
P.O. Box 52321
Lafayette, Louisiana 70505

John R. Daspit, Etal
666 Beauregard Street
Baton Rouge, Louisiana 70802

Drainage Impact Study

Burbank at Lee
Baton Rouge, Louisiana

April 2007



CSRS
architects | engineers

April 4, 2007

Jim Ferguson, P.E.
DPW
P.O. Box 1471
Baton Rouge, LA. 70821

Re: Burbank at Lee
Drainage Impact Study
CSRS Project No: 26055.00

Dear Mr. Ferguson:

The original Drainage Impact Study, Burbank to University, March 2000, was submitted and approved by East Baton Rouge Parish Department of Public Works. The site plan approval was for a PUD.

The current site plan for Burbank at Lee is also a PUD and is consistent with the original PUD and the original Drainage Impact Study.

The HEC-1 model has been updated to reflect a revised normal pool elevation for the retention pond. In the original site plan, the normal pool elevation was 14.5 feet. In the current plan for the Burbank at Lee normal pool elevation is 11.0 feet. In addition to the change in the normal pool elevation, the pond outlet structures were changed form five 100-foot long spillways to ten 50-foot long spillways.

Inter Connected Pond Routing (ICPR) model was used to analyze and design the proposed pond and connecting culverts for the flow diversion from Arlington Creek to the retention pond. The HEC-1 model has a diversion flow of 65 cfs. The ICPR computes a diversion flow of 78 cfs. The pre-developed 10-year peak discharge exiting the site near the east side of the wetland area is 130 cfs. The HEC-1 of the current plan with the lower normal pool computes a 10-year peak discharge of 76 cfs. The increase in the diverted flow form 65 cfs to 78 cfs will not increase the developed conditions discharge above the pre-developed discharge.

Included in this supplemental report is an updated HEC-1 model of the current site plan, an ICPR model of the diversion plan, and a copy of the original Burbank University Drainage Impact Study, March 2000.

The proposed Burbank to Lee site plan will not increase the risk of flooding to surrounding properties.

Should you have any questions, please contact me.

Sincerely,

CSRS, Inc.

George W. Hudson

George W. Hudson, P.E.

GWH:ms

CSRS, Inc.
6767 Perkins Road, Suite 200
Baton Rouge, LA 70808
PH 225 769-0546
FX 225 767-0060
www.csrsonline.com

DH 061219-01

KATHLEEN BABINEAUX BLANCO
GOVERNOR

State of Louisiana

DEPARTMENT OF WILDLIFE AND FISHERIES

BRYANT O. HAMMETT, JR.
SECRETARY

January 17, 2007

Mr. Ronald J. Ventola, Chief
Regulatory Branch
United States Army Corps of Engineers
P. O. Box 60267
New Orleans, LA 70160-0267

RE: *Application Number: MVN 2006-2344 CZ*
Applicant: Victory Real Estate Investments, LLC
Public Notice Date: December 22, 2006

Dear Mr. Ventola:

The professional staff of the Louisiana Department of Wildlife and Fisheries (LDWF), Office of Wildlife, has reviewed the above referenced Public Notice. Based upon this review the following has been determined:

Justification for this project should be provided along with an alternative site analysis. The justification should clearly show if there is a real need to locate this activity within wetlands. If need can be established, actions must be taken to avoid and/or minimize adverse impacts to fish and wildlife resources. Those actions and other measures designed to fully compensate for unavoidable wetland impacts must be addressed in a mitigation plan and approved by this Department.

If the applicant provides sufficient justification for the proposed project and no suitable alternative site exists, the applicant should be required to maintain a minimum vegetated buffer width of 75-100 feet between the proposed development and the banks of Arlington Creek and Bayou Fountain. The vegetation within the buffer should remain undisturbed. The purposes of a vegetated riparian buffer are to reduce excess sediment, nutrients, and other pollutants in surface runoff, to create wildlife habitat and establish wildlife corridors, to create shade to lower water temperatures for improved aquatic organism habitat, to protect against scour erosion, to attenuate flood flow, and to increase carbon storage.

The applicant should be aware that this bottomland hardwood forest is one of the last remaining such forests in the Baton Rouge area. Data maintained by the LDWF Louisiana Natural Heritage Program indicates the likely presence of *Dryopteris x*

australis (Southern wood-fern). The Southern wood-fern is listed as critically imperiled within the State of Louisiana. Special caution should be taken to avoid this sensitive species.

The Louisiana Department of Wildlife and Fisheries seeks to work with you in a facilitative manner on this and future endeavors. Please do not hesitate to contact Gretchen Brown (225-765-2819) of our Habitat Section should you need further assistance.

Sincerely,

Brandt Savoie
Deputy Assistant Secretary

gsb

c: Kyle Balkum, Biologist Program Manager
Venise Ortego, Permits Coordinator
Gretchen Brown, Biologist
LDEQ, Office of Environmental Services
EPA
USFWS

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

Certified Mail 7014 2120 0003 8910 2332
Return Receipt Requested

June 29, 2015

File No.: LAR10K915
AI No.: 197140
Activity No.: GEN20150001

Mr. Patrick Smith
Command Construction Industries, LLC
3206 N. Turnbull Street
Metairie, Louisiana 70002

Re: Storm Water Construction General Permit Coverage Notice
Louisiana Pollutant Discharge Elimination System (LPDES)

Dear Mr. Smith:

Your Notice of Intent (NOI) received June 23, 2015, for the project named below has been processed and is administratively complete.

Project Name: Essen Lane (LA-3064/I-10)
Location: Essen Lane at I-10, Baton Rouge
Parish: East Baton Rouge

This construction project, if qualified under the conditions of the permit and unless notified otherwise by this office, is authorized to discharge storm water associated with construction activity to Ward Creek under the terms and conditions established under Louisiana's LPDES Construction General Permit. Your project's authorization number is LAR10K915. **This number and the Agency Interest Number listed above should be referenced in all future correspondence with this office.**

Coverage under this general permit will be terminated on June 22, 2016, as indicated by the year(s) selected. If continuation of permit coverage is needed beyond June 22, 2016, permittees must submit a NOE and payment of the additional annual maintenance and surveillance fee(s) to the Water Permits Division at least 30 days before the expiration date of your permit.

A copy of the permit can be accessed and printed from LDEQ's Internet website at http://www.deq.louisiana.gov/portal/ using the following path: DIVISIONS – Water Permits – LPDES Permits – LPDES General Permits – LAR100000 or by entering the Document ID 9457881 in LDEQ's Electronic Document Management System (EDMS) search window found at http://edms.deq.louisiana.gov/app/doc/querydef.aspx. In the event you are unable to access and/or print a copy of this permit for your records from one of the above listed sources, please contact the Water Permits Division at (225) 219-9371 to request a hard copy be sent by mail. In compliance with LAC 33:IX.2701.H, the permittee may be required to provide their own copy of the permit.

This permit requires certain storm water pollution prevention and control measures, possible monitoring and reporting, and regular inspections. You must prepare and implement a storm water pollution prevention plan (SWPPP) that is tailored to your site. As a construction project authorized to discharge under this general permit, all terms and conditions of the permit must be complied with in order to maintain coverage and to avoid possible penalties.

Coverage under this permit does not relieve the permittee from any regulatory responsibility to apply for and receive other permits or authorizations that may be required as a result of activities ongoing or planned at this site. Any activity resulting in a discharge to waters of the state, such as that from a sanitary sewage treatment plant, must have all necessary permits prior to commencement of the planned discharge.

If you have any questions, please call Blake Perkins at 225-219-3540 in the General and Industrial Permits Section.

Sincerely,

Jenniffer Sheppard, Manager
General and Industrial Permits

ec: Permit Compliance Unit
Office of Environmental Compliance

Capital Regional Office
Office of Environmental Compliance

c: IO-W

LDEQ RECEIPT
2015 JUN 23 PM 1:26

DISCOUNTPERMIT.COM
Stormwater Compliance, Permits & Plans

ORIGINAL

MAIN FILE

DiscountPermit.com
DEQ COPY 1 OF 2

June 18, 2015

Louisiana Department of Environmental Quality (LDEQ)
Office of Environmental Services
ATTN: Permits Division
Post Office Box 4313
Baton Rouge, Louisiana 70821-4313

original to IOW
DF
copy to MFG/CORTS PAAR

GEN20150001

Re: **CONSTRUCTION STORMWATER DISCHARGE PERMIT APPLICATION**
LDEQ CSW-G–NOI Stormwater Construction General Permit
Command Construction Industries, LLC
Essen Lane- LA3064/I-10
AI 197140

Dear Sirs/Madam:
Attached is the LDEQ CSW-G application for stormwater discharges regarding the Command Construction Industries, LLC project. This stormwater discharge permit application is for a Roadway Intersection Improvements project in Baton Rouge, Louisiana.

This project has a prepared Stormwater Pollution Prevention Plan (SWPPP) in place. We have also notified the City of Baton Rouge as to the activity at this site and our stormwater permit application submittal.

The facility site owner will monitor and commence compliance measures as required per the LDEQ stormwater permit and proper stormwater BMPs.

Should you have any questions regarding this permit application or need further information, please call me at the office at 225-755-1200. Thank you for your assistance,

Sincerely,

Diane T. Baum
diane@discountpermit.com

attachments
cc: Baton Rouge Permits Office
Patrick Smith, Command Construction Industries, LLC

RECEIVED
JUN 23 2015
By

Louisiana Department of Environmental Quality

DEQ Online Payment Receipt

Description	AI#	Type	Base Fee	Quantity	Line Total
Construction Stormwater Fee 1 year	197140	Product	$264.00	1	$264.00

Payment Totals

Sub Total: $264.00
Fee: $5.94
Total: $269.94

Payee Information

Name: Chad Brockhoeft
Email: chad@discountpermit.com

Transaction Information

Receipt Number: 6412
Transaction Number: 3645254631
Transaction Date: Thursday, June 18, 2015 1:14 PM
Transaction Status: 1
Transaction Message: TRANSACTION SUCCESSFUL, APPROVED

All Receipts

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Office of Environmental Services, Permits Division
Post Office Box 4313
Baton Rouge, LA 70821-4313
PHONE#: (225) 219-9371

LDEQ RECEIPT
2015 JUN 23 PM 1:26

LPDES NOTICE OF INTENT (NOI) TO DISCHARGE STORM WATER ASSOCIATED WITH CONSTRUCTION ACTIVITY GREATER THAN 5 ACRES

(Attach additional pages if needed.)

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by an LPDES permit issued for storm water discharges associated with construction activity in Louisiana. In order to be automatically authorized under General Permit LAR100000 you must submit a complete and accurate NOI to the LDEQ.

EVERY ITEM MUST BE COMPLETED.

Submission of this Notice of Intent also constitutes that implementation of the Storm Water Pollution Prevention Plan required under the general permit will begin at the time the permittee commences work on the construction project identified in Section II below.

SECTION I - FACILITY INFORMATION

A. Permit is to be issued to the following: (must be a party having operational control over construction plans and specifications and /or a party having day-to-day operational control over those activities at a project site which are necessary to ensure compliance with the storm water pollution prevention plan or other permit conditions LAC 33:IX.2501.B and LAC 33:IX.2503.A and B).

1. Legal Name of Applicant (Company, Partnership, Corporation, etc.) **Command Construction Industries, LLC**

Project Name **Essen Lane- LA3064/I-10**

(NOTE: Only one NOI needs to be submitted to cover all of the permittee's activities on the common plan of development or sale (e.g., you do not need to submit a separate NOI for each separate lot in a **residential subdivision** or for two separate buildings being constructed on the same property, provided your SWPPP covers each area for which you are the operator.)

Mailing Address **3206 N. Turnbull St.**

Metairie, LA Email: **Patrick@commandindustries.com** Zip Code: **70002**

If the applicant named above is not also the owner, state owner name, phone # and address.

N/A

Check status: [ ] Federal [ ] Parish [ ] Municipal [ ] [ ] State [ ] Public [X] Private [ ] Other:

2. Location of project. Provide a specific address, street, road, highway, interstate, and/or River Mile/Bank location of the project for which the NOI is being submitted.
Located at the intersection of Essen Lane and Interstate 10 in Baton Rouge, LA 70809

City **Baton Rouge** Zip Code **70809** Parish **East Baton Rouge**

SECTION I - FACILITY INFORMATION

Front Gate Coordinates:

Latitude- +30 deg. 24 min. 17.72 sec. Longitude- -91 deg. 6 min. 11.98 sec.

Method of Coordinate Determination: Topographical Quad Map Software
(ex:http://terraserver-usa.com/Quad Map, Previous Permit, website, GPS)

Is the facility located on Indian Lands? [ ] Yes [X] No

B. Storm water Pollution Prevention Plan Information.

1. Has the Storm water Pollution Prevention Plan (SWPPP) been prepared? (NOTE: The SWPPP must be prepared prior to submittal of the NOI. Do **not** submit SWPPP with this NOI.)
   [X] Yes [ ] No
2. Indicate address of location of SWPPP if different from Project Location. **(N/A if SWPPP is located at the construction site.)**
   Diane T. Baum/DiscountPermit.com diane@discountpermit.com 225-755-1200
   Address 12232 Industriplex Blvd. Suite A-2. SWPPP also located at construction site.

   City Baton Rouge State Louisiana Zip 70809

C. Location Information

1. Estimated Construction Start Date: (mo/day/yr) 6/29/15
2. **Select how long the permit is needed:**
   [X] **0 months - 1 year** [ ] **2 years** [ ] **3 years** [ ] **4 years** [ ] **5 years**
3. Estimate of area to be disturbed (to nearest acre) 3.33 acres
4. Describe the project or facility being constructed, such as a subdivision, single home, business, road project, orl retail development **(be specific, if clearing land indicate if there are future plans to build a facility, subdivision, or retail development)**:
   Roadway Intersection Improvements
5. Is the project part of a larger development or subdivision? (5 acres or greater) [X] Yes [ ] No
   If yes, provide the name of the development or subdivision. Baton Rouge DPW Roadway IMPV

D. Discharge Information

1. Indicate how the storm water run-off reaches state waters (named water bodies). This will usually be either *directly*, by *open ditch* (if it is a highway ditch, indicate the highway), or by *pipe*. Please specifically name all of the minor water bodies that your discharge will travel through on the way to a major water body. This information can be obtained from U.S.G.S. Quadrangle Maps. Maps can also be obtained online at http://map.deq.state.la.us/ or www.mytopo.com. Private map companies can also supply you with these maps. If you cannot locate a map through these sources you can contact the Louisiana Department of Transportation and Development at the address on the first page of this form.

   By Sheetflow runoff unto City of Baton Rouge subsurface MS4 (effluent pipe, ditch, etc.);
   thence into Ward Creek unto Bayou Manchac (effluent pipe, ditch, etc.);
   thence into Amite River unto Lake Maurepas (Parish drainage ditch, canal, etc.);
   thence into Lake Pontchartrain (named bayou, creek, stream, etc)

SECTION I - FACILITY INFORMATION

2. Based on Appendix C, the Outstanding Natural Resource Water (ONRW) list, does your storm water run-off flow directly into a waterbody listed as an ONRW?

☐ Yes ☒ No

NOTE: If the discharge will ultimately enter a scenic stream, contact the Louisiana Department of Wildlife and Fisheries (LDWF) Scenic Stream Division at 318-343-4044 for direction regarding how to comply with their requirements.

3. Based on Appendix A, Endangered Species Guidance, are there any listed endangered or threatened species in the project area?

☐ Yes ☒ No

NOTE: Use the Endangered Species Guidance in Appendix A to determine if there are listed endangered or threatened species in the project area. Applicants should contact the U. S. Fish and Wildlife Service (address is in Appendix A) for guidance if they need assistance in making a determination.

4. Based on Appendix B, Historic Properties Guidance, are any historic properties listed or eligible for listing on the National Register of Historic Places located on the facility or in proximity to the discharge?

☐ Yes ☒ No

5. Was the State Historic Preservation Office (see Part I.A.3.f of the permit) involved in your determination of eligibility?

☐ Yes ☒ No

E. Additional Discharge Information

1. Will the project or facility expansion, post-construction, result in a discharge that will require a wastewater discharge permit such as treated sanitary wastewater from a subdivision or apartment complex, industrial storm water or process wastewater?

☐ Yes ☒ No (e.g. direct to city POTW or no post-construction discharge)

2. If yes, does the subdivision, complex, or facility have an LPDES water discharge permit?

☐ Yes ☒ No

If yes, what is the LPDES permit number? **N/A**

3. If the facility has an LPDES water discharge permit, will the construction activity result in an increase to the permitted discharge?

☒ No ☐ Yes – Please Explain: **N/A**

4. If the facility **does not** have an LPDES permit or if the construction will result in an **increased discharge,** the party or developer responsible for construction plans and specifications must provide a Request for Preliminary Determination (RPD), Notice of Intent (NOI), or a request for permit modification within **14 days** of submittal of the Construction NOI to: DEQ, OES, P.O. Box 4313, Baton Rouge, LA 70821-4313, Attn: Water Permits Division. Failure to submit this information may result in denial of this and/or any future applications for discharge of wastewater to waters of the state. The "Request for Preliminary Determination of LPDES Permit Issuance Form" requests the information referenced above and can be accessed on our web page http://www.deq.louisiana.gov under DIVISIONS, Water Permits, LPDES Permits, LPDES forms.

SECTION II – LAC 33.I.1701 REQUIREMENTS

A. Does the company or owner have federal or state environmental permits in other states that are identical to, or of a similar nature to, the permit for which you are applying? (This requirement applies to all individuals, partnerships, corporations, or other entities who own a controlling interest of 50% or more in your company, or who participate in the environmental management of the facility for an entity applying for the permit or an ownership interest in the permit.)

[X] Permits in Louisiana. List Permit Numbers: **LAR10K234, LAR10K836**

[ ] Permits in other states (list states): _____

[X] No environmental permits.

B. Do you owe any outstanding fees or final penalties to the Department? [ ] Yes [X] No

If yes, please explain.

_____

C. Is your company a corporation or limited liability company? [X] Yes [ ] No

If yes, is the corporation or LLC registered with the Secretary of State? [X] Yes [ ] No

State of Louisiana

Department of Environmental Quality

M. J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

June 19, 2002

Conestoga-Rovers and Associates
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70818
Attn: David G. Marschall

RE: Water Quality Certification (WQC 020619-01)
Corps of Engineers Permit (NW-39)
East Baton Rouge Parish

Dear Mr. Marschall:

We have received notification of your application for a Corps of Engineers permit for Essen Park Apartments, LLC to build an apartment complex off of Essen Lane, in Baton Rouge, Louisiana.

Enclosed is a copy of a public notice to be published by you one time in the official State Journal, THE ADVOCATE of Baton Rouge. (As provided for by LRS 30:2074 A(3), the cost of this publication is to be at your expense). PLEASE REQUEST THAT THE ADVOCATE OF BATON ROUGE FURNISH US WITH PROOF OF PUBLICATION OF THIS NOTICE.

A ten day period after the date of publication will allow for public comment. After this ten day period has expired, a decision as to whether to grant Water Quality Certification will be made in accordance with LAC 33:IX.1507.A-E and provisions of Section 401 of the Clean Water Act (Public Law 95-217).

If we haven't received this information within 30 days from the date of this letter, your application will be considered inactive. If you have any questions, please call Melanie V. Bauder at (225) 765-0870. The office hours are 8:00 a.m. to 4:30 p.m., Monday through Friday.

Sincerely,

Larry M. Wiesepape
Environmental Scientist Supervisor
Registrations and Certifications Section

Attachment
c: Corps of Engineers, New Orleans, LA

PUBLIC NOTICE TO BE RUN IN

THE ADVOCATE OF BATON ROUGE
PO Box 588
Baton Rouge, LA 70821
Phone: (225) 388-0128
Fax: (225) 388-0164

Attn: Public Notices

Notice is hereby given that Conestoga Rovers and Associates, Agents for Essen Park Apartments, LLC, has applied to the Department of the Army, Corps of Engineers New Orleans District, for a permit to fill approximately 0.45 acres of wetlands for a multifamily residential development in Baton Rouge, Louisiana. The applicant is applying to the Louisiana Department of Environmental Quality, Office of Environmental Services for a Water Quality Certification in accordance with statutory authority contained in the LAC 33:IX.1507.A-E, and provisions of Section 401 of the Clean Water Act (P.L. 95-217).

Comments concerning this application can be filed with the Registrations and Certifications Section within ten days of this notice by referencing WQC 020619-01 to the following address:

Louisiana Department of Environmental Quality
Registrations and Certifications Section
P.O. Box 82135
Baton Rouge, LA 70884-2135
Telephone: (225) 765-2554

A copy of the application is available for inspection and review at the LDEQ Public Records Center, Room 4400, 7290 Bluebonnet Boulevard, Baton Rouge, Louisiana. Viewing hours are from 7:30 a.m. to 4:30 p.m., Monday-Friday (except holidays).

State of Louisiana

Department of Environmental Quality

M. J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

July 17, 2002

Conestoga-Rovers and Associates
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70818
Attn: Paul Clifton

RE: Water Quality Certification (WQC 020619-01)/Agency Interest (AI 100234)
Corps of Engineers Permit (NW-39)
East Baton Rouge Parish

Dear Mr. Clifton:

The Department has received an application for Essen Park Apartments, LLC to develop a 214-unit multifamily residential development at 5353 Essen Lane, in Baton Rouge, Louisiana.

The requirements for Water Quality Certification have been met in accordance with LAC 33:IX.1507.A-E. Based on the information provided in your application, we have determined that the placement of the fill material will not violate the water quality standards of Louisiana provided for under LAC 33:IX.Chapter 11. Therefore, the Department has no objection to this project.

Sincerely,

Jodi G. Miller
Environmental Scientist Manager
Registrations and Certifications Section

JGM/mvb

c: Corps of Engineers, New Orleans
Coastal Management Division

CONESTOGA-ROVERS
& ASSOCIATES

4915 S. Sherwood Forest Blvd., Baton Rouge, LA 70816
Telephone: 225.292.9007 Facsimile: 225.292.3614
www.CRAworld.com

June 18, 2002

Reference No. 27039-00

Mr. Ronnie Duke
Eastern Evaluation Section
Regulatory Functions Branch
New Orleans District
US Army Corps of Engineers
P.O. Box 60267
New Orleans, LA 70160-0267

Ms. Linda Levy, Assistant Secretary
Office of Environmental Services
Louisiana Department of Environmental Quality
P.O. Box 82135
Baton Rouge, Louisiana 70884-2135
Attn: Mr. Larry Weisepape, Certifications

Re: Preconstruction Notification, Nationwide Permit 39
Request for Water Quality Certification
Essen Park Apartments, LLC
Essen Park Apartments, Essen Lane
East Baton Rouge Parish, Louisiana

Dear Mr. Duke and Mr. Weisepape:

In accordance with 33 CFR 330.7 (b), and on behalf of Essen Park Apartments, LLC, Conestoga-Rovers and Associates (CRA) is providing this Preconstruction Notification to request authorization by the US Army Corps of Engineers under Nationwide Permit 39 to fill approximately 0.45 acre of wetlands for a multifamily residential development in Baton Rouge, East Baton Rouge Parish, Louisiana. The specifics of the proposed work are described on the attached ENG Form 4345 and project drawings. Additional information required for notification is provided below.

By this submittal, CRA is also requesting Water Quality Certification from the Louisiana Department of Environmental Quality

The applicant is working with the US Department of Housing and Urban Development (HUD) to secure funding to provide affordable housing to meet a public need in the Baton Rouge area. CRA asks on behalf of Essen Park Apartments, LLC, that this request for authorization to proceed under Nationwide 39 be processed in an expeditious manner in order to meet HUD timing requirements.

CONTACT INFORMATION

Applicant:
Essen Park Apartments, LLC
3049 S. Sherwood Forest Boulevard
Baton Rouge, Louisiana 70816
Attn: Mr. Dan Brown

Agent:
Charles E. Jones
Conestoga-Rovers & Associates, Inc.
4915 S. Sherwood Forest Boulevard
Baton Rouge, Louisiana 70816

CONESTOGA-ROVERS
& ASSOCIATES

PROJECT DESCRIPTION

The project site is located east of Essen Lane, south of Interstate 10, in Section 53, Township 7 South, Range 1 East. Figure 1 is a vicinity map showing the project location.

The proposed project involves the construction of a 214-unit apartment complex on a tract of 8.3 acres. Approximately 0.45 acre of the site is a wetland under Corps of Engineers jurisdiction. The complex will consist of ten buildings, a recreation area, parking lots, a detention pond, and greenspace. Fill material will be obtained from within the site as cuts are made for a detention pond, roads and parking lots. Approximately 900 cubic yards of fill material will be placed in wetlands. Figures 2, 3, and 4 show site plans with and without the apartment complex.

The apartment complex will have a 0.25-acre stormwater detention pond and subsurface piping beneath parking lots to hold stormwater prior to discharge. A drainage impact study for the project has been approved by the City of Baton Rouge/Parish of East Baton Rouge, Department of Public Works. A copy of the approval letter is attached. The project will tie into the municipal sanitary sewer system maintained by the Department of Public Works. Attached are copies of correspondence related to sewer capacity. Access and egress will be provided by driveways to Essen Lane on the west and Mancuso Lane on the east.

DIRECT AND INDIRECT ENVIRONMENTAL IMPACTS

Direct impacts to 0.45 acre of wetlands will occur as a result of mechanized land clearing. These wetlands are no longer of high quality and are a remnant of woods that have been surrounded by urban development for many years. The project is an infill development that minimizes indirect environmental impacts. The applicant intends to provide mitigation for unavoidable impacts to wetlands.

FEMA FLOODPLAIN CONSTRUCTION COMPLIANCE

The project will not result in placement of fill material within the 100-year floodplain. Attached are photocopies of the FEMA Flood Insurance Rate Map (Community-Panel Number 220058 0110 D, revised May 17, 1993), and the USGS topographic map confirming that the project is located above the 100-year floodplain.

WETLAND DELINEATION

A jurisdictional determination by the New Orleans District Surveillance and Enforcement Section, Account Number 20-020-1551, was completed on June 12, 2002. A copy is attached.

CONESTOGA-ROVERS
& ASSOCIATES

ADDITIONAL PERMITS TO BE REQUESTED

No other nationwide, regional general, or individual permits from the New Orleans District are required for this project. Individual Water Quality Certification is being requested from the Louisiana Department of Environmental Quality (LDEQ) with this submittal.

Prior to groundbreaking, the applicant will submit a Notice of Intent to the LDEQ for coverage under the Multisector General Stormwater Discharge Permit for construction sites. The applicant or its agent will prepare a Stormwater Pollution Prevention Plan specifying Best Management Practices to be used in construction of the apartment complex. Best Management Practices will include silt fencing, hay bales, and similar measures to prevent silt-laden runoff from entering local drainage. Following construction, stormwater will be managed by the 0.25-acre detention pond in conjunction with subsurface piping laid beneath parking lots.

If you have any questions about this Preconstruction Notification, or require additional information, please contact CRA.

Sincerely,

CONESTOGA-ROVERS AND ASSOCIATES

Charles E. Jones, CHMM
Project Coordinator

David G. Marschall
Project Manager

DGM:pla

Attachments: ENG Form 4345
Figures 1 through 4
Letter Approving Drainage Impact Study
Letters Confirming Sewer Capacity
Portions of FEMA FIRM and USGS topographic map
Jurisdictional Determination

cc: Essen Park Apartments, LLC
GWS Engineering, Inc.

Equal Employment Opportunity Employer
REGISTERED COMPANY ISO 9001 ENGINEERING DESIGN
Worldwide Engineering, Environmental, Construction, and IT Services

ENG FORM 4345

APPLICATION FOR DEPARTMENT OF THE ARMY PERMIT *(33 CFR 325)*	OMB APPROVAL NO. 0710-003 Expires October 1996

Public reporting burden for this collection of information is estimated to average 5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to Department of Defense, Washington Headquarters Service Directorate of Information Operations and Reports, 1215 Jefferson Davis Highway, Suite 1204, Arlington, VA 22202-4302; and to the Office of Management and Budget, Paperwork Reduction Project (0710-0003), Washington, DC 20503. Please DO NOT RETURN your form to either of those addresses. Completed applications must be submitted to the District Engineer having jurisdiction over the location of the proposed activity.

PRIVACY ACT STATEMENT

Authority: 33 USC 401, Section 10; 1413, Section 404. Principal Purpose: These laws require permits authorizing activities in, or affecting, navigable waters of the United States, the discharge of dredged or fill material into waters of the United States, and the transportation of dredged material for the purpose of dumping it into ocean waters. Routine Uses: Information provided on this form will be used in evaluating the application for a permit. Disclosure: Disclosure of requested information is voluntary. If information is not provided, however, the permit application cannot be processed nor can a permit be issued.

One set of original drawings or good reproducible copies which show the location and character of the proposed activity must be attached to this application (see sample drawings and instructions) and be submitted to the District Engineer having jurisdiction over the location of the proposed activity. An application that is not completed in full will be returned.

(ITEMS 1 THRU 4 TO BE FILLED BY THE CORPS)

1. APPLICATION NO.	2. FIELD OFFICE CODE	3. DATE RECEIVED	4. DATE APPLICATION COMPLETED

(ITEMS BELOW TO BE FILLED BY APPLICANT)

5. APPLICANT'S NAME	8. AUTHORIZED AGENT'S NAME AND TITLE *(an agent is not required)*
Essen Park Apartments, LLC	Charles E. Jones Conestoga-Rovers & Associates
6.APPLICANT'S ADDRESS	**9. AGENT'S ADDRESS**
3049 S. Sherwood Forest blvd. Baton Rouge, LA 70816	4915 S. Sherwood Forest Blvd. Baton Rouge, LA 70816
7. APPLICANT'S PHONE NOS. W/AREA CODE	**10. AGENT'S PHONE NOS. W/AREA CODE**
a. Residence	a. Residence
b. Business (225) 927-4290	b. Business (225) 292-9007

11. STATEMENT OF AUTHORIZATION

I hereby authorize, Charles E. Jones to act in my behalf as my agent in the processing of this application and to furnish, upon request, supplemental information in support of this permit application.

APPLICANT'S SIGNATURE _____ DATE _____

NAME, LOCATION AND DESCRIPTION OF PROJECT OR ACTIVITY

12. PROJECT NAME OR TITLE (see instructions)

Essen Park Apartments

13. NAME OF WATERBODY, IF KNOWN *(if applicable)*	14. PROJECT STREET ADDRESS *(if applicable)*
NA	Essen Lane behind Essen Center (5353 Essen Lane) in Baton Rouge, LA
15. LOCATION OF PROJECT	
East Baton Rouge (COUNTY) LA (STATE)	

16. OTHER LOCATION DESCRIPTIONS, IF KNOWN *(see instructions)*
The Site is located in Section 53, Township 7 South, Range 1 East. The Site, having 60 feet of road frontage on Essen Lane, extends approximately 560 feet from Essen Lane to the main portion of the Site.

17. DIRECTIONS TO THE SITE
From New Orleans, travel west on Interstate 10 for 68 miles to Baton Rouge, LA, then exit at Essen Lane (exit 160). Turn west on Highway 3064 (Essen Lane) for approximately 0.7 mile. The Site is located south of Essen Lane and south of six-story Essen Centre Building (5353 Essen Lane). It can be accessed from the ingress adjacent to the Essen Centre Buiding.

18. Nature of Activity *(Description of project, include all features.)*

Clear, grub, grade, and fill as necessary the 8.3-acre tract. Fill the 0.45-acre of wetlands with clean fill material to build apartment complex and parking lots.

19. Project Purpose *(Describe the reason or purpose of the project, see instructions)*
To provide affordable multi-family housing for the Baton Rouge market.

USE BLOCKS 20-22 IF DREDGED AND/OR FILL MATERIAL IS TO BE DISCHARGED

20. Reason(s) for Discharge
To provide solid support for parking lots and building construction

21. Type(s) of Material Being Discharged and the Amount of Each Type in Cubic Yards

Approximately 900 cubic yards of clean fill dirt will be placed in wetlands. Fill will originate from on the site.

22. Surface Area in Acres of Wetlands or Other Waters Filled *(see instructions)*

Approximately 0.45 acre of wetland and other waters will be filled.

23. Is Any Portion of the Work Already Complete? Yes ___ No _X_ IF YES, DESCRIBE THE COMPLETED WORK

24. Addresses of Adjoining Property Owners, Lessees, Etc., Whose Property Adjoins the Waterbody (If more than can be entered here, please attach a supplemental list).

See attached list

25. List of Other Certifications or Approvals/Denials Received from other Federal, State or Local Agencies for Work Described in This Application.

AGENCY	TYPE APPROVAL*	IDENTIFICATION NUMBER	DATE APPLIED	DATE APPROVED	DATE DENIED
LDEQ	Water Quality Certification		June 18, 2002	To be determined	

*Would include but is not restricted to zoning, building and flood plain permits

26. Application is hereby made for a permit or permits to authorize the work described in this application. I certify that the information in this application is complete and accurate. I further certify that I possess the authority to undertake the work described herein or am acting as the duly authorized agent of the application.

SIGNATURE OF APPLICANT	DATE	SIGNATURE OF AGENT	DATE
		David J. Marshall for Charles E. Jones	6/18/02

The application must be signed by the person who desires to undertake the proposed activity (applicant) or it may be signed by a duly authorized agent if the statement in block 11 has been filled out and signed.

18 U.S.C. Section 1001 provides that: Whoever, in any manner within the jurisdiction of any department or agency of the United States knowingly and willfully falsifies, conceals, or covers up any trick, scheme, or disguises a material fact or makes any false, fictitious or fraudulent statements or representations or makes or uses any false writing or document knowing same to contain any false, fictitious, or fraudulent statements or entry, shall be fined not more than $10,000 or imprisoned not more than five years or both.

*U.S. GPO: 1994-520-478/82018

STATE OF LOUISIANA
HAZARDOUS WASTE DIVISION
OFFICE OF SOLID AND HAZARDOUS WASTE
DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. BOX 44307 BATON ROUGE, LA 70804

RECEIVED FEB 2 1987 Dept. of Environmental Quality Hazardous Waste Division

Hazardous Waste Notification Form

☐ HAZARDOUS WASTE ☐ REUSE/RECYCLE

FOR DEPARTMENT USE

LAD 125624742 G
Date Received: 4/6/87
Date Checked: 6/3/87
Checked by: [illegible]

1. NAME OF INSTALLATION: MIDAS MUFFLER
2. MAILING ADDRESS: STREET OR P.O. BOX: 10111 FLORIDA
   CITY OR TOWN: BATON ROUGE STATE: LA ZIP CODE: 70815
3. LOCATION: STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER: 2358 COLLEGE
   FIPS PARISH CODE: 033
   CITY OR TOWN: BATON ROUGE STATE: LA ZIP CODE: 70808
4. CONTACT: NAME & TITLE (last, first, & title): SARA PEPITONE PHONE (area code & no.): 504 926 8040
5. OWNERSHIP: NAME: BILL PEPITONE
6. OPERATOR: NAME OF COMPANY (CONTRACTOR) - IF APPLICABLE: SAME
7. NOTIFICATION TYPE: (Mark applicable boxes. Give installation's La. I.D. No. and EPA I.D. No. if known)

Notification is: ☒ the first for this installation ☐ a subsequent notification

8. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity	B. Used Oil Fuel Activities
☒ 1a. Generator	☐ 6. Off-Specification Used Oil Fuel *(enter 'X' and mark appropriate boxes below)*
☐ 2. Transporter	☐ a. Generator Marketing to Burner
☐ 3. Treater/Storer/Disposer	☐ b. Other Marketer
☐ 4. Underground Injection	☐ c. Burner
☐ 5. Market or Burn Hazardous Waste Fuel *(enter 'X' and mark appropriate boxes below)*	☐ 7. Specification Used Oil Fuel Marketer *(for On site Burner)* Who First Claims the Oil Meets the Specification
☐ a. Generator Marketing to Burner	
☐ b. Other Marketer	
☐ c. Burner	

9. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)*

☐ A. Utility Boiler ☐ B. Industrial Boiler ☐ C. Industrial Furnace

10. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es))*

☐ A. Air ☐ B. Rail ☐ C. Highway ☐ D. Water ☐ E. Other *(specify)*

11. DESCRIPTION OF HAZARDOUS WASTES

A. HAZARDOUS WASTES FROM NON-SPECIFIC SOURCES (Category I-A)

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF SITE	REUSED RECYCLE	
Subsequent				

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF-SITE	REUSED RECYCLE	

EPA Form 8700-12 (8-85)

B. HAZARDOUS WASTES FROM SPECIFIC SOURCES (Category I-B)

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF-SITE	REUSED RECYCLE	

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF-SITE	REUSED RECYCLE	

C. COMMERCIAL CHEMICAL PRODUCTS HAZARDOUS WASTES (Category I-C)

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF-SITE	REUSED RECYCLE	

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF-SITE	REUSED RECYCLE	

D. CHARACTERISTICS OF NON-LISTED HAZARDOUS WASTES (Category II)

1. Mark the boxes corresponding to characteristics of non-listed hazardous wastes your installation handles. Use criteria in Appendix A, Cate.

☑ Ignitable (D001) ☐ Corrosive (D002) ☐ Reactive (D003) ☐ Toxic (D000-EP Toxic)

2. List EP Toxic Waste numbers from codes at Category II-D, Appendix A and make other appropriate entries in the spaces provided.

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF SITE	REUSED RECYCLE	

WASTE NUMBER	DISPOSED ON-SITE	DISPOSED OFF SITE	REUSED RECYCLE	

10. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature W. C. Pepitone Name and Official Title W. C. Pepitone, owner

Company MIDAS muffler Date Signed 2-11-87

Please print or type with ELITE type *(12 characters per inch)* in the unshaded areas only

Form Approved. OMB No. 2050-0028. Expires 9-30-88
GSA No. 0246-EPA-OT

United States Environmental Protection Agency
Washington, DC 20460

EPA Notification of Hazardous Waste Activity

Please refer to the *Instructions for Filing Notification* before completing this form. The information requested here is required by law *(Section 3010 of the Resource Conservation and Recovery Act).*

RECEIVED FEB 25 1987 Dept. of Environmental Quality Hazardous Waste Division

For Official Use Only

Comments: NS3-18-87

Installation's EPA ID Number	Approved	Date Received (yr. mo. day)	
C F LAD125624742 T/A C 1			033 East Baton Rouge

I. Name of Installation

MIDAS MUFFLER

2100
4100

II. Installation Mailing Address

Street or P.O. Box: C 3 10111 FLORIDA

City or Town	State	ZIP Code
C 4 BATON ROUGE	LA	70815

III. Location of Installation

Street or Route Number: C 5 2358 COLLEGE

City or Town	State	ZIP Code
C 6 BATON ROUGE	LA	70808

IV. Installation Contact

Name and Title *(last, first, and job title)*	Phone Number *(area code and number)*
C 2 SARA PEPLITONE	504 926 8040

V. Ownership

A. Name of Installation's Legal Owner	B. Type of Ownership *(enter code)*
C R BILL PEPLITONE	

VI. Type of Regulated Waste Activity *(Mark 'X' in the appropriate boxes. Refer to instructions.)*

A. Hazardous Waste Activity

- ☑ 1a. Generator
- ☐ 1b. Less than 1,000 kg/mo.
- ☐ 2. Transporter
- ☐ 3. Treater/Storer/Disposer
- ☐ 4. Underground Injection
- ☐ 5. Market or Burn Hazardous Waste Fuel *(enter 'X' and mark appropriate boxes below)*
  - ☐ a. Generator Marketing to Burner
  - ☐ b. Other Marketer
  - ☐ c. Burner

B. Used Oil Fuel Activities

- ☐ 6. Off-Specification Used Oil Fuel *(enter 'X' and mark appropriate boxes below)*
  - ☐ a. Generator Marketing to Burner
  - ☐ b. Other Marketer
  - ☐ c. Burner
- ☐ 7. Specification Used Oil Fuel Marketer *(or On-site Burner)* Only First Claims the Oil Meets the Specification

RECEIVED APR 06 1987 Dept. of Environmental Quality Hazardous Waste Division

RECEIVED MAR 10 1987 HAZARDOUS WASTE PROGRAMS BRANCH

VII. Waste Fuel Burning: Type of Combustion Device *(enter 'X' in all appropriate boxes to indicate type of combustion device(s) in which hazardous waste fuel or off-specification used oil fuel is burned. See instructions for definitions of combustion devices.)*

☐ A. Utility Boiler ☐ B. Industrial Boiler ☐ C. Industrial Furnace

VIII. Mode of Transportation *(transporters only — enter 'X' in the appropriate box(es)*

☐ A. Air ☐ B. Rail ☐ C. Highway ☐ D. Water ☐ E. Other *(specify)*

IX. First or Subsequent Notification

Mark 'X' in the appropriate box to indicate whether this is your installation's first notification of hazardous waste activity or a subsequent notification. If this is not your first notification, enter your installation's EPA ID Number in the space provided below.

☑ A. First Notification ☐ B. Subsequent Notification *(complete item C)*

C. Installation's EPA ID Number

ID — For Official Use Only

C														T/A	C
W															1

X. Description of Hazardous Wastes *(continued from front)*

A. Hazardous Wastes from Nonspecific Sources. Enter the four-digit number from 40 *CFR* Part 261.31 for each listed hazardous waste from nonspecific sources your installation handles. Use additional sheets if necessary.

1	2	3	4	5	6
7	8	9	10	11	12

B. Hazardous Wastes from Specific Sources. Enter the four-digit number from 40 *CFR* Part 261.32 for each listed hazardous waste from specific sources your installation handles. Use additional sheets if necessary.

13	14	15	16	17	18
19	20	21	22	23	24
25	26	27	28	29	30

C. Commercial Chemical Product Hazardous Wastes. Enter the four-digit number from 40 *CFR* Part 261.33 for each chemical substance your installation handles which may be a hazardous waste. Use additional sheets if necessary.

31	32	33	34	35	36
37	38	39	40	41	42
43	44	45	46	47	48

D. Listed Infectious Wastes. Enter the four-digit number from 40 *CFR* Part 261.34 for each hazardous waste from hospitals, veterinary hospitals, or medical and research laboratories your installation handles. Use additional sheets if necessary.

49	50	51	52	53	54

E. Characteristics of Nonlisted Hazardous Wastes. Mark 'X' in the boxes corresponding to the characteristics of nonlisted hazardous wastes your installation handles. *(See 40 CFR Parts 261.21 — 261.24)*

- ☒ 1. Ignitable *(D001)*
- ☐ 2. Corrosive *(D002)*
- ☐ 3. Reactive *(D003)*
- ☐ 4. Toxic *(D000)*

XI. Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature	Name and Official Title *(type or print)*	Date Signed
W. C. Pepitone	W. C. Pepitone, owner	2-11-87

EPA Form 8700-12 (Rev. 11-85) Reverse

Name and Official Title _____

Date Signed

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF SOLID AND HAZARDOUS WASTE
HAZARDOUS WASTE DIVISION
POST OFFICE BOX 44307
BATON ROUGE, LOUISIANA 70804

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

October 31, 1989.

PAUL TEMPLET
Secretary

Midas Muffler Shop
2358 College Drive
Baton Rouge, La. 70808

DUPLICATE

RE: Small Quantity Generator Number

Dear Ms. Pepitone,

This letter acknowleges receipt of your notification form applying for Louisiana Small Quantity Generator status.

The location identification number, LAD 125624742 , is assigned to:

2358 College Drive

The above location with its assigned number is now designated as a Small Quantity Generator in our files. It is suggested that you secure and become familiar with Louisiana's Hazardous Waste Regulations, especially the chapter dealing with Small Quantity Generators. You may order Volume 13 of the Louisiana Administrative Code by contacting the Louisiana Register at (504) 342-5016. Your identification number must be used when manifesting any hazardous waste.

It is important that this office be notified in writing within seven (7) days of ANY changes of the information submitted on your notification form. Should you have any questions please contact this office at (504) 342-4677.

Very truly yours,

Glenn A. Miller
Administrator

GAM/VS/gd

cc: Betty Thibodeaux

ok
4-14-89
Listed
CGJ

STATE OF LOUISIANA
HAZARDOUS WASTE DIVISION
OFFICE OF SOLID AND HAZARDOUS WASTE
DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. BOX 44307 BATON ROUGE, LA 70804

SMALL QUANTITY GENERATOR HAZARDOUS WASTE
NOTIFICATION FORM

1. NAME OF INSTALLATION: Mids Muffler Shop

2. MAILING ADDRESS: 2358 College Dr. Baton Rouge LA 70808
(street or p.o. box / city / state / zip code)

3. LOCATION: Same As #2
(street, route no. or other specific identifier / city / state / zip code)

4. CONTACT: Sara Pepitone, V.P 504 293-9433
(name & title / phone (area code & number))

5. OWNERSHIP: 2358 College Dr, Inc., dba Mids Muffler
(name of company or individual)

7. NOTIFICATION TYPE:
(Mark applicable boxes. Give installation's Louisiana I.D. Number, if known)

Notification is: ☐ the first for this installation ☑ a subsequent notification
LAD125624742

DESCRIPTION OF HAZARDOUS WASTE GENERATED

Waste Number	Disposed On-Site	Disposed Off-Site	Reused Recycle	Generic Description
D001R			✓	

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

I further certify that no more than one hundred kilograms (100kg) of hazardous waste per month is produced at this facility.

Sara L Pepitone SARA L Pepitone, V.P. 3-10-89
Signature / Name and Official Title (type or print) / Date Signed

LOUISIANA NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
HAZARDOUS WASTE DIVISION
P.O. BOX 44307 BATON ROUGE, LA 70804

INSTALLATION'S EPA ID NUMBER
LAD 125624742

NOTIFICATION: FIRST ○ SUBSEQUENT

RECEIVED
FEB 19 1991
Dept. of Environmental Quality
Hazardous Waste Division

NAME OF INSTALLATION (include company and specific site name)
MIDAS MUFFLER

INSTALLATION LOCATION ADDRESS (physical address, not p.o. box or route number)
STREET
2358 College DR

CITY OR TOWN | STATE | ZIP CODE
Baton Rouge | LA | 70808

LATITUDE | LONGITUDE | PARISH NAME
E Baton Rouge

SIC CODE 7533 | PARISH CODE 033

INSTALLATION CONTACT (person to be contacted regarding waste activities at site)

LAST NAME	FIRST NAME	JOB TITLE	PHONE NUMBER
PERITONE	BILL	owner	504 272 5921

INSTALLATION MAILING ADDRESS
STREET, P.O. BOX OR ROUTE NUMBER
5550 S Sherwood Forest

CITY OR TOWN | STATE | ZIP CODE
Baton Rouge | LA | 70816

TYPE OF HAZARDOUS WASTE ACTIVITY (fill in circle of appropriate boxes. Refer to instructions.)

GENERATOR:
- ○ greater than 1000 kg/mo.
- ○ 100 to 1000 kg/mo.
- ✓ less than 100 kg/mo.
- ○ on-site reuse/recycle operation
- ○ less than 90 day storage in tanks

TRANSPORTER:
- ○ for own waste only
- ○ for commercial purposes

MODE OF TRANSPORTATION (transporters only)
○ highway ○ rail ○ air ○ water

TRANSFER FACILITY STATUS: (MONTH, DAY, YEAR)
requested _____
received _____

○ TREATER, STORER, DISPOSER (at installation)
*NOTE: a permit is required for this activity
SEE INSTRUCTIONS

HAZARDOUS WASTE FUEL
- ○ generator marketing to burner
- ○ marketer
- ○ burner-type of combustion device
  - ○ utility boiler ○ industrial boiler ○ industrial furnace

USED OIL FUEL ACTIVITIES

- ○ Off-Specification Used Oil Fuel
  - ○ generator marketing to burner
  - ○ marketer
- ○ Used Oil Collector/Transporter
- ○ Used Oil Broker (but not marketer)
- ○ Specification Used Oil Fuel Marketer (or Burner) Who First Claims the Oil Meets the Specification
- ○ burner–type of combustion device
  - ○ utility boiler ○ industrial boiler
  - ○ industrial furnace

OWNER (legal owner of installation; include property owner at bottom *, if different)

NAME: BILL PEPITONE

PHONE: 504 272-5921

STREET: 1223 E NICKENS ROAD

CITY OR TOWN: HAMMOND

STATE: LA

ZIP CODE: 70403

INSTALLATION CLASSIFICATION (see Instructions)

A Owner type

A Operator type

A Property type

DESCRIPTION OF REGULATED WASTES

A. Characteristic Hazardous Wastes (see 40 CFR 261.20–24 and LAC 33:V.4903 B,C,D,E)

- ☒ Ignitable (D001)
- ○ corrosive (D002)
- ○ reactive (D003)
- ○ TC toxic (D004-D043)

B. Listed Hazardous Wastes (see 40 CFR 261.30–33 and LAC 33:V.4901 B,C,E,F)

CERTIFICATION

I certify that the information provided herein and appended hereto is true and accurate to the best of my knowledge, information and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

SIGNATURE	NAME AND TITLE (PRINT OR TYPE)	DATE SIGNED
x Bill Pepitone	BILL PEPITONE, OWNER	2-15-91

*

HW-1 ; 8700-12 (R 6/90)

T

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 3818 INSPECTION DATE: 8/5/01 TIME OF ARRIVAL: 11:20 A.M.
ALTERNATE ID#: RS-33-9761 (ID Type/Number) DEPARTURE DATE: 9/5/01 TIME OF DEPARTURE: 11:35 AM
FACILITY NAME: Midas Auto Systems Experts PH #: 225-926-8040
LOCATION: 2358 College Drive, Baton Rouge, LA. 70808
PARISH NAME: EBR
RECEIVING STREAM (BASIN/SUBSEGMENT):
MAILING ADDRESS: P.O. Box 45211, Baton Rouge, LA. 70895 (Street/P.O. Box) (City) (State) (ZIP)
FACILITY REPRESENTATIVE: Alan MKnight TITLE: Shop Foreman
FACILITY REPRESENTATIVE PHONE NUMBER: Same
NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above):

INSPECTION TYPE: CEI PROGRAM INVOLVED: AIR WASTE WATER OTHER Tires

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

Keri Meyers and ~~Fiona~~ KM Marla Cobb performed an inspection at the above site. Midas no longer sells tires. ~~at~~ KM all. KM They sent a letter to the Department over 2 years ago notifying them they no longer deal in tires.

The inspector will get Midas removed from the tire list. KM

REGULATION	EXPLANATION	REFERRED?
		YES NO
		YES NO

PHOTOS TAKEN: ☐ YES ☑ NO SAMPLES TAKEN: ☐ YES ☑ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE:
PRINT NAME: ALAN MKNIGHT
(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S NOTES)

INSPECTOR(S): Keri Meyers/KM Keri Meyers 9-5-01 CROSS REFERENCE:
Marla Cobb/KM 9-5-01 ATTACHMENTS
REVIEWER: Evita N. Sagrera

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

WASTE PERMITS ROUTING/APPROVAL SLIP

FEB 08 2017

DEQ LOUISIANA

SOLID	☐	HAZARDOUS	☐	WASTE TIRES	☒	FINANCIAL ASSURANCE	☐
AI No.	3818	Company/Facility	K&H Automotive Services dba Midas	Date Routed	2/7/17		
SW ID No. EPA ID No. (HW)	16929	Parish	East Baton Rouge	Permit Type	☐ I ☐ I-A ☐ II ☐ II-A ☐ III HW: ☐ Operating ☐ Post-Closure ☐ RDD ☐ CA Only		
Permit No.	WT-5914	TEMPO Activity No.	NOT20170001	Originator	Stacy Martinez		

☐ Draft Permit	☐ Final Permit	☐ Major Modification ☐ Class 1[1] (HW)	☐ Minor Modification ☐ Class 2 (HW) ☐ Class 3 (HW)	☐ Approval of Construction ☐ Miscellaneous Approval	☐ Order to Close
☐ Closure Plan	☐ Extension	☐ NOD/Technical Review	☒ Correspondence/Letter		☐ Other

Description of Document: Waste Tire Generator Notification Form

1. Technical Review		Date Received	Date Returned to Originator, if done	Comments	Approved / Initials	Date Forwarded
ES	☒	2/2/17			SM	2/7/17
Engineering	☐					
Geology	☐					
Fin. Assurance	☐					
Tech. Advisor	☐					
Legal	☐					
Other	☐					

2. Management Review		Date Received	Date Returned to Originator, if done	Comments	Approved / Initials	Date Forwarded
Supervisor	☐					
Manager	☒	2-7-17	—	—	MT	2-8-17
Administrator	☐					
Asst. Secretary	☐					
Undersecretary	☐					
Secretary	☐					
Other	☐					

3. Additional Comments.

JOHN BEL EDWARDS
GOVERNOR

CHUCK CARR BROWN, PH.D.
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
ENVIRONMENTAL SERVICES

FEB 0 8 2017

K&H Automotive Services dba Midas
Attn: Mr. Alan Knight
2358 College Dr.
Baton Rouge, LA 70808

Re: Waste Tire Generator Notification Form (Waste Tire Generator)
2358 College Dr., Baton Rouge, LA 70808
Facility ID (R) #: 16929 Agency Interest #: 3818
Activity #: NOT20170001

Dear Mr. Knight:

The Department of Environmental Quality (LDEQ) has received your Waste Tire Generator Notification Form. Based on the information provided, the aforementioned facility has been classified as a waste tire generator effective September 1, 2016.

As a new/used tire dealer, you shall remit all waste tire fees generated from tire sales, to the Department, as per Louisiana Administrative Code (LAC) 33:VII.10519.D.1 on a monthly basis on or before the 20th day following the month during which the fees were collected. Additionally, you are required to submit a Monthly Waste Tire Fee Report (WT-02), as per LAC 33:VII.10519.D.2. This report shall be submitted on or before the 20th day of each month, **including months in which no fees were collected.** Failure to remit the fees due and/or failure to submit the WT-02 in the manner and time prescribed may result in applicable enforcement actions, including, but not limited to the issuance of civil penalties, and/or the revocation or suspension of the applicable authorization(s). A copy of the WT-02 form which will assist in automatically calculating the amount owed to the Department can be found at the following link: **http://www.deq.louisiana.gov/portal/PROGRAMS/WasteTires.aspx**

For your convenience, please find enclosed the following: A copy of the application, a copy of the WT-02 form located on LDEQ's website, Waste Tire Generator Guidance Document, Waste Tire Customer Notice (this shall be posted where it is visible to customers), WT-02 form due dates, list of Waste Tire Transporters, and a list of Waste Tire Processors. You can contact any of the approved transporters or processors to schedule a pick up for your waste tires. The **Agency Interest Number** (AI#) must be referenced on all future correspondence regarding waste tires and on the Waste Tire Manifest forms. Please be advised that the waste tire regulations have been revised effective February 20, 2016. You may access the most current regulations at the following link:
http://www.deq.louisiana.gov/portal/PROGRAMS/WasteTires.aspx

If you need further assistance, please contact us at wastetires@la.gov or (225) 219-5337.

Sincerely,

Mia P. Townsel

Mia P. Townsel
Environmental Scientist Manager
Waste Permits Division

sm
Enclosures

WASTE TIRE GENERATOR NOTIFICATION FORM

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL SERVICES
WASTE PERMITS DIVISION
P.O. Box 4313
Baton Rouge, Louisiana 70821-4313

Done 2/1/17

AGENCY INTEREST #: # 3818

DEQ FACILITY NUMBER: R-

In order for the Department to process this form, all sections must be completed and the original signed copy must be mailed to the Department at the address above. A *guidance* document has been prepared by the Department of Environmental Quality (LDEQ) to assist in completing this form and should be consulted prior to providing responses to the information required to be contained in this application. If you have questions concerning this form, please email wastetires@la.gov.

1. TYPE OF APPLICATION

- [X] New Application
- [ ] Name Change
- [ ] Information Update†
- [X] Change in Ownership*
- [ ] Change in Physical Location*

Date Business Opened: AUG 1, 2016
Date of Tire Sales: SEPT 1, 2016
Date of Change:

*Section 3 must be completed for changes in ownership or location †Explanation must accompany form

2. APPLICANT INFORMATION

Name of Business or Governmental Organization: K&H AUTOMOTIVE SERVICES/DBA MIDAS
Name of Business Owner: ALAN KNIGHT
Facility Physical Address:
(street) 2358 COLLEGE DR
(city, state, zip) BATON ROUGE, LA 70808
Parish: EAST BATON ROUGE
Phone Number: 225-926-8040
Number of Locations Owned: 1

Property Owner: (if leased, a copy must be provided) RODOSTA MOTOR
Waste Tire Contact Person: (if different from business owner) ALAN KNIGHT
Business Mailing Address:
(street) 2358 COLLEGE DRIVE
(city, state, zip) BATON ROUGE, LA 70808
Waste Tire Contact Phone Number: 225-926-8040
Waste Tire Contact Email Address: AMK527@YAHOO.COM
Driver's License Number: **State:** (attach copy)

Federal Tax ID or Social Security Number: 81-2357660

State Tax ID: (attach copy of SOS Certificate) 1649971-001

3. PREVIOUS OWNERSHIP OR LOCATION INFORMATION

Previous Owner Business Name: SARA PEPITONE
Previous Physical Location Address: 5950 S SHERWOOD FOREST
Previous AI Number: 225-293-9433

4. GENERATION OF TIRES

Functions of Business: (check all that apply)

- [X] New Tire Dealer
- [ ] New Vehicle/ATV/UTV Dealer
- [ ] Retread Facility
- [ ] Landfill
- [ ] Used Tire Dealer
- [ ] Used Vehicle/ATV/UTV Dealer
- [ ] Fleet Operator
- [ ] Authorized Collection Center
- [ ] Salvage¥ (attach copy of Auto Dismantler or Crusher License)
- [ ] Wholesale Tire Sales
- [ ] Tire Generator – No Sales¥
- [ ] Ineligible
- [ ] Parish/DOTD Collection Center
- [ ] Other¥

Explanation must be provided¥:

Exemptions: (check all that apply)

- [ ] Go/Golf-Cart Tires
- [ ] Small Lawn/Yard Equipment
- [ ] Bicycle

5. CERTIFICATION

I personally examined and am familiar with the information submitted in this document, and I hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

AUTHORIZED SIGNATURE: Alan Knight DATE: 1-25-2017

PRINTED NAME: ALAN KNIGHT

Revised 09/29/2016

JUL 2 9 1990 Peace 1/23 to EPA

LOUISIANA NOTIFICATION OF HAZARDOUS WASTE ACTIVITY

STATE OF LOUISIANA
HAZARDOUS WASTE DIVISION
OFFICE OF SOLID AND HAZARDOUS WASTE
DEPARTMENT OF ENVIRONMENTAL QUALITY
P.O. BOX 44307 BATON ROUGE, LA 70804

INSTALLATION'S EPA ID NUMBER	Date Received Mo. Day Yr.	Notification: first subsequent
LAD985173483	07 23 90	☒ ☐

Name of Installation (include company and specific site name)
Essen Lane Dental Office

RECEIVED
JUL 27 1990
RCRA PROGRAMS BRANCH

Installation location address (physical address, not P. O. Box)
STREET: 5211 Essen Ln #5
CITY OR TOWN: Baton Rouge
STATE: LA
ZIP CODE: 70809

LATITUDE: | LONGITUDE:

PARISH NAME	PARISH CODE	SIC CODE
East Baton Rouge	033	8021

Installation contact (person to be contacted regarding waste activities at site)

Last Name	First Name	Job Title	Phone Number
Stockstill	Beverly		504 769-7110

Installation mailing address
Street, P.O. Box or Route Number: Same
City or Town: | State: | Zip Code:

TYPE OF HAZARDOUS WASTE ACTIVITY (mark 'X' in the appropriate boxes. Refer to instructions)

ENTD OCT 10 1990

GENERATOR:
- ☐ greater than 1000 kg / mo
- ☐ 100 to 1000 kg / mo
- ☒ less than 100 kg / mo
  - ~~☒ LA SQG # only~~
  - ☐ EPA # only
- ☐ on-site reuse / recycle operation
- ☐ less than 90 day storage in tanks

OCT 10 ENTD

☐ **TREATER, STORER, DISPOSER** (at installation)
* NOTE: a permit is required for this activity; see instructions.

TRANSPORTER:
- ☐ for own waste only
- ☐ for commericial purposes

Mode of Transportation (transporters only)
☐ highway ☐ rail ☐ air ☐ water

Transfer Facility Status: (month, day, year)
requested _____
received _____

HAZARDOUS WASTE FUEL
- ☐ generator marketing to burner
- ☐ marketer
- ☐ burner- type of combustion device
  - ☐ utility boiler ☐ industrial boiler ☐ industrial furance

USED OIL FUEL ACTIVITIES

- ☐ Off—Specification Used Oil Fuel
  - ☐ generator marketing to burner
  - ☐ marketer
- ☐ Used Oil Collector / Transporter
- ☐ Used Oil Broker (but not marketer)
- ☐ Specification Used Oil Fuel Marketer (or burner) Who First Claims the Oil Meets the Specification
- ☐ burner --- type of combustion device
  - ☐ utility boiler ☐ industrial boiler
  - ☐ industrial furnance

OWNER (legal owner of installation; include property owner at bottom *, if different)

NAME: DR KIRBY PERRY

PHONE: 504769-7710

STREET: 5211 ESSEN LN #5

CITY OR TOWN: Baton Rouge

STATE: LA

ZIP CODE: 70809

INSTALLATION CLASSIFICATION (see instructions)

Owner type: P

Operator type: P

Property type: P

DESCRIPTION OF REGULATED WASTES

A. Characteristic Hazardous Wastes (see 40 CFR 261.20--24 and LAC 33:V. 4903 B,C,D,E)

- ☐ ignitable (D001)
- ☐ corrosive (D002)
- ☐ reactive (D003)
- ☒ EP toxic (D004--D017) D011

B. Listed Hazardous Wastes (see 40 CFR 261.30--33 and LAC 33:V.4901 B,C,E,F)

RECEIVED
JUL 23 1990
Dept. of Environmental Quality
Hazardous Waste Division

CERTIFICATION

I certify that the information provided herein and appended hereto is true and accurate to the best of my knowledge, information and belief. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Signature: X [signature]

Name and Title (print or type): RECEIVED MAY 22 1990 Dept. of Environmental Quality Hazardous Waste Division

Date Signed: 5-21-90

HW--1 (R 12/89)
8700-12 (R 12/89)

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF MANAGEMENT & FINANCE

August 16, 2011

Sami's Auto Place Inc
Attn: Waste Tire Contact
2929 College Dr
Baton Rouge, LA 70808

RE: Waste Tire Notification Form
2929 College Dr, Baton Rouge, LA 70808
Facility ID No. R - 15461
Account ID No. WT 5198
Agency Interest ID No. 177025

Dear Waste Tire Contact:

The Department has received your Waste Tire Generator Notification Form. Based on the information provided in the completed form, your facility has been classified as a waste tire dealer effective: August 16, 2011

The **Agency Interest number** must be referenced on all future correspondence with this Department regarding waste tires. The Waste Tire Manifest form requires the above referenced agency interest number and facility number where indicated. Attached is a list of Waste Tire Processors to contact when you are ready for tires to be picked up.

As a new/used tire dealer you will be expected to return your completed Monthly Waste Tire Fee Report along with the generated fees by the 20th day of each month following the sale. This form must be submitted each month whether or not there have been any sales. **Keep the original Fee Report as a master for which copies are to be made for each monthly submittal.**

If you have more than one location, a separate monthly report must be completed for each site, although you may send one check for the waste tire fees of all sites combined. Checks should be made out to the Department of Environmental Quality and mailed to the Office of Financial Services at Post Office Box 4311, Baton Rouge, Louisiana 70821-4311 (the address at the top of the Monthly Waste Tire Fee Report).

If you need further information, you may contact the Financial Services Division at (225) 219-3863.

Sincerely,

Keri Meyers

Keri Meyers
Environmental Scientist Staff

KM/pr
Enclosure

NOTE: It is the applicant's responsibility to read, understand, and follow LDEQ's Waste Tire Rules and Regulations. Failure to comply with the Waste Tire Regulations may result in civil and/or criminal penalties and will be subject to enforcement actions in accordance with Title 33, Part VII, Subpart 2; 10537. A copy of the Waste Tire Rules and Regulations are available at this link: http://www.deq.louisiana.gov/portal/LinkClick.aspx?link=planning%2fregs%2ftitle33%2f33v07.doc If you do not have internet access, or need assistance in obtaining a copy of these regulations, call (225) 219-3550.

RECEIVED
JUN 27 2011
FINANCIAL SERVICES

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Financial Services Division

WASTE TIRE GENERATOR NOTIFICATION FORM

GENERAL INFORMATION: Use ink, and print or type all items except where a signature is required. *Forms completed in pencil will not be accepted. Original form must be mailed to the department. A separate form must be completed for each facility/location.*

RETURN COMPLETED FORM TO: LDEQ Financial Services Division, Post Office Box 4303, Baton Rouge, LA 70821-4303 Phone: (225) 219-3863

DEQ Facility No: R- 15461 DEQ Account No: WT- 5198

Agency Interest No: 177025 *(Please provide numbers unless this is for a first-time applicant)*

I. Type of Application *(Completion of this section is mandatory for all applications)*

☒ New Application Date business opened or will open: 4/20/11

☐ Information Update ☐ Change Ownership ☐ Name Change ☐ Change of Physical Location

II. Applicant Information *(Completion of this section is mandatory for all applications)*

Name of Business/ Government or Organization: Sami's Auto Place LLC	Business/ Property Owner: Sami Shoukri
	Contact Person if different from Owner: Sami
Physical Location/Street Address: 2929 college Dr	Business Mailing Address: 2929 college Dr
City, State, Zip: Baton rouge. LA. 70808	City, State, Zip: Baton rouge. LA. 70808
Parish: EAST	Contact Phone No. with area code (225) 232 0767
Number of Locations Owned: 1	FAX No: 225 / 232 0767
Federal Tax ID No: 27 - 3785982	State Tax ID No: 0090619

III. Previous Ownership or Location Information *(If change of ownership or new location, complete information below)*

Previous Owner's Name:	Physical Address of Location (No PO Box)	Previous Agency Interest No. (AI#)

IV. Generation of Tires *(Completion of this section is mandatory for applications)*

Functions of Business: *(check all that apply)*

☐ New Tire Dealer	☑ Used Tire Dealer	☐ Parish/DOTD Collection Center
☐ New Vehicle Dealer	☐ Used Vehicle Dealer	☐ Retread Facility
☐ Provide a service with consignment tires		☐ Ineligible/Out of State Tires
☐ Wholesale Tire Sales (New/Used)		☐ Maintain National Accounts
☐ Landfills	☐ Tire Generator - No Sales	☐ Salvage
☐ Airline	☐ Military Installation	☐ Authorized Collection Facility
☐ Fleet Operator	☐ Other (please explain)	

Exemptions to be used: *(check all that apply)*

☐ ATV Off Road Tires	☒ Tires Sold on Used Car	
☐ Go/Golf-Cart Tires	☐ Yard Equipment *	☐ Bicycle Tires

* **Tires used on small yard equipment such as lawnmowers, edger, wheelbarrow, etc.**

V Certification

I have personally examined and am familiar with the information submitted in this document and LAC 33:VII.Chapter 105, and hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sami Shoukri — Authorized Signature
6/27/11 — Date
Sami Shoukri — Print Name
Owner — Title of Signatory

Revised 11/2009

6/29 Mr Sami did not understand WT Rules & Regs & ask for a hard copy- Hard Copy was mailed with the One Time Approval letter-

8/19/11 - I called and spoke to Mr. Sami on 8/19/11. He stated he read the regs we sent & understands them. We will still mail another copy of the regs with this application. Keri Meyers

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FINANCIAL SERVICES DIVISION
POST OFFICE BOX 4311
BATON ROUGE LA 70821-4311

MONTHLY WASTE TIRE FEE REPORT

BUSINESS NAME:	*Sami's Auto Place Inc*
TELEPHONE NUMBER:	*2252370767* CONTACT NAME: Sami Shawkri
MAILING ADDRESS:	*2929 College Dr, Baton Rouge, LA 70808*
STREET ADDRESS:	*2929 College Dr, Baton Rouge, LA 70808*
DEQ ACCOUNT **WT** NUMBER:	*17-5198* AGENCY INTEREST (**AI**) #: *177025*

☐ Check this box if changes have been made to the facility name, phone #, street or mailing addresses, or contact information.

☐ Check this box if you are no longer in business of selling tires. In the space below, indicate the date you went out of business.

Status Change Date:

FEE RETURNED FOR WHICH MONTH AND YEAR: (CIRCLE ONE MONTH ONLY)

JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC **YEAR:**

This report is due no later than the 20th day after the end of the reporting month. (Example: January report is due no later than February 20th)

NOTE: A SEPARATE REPORT MUST BE FILED FOR EACH MONTH

TIRES SOLD	***AMOUNT (tires)***		***REMITTED($)***
NUMBER OF NEW TIRES SOLD THROUGH RETAIL:			
PASSENGER / LIGHT TRUCK	_____	x $2 =	_____
MEDIUM TRUCK	_____	x $5 =	_____
OFF ROAD	_____	x $10 =	_____
RETREAD TIRES	_____	x $1.25 =	_____
NUMBER OF USED TIRES SOLD THROUGH RETAIL:			
PASSENGER / LIGHT TRUCK	_____	x $2 =	_____
MEDIUM TRUCK	_____	x $5 =	_____
OFF ROAD	_____	x $10 =	_____
NUMBER OF TIRES SOLD WOTH A NEW MOTOR VEHICLE SALE:			
PASSENGER / LIGHT TRUCK	_____	x $2 =	_____
MEDIUM TRUCK	_____	x $5 =	_____
OFF ROAD	_____	x $10 =	_____

TOTAL CHECK AMOUNT: **$**

NUMBER OF EXEMPTED TIRES [1] : (Fees not Collected)

PASSENGER / LIGHT TRUCK (tires sold on used motor vehicles) _____
OFF ROAD TIRES (includes ATV, Go/Golf Cart, bicycle, lawn mower tires) _____
OTHER (includes tires weight over 500lbs) _____

Please make check payable to:
LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
and mail to the address above
*****QUESTIONS CONCERNING THIS FORM MAY BE DIRECTED TO (225) 219-3863*****

Certification: I personally examined and am familiar with the information submitted in this document, and I hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

AUTHORIZED SIGNATURE: _____ ***DATE:*** _____

1 MUST BE REGISTERED WITH DEQ AS A SELLER OF EXEMPT TIRES

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF MANAGEMENT & FINANCE

July 5, 2011

Sami's Auto Place Inc
Attn: Waste Tire Contact
2929 College Dr
Baton Rouge, LA 70808

RE: Temporary Waste Tire Generator Authorization Number
2929 College Dr, Baton Rouge, LA 70808
SRG No. - 788
Facility ID No. - 15461
Agency Interest ID No. - 177025

Dear Waste Tire Contact:

The Department has received your Waste Tire One Time Cleanup form. Based on the information provided in the completed form, you have been classified as a one time cleanup effective: July 5, 2011.

The maximum amount of 200 tires located at the above referenced facility is to be processed by Environmental Industries Recycling.

The agency interest number must be referenced on all future correspondence with the Department. The above referenced agency interest number and facility number is required on the Waste Tire Manifests where indicated. It is the understanding of the Department that you are assuming full responsibility for payment to the processor for any charges related to the aforementioned tires. This authorization will expire on **9/3/2011** , sixty (60) days after the date of this letter.

If, for some reason, it appears that the tires will not be picked up by the expiration date stated above, our office should be notified prior to the expiration date if you would like to request an extension.

If you need further information, you may contact the Financial Services Division at (225) 219-3863.

Sincerely,
Keri Meyers

Keri Meyers
Environmental Scientist Staff

KM/pr
Enclosure

C: Environmental Industries Recycling.

NOTE: It is the applicant's responsibility to read, understand, and follow LDEQ's Waste Tire Rules and Regulations. Failure to comply with the Waste Tire Regulations may result in civil and/or criminal penalties and will be subject to enforcement actions in accordance with Title 33, Part VII, Subpart 2; 10537. A copy of the Waste Tire Rules and Regulations are available at this link: http://www.deq.louisiana.gov/portal/LinkClick.aspx?link=planning%2fregs%2ftitle33%2f33v07.doc If you do not have internet access, or need assistance in obtaining a copy of these regulations, call (225) 219-3550.

RECEIVED
JUN 27 2011
DEQ-FINANCIAL SERVICES

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY
Financial Services Division

WASTE TIRE ONE TIME CLEANUP/TRASH BASH FORM

GENERAL INFORMATION: Use ink, and print or type all items except where a signature is required. ***Forms completed in pencil will not be accepted. Original form must be mailed to the department. A separate form must be completed for each facility/location.***

RETURN COMPLETED FORM TO: LDEQ Financial Services Divison, Post Office Box 4303, Baton Rouge, LA 70821-4303 Phone: (225) 219-3863

DEQ Facility NO: 15461 *(To be assigned by the Department)*

Agency Interest NO: 177035

SRG 788

I. Type of Application *(completion of this section is mandatory for all applications)*

☒ One Time Cleanup (30 day cleanup) ☐ Trash Bash (one day event)

II. Applicant Information *(completion of this section is mandatory for all applications)*

Name of Business/ Government or Organization: SAM.S AUTO PLACE LLC	Business/ Property Owner: SAM. Shaukri
	Contact Person if different from Owner: SAM.
Physical Location/Street Address: 2929 College Drive	Business Mailing Address: 2929 College Drive
City, State, Zip: Baton Rouge, LA 70808	City, State, Zip: Baton Rouge, LA 70808
Parish: EAST	Contact Phone No: (225) 235-0767
	FAX No: 2096019

III. One Time Cleanup and Trash Bash Information: *(completion of this section is mandatory for all applications)*

☐ Promiscuous Dump ☐ Called-in complaint ☒ Found on Property ☑ Trash Bash: Event Date ☐ Other

Number of Tires: 150 200 per Sami

Please provide information on how these tires were generated: It is a used Tire Shop. Tire that are no good.

**** PROCESSOR INFORMATION**:**

Permitted Processor to be used: Env. Ind. Recycling per Conversation w/ Sami on 6/21/11

(**you must contact a processor from list below and indicate your choice in space above)

IV. Certification

I have personally examined and am familiar with the information submitted in this document and LAC 33:VII.Chapter 105, and hereby certify under penalty of law that this information is true, accurate, and complete to the best of my knowledge. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Sami Shaukri — Authorized Signature

6/21/11 — Date

Sami Shaukri — Print Name

Owner — Title of Signatory

For One Time Cleanup, please contact a processor from below and list your choice in Section III:

Benson Environmental Services Sibley, LA 318-371-6692	**Colt, Inc.** Scott, LA 337-235-0353
Cottonport Monofill Cottonport, LA 318-876-3327	**Environmental Industries Recycling** Port Allen, LA 225-344-8298
Winnsboro Rubber Recyclers LLC Winnsboro, LA 318-412-8199	

Revised 10/2008

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

August 12, 2014

Sami's Auto Place, Inc.
c/o Sami Shoukri, Owner
2929 College Drive
Baton Rouge, LA 70808

RE: DEFICIENCY CLEAR LETTER
Agency Interest # 177025
TEMPO ACTIVITY NUMBER: INS20140001

Dear Sami Shoukri:

Based on the information submitted and actions reported as being taken by Sami's Auto Place, Inc., the Louisiana Department of Environmental Quality, (LDEQ) has determined that the areas of concern identified in the Notice of Deficiency dated May 8, 2014, have been adequately addressed.

For each area of concern noted in the Notice of Deficiency dated May 8, 2014, the LDEQ reserves the right to seek civil penalties in any manner allowed by law, and nothing herein shall be construed to preclude the right to seek such penalties.

Sincerely,

Bobby J. Mayweather
Regional Environmental Scientist Manager
OEC/Inspection Division

Daniel Cheatham, Inspection Division
SW

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INTRA-AGENCY ROUTING FORM

TO: Enforcement Division

FROM: Inspection Division

Routing Date: 4/16/2014

Facility Information

Company Name:

Facility Site Name: Sami's Auto Place, Inc.

Agency Interest No: 177025	**Alt. AI No:** R-15461
Mailing Address: 2929	**Physical Address:** 2929
Street: College Dr.	**Street** College Dr.
City, State, Zip: Baton Rouge, LA 70808	**City, Parish** Baton Rouge, East Baton Rouge

Responsible Party/Contact Person: Sami Shoukri - Owner

Responsible Party/Contact Person Telephone No: **225-237-0767**

Inspection/Referral Information

Inspection Date: 4/16/2014 Hours Spent On Inspection/Report: 4

Media: Check all that apply

Air (inc. asbestos/lead):	☐	Water:	☐	Haz. Waste:	☐	Risk MPs:	☐	Remediation:	☐
Solid Waste (inc. tires):	☒	UST:	☐	Radiation:	☐	Stage 1 & 2:	☐		

Complaint? ☐ Yes ☒ No **Follow up?** ☐ Yes ☒ No *If yes* *Enforcement Action Number*

Inspector/Team Leader Name: Daniel Cheatham

Inspector/Team Leader Contact No.: 225-219-3026

Approved By:	Robert Crain	**Date:**	4.29.14
Approved By:	Billy Maynewether	**Date:**	5/1/14
Circuit Rider Review:	Diane Matthews	**Date**	5-6-14 NOD

Revised 02/08/2013

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 17725 INSPECTION DATE: 4-16-2014 TIME OF ARRIVAL: 2:15

ALTERNATE ID#: R-1546 (ID Type/Number) DEPARTURE DATE: 4-16-2014 TIME OF DEPARTURE: 3:10

FACILITY NAME: Sami's Auto Place PHONE #: (225) 237-0767

LOCATION: 2929 College Dr, Baton Rouge, La 70808

PARISH: E. Baton Rouge (17)

RECEIVING STREAM (BASIN/SUBSEGMENT):

MAILING ADDRESS: Same
(Street/P.O. Box) (City) (State) (Zip)

FACILITY REPRESENTATIVE: Sami Shaiki TITLE: Owner

FACILITY REPRESENTATIVE PHONE NUMBER:

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above):

INSPECTION TYPE: FCSIICI PROGRAM INVOLVED: AIR ☐ WASTE ☑ WATER ☐ OTHER:

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

I conducted a waste tire inspection at the above facility and noted the following:
- The Customer Waste Tire notice was not posted at the time of the inspection.
- Waste tires are being stored outside and uncovered behind the building.
- The facility could not provide three years (since June 2011) of sales invoices, purchase invoices, waste tire fee reports, or manifests. According to Mr. Shaiki, he did not make a copy of the Waste Tire Fee Reports, he did not always review a purchase/wholesale invoice for eac~~h~~ does he always generate a receipt for tire sales.
- The facility does not list the fee on the sales invoices. Additionally, the amount of fee charged is based on the number of tires picked up.

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES ☐ NO ☐
		YES ☐ NO ☐

PHOTOS TAKEN: YES ☑ NO ☐ SAMPLES TAKEN: YES ☐ NO ☑ (Attach Chain-of-Custody)

RECEIVED BY SIGNATURE: Sami Sh

PRINT NAME:
(NOTE: SIGNATURE DOES NOT INDICATE AGREEMENT WITH INSPECTOR'S NOTES)

INSPECTOR(S): Daniel J. Cheatwood CROSS REFERENCE:

ATTACHMENTS:

REVIEWER: Robert Crain

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

REVISED: 12/06/2011

COMPLIANCE INSPECTION REPORT
WASTE TIRE GENERATORS

AI #:	177025	**FID #:**	R-15461		
AI NAME:	Sami's Auto Place, Inc.			**INSPECTION DATE(S):**	4/16/2014
Physical Location	2929 College Dr.				
	Baton Rouge (City)	LA (State)	**Parish:**	East Baton Rouge	
Mailing Address:	2929 College Dr. (Address)	Baton Rouge (City)	LA (State)	70808 (Zip)	
Facility Representative/Title:	Sami Shoukri - Owner				
Facility Representative Telephone No:	225-237-0767				
Lead Inspector:	Daniel Cheatham				
Other Inspector(s):					

Summary of Findings/Comments

On April 16, 2014, I conducted a Waste Tire Generator Inspection at Sami's Auto Place, Inc. At the time of the inspection, I spoke with Sami Shoukri. The following observations were noted:
-The customer waste tire notice was not posted at the time of the inspection.
- Waste tires are being stored outside and without adequate cover to prevent standing water inside of the tires.
- The facility could not provide three years (opened June 2011) of sales invoices, purchase invoices, waste tire free reports or completed waste tire manifests from 2011 and part of 2012. According Mr. Shoukri, he does not make a copy of the Waste Tire Fee report prior to sending the form to LDEQ, he does not always receive a purchase invoice for the used tires he sales, and he does not always generate a sales invoice for tire sales.
- The facility does not list the fee on the sales invoice. Additionally, the amount of fee remitted to LDEQ is based on the number of tires picked up, not sold.

Report By:	Daniel J. Cheatham	4-23-2014
	Daniel Cheatham, Environemental Scientist	(Date)
Reviewed By:	Robert Crain Environmental Scientist Supervisor	April 29, 2014
	Bob Crain, Environmental Scientist Supervisor	(Date

AI #:	177025	FID #:	R-15461	
AI NAME:	Sami's Auto Place, Inc.	INSPECTION DATE(S):	4/16/2014	

Section A Generator Requirements	Compliance	Comments/AOC Description
1. Does the facility store more than 20 whole waste tires? If yes, continue. (10509 B.)	☒ Yes ☐ No ☐ N/A	
2. Does the tire generator have an ID number? (10519. A)	☐ Yes ☐ No ☐ N/A	
If yes, what is the number?		
3. Does the tire dealer accept one waste tire for every new tire sold? If no, explain further. (10519.B)	☒ Yes ☐ No ☐ N/A	
4. Does the tire dealer have the required signs posted providing notification to the public? (10519.E)	☐ Yes ☒ No ☐ N/A	The facility did not have the Waste Tire Customer Notice posted at the time of the inspection.
5. Does the tire dealer have the waste tire fee listed on a separate line of the retail sales invoice? No tax of any kind should be applied to this fee. (10519.F)	☐ Yes ☒ No ☐ N/A	The facility does not list the waste tire fee on the sales invoice.
6. Has the generator notified LDEQ within 10 days upon closure of business or relocation of business? (10519.L)	☐ Yes ☐ No ☒ N/A	
7. Are tire wholesalers maintaining records of all related tire sales, maintaining them for three years, and providing documentation to LDEQ upon inspection? (10519.O)	☐ Yes ☐ No ☒ N/A	
8. Does the generator of waste tires maintain a complete record of purchase invoices, inventory records, and sales invoices for a period of no less than three years? (10519.P)	☐ Yes ☒ No ☐ N/A	The faciliy could not provide three years worth of sales invoces or purchase invocies.
Were these records made available for inspection or audit by administrative authority?	☐ Yes ☒ No ☐ N/A	

Section B Fee Requirements	Compliance	Comments/AOC Descriptions
1. Does the tire dealer collect the appropriate fee upon the sale of each new tire? (10519.C)	☐ Yes ☒ No ☐ N/A	The facilitty determines the amount of waste tire fee due by the number of waste tires picked up.
a. Collect the $2 waste tire fee upon the sale of each passenger/light truck tire.	☐ Yes ☒ No ☐ N/A	
b. Collect $5 waste tire fee upon the sale of each medium truck tire.	☐ Yes ☐ No ☒ N/A	
c. Collect $10 waste tire fee upon the sale of each off-road tire.	☐ Yes ☐ No ☒ N/A	
d. Collect $1.25 for the sale of recapped or retreaded tires.	☐ Yes ☐ No ☒ N/A	
2. Does the tire dealer remit the waste tire fee to the LDEQ on a monthly basis? If no, please explain in narrative? (10519.D)	☒ Yes ☐ No ☐ N/A	
a. Is the fee submitted to LDEQ on the Monthly Waste Tire Fee Report (Form WT-02)?	☒ Yes ☐ No ☐ N/A	
b. Are the reports submitted to LDEQ by the 20th of each month for the previous month's activities?	☐ Yes ☒ No ☐ N/A	The facility has submitted multiple Waste tire fee reports after the 20th of the following month.
c. Does the facility keep a complete record of quantity of tires sold, sales invoices, purchase notices, etc used to determine amount of fee due?	☐ Yes ☒ No ☐ N/A	
d. Are copies of these records maintained on-site for review?	☐ Yes ☒ No ☐ N/A	
e. Are copies maintained on-site for three (3) years?	☐ Yes ☒ No ☐ N/A	The facility could not provide any Waste Tire Fee Reports at the time of the inspection.

3. List the year and check off the months of Waste Tire Fee Reports examined during inspection.

Year	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec

Section C Manifests Requirements	Compliance	Comments/AOC Description
1. Does the facility comply with the manifest requirements of 10533? (10519.G)		
a. Is a waste tire manifest initiated for all waste tire shipments of 20 or more tires by the generator? (10533.A.1)	☒ Yes ☐ No ☐ N/A	
b. Are tires transported in Louisiana that are not eligible tires	☒ Yes ☐ No ☐ N/A	

AI #:	177025	FID #:	R-15461		
AI NAME:	Sami's Auto Place, Inc.			INSPECTION DATE(S):	4/16/2014

c. Has the generator received the completed copies of the tire manifest within 30 days of manifest origination date? If no, please explain in narrative. (10533.B)	☐ Yes ☒ No ☐ N/A	

d. List below the number of Waste Tire Manifests examined during the inspection.

Year	Jan	Feb	Mar	April	May	June	July	Aug	Sept	Oct	Nov	Dec
2011												
2012												
2013				Ĉ								
2014												

e. Does the waste tire generator maintain copies of the manifest for a minimum of three years? (10533.D)	☐ Yes ☒ No ☐ N/A	Facility was missing completed manifests from 2011 and part of 2012.
5. Is an authorized transporter being utilized to transport the waste tires? (10519.K)	☒ Yes ☐ No ☐ N/A	
Name and waste tire number of transporter:		Environmental Industries Recycling RT-4545

Section D Storage	Compliance	Comments/AOC Description
1. Is the waste tire generator providing adequate cover to exclude water from within the waste tires, providing for vector control, and controlling standing water in the containment area? (10519.H)	☐ Yes ☒ No ☐ N/A	The waste tires are being stored without a cover to prevent standing water inside of the tires.
2. Is the waste tire generator storing tires for more than 120 days after receipt or generation of waste tires? If yes, please explain in narrative. (10519.I)	☐ Yes ☒ No ☐ N/A	
3. Has generator segregated waste tires from usable tires offered for sale? (10519.M)	☒ Yes ☐ No ☐ N/A	
4. Is the waste tire generator collecting/storing waste tires on property contiguous to their facility? (10519.J)	☒ Yes ☐ No ☐ N/A	

Section E Standards & Responsibilities of Motor Vehicle Dealers	Compliance	Comments/AOC Description
1. Has the Dealer notified LDEQ within 30 days of commencement of business? (10521.A)	☐ Yes ☐ No ☒ N/A	
2. Does the Dealer collect the waste tire fees according to Section B.1 of this checklist? (10521.B). Please complete Section B.1 of this checklist.	☐ Yes ☐ No ☒ N/A	
3. Does the tire dealer remit the waste tire fee to the LDEQ on a monthly basis? If no, please explain in narrative? (10521.C)	☐ Yes ☐ No ☒ N/A	
a. Is the fee submitted to LDEQ on the Monthly Waste Tire Fee Report (Form WT-02)?	☐ Yes ☐ No ☒ N/A	
b. Are the reports submitted to LDEQ by the 20th of each month for the previous month's activities?	☐ Yes ☐ No ☒ N/A	
c. Does the facility keep a complete record of quantity of tires sold, sales invoices, purchase notices, etc used to determine amount of fee due?	☐ Yes ☐ No ☒ N/A	
d. Are copies of these records maintained on-site for review?	☐ Yes ☐ No ☒ N/A	
e. Are copies maintained on-site for three (3) years?	☐ Yes ☐ No ☒ N/A	
4. Does the tire dealer have the required signs posted providing notification to the public? (10521.D)	☐ Yes ☐ No ☒ N/A	
5. Does the tire dealer have the waste tire fee listed on a separate line of the retail sales invoice? No tax of any kind should be applied to this fee. (10521.E)	☐ Yes ☐ No ☒ N/A	
6. Has the generator notified LDEQ within 10 days upon closure of business or relocation of business? (10521F)	☐ Yes ☐ No ☒ N/A	
7. Has the generator complied with the manifest requirements of 10533? Please complete Section C of this checklist to determine compliance. (10521.G)	☐ Yes ☐ No ☒ N/A	
8. Has the generator complied with the storage requirements of 10519.H. Please complete question D.1 of this checklist. (10521.H)	☐ Yes ☐ No ☒ N/A	

Site	Sami's Auto Place, Inc.	Location:	2929 College Dr.		
AI#	177025				
City:	Baton Rouge	Parish:	E.B.R.	Photographer	Daniel Cheatham

Photo #: 1 Date: 4/16/2014

Description: Photo of the waste tire pile behind the shop.

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY
OFFICE OF ENVIRONMENTAL COMPLIANCE

May 8, 2014

CERTIFIED MAIL (7005 0390 0006 1031 9282)
RETURN RECEIPT REQUESTED

Sami's Auto Place, Inc.
c/o Sami Shoukri, Owner
2929 College Drive
Baton Rouge, LA 70808

RE: NOTICE OF DEFICIENCY
Agency Interest # 177025
TEMPO ACTIVITY NUMBER: INS20140001

Dear Sami Shoukri:

On or about April 16, 2014, an inspection of the above referenced facility was conducted to determine compliance with the Louisiana Environmental Quality Act and supporting regulations. The facility is located at 2929 College Drive, Baton Rouge, East Baton Rouge Parish, Louisiana. The following areas of concern were noted in the inspection report and/or subsequent file review:

LAC 33:VII.10519.C – The facility failed to collect the appropriate fees upon the sale of each new tire.

LAC 33:VII.10519.E – The facility did not have the Waste Tire Customer Notice posted at the time of the inspection.

LAC 33:VII.10519.F – The facility does not list the waste tire fee on the sales invoice.

LAC 33:VII.10519.P – The facility could not provide three years worth of sales invoices or purchase invoices.

LAC 33:VII.10519.D – The facility could not provide any Waste Tire Fee Reports at the time of the inspection. The facility submitted multiple Waste Tire Fee Reports after the 20th of the following month.

LAC 33:VII.10519.G – Facility was missing completed manifests from 2011 and part oaf 2102.

LAC 33:VII.10519.H 0 The waste tires are being stored without a cover to prevent standing water inside of the tires.

We request that you review the areas of concern noted and submit a written response **within 30 days** of receipt of this letter. In your response, please include any action(s) you have taken to correct the above-mentioned areas of concern at your facility.

Please address your written response to:

Department of Environmental Quality
Office of Environmental Compliance
Inspection Division
P.O. Box 4312
Baton Rouge, LA 70821-4312
Attn: Ms. Tammy Jo Street
Re: Tempo Activity No. INS20140001
Agency interest No. 177025

Failure to satisfactorily resolve the areas of concern will result in a formal referral to the Enforcement Division and the possible issuance of civil orders and/or assessment of civil penalties. If you have any questions or comments regarding this matter, please contact Daniel Cheatham at (225) 219- 3026.

Sincerely,

Bobby J. Mayweather
Regional Environmental Scientist Manager
OEC/Inspection Division

BJM/tjs

c: Daniel Cheatham, Inspection Division
AI No. 177025
Alt. ID No. R-15461

IO-W

State of Louisiana

Department of Environmental Quality

M. J. "MIKE" FOSTER, JR.
GOVERNOR

MAY 20 2003

L. HALL BOHLINGER
SECRETARY

Certified Mail 7002 2030 0006 5943 7211
Return Receipt Requested

File No. LAR10C168
Agency Interest No. 109978 / GEN20030001

Mr. Matt Sasser
Bright-Meyers Baton Rouge Associates, L.P.
c/o Fletcher Bright Company
537 Market Street, Suite 400
Chattanooga, TN 37402

MAIN FILE COPY

Re: Storm Water Construction General Permit Coverage Notice
Louisiana Pollutant Discharge Elimination System (LPDES)

Dear Mr. Sasser:

Your Notice of Intent (NOI) dated March 25, 2003, for the Village Square Redevelopment, located on College Drive at Rabey Street in Baton Rouge, East Baton Rouge Parish, has been processed and is administratively complete.

This facility, if qualified under the conditions of the permit and unless notified otherwise by this office, is authorized to discharge storm water associated with construction activity under the terms and conditions established under Louisiana's LPDES Construction General Permit. Your facility's authorization number is LAR10C168. This number and the Agency Interest Number listed above should be referenced in all future correspondence with this office. This coverage replaces and cancels any previous authorization under the EPA Construction General Permit (LAR100000) issued September 9, 1992.

Attached for your use is a copy of the permit. This permit requires certain storm water pollution prevention and control measures, possible monitoring and reporting, and regular inspections. You must prepare and implement a storm water pollution prevention plan (SWPPP) that is tailored to your site. As a facility authorized to discharge under this general permit, all terms and conditions of the permit must be complied with in order to maintain coverage and to avoid possible penalties.

If you have any questions, please call Darlene Bernard or Yvonne Wingate in the Level 2 Industrial Permits Section at 225-765-0508.

Sincerely,

Jim Delahoussaye

Jim Delahoussaye, Environmental Scientist Manager
Level 2 Industrial Permits

Attachment: Construction General Permit and Discharge Monitoring Report Form
c: letter only
Capital Regional Office
Office of Environmental Compliance

IO-W

c: letter and NOI

DUPLANTIS
DESIGN GROUP, P.C.

314 East Bayou Road, Thibodaux, Louisiana 70301 Phone: 985.447.0090 • Fax: 985.447.7009

AI-109978 original to IOW
copy to L2/G2/Cedars
AUG

TRANSMITTAL MEMO

MAIN FILE

Date: April 1, 2003

To: LA Department of Environmental Quality

Company: Permits Division
7290 Bluebonnet Boulevard
Baton Rouge, LA 70810

225.765.2777

LDEQ-OES
'03 APR -2 P1:24
PERMITS DIVISION

From: Ricky Galloway

Re: Meyers Brothers Properties- Village Square, Baton Rouge, LA (College Drive)

Project Number: 02.303

Comments/Remarks: Please find enclosed NOI for the Village Square Shopping Center project. Please review and do not hesitate to call with any questions.

Via: FedEx 04/01/03 Regular Mail

Cc:

LDEQ-OES

CSW-G (09-00)
Page 1 of 2

'03 ABR -2 P1:24

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

PERMITS DIVISION

Permits Division
Post Office Box 82135
Baton Rouge, Louisiana 70884-2135
PHONE#: (225) 765-0508 or (888) 763-5424

LPDES NOTICE OF INTENT (NOI) TO DISCHARGE STORMWATER ASSOCIATED WITH CONSTRUCTION ACTIVITY

Submission of this Notice of Intent constitutes notice that the party identified in Section I of this form intends to be authorized by an LPDES permit issued for stormwater discharges associated with construction activity in Louisiana. Submission of this Notice of Intent also constitutes that implementation of the Storm Water Pollution Prevention Plan required under the general permit will begin at the time the permittee commences work on the construction project identified in Section II below.

SECTION I
FACILITY OWNER/OPERATOR INFORMATION
(PLEASE TYPE OR PRINT CLEARLY)

Name: Bright-Meyers Baton Rouge Associates, L.P. C/o Fletcher Bright Company

Address: 537 Market Street, Suite 400

City: Chattanooga

State: TN Zip Code: 37402

Phone: (404) 252-1499

Status of Owner/Operator P (F= Federal; S= State; M=Public (other than federal or state); P= private)

SECTION II
SITE INFORMATION

Name of the Project: Village Square Redevelopment

Location of Project: College Drive @ Rabey St

City: Baton Rouge State: LA Zip Code: _____

Latitude: 30d25'13" Longitude: 91d08'32"

Parish: East Baton Rouge Parish

Is the facility located on Indian Lands? Yes_____ No X

Has the Stormwater Pollution Prevention Plan (PPP) been prepared? Yes X No_____

Indicate address of location of SWPPP if different from Project Location.

SWPPP Address: same

City: _____ State: _____ Zip Code: _____

Name of Receiving Water: Dawson Creek

Estimated Construction Start Date: (mo/day/yr) 6/1/03

Estimated Completion Date: (mo/day/yr) 8/1/04

Estimate of area to be disturbed (to nearest acre): 23

Estimate of Likelihood of Discharge: (choose only one):

Unlikely____ Once per month____ Once per week____ Once per day ____ Continual X

Based on the attached list of endangered or threatened species are there any listed in the project area? Yes_____ No X

List existing or prior Water Discharge Permits for the location

CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage this system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that signature and submittal of the NOI is deemed to constitute my determination of eligibility under one or more of the requirements of Permit Part I.A.3.e(1), related to the Endangered Species Act requirements. I am also aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Print Name: MATT SASSER Date: 3/25/03

Signature: _____

CSW-T (06-99)
Page 1 of 1

STATE OF LOUISIANA
DEPARTMENT OF ENVIRONMENTAL QUALITY

Permits Division
Post Office Box 82135
Baton Rouge, Louisiana 70884-2135
PHONE#: (225) 765-2965 FAX#: (225) 765-0635

LPDES NOTICE OF TERMINATION (NOT) OF COVERAGE UNDER LPDES GENERAL PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY

I. PERMIT INFORMATION

LPDES Stormwater General Permit Number LAR100000 and LAR10C168

X Check here if you are no longer the Operator of the Facility

X Check here if the Stormwater discharge is Being Terminated

II. FACILITY OPERATOR INFORMATION

1. Name: BRIGHT - MEYERS BATON ROUGE ASSOC, L.P.
   Address: 537 MARKET ST, SUITE 400
   City: CHATTANOOGA
   State: TENNESSEE Zip Code: 37402
   Phone: 423-755-8830

III. FACILITY/SITE LOCATION INFORMATION

Name of Project: Village Square (Wal-Mart)

Location of Project: 3132 College Drive

City: Baton Rouge State: LA Zip Code: 70808

Latitude: 30d25'13" Longitude: 91d08'32" Parish: East Baton Rouge

IV. CERTIFICATION

I certify under penalty of law that all stormwater discharges associated with industrial activity from the identified facility that are authorized by a LPDES general permit have been eliminated or that I am no longer the operator of the facility or construction site. I understand that by submitting this Notice of Termination, I am no longer authorized to discharge stormwater associated with industrial activity under this general permit, and that discharging pollutants in stormwater associated with industrial activity to waters of the State is unlawful under the Clean Water Act where the discharge is not authorized by a LPDES permit. I also understand that the submittal of this Notice of Termination does not release an Operator from liability for any violation of this permit or the Clean Water Act.

Print Name: [redacted] R. SAGER Date: 11-5-04

Signature: [redacted]

IO-W

State of Louisiana

Department of Environmental Quality

JAN 0 6 2005

KATHLEEN BABINEAUX BLANCO
GOVERNOR

MIKE D. McDANIEL, Ph.D.
SECRETARY

Certified Mail 7004 0750 0003 5676 5169
Return Receipt Requested

File No. LAR10C168
Agency Interest No. 109978
GEN20030001

MAIN FILE COPY

Mr. Matthew Sasser
Bright-Meyers Baton Rouge Assoc., LP
537 Market Street, Suite 400
Chattanooga, TN 37402

Re: Notice of Termination - Louisiana Pollutant Discharge Elimination System (LPDES) Storm Water General Permit

Dear Mr. Sasser:

Your Notice of Termination (NOT) form to discontinue coverage under the Louisiana Department of Environmental Quality's storm water general permit has been received and evaluated. By submission of the NOT form, you are certifying that you have reviewed the terms and conditions of the permit and have determined that the facility no longer requires permit coverage. In accordance with your request and certification that coverage is no longer needed, permit coverage for the facility identified below is terminated in accordance with the provisions of the permit.

Facility:	Village Square (Wal-Mart)
Location:	at 3132 College Drive in Baton Rouge
Parish:	East Baton Rouge

If you have any questions, please call Yvonne Baker at 225-219-3111.

Sincerely,

Tom Killeen

Tom Killeen, Environmental Scientist Manager
Level 2 Minor Industrial and Municipal Permit Section

ywb
c: letter only

Permit Compliance Unit
Office of Environmental Compliance

IO-W

Gayle Denino
Office of Management & Finance

c: letter and NOT

Yvonne Baker/Work file
Permits Division

182081

Emergency Response and Training Solutions

June 11, 2012

Louisiana Department of Environmental Quality
P.O. Box 4312
Baton Rouge, LA 70821-4312

RE: Corrective Action Final Report

RECEIVED
JUN 18 2012
DEQ
Single Point of Contact

John Brossett
Diesel Fuel Release

ER

I-10 West, West Dalrymple Exit
Baton Rouge, LA
East Baton Rouge Parish

T139741
S12-9108

LADPS Report Number: 12-03019
LADEQ Report Number: 83GV10370
East Baton Rouge Parish Reference Number: N/A
ERTS Project Number: 05162012BALA8014

Dear Sirs:

The following serves as the final report detailing the emergency response and corrective action taken in response to the incident that occurred on May 15, 2012, at the above referenced location.

Incident Background:

On May 15, 2012, a John Brossett tractor trailer was involved in a multiple vehicle accident causing a punctured saddle tank, which resulted in a diesel fuel release. The incident resulted in the release of approximately 100 gallons of diesel fuel that impacted an area of the asphalt roadway and shoulder. No storm drains, surface waters or soils were impacted as a result of this release.

Emergency Response:

On May 16, 2012, John Brossett contacted Emergency Response and Training Solutions (ERTS) to manage and oversee environmental operations. ERTS dispatched United States Environmental Services (USES) to the site for containment and remediation activities.

ERTS
8401 Chagrin Rd., Suite 15 B • Chagrin Falls, Ohio 44112 • USA
phone number: 440.543.2400 | fax number: 440.543.2444
ertsonline.com

U
W-E

Emergency Response and Training Solutions

Regulatory Notifications:

Pursuant to Louisiana regulations, ERTS notified Louisiana Department of Public Safety. LADPS assigned report number 12-03019 to this incident. The Louisiana Department of Environmental Quality was notified and assigned report number 83GV10370 to this incident. The East Baton Rouge Parish was also notified and did not assign a reference number to this report. On May 21, 2012, the unauthorized discharge notification report was submitted. Please see the report attached (Appendix 1).

Corrective Action:

On May 16, 2012, USES personnel arrived on site to investigate the site and perform cleanup activities. Sand was initially applied to the affected asphalt roadway and shoulder by the local fire department on May 15, 2012. USES personnel collected and containerized all of the diesel impacted sand from the affected roadway and shoulder. All of the contaminated materials were containerized for transportation and disposal. No storm drains, surface waters or soils were impacted as a result of this release.

Waste Disposal:

On May 18, 2012, four 55 gallon drums of diesel impacted materials were transported to and disposed of at American Recovery located in Houma, LA. Attached is the non-hazardous waste manifest (Appendix 2).

Conclusion and Recommendations:

No evidence was found that suggests any significant environmental impact remains on the site following corrective action. ERTS recommends that the incident be closed and that no further assessment is needed.

ERTS and John Brossett appreciate your assistance in this matter. If you have any questions regarding this project, please do not hesitate to contact me at (440) 543-2400 ext. 308.

Respectfully,
Emergency Response and Training Solutions

C-Pt

Chris Petrone
Project Manager

ERTS
8401 Chagrin Rd., Suite 15 B • Chagrin Falls, Ohio 44112 • USA
phone number: 440.543.2400 | fax number: 440.543.2444
ertsonline.com

Emergency Response and Training Solutions

Appendix 1

Unauthorized Discharge Notification Report

ERTS
8401 Chagrin Rd., Suite 15 B • Chagrin Falls, Ohio 44112 • USA
phone number: 440.543.2400 | fax number: 440.543.2444
ertsonline.com

Emergency Response and Training Solutions

Date: 05/21/12
Louisiana Department of Environmental Quality
Office of Environmental Compliance
Single Point of Contact
FAX: (225) 219-4044 or (225) 219-3695

UNAUTHORIZED DISCHARGE NOTIFICATION REPORT

RE: Louisiana State Police: 12-0309
Online Incident Report: 83GV10370

1. ***Reported by:***
   Name: Chris Petrone
   Company: ERTS
   Address: 8401 Chagrin Road, Suite 15 B
   Chagrin Falls, OH 44023
   Telephone: 440-543-2400 Ext. 308

2. ***Original Report:***
   Report Date: 05/16/12
   Report Time: 1052 CST
   State Contact: Dennis
   Original Reporter: Chris Petrone

3. ***Date and Time Of Original Discharge:***
   Date: 05/15/12
   Time: Unknown
   Duration: Immediate

4. ***Circumstances:***
   Tractor trailer was involved in a multiple vehicle accident causing a punctured saddle tank, which resulted in a diesel fuel release.

5. ***Released Product:***
   Diesel Fuel.

6. ***Fate of Disposition Of Pollutant:***
   All contaminated materials were collected for transportation and disposal.

7. ***Remedial Actions:***
   On May 16, 2012, ERTS dispatched United States Environmental Services (USES) to the site to investigate the release and perform cleanup operations. USES personnel swept up the diesel impacted sand on the asphalt shoulder and containerized the waste for disposal. USES reported that the sand was applied prior to their arrival and that no storm drains, waterways or soils were impacted as a result of this release.

8. ***Procedures Or Measures Taken to Prevent Future Occurrences***
   This is considered a one time incident.

9. ***N/A***

10. ***Reporting Party's Status:***
    Reporting party is the agent for the carrier.

11. ***Migration of Discharges to Ground:***
    Yes

12. ***Other Agencies Notified:***
    East Baton Rouge Parish

Emergency Response and Training Solutions

13. ***Other Responsible Parties:***
N/A

14. ***Determination of Probability of Discharge Being Preventable:***
This incident is considered a one time incident.

15. ***Extent of Injuries***
N/A

16. ***Estimated Quantity Recovered***
All released material was containerized for disposal.

Respectfully Submitted,
Emergency Response and Training Solutions

Chris Petrone
Emergency Response and Training Solutions

ERTS
8401 Chagrin Rd., Suite 15 B • Chagrin Falls, Ohio 44112 • USA
phone number: 440.543.2400 | fax number: 440.543.2444
ertsonline.com

Date: 5-21-12
Louisiana Department of Environmental Quality
Office of Environmental Compliance
Single Point of Contact
FAX : (225) 219-4044 or (225) 219-3695

UNAUTHORIZED DISCHARGE NOTIFICATION REPORT

RE: Louisiana State Police: 12-03140
Online Incident Report: 3E0010378

1. ***Reported by:***
   Name: Ed Ballash
   Company: ERTS
   Address: 8401 Chagrin Road - Suite 15 B
   Chagrin Falls, OH 44023
   Telephone: [440] 543-2400 312

2. ***Original Report:***
   Report Date: 5-20-12
   Report Time:
   State Contact:
   Original Reporter: Bruce Carrington

3. ***Date and Time Of Original Discharge:***
   Date: 5-20-12
   Time: 0941
   Duration: 2 hours

4. ***Circumstances:***
   Roll over incident.

5. ***Released Product:***
   Diesel Fuel

6. ***Fate of Disposition Of Pollutant:***
   Containerized for transportation and disposal

7. ***Remedial Actions:***
   Contractor applied floor dry to affected roadway and excavated the impacted soils. All waste was containerized for disposal

8. ***Procedures Or Measures Taken to Prevent Future Occurrences***
   Accident avoidance techniques were discussed

9. ***N/A***

10. ***Reporting Party's Status:***
    Reporting party is an agent for the carrier

11. ***Migration of Discharges to Ground:***
    N/A

12. ***Other Agencies Notified:***
    St. Charles Parish

13. ***Other Responsible Parties:***
    None

14. ***Determination of Probability of Discharge Being Preventable:***
    Not determined

15. ***Extent of Injuries***
    None

16. ***Estimated Quantity Recovered***
    100 gallons

Respectfully Submitted,
Emergency Response and Training Solutions

Ed Ballash
ERTS

9/12/14

AI 194093

S14-49027 T158758

ER Travis Laurent

§3925. Written Notification Procedures

A. Written reports for any unauthorized discharge that requires notification under LAC 33:I.3915.A, 3917, or 3919 shall be submitted by the discharger to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, in accordance with this Section within seven calendar days after the notification required by LAC 33:I.3915.A, 3917, or 3919, unless otherwise provided for in a valid permit or other department regulation.

1. If mailed by US mail or other courier service (e.g., Federal Express, UPS, etc.), the submittal date will be the date of the postmark on the envelope accompanying the written notification report.

2. If delivered by other means (e.g., hand-delivered, faxed, etc.), the submittal date of the written notification will be the date of receipt by the department.

B. Written notification reports required by LAC 33:I.3915, 3917, and 3919 shall include, but not be limited to, the following information:

1. the name, address, telephone number, Agency Interest (AI) number (number assigned by the department) if applicable, and any other applicable identification numbers of the person, company, or other party who is filing the written report, and specific identification that the report is the written follow-up report required by this Section: Carson & Co. Inc. PO Box 30 Bon Secour, AL 36511 251-949-7808

2. the time and date of prompt notification, the state official contacted when reporting, the name of the person making that notification, and identification of the site or facility, vessel, transport vehicle, or storage area from which the unauthorized discharge occurred: 1PM, 9-11-14, TRAVIS Laurent, LDEQ, Driver - Marvin Glass

3. date(s), time(s), and duration of the unauthorized discharge and, if not corrected, the anticipated time it is expected to continue: 9-11-14 – Corrected

4. details of the circumstances (unauthorized discharge description and root cause) and events leading to any unauthorized discharge, including incidents of loss of sources of radiation, and if the release point is subject to a permit: APPROX. 60 gallons diesel leaked due to collision of 18wheeler with guard rail

   a. the current permitted limit for the pollutant(s) released;

   b. the permitted release point/outfall ID; and NA

   c. which limits were exceeded (SO_2 limit, mass emission limit, opacity limit, etc.) for air releases; NA

5. the common or scientific chemical name of each specific pollutant that was released as the result of an unauthorized discharge, including the CAS number and U.S. Department of Transportation hazard classification, and the best estimate of amounts of any or all released pollutants (total amount of each compound expressed in pounds, including calculations); 60 gallons diesel fuel

6. a statement of the actual or probable fate or disposition of the pollutant or source of radiation and what off-site impact resulted;

7. remedial actions taken, or to be taken, to stop unauthorized discharges or to recover pollutants or sources of radiation; NA

8. procedures or measures which have or will be adopted to prevent recurrence of the incident or similar incidents, including incidents of loss of sources of radiation; NA

9. if an unpermitted or unlicensed site or facility is involved in the unauthorized discharge, a schedule for submitting a permit or license application to the department, or rationale for not requiring a permit or license; NA

10. the reporting party's status (former or present owner, operator, disposer, etc.): Carson Kimbrough

11. for discharges to the ground or groundwater, the following information shall also be included: all information of which the reporting party is aware that indicates pollutants are migrating, including, but not limited to, monitoring well data; possible routes of migrations; and all information of which the reporting party is aware regarding any public or private wells in the area of the migration used for drinking, stock watering, or irrigation:

gator environmental vaccumed the ruptured tanks as well as pooled diesel on the ground. They will also remediate site with absorbent.

12. what other agencies were notified; Baton Rouge Fire Dept., BR Hazmat, DOT, Road Runner Towing & Recovery

13. the names of all other responsible parties of which the reporting party is aware; NA

14. a determination by the discharger of whether or not the discharge was preventable, or if not, an explanation of why the discharge was not preventable;

15. the extent of injuries, if any; and NONE

16. the estimated quantity, identification, and disposition of recovered materials, if any.

C. Written notification reports shall be submitted to the Office of Environmental Compliance, Emergency and Radiological Services Division, SPOC, by mail or fax. The transmittal envelope and report or fax cover page and report should be clearly marked "UNAUTHORIZED DISCHARGE NOTIFICATION REPORT."

AUTHORITY NOTE: Promulgated in accordance with R.S. 30:2025(J), 2060(H), 2076(D), 2183(I), 2194(C), and 2204(A).

HISTORICAL NOTE: Promulgated by the Department of Environmental Quality, Office of the Secretary, LR 11:770 (August 1985), amended LR 19:1022 (August 1993), LR 20:182 (February 1994), amended by the Office of Environmental Assessment, Environmental Planning Division, LR 26:2443 (November 2000), LR 30:1669 (August 2004), amended by the Office of the Secretary, Legal Affairs Division, LR 31:2434 (October 2005).

Written reports (LAC 33:I.3925) should be mailed to:

Louisiana Department of Environmental Quality
Post Office Box 4312
Baton Rouge, LA 70821-4312
Attn.: OEC – ERSD – SPOC
"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT'

Or, the written notification report may be faxed to the Louisiana Department of Environmental Quality, Office of Environmental Compliance, Single Point of Contact (SPOC) at : (225) 219-4044

Faxed 9/12/14 - Mailed 9/12/14 also

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: _____ INSPECTION DATE: 9/11/14 TIME OF ARRIVAL: 1:00 pm

ALTERNATE ID#: _____ (ID Type/Number) DEPARTURE DATE: 9/11/14 TIME OF DEPARTURE: _____

FACILITY NAME: Carson and Company PH #: 251 949 7474

LOCATION: I-10 East Bound at Exit 156A Washington St.

PARISH NAME: East Baton Rouge

RECEIVING STREAM (BASIN/SUBSEGMENT): _____

MAILING ADDRESS: P.O Box 30 (Street/P.O. Box) Bon Secour (City) AL (State) 36511 (ZIP)

FACILITY REPRESENTATIVE: Marvin Glass TITLE: Driver

FACILITY REPRESENTATIVE PHONE NUMBER: 251 747 4787

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above): _____

INSPECTION TYPE: Incident PROGRAM INVOLVED: AIR WASTE WATER OTHER _____

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

On 9/11/14 ER responder Travis Laurent responded to an 18 wheeler on fire due to a collision with the left side railing. EBR fire department extinguished the fire and BR Hazmat dammed the leaking diesel from leaking into the storm drains below the Interstate. Approx 60 gallons of diesel leaked onto the soil beneath the interstate next to Washington St. BR Hazmat, LDEQ, DOTD and BR PD are on scene. Gator Environmental was contracted to vacuum the remaining diesel in the ruptured tanks as well as the pooled diesel on the ground. Gator will also remediate the site with absorbent. Three lanes at the incident scene have been closed and one lane is open for traffic. No injuries due to the incident. TL

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
_____	_____	YES NO
_____	_____	YES NO

PHOTOS TAKEN: ☑ YES ☐ NO SAMPLES TAKEN: ☐ YES ☐ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: Marvin M Glass

PRINT NAME: MARVIN M. GLASS

(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): Travis Laurent CROSS REFERENCE: _____

ATTACHMENTS: _____

REVIEWER: _____

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

RECEIVED
SEP 22 2014
DEQ
Single Point of Contact

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 132153

Incident Description

Incident Type:	Release/Spill, Highway Transport
Incident Date:	6/27/2011 20:45:00
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	Clean Harbors Environmental - Exit 156A-Washington St EB - Baton Rouge -
Lat/Lon:	
Basin/Segment:	
Substance(s):	oily water
Media Impacted:	Soil/Air
Incident Desc:	s11-2063 Driving down highway and noticed spray coming from vehicle... Transporting hazardous material... cj

Incident Status

Lead Investigator:	Bryan Riche
Incident Region:	Capital
Incident Status:	Pending Review
Followup Status:	Closed
As Of:	11/15/2011

Incident Reporter 1

Received By:	Spo Contact
Received Date:	6/27/2011 21:01:00
Dispatch #:	s11-2063
Reported By:	Michael Barowski
Phone:	856-938-8179 (Work phone number)
Reporter Title:	
Organization:	Clean Harbors Environmental
Address:	42 Long Water Dr
Municipality:	Norwell
State:	MA
Zip Code:	02061
Comments:	

CleanHarbors
ENVIRONMENTAL SERVICES, INC.

13351 Scenic Highway
Baton Rouge, LA 70807

UNITED STATES POSTAGE
PITNEY BOWES
02 1P $ 000.44⁰
0004435021 NOV 11 2011
MAILED FROM ZIP CODE 70807
ADDRESS SERVICE REQUESTED

Bryan Riche
P. O. Box 4312
Baton Rouge LA 70821-4312

70821$4312

LDEQ-EDMS Document 8195279, Page 2 of 12

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 132153

Incident Source 1

Source Name:	Clean Harbors Environmental - Incident Site
Address:	I-10 eastbound at Washington St exit
Municipality:	Baton Rouge
State:	LA
Phone:	2257783685 (Work phone number)
Parish:	East Baton Rouge
AI #:	176988
Related Permits:	

Comments:

Clean Harbors Environmental
June 27. 2011
Tempo# 132153

On June 27. 2011 at approximately 2100 hours Louisiana Department of Environmental Quality Emergency Responder (LDEQ-ER) Bryan Riche responded to Exit 156 on Interstate 10 Eastbound concerning an unknown liquid spill from a tractor- (box) trailer. According to Mr. Wayne Lockett, East Baton Rouge Fire Department HazMat, a tractor-trailer carrying flammable liquids began leaking on Interstate 10 Eastbound after exiting the Mississippi River Bridge. The driver stopped on Interstate 10 at exit 156 (Washington Road). One drum containing oily water was identified as leaking. The tractor-trailer was relocated from the elevated road to Washington Road. The contents of the trailer were removed and the ruptured drum over-packed. Granular absorbent was used to cleanup any residual liquids from the box trailer. One lane on Interstate 10 was closured for approximately one hour. No injuries or fires were reported as a result of this incident. No further action by LDEQ Emergency Response at this time. BPR.

Bryan Riche

From: Carla James (DEQ)
Sent: Thursday, June 30, 2011 9:43 AM
To: Bryan Riche
Cc: _DEQ-CROAdmin
Subject: ER CRO – s11-2063, T 132153 (Clean Harbors) LSP# 11-03790

Importance: High

ER Bryan Riche contacted approx. 21:01 6/27/11

INCIDENT # 11-03790 SOURCE: STATE POLICE HAZMAT HOTLINE
877-925-6595 / 225-925-6595

** (INITIAL REPORT) DATE AND TIME **********
HOTLINE NOTIFIED: 06/27/11 20:58
INCIDENT OCCURRED: 06/27/11 20:45

** (INITIAL REPORT) INCIDENT LOCATION **********
PARISH: East Baton Rouge
ADDRESS: Exit 156 A Washington Street Eastbound
CITY: Baton Rouge

** (INITIAL REPORT) CALLER INFORMATION **********
CALLER'S NAME: Michael Barowski
CALLER'S ADDRESS OR EMPLOYER: Clean Harbors Environmental
CALLER'S PHONE NUMBER: 856-938-8179

** (INITIAL REPORT) RESPONSIBLE PARTY **********
NAME: Clean Harbors Environmental
MAILING ADDRESS: 42 Long Water Drive
CITY,STATE,ZIP: Norwell, MA 02061

** (INITIAL REPORT) DETAILS **********
Driving down highway and noticed spray coming from vehicle...
Transporting hazardous material... Released to roadway... Fire department
on site,,, Van upright...

** (INITIAL REPORT) CHEMICAL INFORMATION **********
CHEMICAL 1: Unknown

** (INITIAL REPORT) RELEASE INFORMATION **********
INCIDENT CLASSIFICATION: Unusual Event
POTENTIAL TO ESCAPE FACILITY? No
DID MATERIAL GO OFFSITE? No
RELEASED TO: See details
WHERE IS AIR BEING MONITORED? Not being monitored
ANY OFF-SITE PROTECTIVE ACTION?
Yes - road closure
RELEASE EFFECTS:
FIRE: No
INJURIES: No :
FATALITIES: No :

** (INITIAL REPORT) HIGHWAY CLOSURE **********
HIGHWAY: One lane closed I-10 East bound

** (INITIAL REPORT) TRANSPORTATION INFORMATION **********
HIGHWAY: See details
ID # FOR ABOVE:
OTHER VEHICLES INVOLVED?

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Tech Domangue/Hazmat
PHONE: 504-427-7452
Advised... Emailed...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Jamie/ LDEQ
PHONE: 225-237-3694
Advised...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Renee/East Baton Rouge LEPC
PHONE: 225-389-2050
Advised... 18 wheeler upright... East I-10/Washington... Placard #1325... Transporting flammable liquids and some type of vapor... Hazmat unit on scene... Requesting LSP Hazmat response...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Tech Domangue/Hazmat
PHONE: 504-427-7452
Responding...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Wayne Lockett/ EBR HazMat
PHONE: 225-572-5370
Wayne Lockett/ EBR HazMat/225-572-5370 On scene of the incident... Moved box trailer to the side of the road... Various hazardous materials in the trailer including oxidizers, flammables, and corrosives... Materials being transported in 55 gallon drums... Looking through manifest to gather more information on the materials... Unknown liquid is dripping from the side of the trailer... Will remain on scene until incident is completed...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Cpt Moss/ Homeland Security/ Chain of Command ES-20 Domangue responding/I-10 East bound, Washington Street/ East Baton Rouge P/18 wheeler upright/Transporting various hazardous materials

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Crystal Golden/Hazmat
PHONE: 225-925-6595
Unable to send Chain of Command... Verbally advised Cpt Moss and Tech Sup Lewis...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Keith Hayes/Clean Harbors Environmental
PHONE: 225-279-0187
Keith is responding... Subbing out to USES...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Tech Sup Lewis/Hazmat
PHONE: 225-405-5081
Responding...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Tech Sup Lewis/Hazmat

PHONE: 225-405-5081
10-8 from scene...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Keith Hayes
PHONE: 225-279-0187
Advised secured at 1230 am... Qualntity less than 55 gallons... Drum has been packed...

WASTE MANIFEST | GAD000814347 | F3 | (800) 483-3718 | 004501890 FLE

5. Generator's Name and Mailing Address
Ethicon Inc
655 Ethicon Circle Po Box 70
Cornelia, GA 30531
Generator's Phone:

Generator's Site Address (if different than mailing address)
655 Ethicon Circle
Cornelia,GA 30531

6. Transporter 1 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

7. Transporter 2 Company Name
Clean Harbors Environmental Services Inc
U.S. EPA ID Number
MAD039322250

8. Designated Facility Name and Site Address
Spring Grove Resource Recovery Inc
4879 Spring Grove Avenue
Cincinnati, OH 45232
Facility's Phone: (513) 681-5738
U.S. EPA ID Number
OHD000816629

9a. HM	9b. U.S. DOT Description (including Proper Shipping Name, Hazard Class, ID Number, and Packing Group (if any))	10. Containers No.	Type	11. Total Quantity	12. Unit Wt./Vol.	13. Waste Codes		
x	1. UN1950, WASTE AEROSOLS, (EACH NOT EXCEEDING 1 L CAPACITY), 2.1	2	DM	600	P	D001 F005	D035	F003
x	2. RQ, UN3093, WASTE CORROSIVE LIQUIDS, OXIDIZING, N.O.S., (SULFURIC ACID, SODIUM DICHROMATE), 8, (5.1), PG II (SODIUM DICHROMATE)	1	DF	500	P	D001	D002	D007
x	3. NA3077, HAZARDOUS WASTE, SOLID, N.O.S., (CHROMIUM), 9, PG III	10	CF	75	P	D007		
	4. NON DOT REGULATED ORGANIC MATERIAL, (OIL/SOAP)	1	DM	300	P			

14. Special Handling Instructions and Additional Information
1. CH200007 ERG#126 //
2. CH62423 ERG#140
3. RVEYU143 ERG#171 /
4. CH115425 /

15. GENERATOR'S/OFFEROR'S CERTIFICATION: I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name, and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations. If export shipment and I am the Primary Exporter, I certify that the contents of this consignment conform to the terms of the attached EPA Acknowledgment of Consent.
I certify that the waste minimization statement identified in 40 CFR 262.27(a) (if I am a large quantity generator) or (b) (if I am a small quantity generator) is true.

Generator's/Offeror's Printed/Typed Name: Rob DeTron | Signature: [signature] | Month 6 Day 9 Year 11

16. International Shipments ☐ Import to U.S. ☐ Export from U.S. Port of entry/exit:
Transporter signature (for exports only): Date leaving U.S.:

17. Transporter Acknowledgment of Receipt of Materials
Transporter 1 Printed/Typed Name: Thomas Durrschmidt | Signature: Thomas Durrschmidt | Month 06 Day 09 Year 11
Transporter 2 Printed/Typed Name: Yathaddia Moore 'Agent Fa' | Signature: [signature] | Month 6 Day 9 Year 11

18. Discrepancy
18a. Discrepancy Indication Space ☐ Quantity ☐ Type ☐ Residue ☐ Partial Rejection ☐ Full Rejection
Manifest Reference Number:

18b. Alternate Facility (or Generator) U.S. EPA ID Number
Facility's Phone:

18c. Signature of Alternate Facility (or Generator) Month Day Year

19. Hazardous Waste Report Management Method Codes (i.e., codes for hazardous waste treatment, disposal, and recycling systems)

1.	2.	3.	4.
H141	H141	H141	H141

20. Designated Facility Owner or Operator: Certification of receipt of hazardous materials covered by the manifest except as noted in Item 18a
Printed/Typed Name | Signature | Month Day Year

GENERATOR / INT'L / TRANSPORTER / DESIGNATED FACILITY

EPA Form 8700-22 (Rev. 3-05) Previous editions are obsolete.

DESIGNATED FACILITY TO DESTINATION STATE (IF REQUIRED)

Clean Harbors has the appropriate permits for and will accept the waste the generator is shipping.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 175213

Incident Description

Incident Type:	Release/Spill, Highway Transport
Incident Date:	1/13/2017 07:43:00
Parish:	West Baton Rouge
Municipality:	Port Allen
Location:	I-10 eb at mm# 152, foot of bridge - Port Allen
Lat/Lon:	
Basin/Segment:	
Substance(s):	
	Diesel
Media Impacted:	Soil
Incident Desc:	s17-91267 release of diesel to soil due to a ruptured fuel tank CML

Incident Status

Lead Investigator:	Christian Flucke
Incident Region:	Capital
Incident Status:	Pending Review
Followup Status:	Closed
As Of:	1/27/2017 00:00:00

1-27

Incident Reporter 1

Received By:	Spo Contact
Received Date:	1/13/2017 08:19:00
Dispatch #:	s17-91267
Reported By:	Robert Smith
Phone:	225-324-0347 (Work phone number)
Reporter Title:	
Organization:	West Baton Rouge Fire District #1
Address:	
Municipality:	
State:	LA
Zip Code:	
Comments:	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 175213

Incident Source 1

Source Name:	E&J Express - Incident Site
Address:	foot of Mississippi River bridge on I-10 eastbound
Municipality:	Baton Rouge
State:	LA
Phone:	
Parish:	East Baton Rouge
AI #:	204593
Related Permits:	
Comments:	On January 13, Emergency Responders Nathan Prince and Christian Flucke responded to a diesel release on Interstate 10 East Bound, at the foot of the Mississippi River Bridge. An E&J Express truck leased by MDS struck road debris on the interstate, causing a tire to blow, which pushed the air tanks into the saddle tank. Approximately 70 gallons of diesel was released into the dirt and grass on the side of the interstate. OMI was contacted to conduct the clean-up. The spill was approximately 100 feet long by 10 inches wide. E&J Express contacted OMI to conduct the clean-up. Floor dry and pads were used to recover puddled diesel, and contaminated soil was shoveled into drums and properly disposed of. There were no injuries, fires, or road closures as a result of this incident. CTF

CRO s17-91267 T 175213 Diesel in West Baton Rouge
Subject: CRO s17-91267 T 175213 Diesel in West Baton Rouge

Importance: High

CRO s17-91267 T 175213 Diesel in West Baton Rouge
Sent: Friday, January 13, 2017 8:19 AM
To: Christian Flucke
Cc: Daniel Lambert; Kevin Borne; Jerry Lang
Subject: # 17-00207

Sent: Friday, January 13, 2017 8:18 AM
Subject: LSP Hazardous Material Incident Incident # 17-00207

INCIDENT # 17-00207 SOURCE: STATE POLICE HAZMAT HOTLINE

877-925-6595 / 225-925-6595

** (INITIAL REPORT) DATE AND TIME
****
HOTLINE NOTIFIED: 01/13/17 07:58
INCIDENT OCCURRED: 01/13/17 07:43

** (INITIAL REPORT) INCIDENT LOCATION
****
PARISH: West Baton Rouge
ADDRESS: I-10 eb at mm# 152, foot of bridge
CITY: Port Allen

** (INITIAL REPORT) CALLER INFORMATION
****
CALLER'S NAME: Robert Smith
CALLER'S ADDRESS OR EMPLOYER: West Baton Rouge Fire District #1
CALLER'S PHONE NUMBER: 225-324-0347

** (INITIAL REPORT) RESPONSIBLE PARTY
****
NAME: MDS (Material Delivery Service)
CITY,STATE,ZIP: Pelham, AL

** (INITIAL REPORT) DETAILS
****
18 Wheeler,MAC truck, dry hopper, it is empty... 50-60 gallons of diesel released from saddle tank.... Still more liquid in tank that ... Release is100 ft long and 10 inches wide on the land.... Normaly carries dry cement... Truck is upright... Tow truck is now on site... Working on securing the leak but the pumper is not working... The release is on going... Air tank is pushed into saddle tank... Truck driver # 225-341-0716 Anthony Holmes...

** (INITIAL REPORT) CHEMICAL INFORMATION
****
CHEMICAL 1: Diesel
QTY: 50-60 gal
RELEASED STATE: Liquid CLASS: Combustible Liqui ID: 1993 EHS: No

** (INITIAL REPORT) RELEASE INFORMATION
****
INCIDENT CLASSIFICATION: Unusual Event
DID MATERIAL GO OFFSITE? Yes
RELEASED TO: Land
ANY OFF-SITE PROTECTIVE ACTION?
ROAD CLOSURE: No
SHELTER IN PLACE: No

CRO s17-91267 T 175213 Diesel in West Baton Rouge
EVACUATION: No
RELEASE EFFECTS:
FIRE: No
INJURIES: No :
FATALITIES: No :

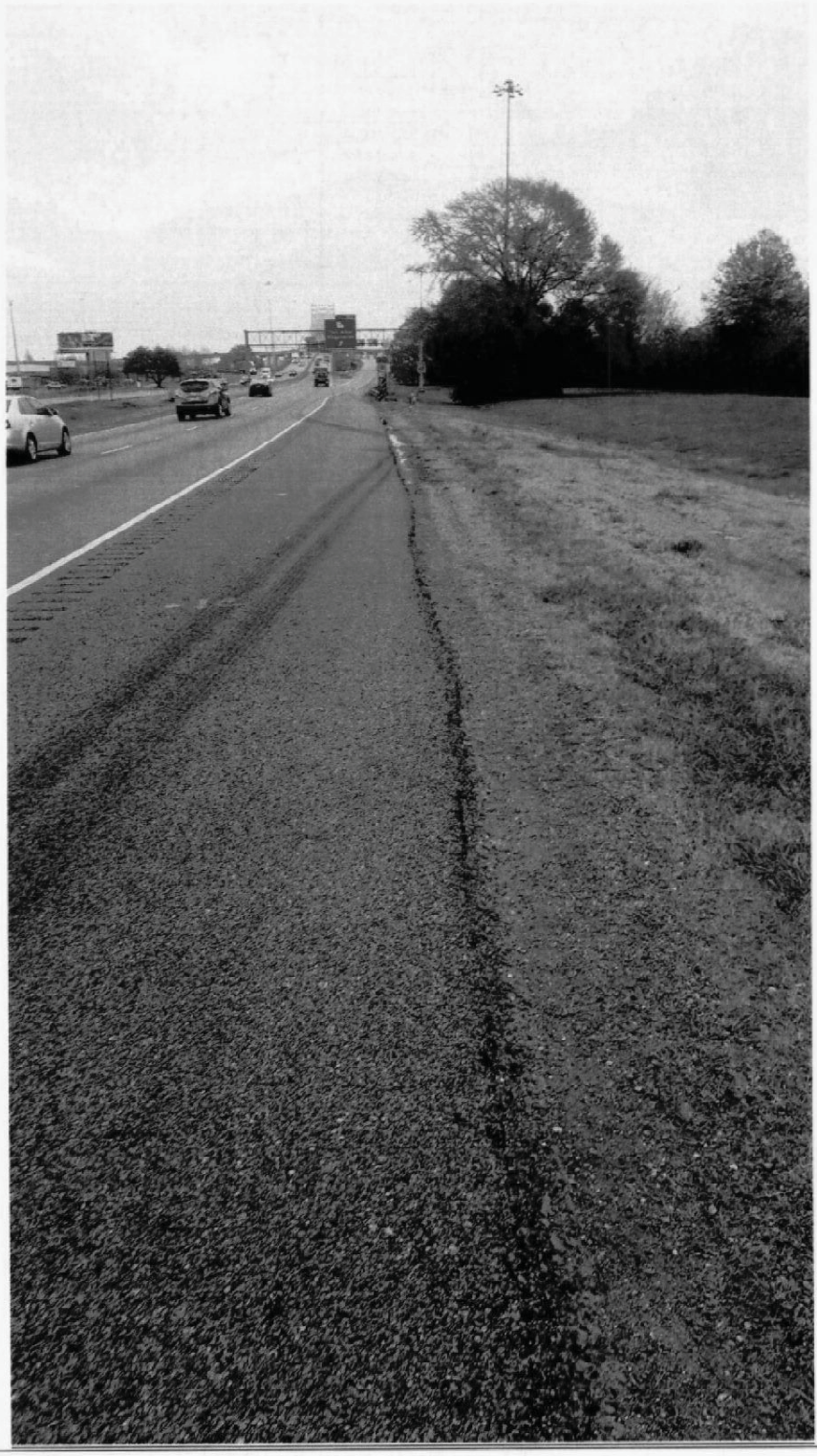
** (INITIAL REPORT) PACKAGE TYPE
****
Saddle Tank

** (INITIAL REPORT) TRANSPORTATION INFORMATION **********
HIGHWAY:
ID # FOR ABOVE: DOTD 172096
OTHER VEHICLES INVOLVED?

Facility Name: E&J Express AI: 204593
City: Port Allen Parish: WBR Photographer: C. Flucke
Date: 1/13/2017 Reason: Diesel Spill Other ID #:

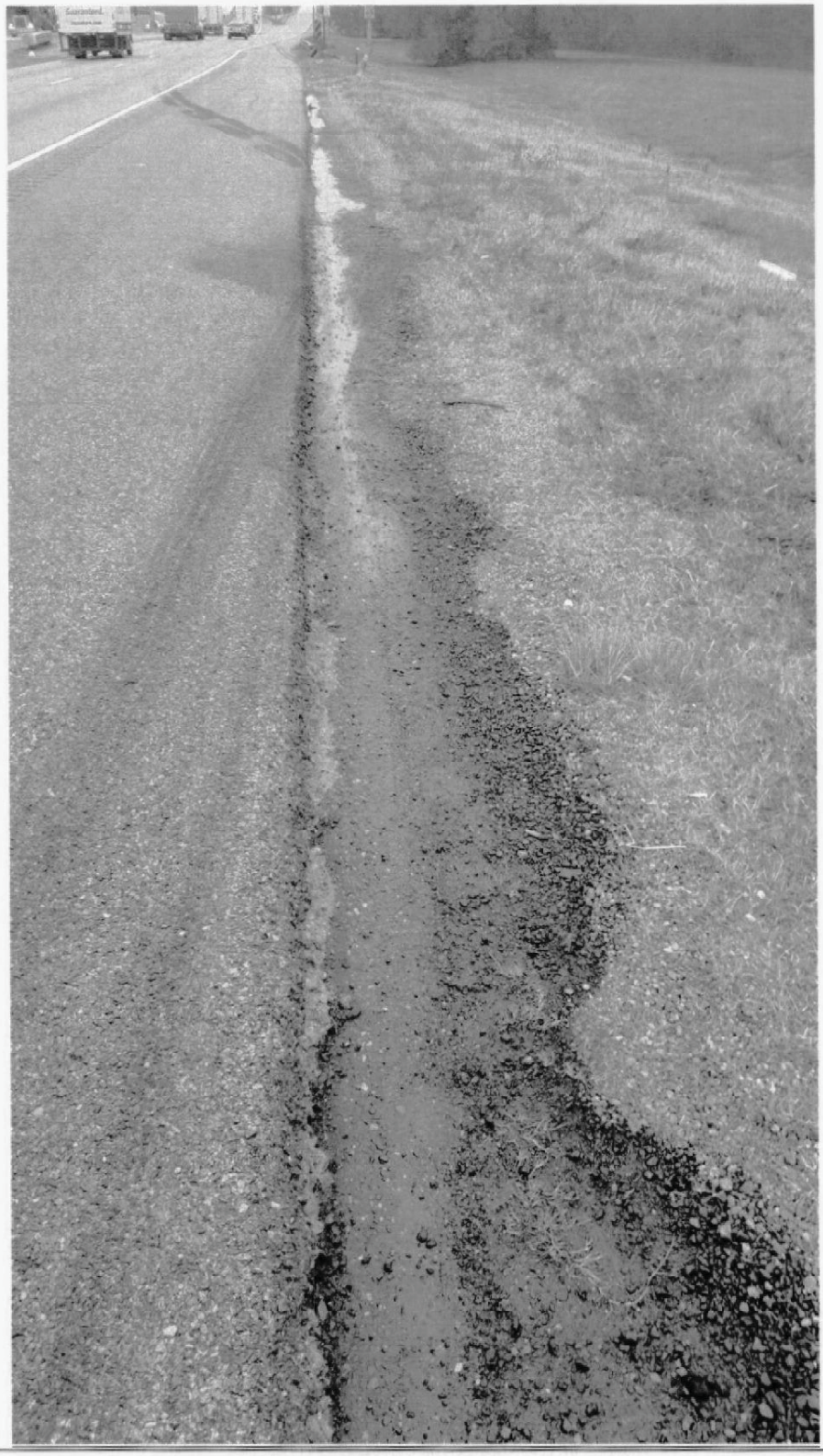
Photo#: 1 of 2 Time: 9:01 AM

Visible marks showing the path of the truck



Facility Name: E&J Express AI: 204593
City: Port Allen Parish: WBR Photographer: C. Flucke
Date: 1/13/2017 Reason: Diesel Spill Other ID #:

Photo#: 2 of 2 Time: 9:03 AM
Extent of the diesel spill, contained in a small ditch where the asphalt meets the grass.



Linked to T- 142285

Sherri Courtney

From: SPOC [spoc.otrs@la.gov]
Sent: Thursday, August 23, 2012 11:20 AM
To: _DEQ-CROAdmin
Subject: [Incident#1214854] CRO c12-14854 T 142308 NRC#1021945 Isobutane in East Baton Rouge
Attachments: CRO c12-14854 T 142308 NRC#1021945 Isobutane in East Baton Rouge.txt

SPOC
Charles Lato

--
Louisiana Department of Environmental Quality
Single Point Of Contact
Phone: (225) 219-3640
Fax: (225) 219-4044
--
---- Forwarded message from "HQS-PF-fldr-NRC@uscg.mil" <HQS-PF-fldr-NRC@uscg.mil> ---

Subject: NRC#1021945
Date: 2012-08-22 21:56:03

Incident Report # 1021945

INCIDENT DESCRIPTION

*Report taken by: CIV BRENT TALIAFERRO at 22:40 on 22-AUG-12
Incident Type: MOBILE
Incident Cause: UNKNOWN
Affected Area:
Incident occurred on 22-AUG-12 at 03:45 local incident time.
Affected Medium: AIR ATMOSPHERE

REPORTING PARTY
Name: ANONYMOUS

PRIMARY Phone: (111)1111111
Type of Organization: OTHER

SUSPECTED RESPONSIBLE PARTY
Name: UNKNOWN

XX

INCIDENT LOCATION
BETWEEN BLUE BONNET AND ESSEN LANE County: E. BATON ROUGE
City: BATON ROUGE State: LA
INTERSTATE 10

RELEASED MATERIAL(S)
CHRIS Code: IBT Official Material Name: ISOBUTANE
Also Known As:
Qty Released: 0 UNKNOWN AMOUNT

DESCRIPTION OF INCIDENT

CALLER REPORTED A SPILL OF MATERIALS FROM A TRAFFIC ACCIDENT WHERE THE CHEMICALS ARE NOW BEING BURNED OFF. THE CALLER IS CONCERNED ABOUT HOW THE RELEASE OF MATERIALS WILL EFFECT THE PUBLIC. THERE HAS BEEN MINOR EVACUATIONS AND CITIZENS HAVE BEEN ASKED TO STAY INSIDE THEIR HOMES.

SENSITIVE INFORMATION

REPORTING PARTY ERIN JONES 310-213-8749

INCIDENT DETAILS

Road Mile Marker:
Length of Service Disruption:
Airbag Deployed: UNKNOWN
---MOBILE INFORMATION---
Vehicle Type: TRACTOR TRAILER TRUCK
Vehicle Number: UNKNOWN
Trailer/Tanker Number:
Vehicle Fuel Capacity:
Cargo Capacity:
Cargo On Board:
Hazmat Carrier: UNKNOWN
Carrier Licensed: UNKNOWN
Suspected Non Compliance: UNKNOWN

IMPACT

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger:
FATALITIES: NO Empl/Crew: Passenger: Occupant:
EVACUATIONS:YES Who Evacuated:PRIVATE CITIZENS Radius/Area:
Damages: NO

Closure Type	Description of Closure	Hours Closed	Direction of Closure
Air: N			
Road: N		Major Artery:N	
Waterway: N			
Track:			

Environmental Impact: UNKNOWN
Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

Release Secured: UNKNOWN
Release Rate:
Estimated Release Duration:

WEATHER

Weather: UNKNOWN, 77°F

ADDITIONAL AGENCIES NOTIFIED

Federal:
State/Local:
State/Local On Scene:
State Agency Number:

NOTIFICATIONS BY NRC

CALCASIEU PARISH SHERIFF'S DEPT (CRIMINAL INTELLIGENCE UNIT)
22-AUG-12 22:56 (337)4913778

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)
22-AUG-12 22:56 (202)3661863
EPA OEM (MAIN OFFICE)
(202)5643850
EPA OEM (AFTER HOURS SECONDARY)
(202)5643850
U.S. EPA VI (MAIN OFFICE)
(866)3727745
FEDERAL EMERGENCY MANAGEMENT AGENCY (MAIN OFFICE)
22-AUG-12 22:56 (800)6347084
FLD INTEL SUPPORT TEAM NEW ORLEANS (SUPERVISOR, FIST NEW ORLEANS)
22-AUG-12 22:56 (504)5894224
USCG NATIONAL COMMAND CENTER (MAIN OFFICE)
(202)3722100
FEDERAL MOTOR CARRIER SAFETY ADMIN (MAIN OFFICE)
22-AUG-12 22:56 (202)3665373
JFO-LA (COMMAND CENTER)
22-AUG-12 22:56 (225)3366513
JFO-LA (FEMA JFO LA)
22-AUG-12 22:56 (225)3366513
LA DEPT OF ENV QUAL (MAIN OFFICE)
22-AUG-12 22:56 (225)2193640
LA DEPT OF NATURAL RESOURSES (OFFICE OF CONSERVATION)
22-AUG-12 22:56 (225)3425524
LA DEPT OF WILDLIFE AND FISHERIES (MAIN OFFICE)
22-AUG-12 22:56 (337)
LA GOV OFFICE HS AND EMERGENCY PREP (MAIN OFFICE)
22-AUG-12 22:56 (225)9257500
LA OFFICE OF GOV (MAIN OFFICE)
22-AUG-12 22:56 (225)2195800
LA OFFICE OF PUBLIC HEALTH (MAIN OFFICE)
22-AUG-12 22:56 (888)2937020
NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)
22-AUG-12 22:56 (202)2829201
NOAA RPTS FOR LA (MAIN OFFICE)
22-AUG-12 22:56 (206)5264911
NATIONAL RESPONSE CENTER HQ (MAIN OFFICE)
(202)2671136
NTSB PIPELINE (MAIN OFFICE)
22-AUG-12 22:56 (202)3146293
HOMELAND SEC COORDINATION CENTER (MAIN OFFICE)
22-AUG-12 22:56 (202)2828300
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE HAZARDOUS MATERIALS)
(202)3661863
PIPELINE & HAZMAT SAFETY ADMIN (OFFICE HAZARDOUS MATERIALS FAX#2)
22-AUG-12 22:56 (202)3661863
LA STATE POLICE (MAIN OFFICE)
22-AUG-12 22:56 (225)9256595
LA STATE POLICE (ANALYTICAL AND FUSION EXCHANGE)
22-AUG-12 22:56 (225)9254192
MSU BATON ROUGE (MAIN OFFICE)
22-AUG-12 22:56 (225)2985400
USCG DISTRICT 8 (MAIN OFFICE)
22-AUG-12 22:56 (504)5896225

ADDITIONAL INFORMATION

*** END INCIDENT REPORT #1021945 ***
Report any problems by calling 1-800-424-8802
PLEASE VISIT OUR WEB SITE AT http://www.nrc.uscg.mil

---- End forwarded message ---

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 142308

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 142308

Incident Description

Incident Type:	Complaint, Miscellaneous
Incident Date:	8/22/2012 03:45:00
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	I-10 eastbound between Blue Bonnet and Essen - Baton Rouge
Lat/Lon:	
Basin/Segment:	
Substance(s):	
Media Impacted:	Air
Incident Desc:	c12-14854 materials from truck accident burned off during cleanup procedures. complainant is concerned how this burn will effect the local environment and population CML

Incident Status

Lead Investigator:	Sherri Courtney
Incident Region:	Capital
Incident Status:	Closed
Followup Status:	
As Of:	

Incident Reporter 1

Received By:	Spo Contact
Received Date:	8/22/2012 21:56:00
Dispatch #:	c12-14854
Reported By:	
Phone:	
Reporter Title:	
Organization:	
Address:	
Municipality:	
State:	
Zip Code:	
Comments:	

Incident Source 1

Source Name:	Enterprise Transport Products - Multiple 18-Wheeler Incident Site
Address:	I-10 at Essen Ln
Municipality:	Baton Rouge
State:	LA
Phone:	2259373629 (Work phone number)
Parish:	East Baton Rouge
AI #:	183603
Related Permits:	
Comments:	This incident was assigned to Emergency Responder Rachel Mroch. It was called in by the East Baton Rouge Fire Department on 8/22/12 around 10:00 a.m. It was assigned incident number T-142285. Refer to that report for details concerning the incident. SLC

AI 183603

ENTERPRISE TRANSPORTATION COMPANY

ER

s12-14916
T 142285
Rachel Mrich

P. O. BOX 4735
HOUSTON, TX 77210-4735
2707 NORTH LOOP WEST
HOUSTON, TX 77008-1051
713/880-6500

Enterprise Products Transportation Company LLC
dba Enterprise Transportation Company

August 23, 2012

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. Box 4312
Baton Rouge, LA 70821-4312

Attn: OEC-ERSD-SPOC
UNAUTHORIZED DISCHARGE NOTIFICATION REPORT

We are submitting this written report as required by LAC 33:I.3915.A, 3917, 3919 or 3923 for an unauthorized discharge that occurred on August 22, 2012 on Interstate 10 near mile marker 160 in East Baton Rouge Parish. This release occurred at approximately 3:45 AM and lasted until approximately 01:00 AM the next morning when the fire burned itself out.

Dennis Viola, field safety representative for Enterprise Transportation Company received notification of the release at 4:00 AM. Dennis notified the Louisiana State Police Hazardous Materials HOTLINE at 4:20 AM and was given incident number 12-05630. National Response Center was also notified and they issued incident number 1022025 to this release.

The release occurred when our driver slowed to a stop on Interstate 10 on the East bound side due to a car that lost control and landed upside down across both of the East bound lanes of Interstate 10. After our unit stopped, another tractor-trailer unit ran into the rear of our trailer. Our cargo tank was loaded with 8,743 gallons of UN-1075, Liquefied Petroleum Gas, 2.1 (Iso Butane). The impact of the crash sheered the liquid line and vapor return line off of our trailer but both of the internal valves held. The spray bar line was bent upward at a 45 degree angle resulting in the 3" pipe breaking behind the external valve which allowed vapors to seep out.

Oil Mop Environmental was contracted by Enterprise Transportation to respond to the scene to assist with the transfer of the product to another trailer and to handle the remediation of the site. Louisiana DEQ had personnel on the scene monitoring the air quality around the accident site during entire day and the Baton Rouge fire department also assisted in monitoring the area around our damaged tank anytime anyone approached our damaged trailer.

After many meetings, it was decided to perform a "Vent and Burn" so Oil Mop had steel plates trucked to the site and loads of dirt to build a dike around our unit and to protect the interstate. Louisiana State Police contracted a company experienced in setting shaped charges and placed charges on the top of our trailer and the right rear of our tank. The charges were ignited which blew two holes into our cargo tank allowing the product to escape into the atmosphere where it

was lit by a flare to burn the product off.

All of the dirt will be placed into approximately 6 – 8 roll offs on Friday, August 24, 2012 which will be stored at the Enterprise Transportation terminal in Baton Rouge until the disposal of the same. Oil Mop will sample the dirt as well as the area around the site to assure no hydrocarbons is left at the scene and once approval is given, the waste will be disposed of.

Our investigation revealed that this unauthorized discharge was the result of our unit being hit in the rear with such force that caused major damage to the piping on our cargo tank resulting in the product seeping out of the spray bar line. No one was injured as a result of the release of liquefied petroleum gas, only from the crash itself.

Oil Mop Environmental will be submitting a complete report including test results for testing the soil for hydrocarbons as well as disposal of the soil once it has been approved to be off sited. Upon receipt of their report, I will supplement this report with that information as well.

Should you need any additional information, please do not hesitate to call us.

Sincerely,

ENTERPRISE TRANSPORTATION COMPANY

Nolan Everitt
Director of Safety

Cc: Mike Stark
Stan Eubanks
Dennis Viola

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 139949

Incident Description

Incident Type:	Complaint, Abandoned Drums/Containers
Incident Date:	5/23/2012 14:49:00
Parish:	East Baton Rouge
Municipality:	Baton Rouge
Location:	intersection of Essen Lane & I-10 e/b exit ramp - Baton Rouge
Lat/Lon:	
Basin/Segment:	
Substance(s):	
Media Impacted:	
Incident Desc:	c12-9632 2 55-gallon drums (w/lids) in the middle of the intersection; cars going around them; do not appear to be leaking. CML

Incident Status

Lead Investigator:	Rachel Mroch Rachel Mroch
Incident Region:	Capital
Incident Status:	Pending Review
Followup Status:	Closed
As Of:	5/31/2012 00:00:00

Incident Reporter 1

Received By:	Cindy Lafosse
Received Date:	5/23/2012 14:49:00
Dispatch #:	c12-9632
Reported By:	Madeline Murphy
Phone:	225-229-2767 (Work phone number)
Reporter Title:	
Organization:	
Address:	
Municipality:	
State:	LA
Zip Code:	
Comments:	

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 139949

Incident Source 1

Source Name:	Essen Ln - Drum Complaint
Address:	Essen Ln Exit
Municipality:	Baton Rouge
State:	LA
Phone:	
Parish:	East Baton Rouge
AI #:	182221
Related Permits:	
Comments:	Unknown RP May 23, 2012 Tempo# 139949 On May 23, 2012 at approximately 15:30 hours Louisiana Department of Environmental Quality Emergency Responder (LDEQ-ER) Rachel Mroch responded to the Essen Lane exit (Exit 160) on I-10 Eastbound in Baton Rouge regarding a citizen complaint from Madeline Murphy about two 55 gallon drums that were in the middle of the road. After investigation of the area, there were no drums that were visible in the location. No fires, injuries or road closures were reported as a result of this incident. No further action by LDEQ Emergency Response at this time. RDM.

Revised 7/11/00 - ER

INCIDENT REPORT FORM

Received by: Cindy Dispatch # c12-9632 Incident # T 139949

Date Reported: 5/23/12 Time Reported: 14:49

Spill Incident/Release ☐ Citizen Complaint ☒ Emergency? ☐ Yes ☐ No Drill? ☐ Yes ☐ No

CALLER INFORMATION: Citizen ☒ Industry ☐ Anonymous Complaint ☐
Other (i.e. Coast Guard):

Name/Company: Madeline Murphy Title:

Address:

Is caller requesting a follow-up call? Yes ☐ No ☒ Date of Caller Contact:

Telephone No. 225-229-2767 Parish (of occurrence): East Baton Rouge

SITE INFORMATION:
Company Name/
Alleged Violator: unknown Agency Interest #
Other:

Location Address: intersection of Essen Lane & I-10 c/b exit ramp Baton Rouge

Site is Active or Inactive:

Date of discharge if different from date report: Time discharge noticed: Began Ended

Media Affected: Air ☐ Land ☒ Surface Water ☐ Ground Water ☐ Other

If water affected, name of nearest water body (Basin/Subsegment):

If air affected, note wind direction and weather conditions (if provided):

DESCRIPTION OF RELEASE/SPILL/COMPLAINT:
Product/material release and quantity (reported):

Product/material released and quantity (actual):

Description of release/complaint: 2 55-gallon drums (w/lids) in the middle of the intersection; cars going around them; do not appear to be leaking.

How was spill contained? Offsite Impact?

How was spilled cleaned/remediated?

DIRECTIONS FOR REACHING THE SITE:

Investigator's Comments:

Region Assigned: ER - Rachel Mroch Summary Report: Yes ☐ No ☐

Investigator Assigned: Date: Time:

Investigator's Signature: Reviewer's Initials & Date:

Date Closed: Closed by: Site Visit ☐ Telephone ☐ Other:

SPOC

INCIDENT # 11-00964 SOURCE: STATE POLICE HAZMAT HOTLINE
877-925-6595 / 225-925-6595

** (INITIAL REPORT) DATE AND TIME **********
HOTLINE NOTIFIED: 02/21/11 04:38
INCIDENT OCCURRED: 02/21/11 04:17

511-0639
1129505

** (INITIAL REPORT) INCIDENT LOCATION **********
PARISH: West Baton Rouge
ADDRESS: I-10 EB entrance ramp from LA 1 South
CITY: Port Allen

** (INITIAL REPORT) CALLER INFORMATION **********
CALLER'S NAME: Diane Townsend
CALLER'S ADDRESS OR EMPLOYER: West Baton Rouge 911
CALLER'S PHONE NUMBER: 225-490-8599

MO 5:05

** (INITIAL REPORT) RESPONSIBLE PARTY **********
NAME: Cooms Trucking Company
MAILING ADDRESS: 2234 Park Circle
CITY,STATE,ZIP: Baton Rouge, La 70819

RECEIVED
FEB 28 2011

** (INITIAL REPORT) DETAILS **********
Vehicle traveling I-10 entrance ramp... Vehicle rolled over on the curb... Unknown cause... Road closure at I-10 entrance ramp to new bridge eastbound...

** (INITIAL REPORT) CHEMICAL INFORMATION **********
CHEMICAL 1: Diesel
QTY: 100 gal
RELEASED STATE: Liquid CLASS: Combustible Liqui ID: 1993 EHS: No

** (INITIAL REPORT) RELEASE INFORMATION **********
INCIDENT CLASSIFICATION: Unusual Event
POTENTIAL TO ESCAPE FACILITY? No
DID MATERIAL GO OFFSITE? No
RELEASED TO: Concrete
WHERE IS AIR BEING MONITORED? See details
ANY OFF-SITE PROTECTIVE ACTION?
Yes - road closure
RELEASE EFFECTS:
FIRE: No
INJURIES: No :
FATALITIES: No :

c/o
FEB 25 11:50
Danny Burgard ER

** (INITIAL REPORT) FIXED SITE **********
Storage Unit

** (INITIAL REPORT) PACKAGE TYPE **********
Saddle Tank

** (INITIAL REPORT) TRANSPORTATION INFORMATION **********
HIGHWAY: Tank Truck: rolled over
ID # FOR ABOVE:
OTHER VEHICLES INVOLVED?

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Diane Townsend/LEPC
PHONE: 225-490-8599
Advised hazmat hotline of incident...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Trooper curlee/Hazmat
PHONE: 504-256-6986
Advised... Emailed incident report...

** (UPDATE TO THE REPORT) DETAILS **********
PERSON/REPRESENTING: Maureen/DEQ
PHONE: 225-237-3694
Advised...

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 129505

Incident Description

Incident Type:	Release/Spill, Highway Transport
Incident Date:	2/21/2011 04:17:00
Parish:	West Baton Rouge
Municipality:	Port Allen
Location:	Cooms Trucking Co - I-10 EB entrance ramp - from LA 1 S - Port Allen
Lat/Lon:	
Basin/Segment:	
Substance(s):	
Media Impacted:	Soil
Incident Desc:	s11-0639 Vehicle rolled over on curb on entrance ramp...diesel...cj

Incident Status

Lead Investigator:	Danny Burgard
Incident Region:	Capital
Incident Status:	Closed
Followup Status:	Closed
As Of:	3/1/2011 00:00:00

Incident Reporter 1

Received By:	Maureen Olinde
Received Date:	2/21/2011 05:05:00
Dispatch #:	s11-0639
Reported By:	Diane Townsend
Phone:	225-490-8599 (Work phone number)
Reporter Title:	
Organization:	West Baton Rouge 911
Address:	
Municipality:	
State:	LA
Zip Code:	
Comments:	LSP11-00964...cj

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
INCIDENT REPORT

Incident ID: 129505

Incident Source 1

Source Name:	Triple G Express Inc - Incident Site
Address:	I-10 @ Mississippi R Bridge
Municipality:	Baton Rouge
State:	LA
Phone:	
Parish:	East Baton Rouge
AI #:	175084
Related Permits:	
Comments:	On 2/21/11, I responded to an overturned semi-trailer truck on the Hwy 1 to I-10 on-ramp over the Port of Greater Baton Rouge. The semi spilled the diesel contents of its saddle tanks down the ramp and underneath the bridge to the ground below. Clean up took place on the bridge after the truck was cleared. I later contacted Courtney White of the Port of Greater Baton Rouge, he requested that any diesel that went on the ground be cleaned. Frank Piedisanlzo of United States Environmental Services did the clean up on 2/22/11, and put the contaminated dirt into barrels for landfill. I inspected the final clean up when it was finished and took pictures of the remediated site.

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
FIELD INTERVIEW FORM

AGENCY INTEREST#: 175084 INSPECTION DATE: 2/21/11 TIME OF ARRIVAL: 5:00am

ALTERNATE ID#: (ID Type/Number) DEPARTURE DATE: 2/22/11 TIME OF DEPARTURE: 3:30pm

FACILITY NAME: Triple 6 Express - Incident Site PH #: 504-731-2847

LOCATION: Baton Rouge, LA I-10 MS River Bridge

PARISH NAME: East Baton Rouge

RECEIVING STREAM (BASIN/SUBSEGMENT):

MAILING ADDRESS: 800 St. George Ave. (Street/P.O. Box) Jefferson (City) LA (State) 70121 (ZIP)

FACILITY REPRESENTATIVE: Michael Maniscalco TITLE: Director of Safety

FACILITY REPRESENTATIVE PHONE NUMBER:

NAME, TITLE, ADDRESS and TELEPHONE of RESPONSIBLE OFFICIAL (if different from above):

INSPECTION TYPE: T129505 PROGRAM INVOLVED: AIR WASTE WATER OTHER Spill

INSPECTOR'S OBSERVATIONS: (e.g. AREAS AND EQUIPMENT INSPECTED, PROBLEMS, DEFICIENCIES, REMARKS, VERBAL COMMITMENTS FROM FACILITY REPRESENTATIVES)

On 2/21/11, I responded to an overturned semi-trailer truck on the Hwy 1 to I-10 on-ramp over the Port of Greater Baton Rouge. The semi spilled the diesel contents of its saddle tanks down the ramp and underneath the bridge to the ground below. Clean up took place on the bridge after the truck was cleared. I later contacted Cortney White of the Port of Greater Baton Rouge, he requested that any diesel that went on the ground be cleaned. Frank Piedisculee of United States Environmental Services did the clean up on

AREAS OF CONCERN:

REGULATION	EXPLANATION	CORRECTED?
		YES NO
		YES NO

PHOTOS TAKEN: ☒ YES ☐ NO SAMPLES TAKEN: ☐ YES ☒ NO (Attach Chain-of-custody)

RECEIVED BY: SIGNATURE: Michael Maniscalco

PRINT NAME: Michael Maniscalco

(NOTE: SIGNATURE DOES NOT NECESSARILY INDICATE AGREEMENT WITH INSPECTOR'S STATED OBSERVATIONS)

INSPECTOR(S): [signature] CROSS REFERENCE:

ATTACHMENTS:

REVIEWER:

NOTE: The information contained on this form reflects only the preliminary observations of the inspector(s). It should not be interpreted as a final determination by the Department of Environmental Quality or any of its officers or personnel as to any matter, including, but not limited to, a determination of compliance or lack thereof by the facility operator with any requirements of statutes regulations or permits. Each day of non-compliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

REVISED: 02/03/2003

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
ADDITIONAL OBSERVATIONS (cont'd)

AGENCY INTEREST#: 175084 ALTERNATE ID#: _____ INSPECTION DATE: 2/22/11

FACILITY NAME: Triple G Express - Incident Site

INSPECTOR OBSERVATIONS CONT'd:

2/22/11, and put the contaminated dirt into barrels for landfill. I inspected the final clean up when it was finished and took pictures of the remediated site.

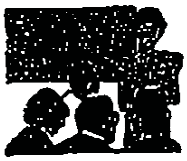
3/1/2011

INITIALS OF RECEIPT

REVISED: 05/01/2000

PAGE 2 OF 2

TOTAL P.03



FAX COVER SHEET

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
602 N. Fifth Street
Baton Rouge, LA 70802
Phone: 225-219-3600 / Fax: 225-219-3695

DATE: 3/1/11

FROM [redacted] Michael Maniscalco Triple C Express

PHONE: 504-731-2647 FAX: 504-731-2631

TO [redacted] Danny Burgard

PHONE: 225-219-3040 FAX: 225-219-3695

SUBJECT: Feild Interview Form

2 PAGES TO FOLLOW

COMMENTS: Please sign and print on the 1st page then initial the 2nd page

Your Signed Copies Returned

Thks M. Maniscalco

RECEIVED

MAR 01 2011

DEPT. OF ENVIRONMENTAL QUALITY

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge

AI#:175084	Date:2/21/2011
Description: Diesel spilled on ramp	

AI#:175084	Date: 2/21/2011
Description: Overturned Semi	

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge

AI#:175084	Date: 2/21/2011
Description: Spilled Diesel	

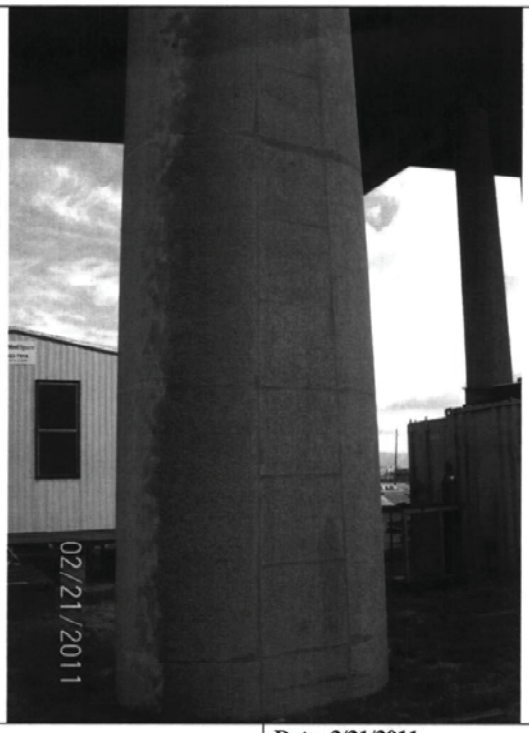
AI#:175084	Date: 2/21/2011
Description: Impacted Area	

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge

AI#:175084	Date: 2/21/2011
Description: Sanding the On-Ramp	

AI#:175084	Date: 2/21/2011
Description: Sanded On-Ramp	

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge



AI#:175084	Date: 2/21/2011
Description: Spilled Diesel	

AI#:175084	Date: 2/21/2011
Description: Spilled Diesel	

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge

AI#:175084	Date: 2/21/2011
Description: Ground Impacted	

AI#:175084	Date:2/22/2011
Description: Remediated Area	

AI#: 175084	Location: I-10
Incident#: T129505	City: Port Allen
Photographer: Danny Burgard	Parish: West Baton Rouge

AI#:175084	Date: 2/22/2011
Description: Remediated Area	

AI#:175084	Date: 2/22/2011
Description: Contaminated Dirt in Barrels.	

PM 2/24/11

Section 3925

TRIPLE G EXPRESS, INC

PO Box 10485
Jefferson LA 70181
Office 504-731-2841
Fax 504-731-2831
Email: tgmike@bellsouth.net

02/24/2011

§3925. Written Notification

1. The name, address, telephone number, Agency Interest (AI) number (number assigned by the department) if applicable, and any other applicable identification numbers of the person, company, or other party who is filing the written report, and specific identification that the report is the written follow-up report required by this Section;

   Triple G Express, Inc, 800 St. George Ave Jefferson LA 70121

   Written report prepared by Michael A. Maniscalco, Safety Director, 504-731-2841 xtn 117

2. The time and date of prompt notification, the state official contacted when reporting, the name of the person making that notification, and identification of the site or facility, vessel, transport vehicle, or storage area from which the unauthorized discharge occurred;

   Triple G Express, Inc was notified of the accident on February 21, 2011 at approximately 5:39am. LA State Police, LADEQ, and various other State agencies had already been notified and responded to the scene. Through direct conversation with Danny Burgard, LADEQ, no further notification was required. The release occurred from a ruptured fuel tank on a tractor-truck what overturned. The tractor truck was a 1993 Freightliner vin# 1FUYDZYB9PH426873 belonging to Coon's Trucking LLC 2234 Park Circle, Baton Rouge LA 70819.

AI: 175084

3. Date(s), time(s), and duration of the unauthorized discharge and, if not corrected, the anticipated time it is expected to continue;

Burgard, Danny

   The release occurred on February 21, 2011 at approximately 4:30am. The duration of the spill was less than 5 minutes.

4. Details of the circumstances (unauthorized discharge description and root cause) and events leading to any unauthorized discharge, including incidents of loss of sources of radiation, and if the release point is subject to a permit:

T129505

   Named vehicle's saddle tank was ruptured when the vehicle overturned onto the driver's side as the vehicle was traveling the I-10 east entrance ramp to the Mississippi River Bridge from US Highway LA 1 North.

SI1-0639

5. The common or scientific chemical name of each specific pollutant that was released as the result of an unauthorized discharge, including the CAS number and U.S. Department of Transportation hazard classification, and the best estimate of amounts of any or all released pollutants (total amount of each compound expressed in pounds, including calculations);

   Diesel Fuel, Class 3, CAS # 68476-34-6

   Best Estimate of Release approximately 378.54 Liters (80 U.S. gallons).

6. A statement of the actual or probable fate or disposition of the pollutant or source of radiation and what off-site impact resulted;

   Not Applicable

RECEIVED
FEB 28 2011
DEQ
Single Point of Contact

7. Remedial actions taken, or to be taken, to stop unauthorized discharges or to recover pollutants or sources of radiation;

   LADOTD responded in cooperation with other state authorities and took immediate action to contain and cleanup all diesel spilled onto the highway.

   Likewise, Triple G Express hired United States Environmental Services to execute remediation of contaminated soil beneath the elevated entrance ramp.

8. Procedures or measures which have or will be adopted to prevent recurrence of the incident or similar incidents, including incidents of loss of sources of radiation;

   Not applicable

9. If an unpermitted or unlicensed site or facility is involved in the unauthorized discharge, a schedule for submitting a permit or license application to the department, or rationale for not requiring a permit or license;

   Not applicable

10. The reporting party's status (former or present owner, operator, disposer, etc.);

    Operational

11. For discharges to the ground or groundwater, the following information shall also be included: all information of which the reporting party is aware that indicates pollutants are migrating, including, but not limited to, monitoring well data; possible routes of migrations; and all information of which the reporting party is aware regarding any public or private wells in the area of the migration used for drinking, stock watering, or irrigation;

    The spillage was well contained and there are no indications that any discharges are migrating.

12. What other agencies were notified;

    None

13. The names of all other responsible parties of which the reporting party is aware;

    None

14. A determination by the discharger of whether or not the discharge was preventable, or if not, an explanation of why the discharge was not preventable;

    Discharge was not a preventable occurrence.

15. The extent of injuries, if any; and

    No injuries resulted

16. The estimated quantity, identification, and disposition of recovered materials, if any.

    Approximately 4 – 55 gallon containers of contaminated soil was removed from beneath the elevated entrance ramp and replaced.

Please consider this written report as notification as required by LAC 33:I.3915, 3917 and 3919. These statements made herein are truthful and accurate to the best of our knowledge as evident by my signature below.

Sincerely,

Michael A. Maniscalco
Safety Director, Triple G Express, Inc.

Office of Environmental Compliance
Underground Storage Tank and Remediation Division
NFA, COC, or NFI Letters ONLY
(Use this form as an attachment to the OEC Route Slip for NFA, COC, or NFI Letters)

Originator:	T. DORAN	**Check One or Both as Applicable:**	☒ NFA Letter ☐ COC Letter or ☐ No Further Interest Letter

Required Cost/Fee Info

Final Invoicing Verification Contact	**Fee Payment Verification Contact**
PRP – Bridget Jones	Solid Waste – Vicki Thibodeaux
Environmental Conditions Review – Vicki Thibodeaux	Environmental Conditions Review – Vicki Thibodeaux
VRP – Vicki Thibodeaux	GW Fee – Vicki Thibodeaux

Date Fee Paid:	N/A GOVERNMENTAL ENTITY	**Fee Type:**	☐ SW ($1320) ☐ ECR ($1500) ☐ GW ($_____)
Date Final Invoice Paid:		**Invoice Type:**	☐ PRP ☐ VRP ☐ ECR (if costs incurred > $1500 fee)

Technical Criteria Checklist for NFA/COC

Document that vertical and lateral extent of impact has been defined to extent required. Check one:	☐ Industrial/Commercial ☒ Non-Industrial (residential)
Available information documents constituent concentrations in all media are less than or equal to the limiting RS at this time; OR Exceedance is addressed under a VRP Partial Remedial Action by Use Restrictions. *Verified by Team Leader (TL)*	HJD TL initials
Explain any unusual conditions or allowed exceedance.	

Controls in Place

Are either LaDEQ-approved Controls (Engineering or Institutional) or Use Restrictions (VRP) part of the remedy? If "YES", attach a Clerk of Court Certified Copy, and select which types of control: ☐ YES ☒ NO

Engineering Controls	Institutional Controls	
☐ Access Controls (Fences, etc.)	☐ Access Restrictions	☐ GW Use Restriction
☐ Cap/Surface Soil Barrier Construction/Maintenance	☐ Building/Construction Restrictions	☐ Land Restriction
☐ Impervious Cap	☐ City Ordinance	☐ Mortgage Notice (SW Industrial/Commercial)
☐ Signage	☐ Conveyance Notice (all Industrial/Commercial)	☐ Non-Residential Use Restriction
☐ Subsurface Containment	☐ Excavation Restriction	☐ Servitudes
	☐ Partial Remediation Agreement	☐ Other

Monitoring wells and/or borings were properly plugged and abandoned. *Verified by Team Leader (TL)*	HJD TL initials
Waste from investigation and/or corrective actions were properly disposed of, and disposal manifests or other documentation has been provided to LDEQ. *Verified by Team Leader (TL)*	HJD TL initials
Final inspection has been performed verifying conditions for NFA/COC.	☒ YES (Attach copy of FIF) 12/4/14

BOBBY JINDAL
GOVERNOR

PEGGY M. HATCH
SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY

OCT 15 2015 OFFICE OF ENVIRONMENTAL COMPLIANCE

Mr. Joey Lambert
Commercial Property Realty Trust
402 North 4th Street, First Floor
Baton Rouge, LA 70802

RE: No Further Action Notification
Brickyard Site, AI #1429
1059 Brickyard Lane
Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Lambert:

The Louisiana Department of Environmental Quality – Underground Storage Tank and Remediation Division (LDEQ-USTRD) has completed its review of your Risk Evaluation/Corrective Action Program Report dated August 7, 2014, and later revised October 31, 2014 in your Response to Notice of Deficiency for the above referenced area of investigation, located at 1059 Brickyard Lane, Baton Rouge in East Baton Rouge Parish. Based on our review of this document and all previously submitted information, we have determined that no further action is necessary at this time. The Basis of Decision for this notification is attached.

No soils may be removed from this site without prior approval from LDEQ unless they are removed and disposed at a permitted disposal facility. Prior to the construction of enclosed structures over any portion of the impacted area, further evaluation and approval from LDEQ is warranted.

If you have any questions or need further information, please call the LDEQ Team Leader Mr. Tommy Doran at (225) 219-3019. Thank you for your cooperation in addressing this area.

Sincerely,

Gary A. Fulton Jr., Administrator
Underground Storage Tank and Remediation Division

Attachment - Basis of Decision

c: Imaging Operations – Inactive and Abandoned Sites
Charles E. Jones, CRA
Terri Gibson, LDEQ

Post Office Box 4312 • Baton Rouge, Louisiana 70821-4312 • Phone 225-219-3536 • Fax 225-219-3398
www.deq.louisiana.gov

BASIS OF DECISION FOR NO FURTHER ACTION

Brickyard Site (aka – Chevron USA, Baton Rouge, and Clearwater Fluids)
AI #1429

The Louisiana Department of Environmental Quality – Underground Storage Tank and Remediation Division (LDEQ-USTRD) has determined that The Brickyard Site requires No Further Action - At This Time.

The property was previously operated as a brickyard from 1885 to 1940. From 1940 to 1990, the site was owned and operated as the Chevron Asphalt Company Plant, as an asphalt emulsification plant. The site was purchase from Chevron USA in 1990 by Clearwater Fluids Recycling Incorporated. Clearwater Fluids operated the site until 1992 as a hazardous waste recycler. During Clearwater Ownership, the site consisted of a tank farm and a three-room warehouse complete with a loading dock. The tank farm consisted of twelve aboveground storage tanks (AST) with capacities ranging from 5,000 to 420,000 gallons. The warehouse contained three 85-gallon salvage drums and a 55-gallon drum containing investigation-derived waste, and spent PPE. In addition, six vats, two tanks, and a boiler were also stored in the warehouse. An on-site chemical lab was closed in 1986. All waste was shipped off-site, and all tanks and the warehouse were demolished in June and July 1998. These chemicals were inventoried in June of 1989 and subsequently disposed of off-site during a cleanup action later that year.

An LDEQ Site Assessment was conducted in May 1991. On February 18, 1992, the Department issued a Compliance Order to discontinue Clearwater's hazardous waste treatment storage, and disposal. However, Clearwater leased the land to Chem Rail Tank Cleaners between April and December of 1993 as a hazardous waste transfer facility.

An emergency response action (ERA) was conducted by the Department on June 27, 1994 in response to reports of a leaking tank on the site (Tank 1). Approximately 40,000 gallons of material was pumped from Tank 1 into fractionation, or "frac" tanks until the fluid level inside the tank was below the leak line. In response to the ERA, the Environmental Protection Agency (EPA) in accordance with the LDEQ, signed an Action Memorandum to access the site and begin removal activities. In August 1994, approximately 302,000 gallons of manifested hazardous waste was transported off-site to a deep well injection facility.

Remedial standards were developed for this property using LDEQ's RECAP Screening Standards and Management Option 1 standards for soil and Management Option 1 for groundwater. The standards that were applied to this site are listed in the table that appears at the end of this BOD.

The Site is currently used by the State for the property assistance facility, mail sorting, and printing operations. The Site is located in an area with commercial and residential properties. The Site is bordered to the north by Interstate 10, to the south by Terrace Avenue, to the west by River Road, and to the east by Louisiana Highway 30.

LDEQ-EDMS Document 9965846, Page 4 of 6

A survey of registered water wells within a one-mile radius of the Site identified 25 registered, active water wells.

The groundwater at this site has been classified as Groundwater Class 3A Drinking Water based upon slug tests from an investigation of a site located within one mile of the site. The distance from the Point of Compliance (POC) to the Point of Exposure (POE) and the thickness of the impacted groundwater within the permeable zone were used to select a Dilution and Attenuation Factor (DAF) of 63 from tables in Appendix H of the RECAP document.

Soil and groundwater sampling has confirmed that constituents of concern concentrations do not exceed the established site-specific remediation standards, so no remedial action was required. No Further Action - At This Time is granted when contamination is confirmed to exist at concentrations that do not exceed the established standards.

There are no institutional controls on this property.

An inspection of the site was performed on December 4, 2014 confirming that no investigation derived waste remains on site. No soils may be moved from this location without written authorization from the LDEQ unless they are removed and disposed at a permitted disposal facility.

Groundwater samples were gathered from soil boring holes that were properly developed into temporary monitoring wells. Following groundwater sample collection, the temporary wells were removed from the ground and the boreholes were plugged and abandoned in accordance the LDOTD *Handbook for the Construction of Geotechnical Borehole Water Monitoring System, December 2000.*

The impacted media, constituents of concern, maximum concentration remaining on site and limiting RECAP standard established for this site are listed in the following table:

Medium	Constituent of Concern	Soil AOIC or Groundwater CC	Basis of AOIC or CC	Limiting RS	Basis of LRS	Management Option
Soil 0'-15'	Arsenic	6.5 mg/kg	95%UCL	12 mg/kg	$Soil_{nl}$	SS
Soil 0'-15'	Aromatics >C21-C35	340 mg/kg	Max	1800	$Soil_{nl}$	MO-1
Groundwater	Acetone	0.11 mg/l	Max	208 mg/l	GW_{3DW}	MO-1
Groundwater	Bis (2-ethyl-hexyl)phthalate	0.011 mg/l	Max	0.34 mg/l	GW_{sol}	MO-1
Groundwater	Arsenic	0.037 mg/l	Max	3.15 mg/l	GW_{3DW}	MO-1
Groundwater	Barium	3.90 mg/l	Max	126 mg/l	GW_{3DW}	MO-1
Groundwater	Cadmium	0.013 mg/l	Max	0.63 mg/l	GW_{3DW}	MO-1
Groundwater	Chromium	0.13 mg/l	Max	3.2 mg/l	GW_{3DW}	MO-1
Groundwater	Lead	0.39 mg/l	Max	3.2 mg/l	GW_{3DW}	MO-1

Additional information on the details of the investigation and evaluation of this site may be obtained from LDEQ's Public Records Center located in the Galvez Building, Room 127, 602 N. Fifth Street, Baton Rouge, LA 70802. Additional information regarding the Public Records may be obtained by calling (225) 219-3168 or by emailing publicrecords@la.gov.

OFFICE OF ENVIRONMENTAL COMPLIANCE
UNDERGROUND STORAGE TANK AND REMEDIATION DIVISION
Routing/Approval Slip

AI No.	1429	Facility:	CHEVRON USA-BRICKYARD SITE	Date Routed:	10-2-15
Other ID No.		Location:	1059 BRICKYARD LANE, BATON ROUGE, E. BATON ROUGE		
Activity No.		Originator:	T. DORAN		
Section/Group:		Attachments:	NFA / BOD		
Description/Type of Document(s):	NFA w/ BOD				

Closure ☐ Comfort Letter ☐ Correspondence ☐ Corrective Action ☐ Conveyance Notice ☐

NFA ☒ NOD ☐ Personnel ☐ Other ☐

Technical Review	Req'd.	Initials	Date	Return to Originator?	Comments
Environmental Scientist	☒	JHD	10-2-15	☐Y ☐N	
Geology	☐			☐Y ☐N	
Legal	☐			☐Y ☐N	
Technical Advisor	☐			☐Y ☐N	
Other (_____)	☐			☐Y ☐N	
Additional Comments					

Management Review	Req'd.	Initials	Date	Return to Originator?	Comments
Supervisor	☒	ASK	10/6/15	☐Y ☐N	
Manager	☒		10/7/15	☐Y ☐N	
Administrator	☒		10/13/15	☐Y ☐N	
Assistant Secretary	☐			☐Y ☐N	
Deputy Secretary	☐			☐Y ☐N	
Secretary	☐			☐Y ☐N	
Other (_____)	☐			☐Y ☐N	
Additional Comments	Do not send FIF "Copy" to EDMS				

☐ TEMPO Data Entry Completed (Date Document Completed): _____

January 12, 1978

Butler's Service Station
1776 East Boulevard
Joseph Butler - Business Owner & Occupant
Sam Modicut - Property Owner

I was sent on a complaint originating from South Central Bell Telephone relative to gasoline in the man hole located at the northwest corner of East Boulevard and East Washington. Upon arrival I met with Mr. Eddy Graves of the Telephone Company and did discover what appeared to be gasoline floating on the surface of the water in the man hole; also a strong odor of gasoline was found present in this man hole.

I talked with the business owner, Mr. Joseph Butler about this condition and he informed me that he had Petro-Chem come and make a pressure test on these underground tanks and that they had in fact determined that two (2) of the 6,000 gallon tanks were leaking. These were the unleaded and premium gas tanks. The tank used for regular gas did not indicate any leakage. This test was conducted August 10, 1977 with the above results as shown.

Mr. Earl Vickry of Sullivan Oil Co. was contacted by Mr. Butler to have the gasoline pumped out. The gasoline was pumped out but the tanks were not filled with an inert material.

I therefore sent Mr. Sam Modicut a letter advising him of the proper procedure of abandonment of underground tanks.

J. K. Pinell

Inspector J. K. Pinell

flr

February 27, 1978

Butler Service Station
1776 East Boulevard
Joseph Butler - Business Owner & Occupant
Sam Modicut - Property Owner

On this date I was again requested to return to this location in regards to odor of gas and gasoline in the man hole at East Boulevard & East Washington on the northwest corner. I met with Mr. Henry Speaker, Supervisor for Grady Crawford Construction Company; Mr. Bill Long, Superintendent of South Central Bell; Mr. Kenny Gautreau, Manager Supervisor of the Cable Department of South Central Bell, and with Mr. Eddy Graves of the Repair Department of South Central Bell. Also Mr. Sam Modicut the property owner.

I again advised Mr. Modicut in person of what was needed in regards to these underground tanks. No gasoline has been placed in the tanks with leaks, however the ground is saturated with gasoline and each time it rains this gasoline comes to the surface in the man hole and pipe chases. Since liquid seeks its own level and water being heavier than gasoline, this gasoline is pushed forward to the levels of least resistance.

After speaking with all of the aforementioned people, I called Chief N. J. Arceneaux of the Fire Prevention to come to the scene as I found another matter I thought was of importance. Upon his arrival I informed him of what had taken place and the concern I had for the safety of the motel next door to this property. The concern I had was relative to the possibility of pockets of gasoline that may be existent under the motel due to the depth of the tanks and the slab of the building. Since it is not known exactly where these tanks are leaking. We spoke to Mr. Mack Anderson of the motel and made as good an investigation as possible to determine if any odor of gasoline was present in the motel. We did not find any odor nor indication of gasoline upon our investigation.

Mr. Earl Vickry of Sullivan Oil Company was present at this location and he reiterated the fact that these tanks had been pumped out.

Mr. Sam Modicut asked me for an extension of time to get these tanks removed and replaced. I granted him until March 29, 1978 to have this accomplished with the stipulation that if not complied with we would turn this matter over to the Parish Attorney for whatever legal actions may be necessary.

J. K. Finch

TO WHOM IT MAY CONCERN

FROM Property Owner - Mr. ( ) Hodicut

TO Petrochem Maintenance, Inc.
P. O. Box 140 Baton Rouge, Louisiana 70895
504/272-1361

PEI

SUBJECT: Butler Service Station, E. Blvd. & E. Washington DATE: 6-5-78

FOLD ↑ This letter is to confirm a request from Sullivan Oil Company to replace the Leaking underground tank with new tanks. These tanks are on order and as soon as they are ready we will schedule them to be installed. Job should be complete within 3 weeks.

RETURN TO → SIGNED James O. Langlois

James O. Langlois - Vice President

REPLY

RECE

AUG 2 3 1991

UNDERGRO

TANK DIVISION

DATE: SIGNED

FORM AVAILABLE FROM GRAYARC CO INC
882 THIRD AVE BKLYN N Y 11232

PERSON ADDRESSED RETURN THIS COPY TO SENDER

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY

GROUND WATER PROTECTION DIVISION

LEAKING UNDERGROUND STORAGE TANK REPORT

OFFICIAL NOTIFICATION

REPORTED BY:

NAME JOE CARNAHON

ADDRESS SOUTH CENTRAL BELL

PHONE NUMBER ( )

DATE FOUND 1-9-87

MATERIAL INVOLVED

RECEIVED BY:

NAME SANDRA

DATE REPORTED 1-9-87

TIME REPORTED

PARISH ~~EAST~~ EBR

UST ID #

TANK FACILITY NAME

TANK FACILITY ADDRESS E. WASHINGTON & DELPIT

B.R., LA

CONTACT NAME

CONTACT PHONE NUMBER ( )

TANK FACILITY OWNER

OWNER MAILING ADDRESS

OWNER PHONE NUMBER ( )

INCIDENT DESCRIPTION AND ASSESSMENT: Mr CARNAHAN called and said that they had to replace a cable here for the second time because of gasoline contamination. On 1-15-87 at 1:50 pm started field investigation, but did not finish. At that time no nothing was found. On 1-19-87 at 9:00 AM returned to complete investigation. Took three borings on Mr Butler's property (Butler's Gas Station - Shell Gasoline) see diagram. The only place any contamination was found was in boring at Tank bed. The follow are the logs

REVIEWED BY:

DATE:

REV. 1 7/86

from the borings (Mr Butler's property is Site A

B1 Site A

0-3' red clay, no odor; 3'-5' brown sandy clay mixed w/grey clay, no odor; 5'6" abandoned hole because we reached water; no sign of contamination - 0% explosive.

B2 Site A

0-1' reddish & grey clay mixed, no odor; 1'-1'6" faint gas or methane odor 0% explosive; 1'6"-2'10" grey sandy clay, diesel odor; 5% explosive; 2'10"-7' grey clay w/ gravel, reached water table, odor, no sheening, 100% explosive.

B2 Site A

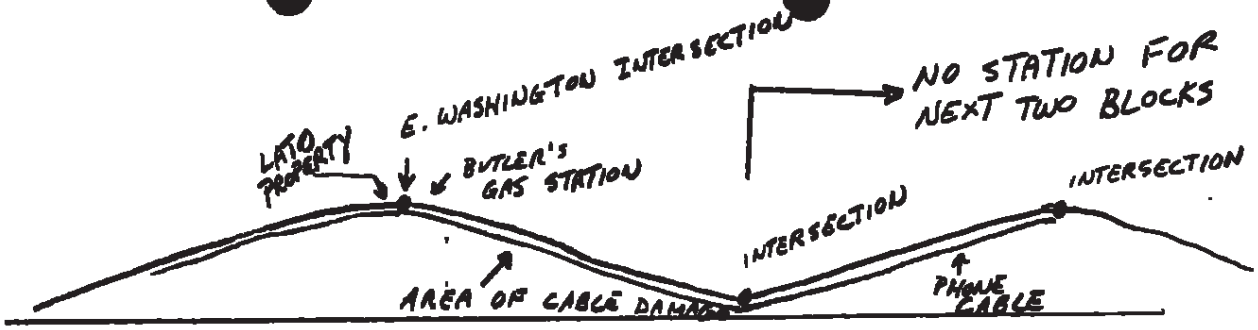
0'-4' sandy brown clay, no odor, 0% explosive, abandoned hole in something large & solid.

Next we went across the street to abandoned gasoline station. Property belongs to Lato family and Mr Jay Modicut installed tanks when he use to rent the property - Two UST's are abandoned, and each has approx. 4" of product in them. Upon boring next to tank bed no contamination was found. Lato property is Site B.

B1 Site B

0'-6" shell; 6"-2' sandy clay, no odor; 2'-3' sandy clay, no odor, 0% explosive; 3'-5' sandy clay, no odor, 0% explosive; 5'-7' sandy clay; no odor, 0% explosive, abandoned hole, we reached water table.

No conclusive evidence at this time to determine source of gasoline contamination to South Central Bells telephone cable.



CROSS SECTION OF DELPIT

LATO FAMILY PROPERTY
740 E. WASHINGTON

SITE B

UST

UST

ISLAND

B-2 SB

1776 THOMAS H. DELPIT Dr,
BUTLER'S GAS STATION

SITE A

PUMPS

UST

UST

UST

B-2 SA

B3 SA

B-1 SA

BUILDING

TELEPHONE SPLICE BOX
PHONE CO. MAN HOLE

DOWN HILL GRADE

THOMAS H. DELPIT Dr.

DOWN HILL GRADE

BLACK TOP.

PARKING

LOT

E. WASHINGTON

CAR WASH

KEY

• B-1 SA = BORING No. ONE SITE A., ETC.

--- = PROPERTY BOUNDARY

——— = CONTAMINATED PHONE CABLE

File / Dennis

State of Louisiana

Department of Environmental Quality

BUDDY ROEMER
Governor

PAUL TEMPLET
Secretary

July 16, 1991

CERTIFIED MAIL RECEIPT REQUESTED (P 366 459 713)

Mr. Frank Butler
1776 Thomas Delpit Dr.
Baton Rouge, Louisiana 70802

Attention: Mr. Frank Butler

RE: Request for Assessment
Butler's Gas Station
1776 Thomas Delpit Dr.
Baton Rouge, Louisiana
(East Baton Rouge Parish)
FID #17-001184
Incident #UE-91-2-0171

Dear Mr. Butler:

On May 23, 1991, an investigation was conducted at the above-referenced facility by representatives of this department. The results of this investigation indicate there has been substantial contamination of the soil by gasoline which may have leaked from the underground storage tanks and/or pipe lines present at this location.

Within twenty (20) days following release confirmation, you must submit a report in triplicate summarizing initial abatement steps taken to bring the situation under control. At a minimum, this report shall address the steps taken to:

1) Prevent further releases to the environment;

2) Monitor and mitigate fire and safety hazards posed by vapors and/or free product that may have migrated into subsurface structures;

3) Remedy hazards posed by contaminated soils;

4) Survey all areas likely to have been contaminated by the release;

5) Determine the presence of free-phased product in the subsurface and the progress of free-phased product removal; and

6) Submit the name of the Response Action Contractor chosen, and an assessment plan with a cost estimate to perform the work.

Within sixty (60) days following DEQ approval of the plan you must submit an investigation report in triplicate detailing the extent of subsurface contamination resulting from this incident. At a minimum, the investigation reports shall include the following:

1) Site diagram indicating all underground fixtures, piping, or other utility structures;

2) Specific designation as to location and material(s) of construction for all potable water supply lines at the site;

3) Delineation of the horizontal and vertical extent of the free-phased and dissolved hydrocarbons in soils and groundwater by soil exploration;

4) Installation of groundwater monitoring wells immediately outside of the confirmed zone of contamination defining both up-gradient and down-gradient boundary conditions;

5) A determination of groundwater elevations, direction and velocity of flow from at least three (3) of the monitoring wells;

6) A diagram showing the location of all boreholes and/or wells existing at the site;

7) A diagram indicating potentiometric lines;

8) Results of laboratory analyses from all existing and new wells where free-phased product was not observed. The following methods shall be used for soil samples taken from borings and for dissolved constituents in groundwater:

PRODUCT STORED	ANALYSIS NEEDED	ANALYTICAL PROCEDURE
Gasoline	BTEX TPH-Gasoline	Solid Waste 846-Method 8020 California Department of Health Services Method
Diesel	TPH-Diesel	California Department of Health Services Method
Used Oil	TCLP (heavy metals) Oil and Grease Volatile Organic Hydrocarbons	Solid Waste 846-Method 1311 503 E Standard-Methods Solid Waste 846-Method 8240

9) Driller's logs from all boreholes and wells installed. For wells this should include the well construction information;

10) Provide results of tank and line tightness tests and reconciled inventory records for the prior ninety (90) days;

11) The type of free-phased product recovery system used;

12) The disposition and quantity of all recovered free-phased product, contaminated groundwater and soil; and

13) If necessary, a plan of additional investigation activities to determine off-site contamination must be included unless an alternate investigation plan is agreed upon by the Department.

In order for this work to qualify for reimbursement under the Louisiana Motor Fuels Underground Tank Trust, you must select a contractor from the attached state approved Response Action Contractors list to perform the above-referenced investigation or any corrective action that might be necessary. However, actions taken to abate an immediate hazard may be performed by a Response Action Contractor without obtaining cost estimates in advance. This may include, but not be limited to free product recovery, vapor abatement, or the removal of highly saturated soils. The Underground Storage Tank Division, however, shall be notified concerning these activities and will take all possible steps to oversee such activities in an effort to avoid cost overruns.

If it appears that the investigation reports cannot be submitted within the requested sixty (60) days after approval of assessment plan, please indicate in writing the reasons for the delay.

Following receipt of the reports, you will be contacted by division personnel regarding the final disposition of this matter. If corrective action is indicated, you will be placed on a time schedule for submittal of a corrective action plan and for continued monitoring and reporting.

Thank you for your cooperation. If you have any questions, please call Mr. Dennis D. Strickland at (504) 925-4519.

Sincerely,

Frank L. Dautriel, Program Manager
Underground Storage Tank Division

FLD\DDS\tb
Enclosures

State of Louisiana

Department of Environmental Quality

M.J. "MIKE" FOSTER, JR.
GOVERNOR

J. DALE GIVENS
SECRETARY

September 18, 2001

CERTIFIED MAIL – RETURN RECEIPT REQUESTED: 7099 3400 0007 7067 8683

Mary Modicut
c/o Joseph S. Modicut
8265 Albert Drive
Baton Rouge, LA 70806

RE: Butler Gas; **AI 26960**
1776 Thomas Delpit; Baton Rouge, LA; East Baton Rouge Parish
Facility ID No. 17-001184
Incident No.'s UE-91-2-0171

The Louisiana Department of Environmental Quality – Remediation Services Division (LDEQ-RSD) has reviewed the file for the above-referenced facility. However, the department is unable to fully assess the status of the facility in question. The file for the facility shows three (3) separate release notifications dating back to 1978. The department requested site assessments in 1991. A letter dated October 21, 1991 was received by the LDEQ. It states that you were in the process of selecting a contractor to do an assessment. However, the file does not contain any records of those assessments if they were indeed conducted.

LDEQ is unaware if business is still in operation at this facility. The business in question is Butler Gas. On March 21, 1997, LDEQ received a notification of a "used tire dealer." Again the department is unaware of the status of this possible business.

These matters are of priority and need to be resolved in a timely manner. Please contact Joe Botke at (225) 765-2682 with information concerning all the above-mentioned matters. Your response is appreciated.

Sincerely,

Joe Botke
Environmental Scientist I

C: UST File Room
Amy Lewis, RSD

STATE OF LOUISIANA
UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM – PLEASE TYPE

Please complete and return withing sixty (60) days after UST system closure or change-in-service.

Return to: LDEQ-SURVEILLANCE DIVISION Questions: (225) 765-2953
P.O. Box 82215
Baton Rouge, LA 70884-2215

DEQ Facility Number 17-001184
DEQ Owner ID Number 00049100

I. OWNERSHIP OF TANKS

IF OWNER'S ADDRESS CHANGED, PLEASE CHECK ☐
JOSEPH S. MODICUT
OWNER NAME (CORPORATION/INDIVIDUAL, ETC.)
839 WOODSTONE DR.
MAILING ADDRESS
BATON ROUGE LA. 70808-5167
CITY STATE ZIP
E.B.R.
PARISH/COUNTY
(225) 769-7878
TELEPHONE (INCLUDE AREA CODE)
JOE MODICUT
NAME OF CONTACT PERSON

II. LOCATION OF TANKS

IF SAME AS SECTION I, PLEASE CHECK ☐
BULTER'S GAS STATION
FACILITY NAME OR COMPANY SITE IDENTIFIER
1776 THOMAS DELPIT DR.
STREET ADDRESS (P. O. BOX NOT ACCEPTABLE)
BATON ROUGE LA. 70802
CITY STATE ZIP
EAST BATON ROUGE
PARISH
(225)-387-9275
TELEPHONE (INCLUDE AREA CODE)
JOE MODICUT
CONTACT PERSON AT THIS LOCATION

III. TANK INFORMATION (Attach Continuation Sheets If Necessary)

DEQ ASSIGNED TANK NUMBERS	SIZE OF TANKS (GALLONS)	PRODUCT LAST STORED IN TANK	CHOOSE ONE PER TANK 1 = Removed 2 = Closed-in-Place 3 = Change-to-Service 4 = Removed & Replaced	TANK PROPERLY LABELED? CIRCLE		HIGHEST LEL OR OXYGEN READING' LEL'	Oxygen	DATE OF CLOSURE OR CHANGE-IN-SERVICE
4348	3000	GASOLINE	1-REMOVED	Y	N	0.0%		11/11/03
4349	3000	GASOLINE	1-REMOVED	Y	N	0.0%		11/12/03
4350	6000	GASOLINE	1-REMOVED	Y	N	0.0%		11/12/03
				Y	N			/ /
				Y	N			/ /

1 - Indicate the non-regulated substance to be stored in the tank
2 - A registration form addressing the replacement tank must be completed
3 - Highest reading recorded just before tank removed from excavation.
4 - Lower Explosive Limit

IV. TANK

A. Date cleaned 11/12/03
B. Date disposed/recycled 11/13/03
C. Name of disposal site/recycling site TO CUT FOR SCRAP @ DU-CO YARD

V. TANK SLUDGES

A. Date disposed/recycled / /
B. Volume removed NONE GENERATED cu/yds
C. Name of disposal site

VI. TANK WATERS/WASHWATERS

A. Date disposed/recycled 11/12/03
B. Volume removed 2720 gals
C. Name of disposal/recycling site U.S. FILTER

VII. CONTAMINATED SOIL

A. Date removed NONE GENERATED D. Date disposed / /
B. Volume of soil removed cu/yds
C. Name of disposal site

VIII. CONTAMINATED GROUNDWATER

A. Date removed NONE GENERATED D. Date disposed / /
B. Volume of groundwater removed gals
C. Name of disposal site/recycler

IX. CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this and all attached documents, and that based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the submitted information is true, accurate, and complete.

JOSEPH S MODICUT — PRINT OR TYPE OWNER'S NAME
Joseph S Modicut — OWNER'S SIGNATURE
06/26/04 — DATE

MICHAEL G. DUCOTE — PRINT OR TYPE NAME OF CERTIFIED WORKER
Michael Ducote — SIGNATURE OF CERTIFIED UST WORKER
IRC-0061 — CERTIFICATE NO.
1/22/04 — DATE

FORMS THAT DO NOT INCLUDE THE OWNER'S AND UST WORKER'S SIGNATURES WILL BE REJECTED.

LDEQ RESPONSE - DO NOT WRITE BELOW THIS LINE

☒ DEQ AI No. 26960
☒ UST system removed from database; no further action required.
☐ UST system removed from database; additional information required. _____

Signature of LDEQ Representative: Charles Melchior — Telephone No.: (225)219-3644 — Date: 1/28/04 — Supervisor's Initials: BM

UST-SURV-02 **** INCOMPLETE FORMS MAY BE REJECTED ***** Revised 01/02

SURV. DIV. MAIN OFFICE FILE

UNDERGROUND STORAGE TANK CLOSURE/ASSESSMENT FORM

INSTRUCTIONS

Within **SIXTY DAYS** after completing a UST closure or change-in-service, this form along with **two copies** of the following must be provided to the Surveillance Division:

1. site drawing;
2. analytical results with chain-of-custody documents; and
3. copies of all manifests, bills of lading or receipts for the disposition of tank(s), tank contents, soil and waters.

All applicable information required on the form must be addressed. Forms that are incomplete may be rejected.

Please **PRINT** clearly (press hard, as you are making four copies). After completion, the owner is to forward all copies of the form to:

LDEQ-SURVEILLANCE DIVISION
P.O. BOX 82215
BATON ROUGE, LA 70884-2215.

The Surveillance Division will distribute the remaining copies of the form as follows:

1. Original (White) - Surv. Div. Main Office File
2. Pink - DEQ Regional Office File
3. Goldenrod - Permits Div. Registration Files
4. Blue - UST Owner (After DEQ Processing)

PROCEDURES TO BE FOLLOWED

The procedures which must be followed when performing a UST closure or change-in-service are provided in the "Underground Storage Tank Closure/Change-in-Service Assessment Guidelines." To obtain a copy of this document call the Surveillance Division at (225) 765-2953 or write to the address noted above.

NOTICE

Chapter 13 of the UST Regulations requires that owners of USTs ensure that the contractor chosen to perform the UST closure/change-in-service employs an individual who holds a current Louisiana DEQ certificate for closure. The certified person must be present at the site and exercising responsible supervisory control during the closure/change-in-service process. A list of contractors who employ DEQ certified workers can be obtained from the Permits Division, Certifications Section, at (225) 765-2554.

UNDERGROUND STORAGE TANK DIVISION
SITE DRAWING FORM

UST-ENF-08 Revised 3/29/95

Owner Name: JOSEPH S. MOUCUT

Facility Name: BULTER'S GAS STATION

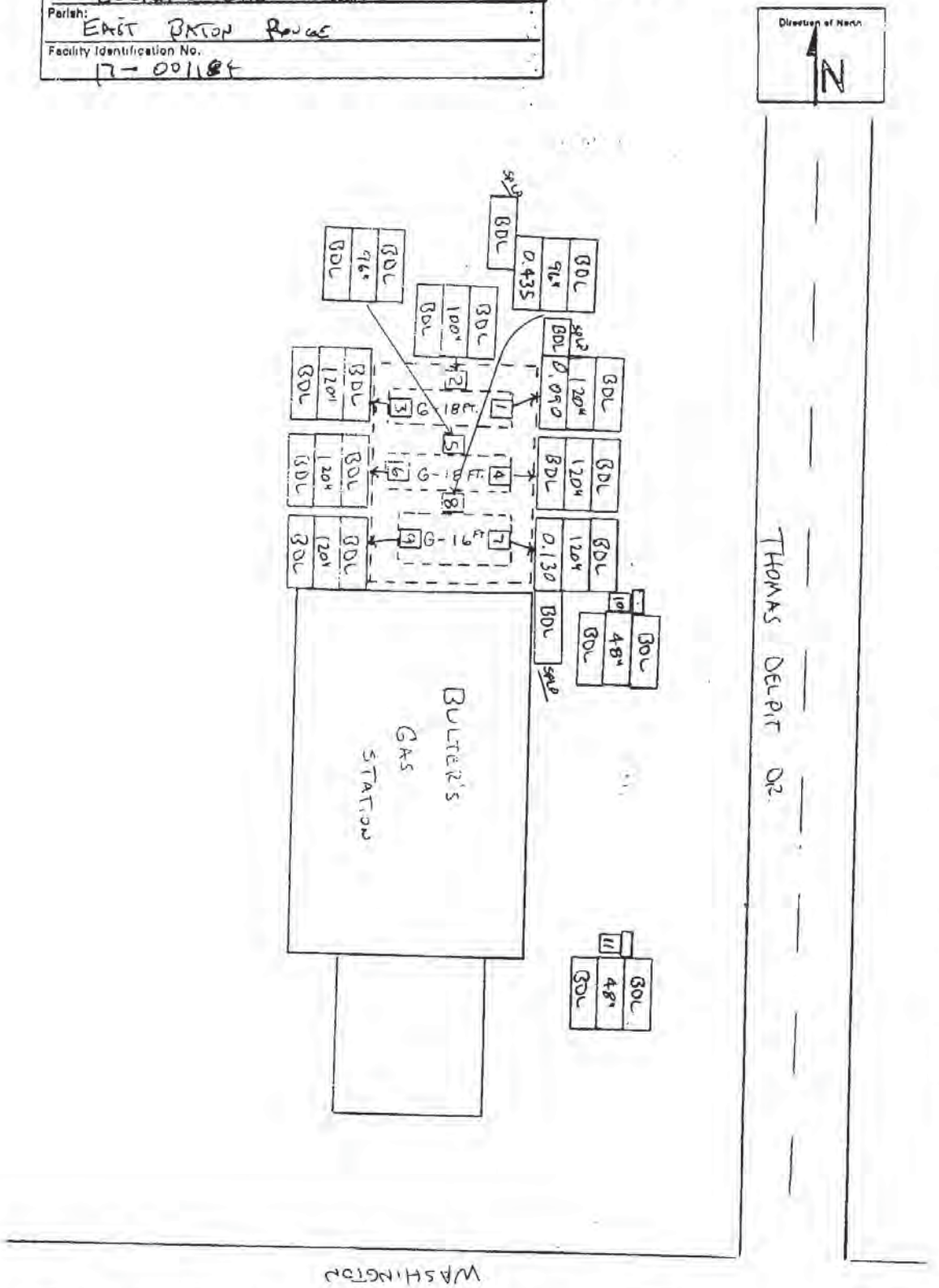
Parish: EAST BATON ROUGE

Facility Identification No.: 17-00188

Total Number of Samples Collected = 11

One inch = approximately _____ feet

Direction of North: N



A legend which explains the symbols shown in this drawing can be found on the reverse side of this form.

USFilter
RECOVERY SERVICES MID-ATLANTIC INC.

SHIPPING DOCUMENT

SHIPPER INFORMATION	Shipper U.S. EPA I.D. # (if applicable)	Document No.
SHIPPER NAME	TRUCK #	WCF #
ADDRESS / CITY / STATE / ZIP		
PHONE #	CONTACT PERSON	

TRANSPORTER(S) INFORMATION

Vivendi Water Transport, Inc.
1657 Commerce Dr., Suite 10B
South Bend, IN 46628 PHONE (800) 355-2383

STATE REGISTRATIONS TX	# 86469 A85702
U.S. EPA I.D.	# INR000022798
U.S. D.O.T. REGISTRATION	# 828559
STATE REGISTRATIONS	#
U.S. EPA I.D.	#
U.S. D.O.T. REGISTRATION	#

DESIGNATED FACILITY INFORMATION

2107 Quincy St Dallas, Texas 75212 (800) 355-2380 EPA#. TXD987988359	14420 Union St Little Rock, AR 72206 (800) 355-2382 EPA#. ARD983286485	697 Highway 167 Opelousas, LA 70570 (337) 826-8001 EPA# LAR000049114	2800 Wicks Street Kilgore, TX 75662 (800) 880-7769 EPA# TXD982560005	320 Scoggins Road Springtown, TX 76082 (800) 252-6444 EPA# TXD988036026	2200 East Pierce Luling, TX 78648 (800) 875-3260 EPA# TXD982759748	2124 East Hwy 31 Corsicana, TX 75109 (903) 874-1188 EPA# TXD988059291
1122 US Hwy 190 W Port Allen, LA 70767 (800) 357-8362 EPA#: LAR000002030	4415 East Greenwood Baytown, TX 77520 (800) 355-2383 EPA# TXD988089421	315 Pronto Street Odessa, TX (915) 550-2533 EPA#. TXR000015610	9617 Wallisville Road Houston, TX 77013 (713) 670-0200 EPA#: TXR000032870	4320 S W 29th Street Oklahoma City, OK 73119 (405) 681-0759 EPA# OKR000017111		

U.S. D.O.T. DESCRIPTION	CONTAINERS: DRUM	CONTAINERS: TANK	TOTAL QUANTITY (GALLONS)	UNIT WT / VOL
HM ❑ Non-hazardous Industrial Wastewater ❑ Used Filters/Absorbants, Non DOT Regulated ❑ Oily Water, Non-hazardous ❑ Recycled Fuel Oil, Non DOT Regulated ❑ Fuel Oil, Combustible liquid, 3, NA 1993, PGIII ❑ RQ, Other regulated substances, Liquid, n.o.s., 9, NA 3082, PGIII (ethylene glycol) ❑ Combustible Liquid, n.o.s., (petroleum oil), 3, NA 1993, PGIII ❑ Flammable Liquid, n.o.s., (petroleum product), 3, UN 1993, PGIII		1	1615	
❑ ❑ _____	**EMERGENCY CONTACT: Chem-Trec 800-424-9300**			

SHIPPER'S CERTIFICATION: I hereby declare the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highways according to applicable international and national governmental regulations.
I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain PCB's as identified in 40 CFR Part 761.

PRINT/TYPE NAME	SIGNATURE	DATE

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE
		11/14/03

DESIGNATED FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE

White Copy - Generator Original Pink Copy - Accounting Canary Copy - Transporter
Green Copy - Return to Generator Blue Copy - Designated Facility

HSE 040 REV 12-2002

SHIPPING DOCUMENT

RECOVERY SERVICES MID-ATLANTIC INC.

SHIPPER INFORMATION	Shipper U.S. EPA I.D. # (if applicable)	Document No.

SHIPPER NAME COMPLETE ENVIRONMENTAL | TRUCK # 2-0 | WCF #

ADDRESS | CITY | STATE | ZIP

1776 WASHINGTON AV. PALM KRIGE, LA.

PHONE # 318-181-2514 CONTACT PERSON MIKE LUCIE

TRANSPORTER(S) INFORMATION

Vivendi Water Transport, Inc.
1657 Commerce Dr., Suite 10B
South Bend, IN 46628 PHONE (800) 355-2383

STATE REGISTRATIONS TX	# 86469 A85702
U.S. EPA I.D.	# INR000022798
U.S. D.O.T. REGISTRATION	# 828559

COMPLETE ENVIRONMENTAL
217 DAVID SLOAN LANE
FT. LT. MO. 39465 (601) 799-5156

STATE REGISTRATIONS	#
U.S. EPA I.D.	#
U.S. D.O.T. REGISTRATION	#

DESIGNATED FACILITY INFORMATION

2107 Quincy St Dallas, Texas 75212 (800) 355-2380 EPA# TXD987988359	14420 Union St. Little Rock, AR 72206 (800) 355-2382 EPA# ARD983286485	697 Highway 167 Opelousas, LA 70570 (337) 826-8001 EPA#. LAR000049114	2800 Wicks Street Kilgore, TX 75662 (800) 880-7769 EPA# TXD982560005	320 Scoggins Road Springtown, TX 76082 (800) 252-6444 EPA#: TXD988036026	2200 East Pierce Luling, TX 78648 (800) 875-3260 EPA# TXD982759748	2124 East Hwy 31 Corsicana, TX 75109 (903) 874-1188 EPA#. TXD988059291
1122 US Hwy 190 W. Port Allen, LA 70767 (800) 357-8362 EPA# LAR000002030	4415 East Greenwood Baytown, TX 77520 (800) 355-2383 EPA#: TXD988089421	315 Pronto Street Odessa, TX (915) 550-2533 EPA# TXR000015610	9617 Wallisville Road Houston, TX 77013 (713) 670-0200 EPA# TXR000032870	4320 S W 29th Street Oklahoma City, OK 73119 (405) 681-0759 EPA# OKR000017111		

U.S. D.O.T. DESCRIPTION	CONTAINERS: DRUM	CONTAINERS: TANK	TOTAL QUANTITY (GALLONS)	UNIT WT./VOL.
HM				
☐ Non-hazardous Industrial Wastewater				
☐ Used Filters/Absorbants, Non DOT Regulated				
☐ Oily Water, Non-hazardous				
☐ Recycled Fuel Oil, Non DOT Regulated				
☐ Fuel Oil, Combustible liquid, 3, NA 1993, PGIII				
☐ RQ, Other regulated substances, Liquid, n.o.s., 9, NA 3082, PGIII (ethylene glycol)				
☐ Combustible Liquid, n.o.s., (petroleum oil), 3, NA 1993, PGIII				
☑ Flammable Liquid, n.o.s., (petroleum product), 3, UN 1993, PGIII		✓	1,000	
☐ ☑ Non-RCRA Waste Pharmaceuticals				

EMERGENCY CONTACT: Chem-Trec 800-424-9300

SHIPPER'S CERTIFICATION: I hereby declare the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highways according to applicable international and national governmental regulations.
I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain PCB's as identified in 40 CFR Part 761.

PRINT/TYPE NAME	SIGNATURE	DATE
X [illegible]	Y [illegible]	11-[illegible]-05

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE
[illegible]	[illegible]	11-11-05

DESIGNATED FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE

White Copy - Generator Original Pink Copy - Accounting Canary Copy - Transporter
Green Copy - Return to Generator Blue Copy - Designated Facility

HSE 040 REV 12-2002

USFilter
RECOVERY SERVICES MID-ATLANTIC INC.

SHIPPING DOCUMENT

SHIPPER INFORMATION	Shipper U.S. EPA I.D. # (if applicable)	Document No. _____
SHIPPER NAME [illegible] ENVIRONMENTAL		TRUCK # [illegible] 0 / WCF #
ADDRESS / CITY / STATE / ZIP		
1776 WASHINGTON ST. BATON ROUGE, LA.		
PHONE # 31 - 481-0249	CONTACT PERSON MILT DUCOTE	

TRANSPORTER(S) INFORMATION

Vivendi Water Transport, Inc. 1657 Commerce Dr., Suite 10B South Bend, IN 46628 PHONE (800) 355-2383	STATE REGISTRATIONS TX	# 86469 A85702
	U.S. EPA I.D.	# INR000022798
	U.S. D.O.T. REGISTRATION	# 828559
COMPLETE ENVIRONMENTAL [illegible] DAVID SWAN LANE [illegible], MS 39475	STATE REGISTRATIONS	#
	U.S. EPA I.D.	#
	U.S. D.O.T. REGISTRATION	#

DESIGNATED FACILITY INFORMATION

2107 Quincy St Dallas Texas 75212 (800) 355-2380 EPA# TXD987988359	14420 Union St. Little Rock, AR 72206 (800) 355-2382 EPA#. ARD983286485	697 Highway 167 Opelousas, LA 70570 (337) 826-8001 EPA# LAR000049114	2800 Wicks Street Kilgore, TX 75662 (800) 880-7769 EPA# TXD982560005	320 Scoggins Road Springtown, TX 76082 (800) 252-6444 EPA# TXD988036026	2200 East Pierce Luling, TX 78648 (800) 875-3260 EPA# TXD982759748	2124 East Hwy 31 Corsicana, TX 75109 (903) 874-1188 EPA#: TXD988059291
1122 US Hwy 190 W Port Allen, LA 70767 (800) 357-8362 EPA# LAR000002030	4415 East Greenwood Baytown, TX 77520 (800) 355-2383 EPA#: TXD988089421	315 Pronto Street Odessa, TX (915) 550-2533 EPA# TXR000015610	9617 Wallisville Road Houston, TX 77013 (713) 670-0200 EPA# TXR000032870	4320 S. W. 29th Street Oklahoma City, OK 73119 (405) 681-0759 EPA#. OKR000017111	[illegible] INC. [illegible] [illegible], LA.	

U.S. D.O.T. DESCRIPTION	CONTAINERS DRUM	CONTAINERS TANK	TOTAL QUANTITY (GALLONS)	UNIT WT / VOL
PM ☐ Non-hazardous Industrial Wastewater ☐ Used Filters/Absorbants, Non DOT Regulated ☑ Oily Water, Non-hazardous ☐ Recycled Fuel Oil, Non DOT Regulated ☐ Fuel Oil, Combustible liquid, 3, NA 1993, PGIII ☐ RQ, Other regulated substances, Liquid, n.o.s., 9, NA 3082, PGIII (ethylene glycol) ☐ Combustible Liquid, n.o.s., (petroleum oil), 3, NA 1993, PGIII ☑ Flammable Liquid, n.o.s., (petroleum product), 3, UN 1993, PGIII		✓	38	
☐ ☐ OILY WATER, NON HAZARDOUS				

EMERGENCY CONTACT: Chem-Trec 800-424-9300

SHIPPER'S CERTIFICATION: I hereby declare the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packed, marked and labeled, and are in all respects in proper condition for transport by highways according to applicable international and national governmental regulations.
I certify that the material removed from the above premises is not hazardous waste as identified in 40 CFR Part 261, and does not contain PCB's as identified in 40 CFR Part 761.

PRINT/TYPE NAME	SIGNATURE	DATE
[illegible]	[illegible]	11-[illegible]

TRANSPORTER ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE
JUAN FRANCOIS	Juan Fr[illegible]	11-1[illegible]-03

DESIGNATED FACILITY ACKNOWLEDGEMENT OF RECEIPT OF MATERIALS

PRINT/TYPE NAME	SIGNATURE	DATE

White Copy - Generator Original Pink Copy - Accounting Canary Copy - Transporter
Green Copy - Return to Generator Blue Copy - Designated Facility

HSE 040 REV 12-2002

SHERRY Laboratories

Testing Today - Protecting Tomorrow

2417 West Pinhook Road
Lafayette LA 70508-3344
(337) 235-0483

P O Box 81816
Lafayette LA 70598-1816
Fax (337) 233-6540
(800) 737-2378

CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#1
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/11/2003 2:20:00 PM
Lab ID:	L03110431-01A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP	**SW6010B**					**STS**
Lead	7.39	0.687		ppm	11/21/2003 7:08:12 A	
BTEX IN SOIL BY GC	**SW8021B**					**CRM**
Benzene	0.090	0.040		ppm	11/20/2003 10:28:00 A	
Ethylbenzene	< 0.250	0.250		ppm	11/20/2003 10:28:00 A	
Methyl-tert-butylether	0.120	0.050		ppm	11/20/2003 10:28:00 A	
Toluene	< 0.250	0.250		ppm	11/20/2003 10 28:00 A	
Xylenes, Total	< 0.750	0.750		ppm	11/20/2003 10:28:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	98.0	70-130		%REC	11/20/2003 10:28:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE	**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	87 4	70-130		%REC	11/20/2003 10.28:00 A	
TPH (GASOLINE RANGE ORGANICS)	**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/20/2003 10:28:00 A	

Qualifiers:

- ND - Not Detected at the Reporting Limit
- J - Analyte detected below quantitation limits
- B - Analyte detected in the associated Method Blank
- * - Value exceeds MCL or Permit Limitation
- S - Spike Recovery outside accepted recovery limits
- R - RPD outside accepted recovery limits
- MI+ - Matrix Interference
- H - Exceeds Holding Time

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Lafayette LA 70598-1816
Fax (337) 233-6540
(800) 737-2378

CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#2
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/11/2003 2:30:00 PM
Lab ID:	L03110431-02A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP	**SW6010B**					**STS**
Lead	95.7	0.570		ppm	11/21/2003 7:42:09 A	
BTEX IN SOIL BY GC	**SW8021B**					**CRM**
Benzene	< 0 0400	0.040		ppm	11/20/2003 10:51:00 A	
Ethylbenzene	< 0.250	0.250		ppm	11/20/2003 10:51:00 A	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/20/2003 10:51:00 A	
Toluene	< 0.250	0.250		ppm	11/20/2003 10:51:00 A	
Xylenes, Total	< 0.750	0 750		ppm	11/20/2003 10 51:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	104	70-130		%REC	11/20/2003 10:51:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE	**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	92.4	70-130		%REC	11/20/2003 10 51:00 A	
TPH (GASOLINE RANGE ORGANICS)	**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/20/2003 10:51:00 A	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	MI- - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time

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Lafayette LA 70508-3344
(337) 235-0483

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Lafayette LA 70598-1816
Fax (337) 233-6540
(800) 737-2378

CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#3
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/11/2003 2:45:00 PM
Lab ID:	L03110431-03A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result		Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**					**STS**
Lead	69.0		1.00		ppm	11/21/2003 7:46:56 A	
BTEX IN SOIL BY GC		**SW8021B**					**CRM**
Benzene	< 0.0400		0.040		ppm	11/20/2003 11:15:00 A	
Ethylbenzene	< 0.250		0.250		ppm	11/20/2003 11:15:00 A	
Methyl-tert-butylether	< 0.0500		0.050		ppm	11/20/2003 11:15:00 A	
Toluene	< 0.250		0.250		ppm	11/20/2003 11:15:00 A	
Xylenes, Total	< 0.750		0.750		ppm	11/20/2003 11:15:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	102		70-130		%REC	11/20/2003 11:15:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	90.4		70-130		%REC	11/20/2003 11:15:00 A	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0		50.0		ppm	11/20/2003 11:15:00 A	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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Lafayette LA 70508-3344
(337) 235-0483

P O Box 81816
Lafayette LA 70598-1816
Fax (337) 233-6540
(800) 737-2378

CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#4
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 9:00:00 AM
Lab ID:	L03110431-04A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**				**STS**
Lead	6.28	0.666		ppm	11/21/2003 7:51:42 A	
BTEX IN SOIL BY GC		**SW8021B**				**CRM**
Benzene	< 0.0400	0.040		ppm	11/20/2003 11:38:00 A	
Ethylbenzene	< 0.250	0.250		ppm	11/20/2003 11:38:00 A	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/20/2003 11:38:00 A	
Toluene	< 0.250	0.250		ppm	11/20/2003 11:38:00 A	
Xylenes, Total	< 0.750	0 750		ppm	11/20/2003 11:38:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	101	70-130		%REC	11/20/2003 11:38:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**				**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	88.2	70-130		%REC	11/20/2003 11:38:00 A	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**				**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/20/2003 11:38.00 A	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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SHERRY Laboratories

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Lafayette LA 70508-3344
(337) 235-0483

P O Box 81816
Lafayette LA 70598-1816
Fax (337) 233-6540
(800) 737-2378

CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#5
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 9:15:00 AM
Lab ID:	L03110431-05A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**				**STS**
Lead	4.22	0.774		ppm	11/21/2003 7:56:23 A	
BTEX IN SOIL BY GC		**SW8021B**				**CRM**
Benzene	< 0.0400	0.040		ppm	11/20/2003 12:02:00 P	
Ethylbenzene	< 0.250	0.250		ppm	11/20/2003 12:02:00 P	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/20/2003 12:02:00 P	
Toluene	< 0.250	0.250		ppm	11/20/2003 12:02:00 P	
Xylenes, Total	< 0.750	0.750		ppm	11/20/2003 12:02:00 P	
Surr: alpha, alpha, alpha-Trifluorotoluene	105	70-130		%REC	11/20/2003 12:02:00 P	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**				**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	89.4	70-130		%REC	11/20/2003 12:02:00 P	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**				**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/20/2003 12:02:00 P	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
	J - Analyte detected below quantitation limits	R - RPD outside accepted recovery limits
	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time

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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#6
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 9:25:00 AM
Lab ID:	L03110431-06A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**				**STS**
Lead	40.6	0.770		ppm	11/21/2003 8:01:11 A	
BTEX IN SOIL BY GC		**SW8021B**				**CRM**
Benzene	0.040	0.040		ppm	11/20/2003 12:25:00 P	
Ethylbenzene	< 0.250	0.250		ppm	11/20/2003 12:25:00 P	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/20/2003 12:25:00 P	
Toluene	< 0.250	0.250		ppm	11/20/2003 12:25:00 P	
Xylenes, Total	< 0.750	0.750		ppm	11/20/2003 12:25:00 P	
Surr: alpha, alpha, alpha-Trifluorotoluene	99.0	70-130		%REC	11/20/2003 12:25:00 P	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**				**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	90.8	70-130		%REC	11/20/2003 12:25:00 P	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**				**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/20/2003 12 25:00 P	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#7
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 4:45:00 PM
Lab ID:	L03110431-07A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP	**SW6010B**					**STS**
Lead	18.8	0.558		ppm	11/21/2003 8:05:53 A	
BTEX IN SOIL BY GC	**SW8021B**					**CRM**
Benzene	0.130	0 040		ppm	11/22/2003 4.35:00 P	
Ethylbenzene	0.260	0.250		ppm	11/22/2003 4:35:00 P	
Methyl-tert-butylether	< 0.0700	0.070		ppm	11/22/2003 4:35:00 P	
Toluene	< 0.250	0.250		ppm	11/22/2003 4:35:00 P	
Xylenes, Total	< 0.750	0.750		ppm	11/22/2003 4:35:00 P	
Surr: alpha, alpha, alpha-Trifluorotoluene	99.4	70-130		%REC	11/22/2003 4:35:00 P	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE	**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	78.2	70-130		%REC	11/22/2003 4.35:00 P	
TPH (GASOLINE RANGE ORGANICS)	**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/22/2003 4:35:00 P	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#8
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 4:55:00 PM
Lab ID:	L03110431-08A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**				**STS**
Lead	21.7	0.507		ppm	11/21/2003 8:10:42 A	
BTEX IN SOIL BY GC		**SW8021B**				**CRM**
Benzene	0.435	0.040		ppm	11/21/2003 3:20:00 A	
Ethylbenzene	0.490	0.250		ppm	11/21/2003 3:20:00 A	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/21/2003 3:20:00 A	
Toluene	< 0.250	0.250		ppm	11/21/2003 3:20:00 A	
Xylenes, Total	< 0.750	0.750		ppm	11/21/2003 3:20:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	103	70-130		%REC	11/21/2003 3:20:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**				**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	86.2	70-130		%REC	11/21/2003 3:20:00 A	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**				**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/21/2003 3:20:00 A	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
	* - Value exceeds MCL or Permit Limitation	H - Exceeds Holding Time

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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#9
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 5:05:00 PM
Lab ID:	L03110431-09A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result		Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**					**STS**
Lead	30.4		0.768		ppm	11/21/2003 8:15:31 A	
BTEX IN SOIL BY GC		**SW8021B**					**CRM**
Benzene	< 0.0400		0 040		ppm	11/21/2003 9:12:00 A	
Ethylbenzene	< 0.250		0.250		ppm	11/21/2003 9:12.00 A	
Methyl-tert-butylether	< 0.0500		0.050		ppm	11/21/2003 9 12:00 A	
Toluene	< 0.250		0.250		ppm	11/21/2003 9:12:00 A	
Xylenes, Total	< 0.750		0.750		ppm	11/21/2003 9:12:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	103		70-130		%REC	11/21/2003 9.12:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	81.6		70-130		%REC	11/21/2003 9:12:00 A	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0		50.0		ppm	11/21/2003 9:12:00 A	

Qualifiers:	ND - Not Detected at the Reporting Limit	S - Spike Recovery outside accepted recovery limits
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	B - Analyte detected in the associated Method Blank	MI+ - Matrix Interference
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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#10
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 5:30:00 PM
Lab ID:	L03110431-10A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP	**SW6010B**					**STS**
Lead	36.2	0.830		ppm	11/21/2003 8:20:14 A	
BTEX IN SOIL BY GC	**SW8021B**					**CRM**
Benzene	< 0.0400	0.040		ppm	11/21/2003 9:35:00 A	
Ethylbenzene	< 0.250	0.250		ppm	11/21/2003 9:35:00 A	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/21/2003 9:35:00 A	
Toluene	< 0.250	0.250		ppm	11/21/2003 9:35:00 A	
Xylenes, Total	< 0.750	0.750		ppm	11/21/2003 9:35:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	104	70-130		%REC	11/21/2003 9:35:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE	**SW8015B**					**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	81.2	70-130		%REC	11/21/2003 9:35:00 A	
TPH (GASOLINE RANGE ORGANICS)	**SW8015B**					**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/21/2003 9 35:00 A	

Qualifiers:

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J - Analyte detected below quantitation limits
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R - RPD outside accepted recovery limits
MI+ - Matrix Interference
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CLIENT:	Du-Co UST Contractors	**Client Sample ID:**	#11
Lab Order:	L03110431	**Tag Number:**	
Project:	Butler's Gas Station	**Collection Date:**	11/12/2003 5:45:00 PM
Lab ID:	L03110431-11A	**Matrix:**	SOIL
Date Received:	13-Nov-03	**Date Reported:**	01-Dec-03

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
METALS IN SOIL OR SLUDGE BY ICP		**SW6010B**				**STS**
Lead	12.3	0.678		ppm	11/21/2003 8:24:51 A	
BTEX IN SOIL BY GC		**SW8021B**				**CRM**
Benzene	< 0.0400	0.040		ppm	11/21/2003 9:59:00 A	
Ethylbenzene	< 0.250	0.250		ppm	11/21/2003 9:59:00 A	
Methyl-tert-butylether	< 0.0500	0.050		ppm	11/21/2003 9:59:00 A	
Toluene	< 0.250	0.250		ppm	11/21/2003 9:59:00 A	
Xylenes, Total	< 0.750	0.750		ppm	11/21/2003 9:59:00 A	
Surr: alpha, alpha, alpha-Trifluorotoluene	111	70-130		%REC	11/21/2003 9:59:00 A	
ALPHA,ALPHA,ALPHA-TRIFLUOROTOLUENE		**SW8015B**				**CRM**
Surr: alpha,alpha,alpha-trifluorotoluene	83.4	70-130		%REC	11/21/2003 9:59:00 A	
TPH (GASOLINE RANGE ORGANICS)		**SW8015B**				**CRM**
TPH (Gasoline Range C6 - C12)	< 50.0	50.0		ppm	11/21/2003 9:59:00 A	

Qualifiers:

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H - Exceeds Holding Time

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L03110431

DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK DIVISION
CHAIN-OF-CUSTODY

PAGE 1 OF 1

SITE NAME: BUTLER'S GAS STATION

SITE ADDRESS: 1776 THOMAS DELPIT DR

SITE LOCATION: BATON ROUGE LA. 70802

SITE PARISH: EAST BATON ROUGE

FID# 17-001184 INCIDENT #

ANALYSES: BTEX, TPH-GRO, MTBE, LEAD

SAMPLE NUMBER	COMP	GRAB	TIME	DATE	SAMPLE LOCATION	NO. OF CONTAINERS	~~PRESERVATIVES~~	SAMPLED BY	DEPTH ~~REMARKS~~
#1		✓	2:20 PM	11/11/03	EASTEND	2	NATIVE SOIL	MIKE DUCOTE	120"
#2		✓	2:30 PM		BACKFILL	2	CENTER		100"
#3		✓	2:45 PM		WESTEND	2	NATIVE SOIL		120"
#4		✓	9:00 AM	11/12/03	EASTEND	2	NATIVE SOIL		120"
#5		✓	9:15 AM		BACKFILL	2	CENTER		96"
#6		✓	9:25 AM		WESTEND	2	NATIVE SOIL		120"
#7		✓	4:45 PM		EASTEND	2	NATIVE SOIL		120"
#8		✓	4:55 PM		BACKFILL	2	CENTER		96"
#9		✓	5:05 PM		WESTEND	2	NATIVE		120"
#10		✓	5:30 PM		ISLAND N	2	NORTH		48"
#11		✓	5:45 PM		ISLAND S	2	SOUTH		48"

CHAIN OF CUSTODY

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Mike Ducote	11/13/03	8:30 AM	[signature] 11-13-03 10:05

SEND REPORT TO: DU - CO

ADDRESS: Michael Ducote
1060 Rambleview Lane
Woodworth, LA 71485

COMMENTS: FAX# 318-346-6299

USTD-COC1 (4/92)

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CLIENT: Du-Co UST Contractors
Lab Order: L04010366
Project: Bulter's Gas Station
Lab ID: L04010366-01A
Date Received: 12-Jan-04

Client Sample ID: #1-A
Tag Number: FID #17-001184
Collection Date: 1/12/04 9:30:00 AM
Matrix: SOIL
Date Reported: 16-Jan-04

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
VOLATILES, SPLP LEACHED		**SW1312/8021B**				**CRM**
Benzene	< 0 00500	0 00500		ppm	1/14/04 3 55 00 P	
Ethylbenzene	< 0 00500	0 00500		ppm	1/14/04 3 55 00 P	
Toluene	< 0.00500	0 00500		ppm	1/14/04 3 55 00 P	
Xylenes, Total	< 0 0150	0.0150		ppm	1/14/04 3 55 00 P	
Surr, alpha, alpha, alpha-Trifluorotoluene	97.6	70-130		%REC	1/14/04 3 55 00 P	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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CLIENT: Du-Co UST Contractors
Lab Order: L04010366
Project: Bulter's Gas Station
Lab ID: L04010366-02A
Date Received: 12-Jan-04

Client Sample ID: #7-A
Tag Number: FID #17-001184
Collection Date: 1/12/04 9:45:00 AM
Matrix: SOIL
Date Reported: 16-Jan-04

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
VOLATILES, SPLP LEACHED		**SW1312/8021B**				**CRM**
Benzene	< 0.00500	0 00500		ppm	1/14/04 4:18:00 P	
Ethylbenzene	< 0 00500	0 00500		ppm	1/14/04 4 18:00 P	
Toluene	< 0.00500	0.00500		ppm	1/14/04 4:18 00 P	
Xylenes, Total	< 0 0150	0 0150		ppm	1/14/04 4.18 00 P	
Surr. alpha, alpha, alpha-Trifluorotoluene	98 2	70-130		%REC	1/14/04 4.18.00 P	

Qualifiers:

ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
B - Analyte detected in the associated Method Blank
* - Value exceeds MCL or Permit Limitation
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
MI+ - Matrix Interference
H - Exceeds Holding Time

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CLIENT: Du-Co UST Contractors
Lab Order: L04010366
Project: Bulter's Gas Station
Lab ID: L04010366-03A
Date Received: 12-Jan-04

Client Sample ID: #8-A
Tag Number: FID #17-001184
Collection Date: 1/12/04 9:50:00 AM
Matrix: SOIL
Date Reported: 16-Jan-04

Analyses	Result	Detection Limit	Qual	Units	Date Analyzed	Analyst
VOLATILES, SPLP LEACHED		**SW1312/8021B**				**CRM**
Benzene	< 0.00500	0.00500		ppm	1/14/04 4:42:00 P	
Ethylbenzene	< 0.00500	0.00500		ppm	1/14/04 4:42:00 P	
Toluene	< 0.00500	0.00500		ppm	1/14/04 4:42:00 P	
Xylenes, Total	< 0.0150	0.0150		ppm	1/14/04 4:42:00 P	
Surr: alpha, alpha, alpha-Trifluorotoluene	97.6	70-130		%REC	1/14/04 4:42:00 P	

Qualifiers:

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R - RPD outside accepted recovery limits
MI+ - Matrix Interference
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4010366

DEPARTMENT OF ENVIRONMENTAL QUALITY
UNDERGROUND STORAGE TANK DIVISION
CHAIN-OF-CUSTODY

PAGE 1 OF 1

SITE NAME: BULTER'S GAS STATION

SITE ADDRESS: 1776 THOMAS DELPIT DR.

SITE LOCATION: BATON ROUGE LA. 70802

SITE PARISH: EAST BATON ROUGE

FID# 17-001184 INCIDENT #

	SAMPLE NUMBER	COMP	GRAB	TIME	DATE	SAMPLE LOCATION	NO. OF CONTAINERS	ANALYSES (SPLP / BTEX)	PRESERVATIVES	SAMPLED BY	DEPTH ~~REMARKS~~
1	#1-A		~	9:30am	1-12-04	EAST END	1			Mike Ducote	120"
2	#7-A		~	9:45am	1	EAST END	1			1	120"
3	#8-A		~	9:50am	—	BACKFILL	1			—	96"

CHAIN OF CUSTODY

RELINQUISHED BY:	DATE	TIME	RECEIVED BY:
Mike Ducote	1-12-04	1:50	

SEND REPORT TO: DU - CO
Michael Ducote
1060 Rambleview Lane
Woodworth, LA 71485

ADDRESS:

COMMENTS: Fax # 318-346-6299

USTD-COC1 (4/92)

AI 71560

SO6-0723
T 86368
Charles Melchior / CRO

INCIDENT # _____

DATE 04/11/06

LOUISIANA NOTIFICATION REQUIREMENTS

This form should be completed and submitted to the Underground Storage Tank Division within seven (7) calendar days after verbal notification.

If mailed, submittal date will be the postmark date of the written notification. Forward to:

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY
P. O. Box 4312
Baton Rouge, LA 70821-4312
Attention: SURVEILLANCE DIVISION – SPOC
"UNAUTHORIZED DISCHARGE NOTIFICATION REPORT"

1. Name of person, company, or other party who is filing the written report.

   CRA, Inc., Baton Rouge, Louisiana, as environmental consultant for Shell Oil Products US on behalf of Motiva Enterprises LLC; represented by Joyce Davis; 13258 FM 1960, Houston, TX 77065

2. Time and date of verbal notification, name of person making the notification, and identification of the site or facility. (Name and address)

   March 10, 2006, 8:09 a.m., to LDEQ/SPOC, Baton Rouge; Andre R. Bankston, CRA, Inc., Baton Rouge, LA (see Exhibit 1)

   Shell Retail Store No. 142059
   2300 South Acadian Thruway
   Baton Rouge, East Baton Rouge Parish, Louisiana

RECEIVED
APR 17 2006
DEQ
Single Point of Contact

3. Release date and time.

   Unknown

4. Incident details and/or emergency condition.

   Analytical results for several soil and groundwater samples collected during site assessment activities indicated hydrocarbon concentrations above the LDEQ RECAP Screening Option Screening Standards (SO SS). No emergency conditions existed.

5. Product released and estimated quantity released in gallons.

   Gasoline - Quantity released is unknown.

6. Surface or groundwater impact.

   Soil benzene and TPH-GRO concentrations above RECAP SO SS were detected. Groundwater benzene, ethylbenzene, MTBE, and TPH-GRO concentrations above RECAP SO SS were detected.

7. Action taken to stop release.

   Not Applicable.

8. Measures taken to prevent recurrence of the incident.

   Tank tightness tests and inventory data record review.

9. Is the U.S.T. system registered?

   YES **X** U.S.T. ID# **17-008376**

   NO _____

ANSWER THE FOLLOWING ONLY IF GROUNDWATER CONTAMINATION IS CONFIRMED

1. Reporting party status (owner, operator, consultant, etc.).

   Environmental consultant for Shell Oil Products US, on behalf of Motiva Enterprises LLC.

2. Attach groundwater contamination data and/or analytical results.

   Tables summarizing soil and groundwater analytical results and a site plan are included as Exhibit 2.

3. Possible routes of migration.

   Groundwater, underground utility corridors

4. List all abandoned or active water wells within the immediate area.

   A list of registered water wells within a 1-mile radius of the site is included as Exhibit 3.

5. Names of all other responsible parties.

   N/A

EXHIBIT 1

LDEQ ONLINE INCIDENT REPORTING FORM

Online Incident Reporting

Thank You

Please print this page for your records.

Your confirmation number is: **PINX 2864**

Reporting Company Information	
Date/Time Reported: 3/10/2006 8:09:11 AM	
Type of Incident: Spill Incident/Release	
First Name:	Andre
Last Name:	Bankston
Title:	
Company:	Conestoga-Rovers & Associates
Phone #:	225-292-9007
Mailing Address:	4915 South Sherwood Forest Blvd.
City:	Baton Rouge
State:	Louisiana
Zip:	70816
Email:	

Responsible Party Information		
Name of Responsible Party: Motiva Enterprises LLC		
Location of Incident: Shell Retail Store No. 142059, 2300 South Acadian Thruway, Baton Rouge, LA		
Mailing Address (if different from above): 13258 FM 1960		
City: Houston	State: Texas	Zip: 77065

Date of Discharge:	Unknown
Time Noticed:	Began: N/A Ended: N/A
Parish:	East Baton Rouge
Media Affected:	Soil/Water
If water, name of nearest water body: Dawson Creek	
If air, note wind direction and weather conditions: N/A	

Description of Release/Spill

Product/material release and quantity:

Suspected petroleum hydrocarbons

Description of release:
Laboratory results for soil and groundwater samples collected during the site investigation activities had concentrations greater than RECAP Screening Option Screening Standards.

How was the spill contained?: N/A

How was the spill cleaned?: N/A

Directions for Reaching the Site

The site is located north of the intersection of South Acadian Thruway and I-10 South Acadian Thruway Exit (Exit 157B).

All pages herein best if read using MS Internet Explorer or Netscape version 6 or greater.

[Home] [Up] [Contact Information] [Atrazine Study] [Mercury Programs] [EWOCDS] [Pyrolysis Gasoline Spill] [Ambient Water Quality Data] [On-line Incident Reporting] [Chemical Accident Prevention] [Mammography] [REP&R] [Smoke School] [Louisiana Emergency Response Program] [SPOC Procedures] [Underground Storage Tank Program]

Send e- mail to webmaster@deq.state.la.us or any member of our WWW Task Force with questions or comments about this web site. To contact us by phone or mail, see our Office Address/Phone listing.

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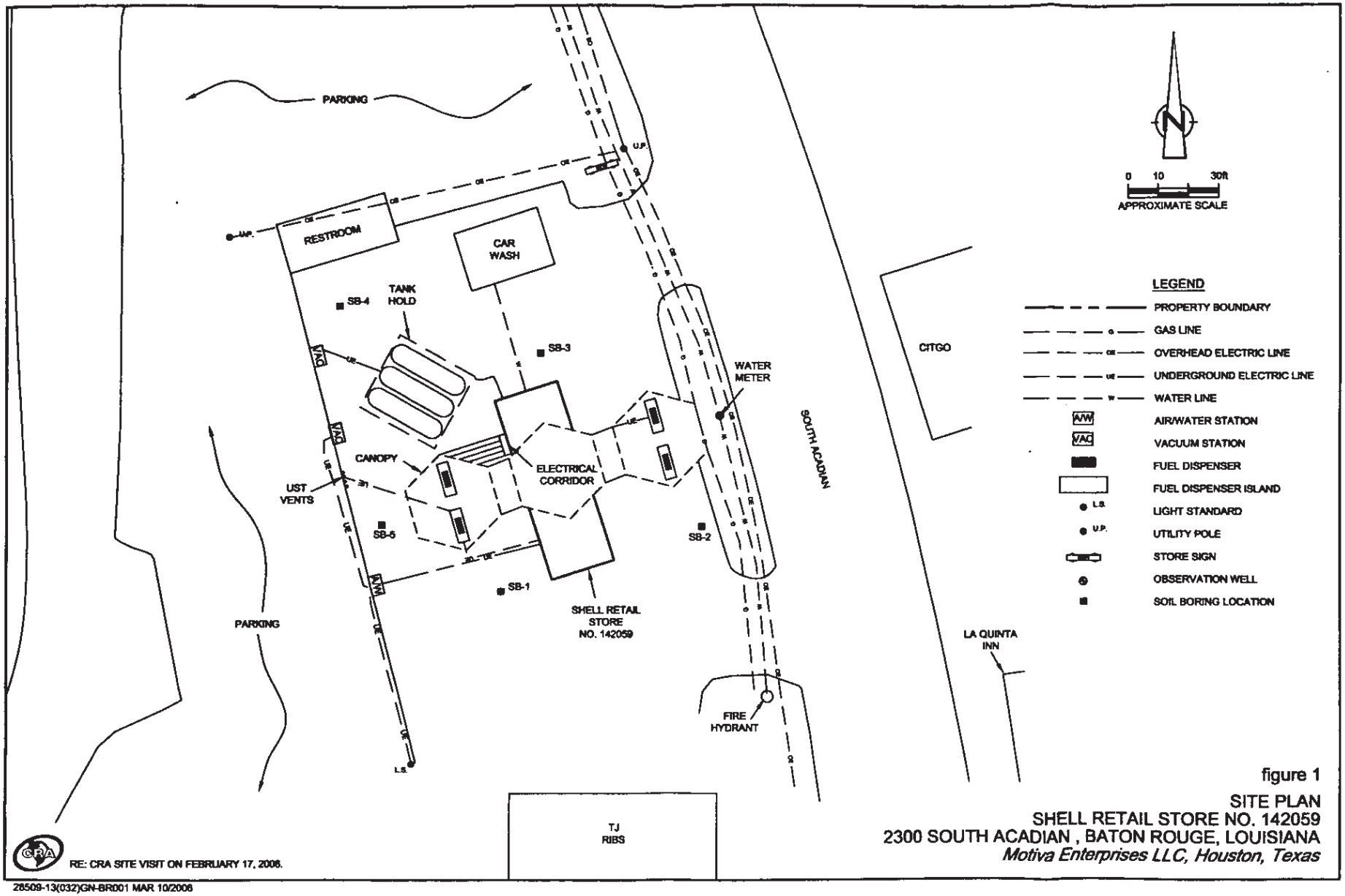
EXHIBIT 2

SITE PLAN AND SAMPLING RESULT(S)



RE: CRA SITE VISIT ON FEBRUARY 17, 2006.

figure 1

SITE PLAN
SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN , BATON ROUGE, LOUISIANA
Motiva Enterprises LLC, Houston, Texas

28509-13(032)GN-BR001 MAR 10/2006

TABLE 1A

SOIL ANALYTICAL LABORATORY DATA
SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA

Sample Location (depth, ft-bgs)	*Sample Date*	*Parameters*					
		Benzene (mg/kg)	*Toluene (mg/kg)*	*Ethylbenzene (mg/kg)*	*Xylenes (mg/kg)*	*MTBE (mg/kg)*	*TPH-GRO (mg/kg)*
SOIL_SSi		*3.1**	*470**	*230**	*120**	*4,700**	*510**
SOIL_SSGW		*0.051**	*20**	*19**	*150**	*0.077**	*65**
SB-1 (12'-15')	02/22/06	<0.00196	<0.00196	<0.00196	<0.00489	<0.002	<9.19
SB-2 (12' - 15')	02/22/06	<0.00197	<0.00197	<0.00197	<0.00493	<0.002	<10.8
SB-3 (6'-9')	02/22/06	**0.0575**	0.0634	1.67	0.2	0.003	**728**
SB-4 (12'-15')	02/22/06	**0.468**	0.0972	0.667	0.531	0.069	**88.6**
SB-5 (12'-15')	02/22/06	<0.00196	<0.00196	<0.00196	<0.00489	0.002	<9.58

mg/kg = Milligrams per kilogram, which is equivalent to parts per million (ppm)
MTBE = Methyl tert-butyl ether
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

* Screening standards (SS) specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standard for Soil and Groundwater.

Notes: Highlighted SS are the limiting SS from LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standard for Soil and Groundwater.
Bold and highlighted sample concentrations are those that exceed the LDEQ SS.

TABLE 2A

GROUNDWATER ANALYTICAL LABORATORY DATA
SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA

Sample I.D.	Sample Date	Parameter					
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	TPH-GRO (mg/L)
GW_SS		***0.005****	***1.0****	***0.7****	***10****	***0.02****	***0.15****
SB-1	02/22/06	<0.001	<0.001	<0.001	<0.003	0.00979	<0.1
SB-2	02/22/06	<0.001	<0.001	<0.001	<0.003	0.00272	<0.1
SB-3	02/22/06	**0.04**	0.0124	0.0744	0.0214	0.0132	**81.7**
SB-4	02/22/06	**1.46**	0.246	**2.43**	3.13	**1.12**	**87.3**
SB-5	02/22/06	<0.001	<0.001	<0.001	<0.003	<0.001	**0.25**

mg/L = Milligrams per liter, which is equivalent to parts per million (ppm)
MTBE = Methyl tert-butyl ether
TPH-DRO = Total Petroleum Hydrocarbons-Diesel Range Organics
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

* Screening standards (SS) specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standards for Soil and Groundwater.

Note: Bold and highlighted sample concentrations are those that exceed the LDEQ SS.

EXHIBIT 3

REGISTERED WATER WELLS

Registered Water Wells

Public Works & Water Resources Division
Water Resources Section

Wells located within 1 mile radius
of Latitude 30°25'35" and Longitude 91°09'02"

Parish	Section	Owner Name	DOTD Well #	Owner Well #	Driller's Name	Well Depth (ft)	Well Use	Casing Size (in)	Drill Date	Water Level (ft)	W.L. Date Measured	Geologic Unit	Latitude	Longitude	Avail Info	Distance in Miles
East Baton Rouge	95	EB REC PARK COM	-117		EBERHART	1402	PLUGGED	8X6	28-Jun	28	06/16/28	12112BR	302612	910828	ED W	0.9
East Baton Rouge	94	JOLLY, HENRY	-130		EBERHART	1147	DESTROYED	4X2.50	20-Jul			12108BR	302520	910920	D	0.41
East Baton Rouge	96	BATES, C	-156		EBERHART	1200	DESTROYED	2.5	18-Jun	28	06/08/18	12112BR	302541	910919	D W	0.3
East Baton Rouge	96	BATES, C	-157		EBERHART	1552	IRRIGATION	6X4	Jun-42	23	08/01/44	12115BR	302541	910919	D Q W	0.3
East Baton Rouge	94	ALDRICH, S W	-219		UNKNOWN	1444	PLUGGED	4X2.50	.	8.5	04/30/59	12112BR	302512	910825	E Q W	0.75
East Baton Rouge	95	EB REC PARK COM	-495	2	HARRELL GUY	498	DESTROYED	6X4	Aug-48	72	08/23/48	11204BR	302612	910829	DM W	0.89
East Baton Rouge	68	LSU BATON ROUGE	-554		EBERHART	294	PLUGGED	6X6X6	Nov-53	30.2	11/19/53	112SLBR	302504	910945	D Q W	0.92
East Baton Rouge	96	RAMSEY, J	-734		HERRINGTON	504	DOMESTIC	2	1960	69	00/00/60	11204BR	302551	910859	W	0.31
East Baton Rouge	94	U S GEOL SURVEY	-778		SUMMERS, D. K.	2586	OBSERVATION	4X2.50	Mar-65	40.1	03/16/65	12220BR	302509	910827	EDMQ W	0.76
East Baton Rouge	94	U S GEOL SURVEY	- 780A		SUMMERS, D. K.	1622	OBSERVATION	4	Mar-65	1.52	04/23/65	12112BR	302509	910827	MQ W	0.76
East Baton Rouge	94	U S GEOL SURVEY	- 780B		SUMMERS, D. K.	1913	OBSERVATION	2	Mar-65	8.58	04/23/65	12115BR	302509	910827	Q W	0.76
East Baton Rouge	94	U S GEOL SURVEY	-781		SUMMERS, D. K.	2286	OBSERVATION	4X2.50X2	Apr-65	122.38	04/23/65	12220BR	302535	910904	EDMQ W	0.03
East Baton Rouge	94	U S GEOL SURVEY	- 782A		SUMMERS, D. K.	1189	OBSERVATION	4	Apr-65	18.72	04/23/65	12110BR	302535	910904	MQ W	0.03
East Baton Rouge	94	U S GEOL SURVEY	- 782B		SUMMERS, D. K.	1681	OBSERVATION	4X4X4	Apr-65	53.67	04/23/65	12115BR	302535	910904	MQ W	0.03
East Baton Rouge	96	U S GEOL SURVEY	- 807A		SUMMERS BROS	1713	PLUGGED	4	May-66	64.73	05/19/66	12115BR	302611	910912	EDMQ W	0.71
East Baton Rouge	96	U S GEOL SURVEY	- 807B		SUMMERS BROS	2264	PLUGGED	4X2.50X2	May-66	132.14	05/19/66	12220BR	302611	910912	EDMQ W	0.71
East Baton Rouge	94	LA WTR RESOURCE	-823	ST ALOY	STAMM-SCHEELE	582	OBSERVATION	2	Aug-67	28.69	08/21/67	11204BR	302500	910858	E Q W	0.67
East Baton Rouge	96	LA WTR RESOURCE	-824	CATHOLIC S	STAMM-SCHEELE	581	OBSERVATION	2	Sep-67	84.93	09/22/67	11206BR	302553	910920	E Q W	0.45
East Baton Rouge	96	LA WTR RESOURCE	-825	CATHOLIC L	STAMM-SCHEELE	475	OBSERVATION	2	Sep-67	57.26	09/22/67	11204BR	302553	910920	Q W	0.45
East Baton Rouge	95	U S GEOL SURVEY	-917		SUMMERS BROS	1736	OBSERVATION	4X2.50	Oct-73	119.08	10/23/73	12115BR	302614	910830	EDMQ W	0.91
East Baton Rouge	94	PUEA, WAYNE	-5354Z		ROUYEA'S	250	HEAT PUMP		Nov-85			11200NWM	302536	910912	D	0.17
East Baton Rouge	53	SOUTHLAND CORP	-5458Z	MW-1	IT CORPORATION	16	MONITOR	4	Dec-86			112SESC	302601	910941	D	0.81
East Baton Rouge	53	SOUTHLAND CORP	-5459Z	MW-2	IT CORPORATION	16	MONITOR	4	Dec-86			112SESC	302601	910941	D	0.81
East Baton Rouge	53	SOUTHLAND CORP	-5460Z	MW-3	IT CORPORATION	16	MONITOR	4	Dec-86			112SESC	302601	910941	D	0.81
East Baton Rouge	53	SOUTHLAND CORP	-5461Z	MW-4	IT CORPORATION	16	MONITOR	4	Dec-86			112SESC	302601	910941	D	0.81
East Baton Rouge	69	CHERRLOUSE, M S	-5597Z		ECONOMY	200	HEAT PUMP		Jul-87			11200NWM	302537	910953	D	0.84
East Baton Rouge	96	LEA, MAXWELL	-5635Z		ROUYEA'S	250	HEAT PUMP		Jan-88			11200NWM	302555	910854	D	0.4
East Baton Rouge	94	CHEVRON	-5636Z	MW-1	PSI/PTL	16	PLUGGED	4	Feb-88			112SESC	302530	910902	D	0.1
East Baton Rouge	94	CHEVRON	-5637Z	MW-2	PSI/PTL	16	PLUGGED	4	Feb-88			112SESC	302530	910902	D	0.1
East Baton Rouge	94	CHEVRON	-5638Z	MW-3	PSI/PTL	11	MONITOR	4	Feb-88			112SESC	302530	910902	D	0.1
East Baton Rouge	94	CHEVRON	-5639Z	MW-4	PSI/PTL	16	PLUGGED	4	Feb-88			112SESC	302530	910902	D	0.1
East Baton Rouge	94	EXXON CO USA	-5911Z	MW-1	ATEC	15	EXCAVATED	4	Jan-92	3.9	01/24/92	112SESC	302534	910816	D W	0.76
East Baton Rouge	94	EXXON CO USA	-5912Z	MW-2	ATEC	20	PLUGGED	4	Jan-92	3.07	01/26/92	112SESC	302534	910816	D W	0.76
East Baton Rouge	94	EXXON CO USA	-5913Z	MW-3	ATEC	15	PLUGGED	4	Jan-92	0.99	01/26/92	112SESC	302534	910816	D W	0.76
East Baton Rouge	94	EXXON CO USA	-5914Z	MW-4	ATEC	15	EXCAVATED	4	Jan-92	2.6	01/26/92	112SESC	302534	910816	D W	0.76
East Baton Rouge	94	TEXACO	-6081Z	MW-3	PSI/PTL	15	MONITOR	4	Jan-89			112SESC	302515	910824	D	0.73

Registered Water Wells

Public Works & Water Resources Division
Water Resources Section

Wells located within 1 mile radius
of Latitude 30°25'35" and Longitude 91°09'02"

Parish	Section	Owner Name	DOTD Well #	Owner Well #	Driller's Name	Well Depth (ft)	Well Use	Casing Size (in)	Drill Date	Water Level (ft)	W.L. Date Measured	Geologic Unit	Latitude	Longitude	Avail Info	Distance in Miles
East Baton Rouge	94	TEXACO	-6082Z	MW-4	PSI/PTL	15	MONITOR	4	Jan-89			112SESC	302515	910824	D	0.73
East Baton Rouge	94	TEXACO	-6083Z	MW-5	PSI/PTL	15	MONITOR	4	Jan-89			112SESC	302515	910824	D	0.73
East Baton Rouge	94	TEXACO	-6084Z	MW-6	PSI/PTL	15	MONITOR	4	Jan-89			112SESC	302515	910824	D	0.73
East Baton Rouge	94	TEXACO	-6085Z	MW-7	PSI/PTL	15	MONITOR	4	Jan-89			112SESC	302515	910824	D	0.73
East Baton Rouge	94	STAR ENTERPRISE	-6123Z	MW-8	LAYNE (LA)	16	MONITOR	4	Mar-89	5	04/07/89	112SESC	302515	910817	D W	0.84
East Baton Rouge	94	STAR ENTERPRISE	-6124Z	MW-9	LAYNE (LA)	16	PLUGGED	4	Mar-89	5	04/07/89	112SESC	302514	910818	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6125Z	MW-10	LAYNE (LA)	16	MONITOR	4	Mar-89	4	04/07/89	112SESC	302515	910817	D W	0.84
East Baton Rouge	94	STAR ENTERPRISE	-6126Z	MW-11	LAYNE (LA)	16	PLUGGED	4	Mar-89	5	04/07/89	112SESC	302515	910817	D W	0.84
East Baton Rouge	94	STAR ENTERPRISE	-6127Z	MW-12	LAYNE (LA)	16	DESTROYED	4	Mar-89	4	04/07/89	112SESC	302515	910817	D W	0.84
East Baton Rouge	94	STAR ENTERPRISE	-6128Z	MW-13	LAYNE (LA)	16	PLUGGED	4	Mar-89	5	04/07/89	112SESC	302514	910818	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6129Z	MW-14	LAYNE (LA)	16	MONITOR	4	Mar-89	5	04/07/89	112SESC	302514	910818	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6130Z	MW-15	LAYNE (LA)	16	PLUGGED	4	Mar-89	4	04/07/89	112SESC	302515	910817	D W	0.84
East Baton Rouge	94	CHEVRON	-6198Z	1	LAYNE (LA)	12	MONITOR	4	May-89	8	05/25/89	112SESC	302512	910830	D W	0.69
East Baton Rouge	94	CHEVRON	-6199Z	2	LAYNE (LA)	12	MONITOR	4	May-89	7	05/25/89	112SESC	302512	910830	D W	0.69
East Baton Rouge	94	CHEVRON	-6200Z	3	LAYNE (LA)	12	PLUGGED	4	May-89	7	05/25/89	112SESC	302512	910830	D W	0.69
East Baton Rouge	94	CHEVRON	-6249Z	MW-4	WARE LIND	10	PLUGGED	4	Aug-89			112SESC	302518	910823	D	0.72
East Baton Rouge	95	CHEVRON	-6266Z	MW-6A	PSI/PTL	11	PLUGGED	4	Aug-89	2	08/10/89	112SESC	302532	910900	D W	0.07
East Baton Rouge	95	CHEVRON	-6267Z	MW-9	PSI/PTL	16	PLUGGED	4	Aug-89	2	08/10/89	112SESC	302532	910900	D W	0.07
East Baton Rouge	94	RACETRAC PETRO	-6302Z	MW-89-1	EUSTIS	20	MONITOR	2	Oct-89	11.5	10/24/89	112SESC	302536	910815	D W	0.78
East Baton Rouge	94	RACETRAC PETRO	-6303Z	MW-89-2	EUSTIS	16	MONITOR	2	Oct-89	11	10/24/89	112SESC	302536	910815	D W	0.78
East Baton Rouge	94	RACETRAC PETRO	-6304Z	MW-89-3	EUSTIS	17	MONITOR	2	Oct-89	6.3	10/23/89	112SESC	302536	910815	D W	0.78
East Baton Rouge	94	CHEVRON	-6399Z	MW-3	UNKNOWN	.	EXCAVATED		.			112MRVAC	302533	910900		0.05
East Baton Rouge	94	CHEVRON	-6400Z	MW-5	UNKNOWN	.	EXCAVATED		.			112MRVAC	302533	910900		0.05
East Baton Rouge	94	CHILIS RESTAURA	-6504Z	MW-1	CUSTOM CORING	35	MONITOR	2	Jun-90	12.5	06/30/90	112SESC	302517	910820	D W	0.77
East Baton Rouge	94	CHILIS RESTAURA	-6505Z	MW-2	CUSTOM CORING	20	MONITOR	2	Jun-90	8.5	06/30/90	112SESC	302517	910820	D W	0.77
East Baton Rouge	94	STAR VIDEO	-6534Z	MW-1	ENCOR	13	PLUGGED	4	Aug-90	7.9	08/24/90	112SESC	302521	910920	D W	0.4
East Baton Rouge	94	STAR VIDEO	-6535Z	MW-2	ENCOR	20	PLUGGED	4	Aug-90	11.1	08/24/90	112SESC	302521	910920	D W	0.4
East Baton Rouge	94	STAR VIDEO	-6536Z	MW-3	ENCOR	15	PLUGGED	4	Aug-90	9.3	08/24/90	112SESC	302521	910920	D W	0.4
East Baton Rouge	94	STAR ENTERPRISE	-6542Z	MW-1	PSI/PTL	14	PLUGGED	4	Oct-90	8.62	10/03/90	112SESC	302538	910812	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6543Z	MW-2	PSI/PTL	14	PLUGGED	4	Oct-90	8.62	10/03/90	112SESC	302538	910812	D W	0.83
East Baton Rouge	94	TEXACO	-6544Z	MW-3	PSI/PTL	14	MONITOR	4	Oct-90	8.62	10/03/90	112SESC	302538	910812	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6545Z	MW-4	PSI/PTL	14	PLUGGED	4	Oct-90	8.62	10/03/90	112SESC	302538	910812	D W	0.83
East Baton Rouge	94	STAR ENTERPRISE	-6546Z	MW-5	PSI/PTL	14	PLUGGED	4	Oct-90	8.62	10/03/90	112SESC	302538	910812	D W	0.83
East Baton Rouge	96	EXXON CO USA	-6632Z	MW-1	CCI	33	MONITOR	4	Dec-90	23	12/10/90	112SESC	302609	910913	D W	0.68
East Baton Rouge	96	EXXON CO USA	-6633Z	MW-2	CCI	35	MONITOR	4	Dec-90	25	12/10/90	112SESC	302609	910913	D W	0.68
East Baton Rouge	96	EXXON CO USA	-6634Z	MW-3	CCI	31	MONITOR	4	Dec-90	22.5	12/10/90	112SESC	302609	910913	D W	0.68

Registered Water Wells

Public Works & Water Resources Division
Water Resources Section

Wells located within 1 mile radius
of Latitude 30°25'35" and Longitude 91°09'02"

Parish	Section	Owner Name	DOTD Well #	Owner Well #	Driller's Name	Well Depth (ft)	Well Use	Casing Size (in)	Drill Date	Water Level (ft)	W.L. Date Measured	Geologic Unit	Latitude	Longitude	Avail Info	Distance in Miles
East Baton Rouge	94	STAR VIDEO	-6729Z	MW-4	CUSTOM CORING	16	PLUGGED	4	Jul-91	12	07/24/91	112SESC	302521	910920	D W	0.4
East Baton Rouge	94	STAR VIDEO	-6730Z	MW-5	CUSTOM CORING	16	PLUGGED	4	Jul-91	12	07/24/91	112SESC	302521	910920	D W	0.4
East Baton Rouge	94	STAR ENTERPRISE	-6876Z	MW-16	FUGRO (GS)	16	PLUGGED	4	Sep-92	6	09/11/92	112SESC	302516	910823	D W	0.74
East Baton Rouge	94	STAR ENTERPRISE	-6877Z	MW-17	FUGRO (GS)	16	PLUGGED	4	Sep-92	6	09/10/92	112SESC	302516	910823	D W	0.74
East Baton Rouge	94	STAR ENTERPRISE	-6878Z	MW-18	FUGRO (GS)	16	PLUGGED	4	Sep-92	6	09/10/92	112SESC	302516	910823	D W	0.74
East Baton Rouge	94	STAR ENTERPRISE	-7007Z	MW-6	PROFESSIONAL	11	PLUGGED	4	Jan-93	2	01/22/93	112SESC	302536	910814	D W	0.79
East Baton Rouge	94	CHEVRON	-7224Z	MW-5	RUST ENVIRON-	13	PLUGGED	4	Nov-93	2.01	12/07/93	112MRVAC	302517	910823	D W	0.73
East Baton Rouge	94	J & S POOL PRO	-7234Z	MW-1	GROUNDWATER/	12	MONITOR	2	Dec-93	3	12/16/93	112MRVAC	302522	910901	D W	0.25
East Baton Rouge	94	RACETRAC PETRO	-7317Z	MW-10	SOIL TESTING	20	MONITOR	2	May-94	12	05/05/94	112SESC	302525	910822	D W	0.69
East Baton Rouge	94	RACETRAC PETRO	-7318Z	MW-11	SOIL TESTING	20	MONITOR	2	May-94	12	05/05/94	112SESC	302525	910822	D W	0.69
East Baton Rouge	94	CHEVRON	-7438Z	MW-9	G & E	12	PLUGGED	4	Aug-94	4.1	08/25/94	112SESC	302533	910902	D W	0.04
East Baton Rouge	94	CHEVRON	-7514Z	MW-7	UNKNOWN	7	PLUGGED	2	.			112SESC	302530	910902		0.1
East Baton Rouge	94	CHEVRON	-7515Z	MW-8	UNKNOWN	7	PLUGGED	2	.			112SESC	302530	910902		0.1
East Baton Rouge	94	STAR ENTERPRISE	-7571Z	MW-4R	FUGRO (GS)	13	PLUGGED	4	Dec-94	2.2	03/14/95	112SESC	302516	910826	D W	0.7
East Baton Rouge	94	STAR ENTERPRISE	-7572Z	MW-7R	FUGRO (GS)	19	PLUGGED	4	Dec-94	0.69	03/14/95	112SESC	302515	910826	D W	0.71
East Baton Rouge	94	STAR ENTERPRISE	-7573Z	MW-8R	FUGRO (GS)	13	PLUGGED	4	Dec-94	8	12/09/94	112SESC	302516	910826	D W	0.7
East Baton Rouge	94	STAR ENTERPRISE	-7574Z	MW-10R	FUGRO (GS)	13	PLUGGED	4	Dec-94	0.81	03/09/95	112SESC	302516	910826	D W	0.7
East Baton Rouge	94	STAR ENTERPRISE	-7575Z	MW-19	FUGRO (GS)	12	PLUGGED	2	Dec-94	6	12/15/94	112SESC	302516	910827	D W	0.68
East Baton Rouge	94	RITE AID INC	-8122Z	MW-1	CRA, INC.	12	PLUGGED	2	Mar-99	3.52	03/12/99	112SESC	302500	910835	D W	0.8
East Baton Rouge	94	RITE AID INC	-8123Z	MW-2	CRA, INC.	12	DESTROYED	2	Mar-99	2.56	03/12/99	112SESC	302500	910835	D W	0.8
East Baton Rouge	94	RITE AID INC	-8124Z	MW-3	CRA, INC.	12	PLUGGED	2	Mar-99	2.17	03/12/99	112SESC	302500	910835	D W	0.8
East Baton Rouge	94	RITE AID INC	-8125Z	MW-4S	CRA, INC.	10	PLUGGED	2	Mar-99	6.03	03/12/99	112SESC	302501	910834	D W	0.8
East Baton Rouge	94	RITE AID INC	-8126Z	MW-4D	CRA, INC.	29	PLUGGED	2	Mar-99	9.15	03/12/99	112SESC	302501	910834	D W	0.8
East Baton Rouge	94	RITE AID INC	-8127Z	MW-5	CRA, INC.	10	PLUGGED	2	Mar-99	5.25	03/12/99	112SESC	302502	910835	D W	0.77
East Baton Rouge	94	RITE AID INC	-8128Z	MW-6	CRA, INC.	10	PLUGGED	2	Mar-99	9.39	03/12/99	112SESC	302502	910835	D W	0.77
East Baton Rouge	94	HENDRICK, NEAL	-8245Z	MW-1	SOIL TESTING	15	PLUGGED	4	Sep-99	6.2	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	HENDRICK, NEAL	-8246Z	MW-2	SOIL TESTING	16	PLUGGED	4	Sep-99	6.1	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	MARABELLAS 66	-8247Z	MW-3	SOIL TESTING	16	PLUGGED	4	Sep-99	6	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	MARABELLAS 66	-8248Z	MW-4	SOIL TESTING	16	PLUGGED	4	Sep-99	8.58	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	MARABELLAS 66	-8249Z	MW-5	SOIL TESTING	16	PLUGGED	4	Sep-99	9.75	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	HENDRICK, NEAL	-8405Z	MW-6	SOIL TESTING	15	PLUGGED	4	Jun-00	DRY	09/17/99	112SESC	302527	910926	D W	0.42
East Baton Rouge	94	EXXON MOBIL	-8521Z	MW-1	CRA, INC.	14	PLUGGED	2	01-May	3.63	05/14/01	112SESC	302516	910909	D W	0.38
East Baton Rouge	94	EXXON MOBIL	-8522Z	MW-2	CRA, INC.	18	PLUGGED	2	01-May	2.52	05/14/01	112SESC	302516	910909	D W	0.38
East Baton Rouge	94	EXXON MOBIL	-8523Z	MW-3	CRA, INC.	12	PLUGGED	2	01-May	4.39	05/14/01	112SESC	302516	910909	D W	0.38
East Baton Rouge	94	EXXON MOBIL	-8524Z	MW-4	CRA, INC.	14	PLUGGED	2	01-May	5	05/14/01	112SESC	302516	910909	D W	0.38
East Baton Rouge	94	EXXON MOBIL	-8525Z	MW-5	CRA, INC.	12	PLUGGED	2	01-May	6.98	05/14/01	112SESC	302516	910909	D W	0.38

Registered Water Wells

Public Works & Water Resources Division
Water Resources Section

Wells located within 1 mile radius
of Latitude 30°25'35" and Longitude 91°09'02"

Parish	Section	Owner Name	DOTD Well #	Owner Well #	Driller's Name	Well Depth (ft)	Well Use	Casing Size (in)	Drill Date	Water Level (ft)	W.L. Date Measured	Geologic Unit	Latitude	Longitude	Avail Info	Distance in Miles
East Baton Rouge	94	HENDRICK, NEAL	-8648Z	MW-5R	EXPLORATION	19	PLUGGED	2	02-Aug	4	08/16/02	112SESC	302525	910923	D W	0.4
East Baton Rouge	94	EXXON MOBIL	-8653Z	MW-1	CRA, INC.	14	PLUGGED	2	02-Sep	7.95	09/13/02	112MRVAC	302500	910835	D W	0.8
East Baton Rouge	94	EXXON MOBIL	-8654Z	MW-2	CRA, INC.	14	PLUGGED	2	02-Sep	4.87	09/13/02	112MRVAC	302500	910835	D W	0.8
East Baton Rouge	82	BATON ROUGE, LA	-8748Z	PH1-08	PROFESSIONAL	48	MONITOR	2	03-Sep	8.02	09/12/03	0	302519	910824	D W	0.7
East Baton Rouge	94	CHEVRON PRODUCT	-8777Z	MW-1	CRA, INC.	14	PLUGGED	2	03-Nov	3.74	12/09/03	0	302517	910823	D W	0.73
East Baton Rouge	94	CHEVRON PRODUCT	-8778Z	MW-2	CRA, INC.	14	PLUGGED	2	03-Nov	3.7	12/09/03	0	302517	910824	D W	0.72
East Baton Rouge	94	CHEVRON PRODUCT	-8779Z	MW-3	CRA, INC.	14	PLUGGED	2	03-Nov	2.11	12/09/03	0	302518	910824	D W	0.71
East Baton Rouge	94	CHEVRON PRODUCT	-8780Z	MW-4	CRA, INC.	14	PLUGGED	2	03-Nov	3.34	12/09/03	0	302518	910823	D W	0.72
East Baton Rouge	95	BR PUBLIC WORKS	-8885Z	T03-109	CAPOZZOLI	59	PIEZOMETER	2	05-Jan	18	02/22/05	0	302547	910846	D W	0.35
East Baton Rouge	94	BR PUBLIC WORKS	-8886Z	T03-120	CAPOZZOLI	56	PIEZOMETER	2	05-Jan	12	02/17/05	0	302527	910847	D W	0.29
East Baton Rouge	94	BR PUBLIC WORKS	-8887Z	T03-121	CAPOZZOLI	56	PIEZOMETER	2	05-Jan	14	02/21/05	0	302524	910848	D W	0.31
East Baton Rouge	94	BR PUBLIC WORKS	-8901Z	T03-23	PROFESSIONAL	46	PIEZOMETER	2	05-Jan	2.78	02/17/05	0	302520	910835	D W	0.53
East Baton Rouge	95	BR PUBLIC WORKS	-8904Z	T03-103	CAPOZZOLI	51	PIEZOMETER	2	05-Feb	8	02/22/05	0	302610	910848	D W	0.71
East Baton Rouge	95	BR PUBLIC WORKS	-8905Z	T03-107	CAPOZZOLI	58	PIEZOMETER	2	05-Jan	19	02/22/05	0	302555	910846	D W	0.46
East Baton Rouge	94	BR PUBLIC WORKS	-8906Z	T03-117	CAPOZZOLI	42	PIEZOMETER	2	05-Feb	13	02/21/05	0	302538	910840	D W	0.37
East Baton Rouge	67	BR PUBLIC WORKS	-8923Z	T03-38	CAPOZZOLI	20	PIEZOMETER	2	05-Mar	7	03/18/05	0	302542	910958	D W	0.93
East Baton Rouge	96	BR PUBLIC WORKS	-8937Z	T03-112	CAPOZZOLI	31	PIEZOMETER	2	05-Mar	13	03/17/05	0	302544	910913	D W	0.25
East Baton Rouge	94	BR PUBLIC WORKS	-8938Z	T03-114	CAPOZZOLI	27	PIEZOMETER	2	05-Mar	9	03/18/05	0	302537	910905	D W	0.06
East Baton Rouge	67	BR PUBLIC WORKS	-8942Z	T03-48	PROFESSIONAL	41	PIEZOMETER	2	05-Feb	15.3	03/31/05	0	302531	910949	D W	0.78
East Baton Rouge	67	BR PUBLIC WORKS	-8943Z	T03-49	PROFESSIONAL	36	PIEZOMETER	2	05-Feb	7.3	03/31/05	0	302530	910943	D W	0.68
East Baton Rouge	67	BR PUBLIC WORKS	-8944Z	T03-51	PROFESSIONAL	41	PIEZOMETER	2	05-Feb	38.25	03/25/05	0	302530	910935	D W	0.55
East Baton Rouge	67	BR PUBLIC WORKS	-8945Z	T03-52	PROFESSIONAL	24	PIEZOMETER	2	05-Jan	2.59	02/17/05	0	302503	910948	D W	0.98
East Baton Rouge	44	BR PUBLIC WORKS	-8946Z	T03-59	PROFESSIONAL	42	PIEZOMETER	2	05-Feb	35.7	03/31/05	0	302529	910929	D W	0.46
East Baton Rouge	94	BR PUBLIC WORKS	-8970Z	T03-30	PROFESSIONAL	31	PIEZOMETER	2	05-Feb	7.7	04/07/05	0	302514	910852	D W	0.43
East Baton Rouge	67	BR PUBLIC WORKS	-8971Z	T03-45	PROFESSIONAL	49	PIEZOMETER	2	05-Feb	19.2	04/07/05	0	302533	910956	D W	0.89
East Baton Rouge	67	BR PUBLIC WORKS	-8972Z	T03-55	PROFESSIONAL	25	PIEZOMETER	2	05-Mar	11.6	04/08/05	0	302512	910946	D W	0.85
East Baton Rouge	67	BR PUBLIC WORKS	-8973Z	T03-56	PROFESSIONAL	26	PIEZOMETER	2	05-Mar	7.8	04/08/05	0	302518	910945	D W	0.78
East Baton Rouge	94	BR PUBLIC WORKS	-8974Z	T03-67	PROFESSIONAL	43	PIEZOMETER	2	05-Feb	3.99	04/08/05	0	302510	910856	D W	0.49
East Baton Rouge	94	BR PUBLIC WORKS	-8985Z	T03-26	PROFESSIONAL	46	PIEZOMETER	2	05-Mar	6.2	06/23/05	0	302520	910847	D W	0.38
East Baton Rouge	94	BR PUBLIC WORKS	-8987Z	T03-31	PROFESSIONAL	47	PIEZOMETER	2	05-Mar	4	06/23/05	0	302512	910852	D W	0.47
East Baton Rouge	94	BR PUBLIC WORKS	-8988Z	T03-65	PROFESSIONAL	53	PIEZOMETER	2	05-Mar	8.3	06/23/05	0	302512	910900	D W	0.44

CONESTOGA-ROVERS & ASSOCIATES

4915 S. Sherwood Forest Blvd.
Baton Rouge, Louisiana 70816
Telephone: (225) 292-9007 Fax: (225) 292-3614
www.CRAworld.com

TRANSMITTAL

DATE: 04/11/06

REFERENCE NO.: 28509

PROJECT NAME: Unauthorized Discharge Notification Reports

TO: Louisiana Department of Environmental Quality
P.O. Box 4312
Baton Rouge, LA 70821-4312
Attention: Surveillance Division - SPOC

RECEIVED
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DEQ
Single Point of Contact

Please find enclosed:
- ☐ Draft
- ☒ Originals
- ☐ Prints
- ☐ Final
- ☐ Other

Sent via:
- ☒ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☐ Other

QUANTITY	DESCRIPTION
1	Shell Retail Store No. 101205, 2205 Sherwood Forest Boulevard, Baton Rouge, LA
1	Shell Retail Store No. 101207, 5055 Jones Creek Road, Baton Rouge, LA
1	Shell Retail Store No. 101208, 5035 Government Street, Baton Rouge, LA
1	Shell Retail Store No. 101218, 2959 College Drive, Baton Rouge, LA
1	Shell Retail Store No. 101220, 1330 Plank Road, Baton Rouge, LA
1	Shell Retail Store No. 101221, 3375 Perkins Road, Baton Rouge, LA
1	Shell Retail Store No. 101237, 5377 Highland Road, Baton Rouge, LA
1	Shell Retail Store No. 101239, 500 North Highway 190, Covington, LA
1	Shell Retail Store No. 101247, 102 Rushing Road West, Denham Springs, LA
1	Shell Retail Store No. 101249, 3536 Drusilla Lane, Baton Rouge, LA
1	Shell Retail Store No. 101812, 28005 Walker Road South, Walker, LA
1	Shell Retail Store No. 142059, 2300 South Acadian Thruway, Baton Rouge, LA
1	Shell Retail Store No. 142066, 4851 O'Neal Lane, Baton Rouge, LA
1	Shell Retail Store No. 142067, 14940 Airline Highway, Baton Rouge, LA
1	Shell Retail Store No. 165631, 9320 Burbank Drive, Baton Rouge, LA
1	Shell Retail Store No. 165792, 6678 Siegen Lane, Baton Rouge, LA
1	Shell Retail Store No. 166272, 31799 LA Highway 16, Denham Springs, LA
1	Shell Retail Store No. 166535, 8133 Plank Road, Baton Rouge, LA

- ☐ As Requested
- ☒ For Your Use
- ☐ For Review and Comment
- ☐

EQUAL EMPLOYMENT OPPORTUNITY EMPLOYER

REGISTERED COMPANY FOR ISO 9001 ENGINEERING DESIGN

CONESTOGA-ROVERS
& ASSOCIATES

4915 S. Sherwood Forest Blvd.
Baton Rouge, Louisiana 70816
Telephone: (225) 292-9007 Fax: (225) 292-3614
www.CRAworld.com

COMMENTS:

If you have any questions, please call Tim Powers at (225) 292-9007.

Copy to: Thomas B. Powers

Completed by: Andre Bankston [Please Print] Signed: Andre Bankston

Filing: **Correspondence File**

RECEIVED
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Single Point of Contact

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CONESTOGA-ROVERS & ASSOCIATES
4915 S. Sherwood Forest Blvd.
Baton Rouge, LA 70816
Telephone: 225.292.9007

LDEQ
SURVEILLANCE DIVISION - SPOC
PO BOX 4312
BATON ROUGE LA 70821-4312

UNDERGROUND STORAGE TANKS DIVISION
REMEDIATION PROCESS
UST RELEASE NOTIFICATION FORM

INCIDENT NUMBER: 86368

NOTIFICATION INFORMATION

RECEIVED BY: Chris Delmar
DATE: 03/10/2006 **TIME:** 08:11
DATE DISCOVERED: 03/10/2006
DATE CONFIRMED: 03/10/2006

REPORTED BY: Andre Bankston
Conestoga Rovers
ADDRESS: 4815 Sherwood Forest Blvd
Baton Rouge, La 70816

TELEPHONE: 225-292-9007

X **GASOLINE**
☐ **DIESEL**
☐ **USED OIL**
☐ **NEW OIL**
☐ **HAZARDOUS SUBSTANCE**
☐ **OTHER:**

☐ **PIPING LEAK**
☐ **UST LEAK**
☐ **DISPENSER LEAK**
☐ **SPILL** ☐ **OVERFILL**
X **UNKNOWN**
☐ **OTHER:**

FACILITY INFORMATION

UST FACILITY ID # 17-008376
AI # 71560
AOI NAME: Shell # 142059
AOI ADDRESS: 2300 South Acadian Thruway
Baton Rouge, La

PARISH: East Baton Rouge
CONTACT PERSON: Myra Lowery
TELEPHONE: (985) 649-4524

AI OWNER NAME: Shell Oil Products US

ADDRESS: 4646 Hwy 6 South, #348
Sugarland, TX 77478-5214

CONTACT PERSON: Joyce M. Davis
TELEPHONE: (281) 416-8714

RELEASE STATUS

☐ **Assessment Required – Date (if known):**
☐ **Pending Further Information - Comments:**

How was the release detected?
☐ **Release Detection Monitoring (Specify method)**

☐ **Closure Assessment** ☐ **Compliance Inspection**
☐ **Real Estate Assessment**
X **Other (specify) Site Assessment**

☐ **Remediation Complete**
Date:
Method:

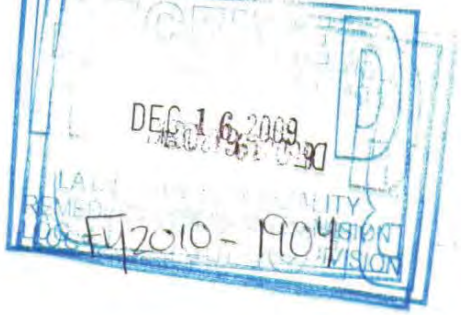
Trust Fund Eligible ☐ **Yes** ☐ **No** ☐ **Unknown**

Evidence of off-site migration? ☐ **No**
☐ **Yes (specify)**

INCIDENT DESCRIPTION

TPH-G and BTEX were above RECAP SS in soils
TPH-G, Benzene, Ethylbenzene and MTBE were above RECAP SS in soils

URS



December 15, 2009

Mr. Tim B. Knight, Administrator
Louisiana Department of Environmental Quality
Underground Storage Tanks Division – Remediation Process
Post Office Box 4314
Baton Rouge, Louisiana 70821-4314

Re: Limited Groundwater Investigation Report
Motiva Enterprises, LLC
Former Shell Retail Outlet at 2300 South Acadian Thruway
Baton Rouge, LA 70808
Circle K #2709730; Former Shell No. 142059
Agency Interest #71560
UST-FID No. 17-008376; Incident No. 86368
URS Project No. 49206684.00001

Dear Mr. Knight:

URS is pleased to present this report for the additional groundwater investigation conducted November 9-13, 2009 at the former Shell retail station located at 2300 South Acadian Thruway, Baton Rouge, Louisiana (see Figure 1) for Shell Oil Products US (Shell) on behalf of Motiva Enterprises, LLC. The site is a former Shell gasoline retail facility now operated by Circle K Stores, Inc.

BACKGROUND

On February 22, 2006, Conestoga-Rovers & Associates (CRA) completed a divestment initial subsurface investigation (DISI), on behalf of Motiva, at the current Circle K #2709730 and former Shell Retail Store No. 142059 located at 2300 South Acadian Thruway in Baton Rouge, Louisiana. During the investigation, five soil exploration borings (SB-1 through SB-5) were installed. Analytical results from this investigation indicated elevated benzene levels at SB-4 in the soil and shallow groundwater, which was located northwest of the underground storage tank (UST) hold. On October 26, 2006, Response Action Contractor (RAC) work at the site was transitioned from CRA to URS Corporation (URS) by Shell, on behalf of Motiva. On May 8, 2008, the LDEQ informed Shell that a limited groundwater investigation in the immediate vicinity of SB-4 be performed based on the MO-2 groundwater standard calculated by the LDEQ. On September 30, 2008 URS submitted a remedial investigation work plan to the LDEQ on behalf of Shell. This work plan was approved by the LDEQ on December 22, 2008. URS performed the site work on January 28, 2009 and submitted the report to the LDEQ on March 11,

URS Corporation
7389 Florida Boulevard, Suite 300
Baton Rouge, LA 70806
Tel: 225.922.5700
Fax: 225.922.5701

2009. The LDEQ reviewed the report and requested in correspondence dated May 29, 2009 that additional investigation of the groundwater at the site be conducted to ascertain the concentration of benzene currently present in the shallow groundwater by installing a permanent monitor well and also installing a recovery well for future use. The LDEQ also requested that a slug test be conducted to determine a site-specific yield to assist in the risk assessment process at the site through the LDEQ's RECAP program. The additional groundwater investigation work plan was submitted by URS, on behalf of Motiva, on July 17, 2009. The LDEQ approved this work plan on September 28, 2009. This report provides the results of the investigation conducted in November 2009.

FIELD ACTIVITIES

The field activities began on November 9, 2009. On November 10-11, 2009, one permanent monitoring well, MW-1, and one permanent recovery well, RW-1, were completed to approximately 27 feet below ground surface (bgs) to determine the current level of impact near the property boundary in the shallow groundwater in the vicinity of boring SB-4, and to provide a remediation option in the future as directed by the LDEQ. The well locations are shown on Figure 2. Organic Vapor Analyzer (OVA) readings were taken at two-foot intervals during sampling. Soil samples were not collected for laboratory analysis. Groundwater samples of the uppermost water-bearing zone were collected from the well locations and analyzed for benzene by Method 8260B.

The borings for the wells were completed by direct-push methods with an all-terrain vehicle (ATV) Geoprobe rig by Walker-Hill, a licensed water well contractor in the state of Louisiana, at the location of RW-1. The shallow soil borings were completed to a depth at which the uppermost permeable or water-bearing zone was encountered. A thin-walled soil sampling tube was used at 4-foot intervals until completion depth or probe refusal. The soil cores were recovered in 2-inch diameter plastic liners and cut open in the field and logged by a URS geologist. The boring logs for both MW-1 and RW-1 provide a description of the subsurface soil including lithology, soil color, length of recovered sample, soil consistency, and soil classification in accordance with the Unified Soil Classification System (equivalent to ASTM D 2487 and 2488). Soil classifications were prepared in the field at the time of sampling and are subject to change based upon subsequent review. The original boring log was recorded directly in the field, and the typed copy prepared for the report was checked to verify that the final log accurately reproduced the contemporaneous log. The borings logs for MW-1 and RW-1 are presented in Attachment 1. The boring logs for

the February 2006 investigation for borings SB-1 through SB-5 are also presented in Attachment 1.

All drilling, well installation, purging, sampling, grouting and disposal of investigation derived waste (IDW) was performed in accordance with the *Field Branches Quality System Technical Procedures* (US EPA Region IV, November 2007). Drilling was performed in accordance with the latest version of the LDOTD and LDEQ *Construction of Geotechnical Boreholes and Groundwater Monitoring Systems Handbook, December 2000.*

Permanent Monitor Well and Recovery Well Installation

The wells MW-1 and RW-1 were installed by use of a hollow-stem auger to a depth of 27 feet (bgs) following the appropriate LDOTD and LDEQ methods for installation. The wells were installed in the first encountered permeable zone.

Monitoring well MW-1 was constructed of 2-inch diameter Schedule 40 PVC with a 10-foot pre-packed screen length placed at a depth of approximately 17 to 27 feet below ground surface with a #10 slot screen (0.010 inches) followed by blank casing with a lockable cap and a flush mount completion at ground surface. The casing was set inside the hollow stem rods which were retracted as the well was set. The well was completed with a three-foot bentonite plug placed in the well annulus followed by a bentonite grout mixture to the surface to prevent surface infiltration.

Recovery well RW-1 was installed near SB-4 for potential use during future investigation or remedial activities at the site. The well was installed as a 4-inch diameter schedule 40 PVC with a 10-foot standard #10 slot screen. 20/40 Silica sand was used as filter media and a standard Bentonite seal and surface grout was also installed per current LDOTD and LDEQ guidance. This well was also installed as a flush mount. A 2' x 2' vault was installed to allow room for future installation of a recovery system. Due to the close proximity of RW-1 to MW-1 the lithology was similar and MW-1 was installed the same as RW-1 but with a flush mount lid for a 2-inch well. Well construction diagrams for MW-1 and RW-1 are included in Attachment 2. The wells were surveyed on November 13, 2009. Surveyed elevations and well construction details are summarized in Table 1. The wells will be registered with LDOTD for inclusion in the state-wide registered water well database.

Sample Collection Procedure

After the wells were installed, each well was purged and sampled. Purging was accomplished using a monsoon pump until the following criteria were met:

- The well water was clear (or clear as possible under the limits of possible suspended colloids).
- Three well volumes of standing water (minimum) were removed.
- Field measurements for temperature, conductivity and pH had stabilized

Temperature, conductivity and pH observations were recorded for each well volume on a Groundwater Collection Report Form. These forms are provided in Attachment 3.

The groundwater samples were analyzed in accordance with *Test Methods for Evaluating Solid Waste, Physical/Chemical Methods* (SW-846, 3rd Edition and subsequent updates) for benzene by Method 8260B.

Slug Test and Data Evaluation

The slug test was performed in monitor well MW-1 on November 12, 2009. The slug was placed in MW-1 to a depth of approximately 19 to 21 feet bgs in the well which was within the screened interval. The well screen was placed across a permeable zone of silty sand approximately 7 feet in thickness. The silty sand is overlain by approximately 20 feet of silty clay. The slug was 2.9 feet long, approximately 1.2 inches in diameter and occupied a volume of approximately 0.022 cubic feet (or approximately 0.164 gallons). Data recorded in displacement in feet over time were collected when the slug was placed in the well, *slug in*, and then when the slug was removed, *slug out*. It was determined that the *slug out* data provided the best determination of the hydraulic conductivity for the permeable zone based on the linearity of the slug test results. Based on the lithology and assuming unconfined conditions, the standing water column in the MW-1 was 20.9 feet and thus used as the saturated thickness for the purpose of the slug test data evaluation. The slug test data were evaluated by AQTESOLV® software. The print out of the *slug out* test data is provided in Attachment 4.

The hydraulic conductivity was determined to be 7.132×10^{-5} ft/minute or 3.523×10^{-5} cm/sec by the Bouwer-Rice Method. The estimated yield of the permeable zone was calculated using the

formula for an unconfined aquifer provided in Appendix F of the LDEQ 2003 RECAP document. The calculation indicated a yield of approximately 115 gallons per day. This calculation is provided on a spreadsheet in Attachment 4.

Because the yield is less than 800 gallons per day, the first permeable zone at the former Shell retail station is a Class 3A groundwater regardless of TDS content. Furthermore, because the nearest reported downgradient surface water body is Dawson Creek which is approximately 110 to 120 feet to the west of the site (see Figure 2) and the creek is not listed in LAC 33 IX., Section 1123 as a drinking water source, the proper classification for the creek with respect to the tables in Appendix I of the LDEQ 2003 RECAP document is GW3NDW.

Decontamination of Equipment and Handling of IDW

All IDW (purge water, decontamination wash water, excess borehole materials, and PPE) was collected into suitable containers, transferred to a designated temporary storage area on site and labeled. URS will arrange for proper transportation and disposal of these materials in accordance with the applicable Shell policies and procedures and local regulations.

Data Quality Assurance/Quality Control and Evaluation

Based on the Quality Assurance/Quality Control (QA/QC) evaluation, the data are suitable for use in LDEQ's Risk Evaluation Corrective Action Program (RECAP). QA/QC samples were collected and analyzed to assess the potential for contamination of samples due to field activities and/or handling and transport to evaluate the precision and accuracy of the analytical data from the off-site laboratory. The QA/QC sample program included trip blanks to evaluate potential cross-contamination of samples during shipment. One trip blank was included in the sample ice chest containing the groundwater samples for analysis for benzene for sample shipment.

Sample Shipment and Reporting

Samples were shipped to SPL Laboratories in Lafayette, Louisiana for analysis. The analytical laboratory report is presented in Attachment 5.

ANALYTICAL RESULTS

Soil analytical results from the February 2006 field investigation are presented in Table 2 for an industrial setting and are presented in Table 3 for a non-industrial setting. Groundwater analytical

results from the February 2006, January 2009 and November 2009 field investigations are shown in Table 4.

Discussion of Groundwater Analytical Results

The analytical results for benzene concentrations in the groundwater samples collected at the site indicate that exceedances of the RECAP Screening Standard of 0.005 mg/l for benzene were reported at SB-3 and SB-4 in February 2006, SB-4A in January 2009 and RW-1 with a maximum concentration observed at SB-4A of 5.8 mg/l (see Figure 3). The concentration of benzene in RW-1 to the west of Boring SB-4A was reported at 1.2 mg/l which is also above the RECAP SS. The concentration of benzene in MW-1 to the south of Boring SB-4A and west of the tank hold was reported at 0.0037 mg/l which is below the RECAP Screening Standard. The observed concentrations of benzene suggest that the exceedances of the RECAP SS for benzene are localized in the northwest portion of the station property.

Motiva awaits the review by the LDEQ of the analytical results presented above and the site-specific slug test data to determine the groundwater classification for direction toward site closure.

If you have any questions or comments, please contact us at (225) 922-5700.

Very truly yours,

William R. Hurdle, CHMM
Senior Environmental Scientist

M. Jason Lanclos, P.E.
Project Engineer

cc: Mr. Alan Karr, LDEQ
Mr. Scott Burkey, Shell

URS

TABLES

TABLE 1

MONITOR WELL CONSTRUCTION DETAILS
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

Monitor Well ID	Installation Date	Well Construction Material	Casing Slot Size	Total Depth (ft bgs)[1]	Top of Casing Elevation (ft MSL)[2]	Ground Surface Elevation (ft MSL)	Screen Interval (ft bgs)
MW-1	11/11/2009	2" PVC	0.010"	27.0	28.28	28.68	17.0-27.0
RW-1	11/10/2009	4" PVC	0.010"	27.0	28.35	28.64	17.0-27.0

NOTES:

1 ft bgs = feet below ground surface.

2 ft MSL = Mean Sea Level, NAVD 88.

TABLE 2 -Industrial

SUMMARY OF TPH-GRO, BTEX, MTBE and FUEL OXYGENATES ANALYTICAL RESULTS - SURFACE SOIL
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

Boring Location	Sample Date	Sample ID	Sample Depth (ft)	TPH by Method 8015B (mg/kg)[1]	BTEX, MTBE, Fuel Oxygenates by Method 8260B (mg/kg)[2]								
				GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
RECAP Screening Standard (Soil_SSi) (mg/kg)				**65**	**3.1**	**470**	**230**	**120**	**4700**	**100**	**4700**	**140**	**12000**
RECAP Screening Standard (Soil_SSGW) (mg/kg)				**65**	**0.051**	**20**	**19**	**150**	**0.077**	**2.7**	**0.077**	**4.8**	**9.0**
RECAP Screening Standard (Soil_Sat) (mg/kg)				**--**	**900**	**520**	**230**	**150**	**9800**	**4600**	**9800**	**1900**	**140000**
RECAP SCREENING STANDARD*				**65**	**0.051**	**20**	**19**	**120**	**0.077**	**2.7**	**0.077**	**4.8**	**9.0**
SB-1	2/22/2006	SB-1 (12-15)	12-15	<9.19	<0.00196	<0.00196	<0.00196	<0.00489	<0.002	0.002	<0.005	<0.002	<0.049
SB-2	2/22/2006	SB-2 (12-15)	12-15	<10.8	<0.00197	<0.00197	<0.00197	<0.00493	<0.002	<0.002	<0.005	<0.002	<0.049
SB-3	2/22/2006	SB-3 (6-9)	6-9	**728**	**0.0575**	0.0634	1.67	0.200	0.003	0.013	<0.005	0.002	<0.047
SB-4	2/22/2006	SB-4 (12-15)	12-15	**88.6**	**0.468**	0.0972	0.667	0.531	0.069	0.235	<0.005	0.002	**10.4**
SB-5	2/22/2006	SB-5 (12-15)	12-15	<9.58	<0.00196	<0.00196	<0.00196	<0.00489	0.002	0.094	<0.005	<0.002	0.362

NOTES:

* RECAP Screening Standard for soil is the minimum of the SOIL_SSi, SOIL_SSGW and SOILsat which are listed in the 2003 LDEQ RECAP Table 1 or Table 2 or obtained from LDEQ

[1] TPH by Method 8015B Modified for Gasoline Range Organics (GRO). Reported in mg/kg.

[2] BTEX, MTBE and Fuel Oxygenates by Method 8260B for Volatile Organic Analytes. Reported in mg/kg.

DIPE = Diisopropyl ether, standards obtained from LDEQ

ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether, standards obtained from LDEQ

TBA = tert-Butyl alcohol, standards obtained from LDEQ

BOLD Print indicates exceedance of the respective Screening Standard

TABLE 3 - Non-Industrial

SUMMARY OF TPH-GRO, BTEX, MTBE and FUEL OXYGENATES ANALYTICAL RESULTS - SURFACE SOIL
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

Boring Location	Sample Date	Sample ID	Sample Depth (ft)	TPH by Method 8015B (mg/kg)[1]	BTEX, MTBE, Fuel Oxygenates by Method 8260B (mg/kg)[2]								
				GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
RECAP Screening Standard (Soil_SSni) (mg/kg)				**65**	**1.5**	**68**	**160**	**18**	**650**	**15**	**650**	**21**	**1400**
RECAP Screening Standard (Soil_SSGW) (mg/kg)				**65**	**0.051**	**20**	**19**	**150**	**0.077**	**2.7**	**0.077**	**4.8**	**9.0**
RECAP Screening Standard (Soil_Sat) (mg/kg)				--	**900**	**520**	**230**	**150**	**9800**	**4600**	**9800**	**1900**	**140000**
RECAP SCREENING STANDARD*				**65**	**0.051**	**20**	**19**	**18**	**0.077**	**2.7**	**0.077**	**4.8**	**9.0**
SB-1	2/22/2006	SB-1 (12-15)	12-15	<9.19	<0.00196	<0.00196	<0.00196	<0.00489	<0.002	0.002	<0.005	<0.002	<0.049
SB-2	2/22/2006	SB-2 (12-15)	12-15	<10.8	<0.00197	<0.00197	<0.00197	<0.00493	<0.002	<0.002	<0.005	0.002	<0.049
SB-3	2/22/2006	SB-3 (6-9)	6-9	**728**	**0.0575**	0.0634	1.67	0.200	0.003	0.013	<0.005	<0.002	<0.047
SB-4	2/22/2006	SB-4 (12-15)	12-15	**88.6**	**0.468**	0.0972	0.667	0.531	0.069	0.235	<0.005	0.002	**10.4**
SB-5	2/22/2006	SB-5 (12-15)	12-15	<9.58	<0.00196	<0.00196	<0.00196	<0.00489	0.002	0.094	<0.005	<0.002	0.362

NOTES:

* RECAP Screening Standard for soil is the minimum of the SOIL_SSi, SOIL_SSGW and SOILsat which are listed in the 2003 LDEQ RECAP Table 1 or Table 2 or obtained from LDEQ

[1] TPH by Method 8015B Modified for Gasoline Range Organics (GRO). Reported in mg/kg.

[2] BTEX, MTBE and Fuel Oxygenates by Method 8260B for Volatile Organic Analytes. Reported in mg/kg.

DIPE = Diisopropyl ether, standards obtained from LDEQ

ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether, standards obtained from LDEQ

TBA = tert-Butyl alcohol, standards obtained from LDEQ

BOLD Print indicates exceedance of the respective Screening Standard

TABLE 4

SUMMARY OF TPH-GRO, BTEX, MTBE and FUEL OXYGENATES ANALYTICAL RESULTS - GROUNDWATER
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

Boring Location	Sample Date	Sample ID	Screened Interval (ft-bgs)	TPH by Method 8015B (mg/l)[1]	BTEX, MTBE, Fuel Oxygenates by Method 8260B (mg/l)[2]								
				GRO	Benzene	Toluene	Ethyl-benzene	Total Xylenes	MTBE	DIPE	ETBE	TAME	TBA
RECAP SCREENING STANDARD*				**0.15**	**0.005**	**1.0**	**0.7**	**10**	**0.02**	**0.069**	**0.02**	**0.079**	**0.33**
SB-1	2/22/2006	SB-1	13-18	<0.1	<0.001	<0.001	<0.001	<0.003	0.00979	0.011	<0.001	<0.001	<0.01
SB-2	2/22/2006	SB-2	12-17	<0.1	<0.001	<0.001	<0.001	<0.003	0.00272	0.0216	<0.001	<0.001	<0.01
SB-3	2/22/2006	SB-3	12-17	**81.7**	**0.0400**	0.0124	0.0744	0.0214	0.0132	**0.0766**	<0.001	0.00286	0.0787
SB-4	2/22/2006	SB-4	12-17	**87.3**	**1.46**	0.246	**2.43**	3.13	**1.12**	**1.34**	**0.153**	**0.220**	**41.0**
SB-4A	1/28/2009	SB-04A	19-24	**11**	**5.8**	0.12	**1.4**	0.125	NA	NA	NA	NA	NA
SB-5	2/22/2006	SB-5	12-17	**0.250**	<0.001	<0.001	<0.001	<0.003	<0.001	0.00890	<0.001	<0.001	**0.943**
MW-1	11/12/2009	MW-1	17-27	NA	0.0037	NA	NA	NA	NA	NA	NA	NA	NA
RW-1	11/12/2009	RW-1	17-27	NA	**1.2**	NA	NA	NA	NA	NA	NA	NA	NA

NOTES:

* RECAP Screening Standard for groundwater is the GW_SS which are listed in the 2003 LDEQ RECAP Table 1 or obatined from LDEQ.

[1] TPH by Method 8015B Modified for Gasoline Range Organics (GRO). Reported in mg/l.

[2] BTEX, MTBE and Fuel Oxygenates by Method 8260B for Volatile Organic Analytes. Reported in mg/l.

DIPE = Diisopropyl ether, standards obtained from LDEQ

ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound

MTBE = Methyl tert-butyl ether

TAME = tert-Amyl methyl ether, standards obtained from LDEQ

TBA = tert-Butyl alcohol, standards obtained from LDEQ

NA = Not Analyzed

BOLD Print indicates exceedance of the respective Screening Standard

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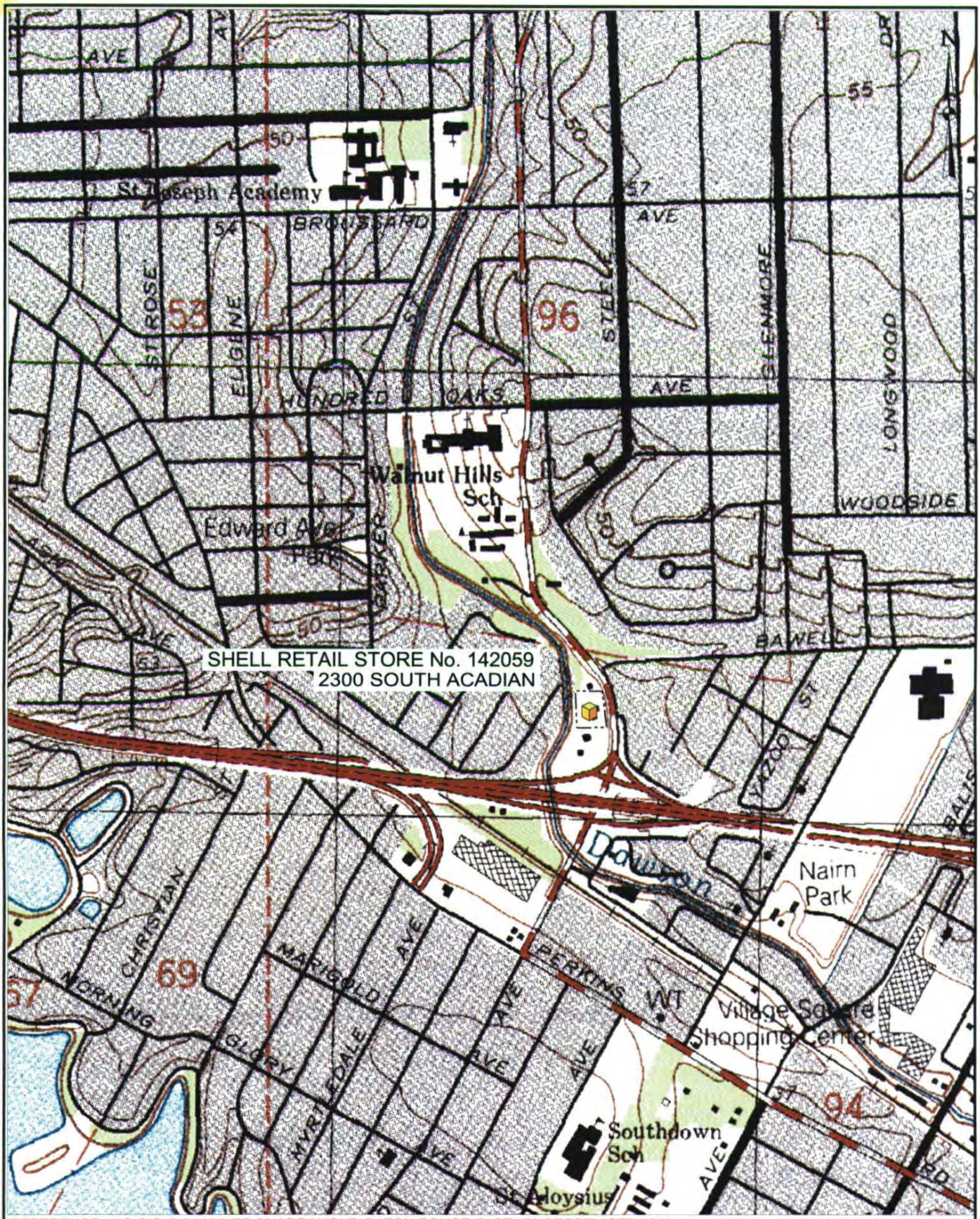
FIGURES



REFERENCE: U.S.G.S. 7.5 MINUTE QUADRANGLE, BATON ROUGE EAST. PHOTOREVISED 1992.

Shell Oil Products

URS
7389 Florida Blvd., Suite 300
Baton Rouge, Louisiana 70806
225/922-5700

SCALE:	DRAWN BY: WPS	DATE: 08/12/08
1"=1000'	CHKD. BY: WRH	DATE: 08/12/08

FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

SITE LOCATION MAP

FILE NO. 49206684

FIG. NO. 1

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REFERENCE: CRA DRAWING No. 28509-13(032)GN-BR001.

REV	DESCRIPTION OF REVISION	BY	DATE
△			
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Shell Oil Products

URS
7389 Florida Blvd., Suite 300
Baton Rouge, Louisiana 70806
225/922-5700

REFERENCE DRAWINGS

SCALE 1"=30'
DESIGNED
DRAWN WPS
CHECKED WRH
PEER REVIEWED
DATE 11/30/09

FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

SITE LAYOUT AND
PROPOSED WELL LOCATIONS

REVISION △
PROJECT 492066684
FIGURE 2

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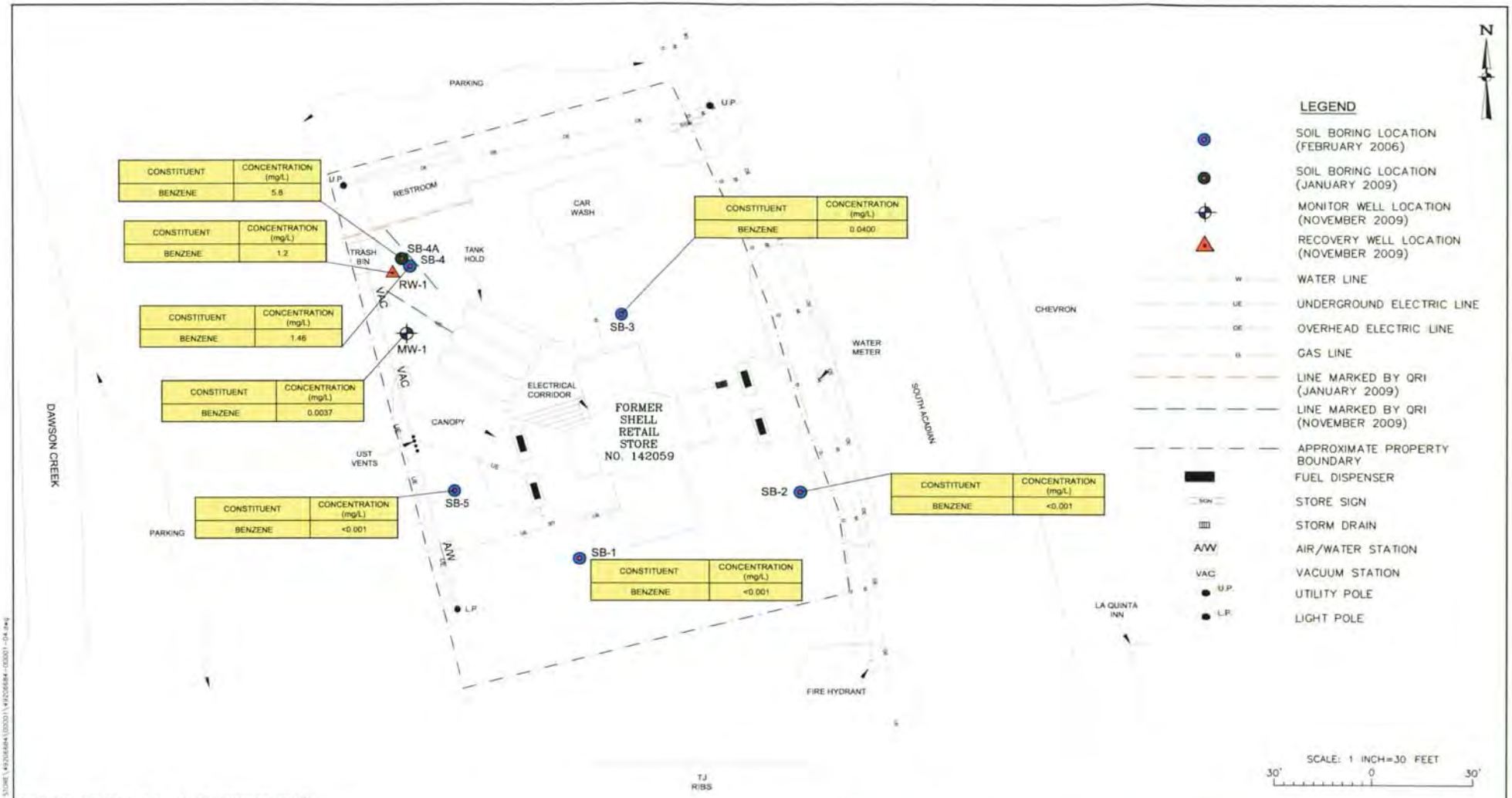

REFERENCE: CRA DRAWING No. 28509-13(032)GN-BR001.

REV	DESCRIPTION OF REVISION	BY	DATE
1			
2			
3			
4			
5			
6			

Shell Oil Products

URS
7389 Florida Blvd., Suite 300
Baton Rouge, Louisiana 70806
225/922-5700

REFERENCE DRAWINGS

SCALE: 1"=30'
DESIGNED:
DRAWN: WPS
CHECKED: WRH
PEER REVIEWED:
DATE: 12/01/09

FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

CONCENTRATIONS OF BENZENE IN SHALLOW GROUNDWATER

REVISION: 1
PROJECT: 492066684
FIGURE: 3

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URS

ATTACHMENT 1

BORING LOGS

BORING LOG

Project: Shell Retail Store No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana

Client: Motiva Enterprises, LLC
Houston, Texas

No. SB-1

File No.: 28509-13
Date: 02/22/06
Drilling Co.: Walker-Hill Environmental
Supervisor: Brad Richardson
Type Rig: Geoprobe 6610 DT
Logged by: GED

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Air Knife (8" O.D.): 0 to 5' Direct Push Sampler (2" O.D.): 5' to 25' Start Time: 0745 Finish Time: 0825
					42.5	*					Concrete pavement Gray silty CLAY (CL)
					8.5	*		5			
					8.8	*					
					1.8	*		10			
					1.8	*			▽		-- wet
					1.4	*		15			
					<0.1	*		20			-- light gray
					<0.1	*					
					<0.1	*		25			Boring terminated at 25' bgs and grouted to the surface.
								30			
								35			

Shelby Tube
Direct Push Sampler
Auger Cuttings
No Recovery

(1) MiniRAE PID

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

* No Penetrometer or SPT Value

BORING LOG

Project: Shell Retail Store No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana

Client: Motiva Enterprises, LLC
Houston, Texas

No. SB-2

File No.: 28509-13
Date: 02/22/06
Drilling Co.: Walker-Hill Environmental
Supervisor: Brad Richardson
Type Rig: Geoprobe 6610 DT
Logged by: GED

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Air Knife (8" O.D.): 0 to 5' Direct Push Sampler (2" O.D.): 5' to 17' Start Time: 0840 Finish Time: 0910
					7.9	•					Concrete pavement Gray silty CLAY (CL)
					3.2	•		5			
					<0.1	•					
					2.0	•		10			
					<0.1	•					
					0.5	•		15			
											Boring terminated at 17' bgs and and grouted to the surface..
								20			
								25			
								30			
								35			

Shelby Tube
Direct Push Sampler
Auger Cuttings
No Recovery

(1) MiniRAE PID

Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

• No Penetrometer or SPT Value

BORING LOG

Project: Shell Retail Store No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana

Client: Motiva Enterprises, LLC
Houston, Texas

No. SB-3

File No.: 28509-13
Date: 02/22/06
Drilling Co.: Walker-Hill Environmental
Supervisor: Brad Richardson
Type Rig: Geoprobe 6610 DT
Logged by: GED

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Air Knife (8" O.D.): 0 to 5' Direct Push Sampler (2" O.D.): 5' to 17' Start Time: 0930 Finish Time: 1000
					47	•					Concrete pavement Dark gray silty CLAY (CL) with hydrocarbon odor
					175	•		5			
					473	•		10			
					87.5	•			▽		
					14.9	•		15			Boring terminated at 17' bgs and grouted to the surface.
								20			
								25			
								30			
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1) MiniRAE PID

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

• No Penetrometer or SPT Value

BORING LOG

Project: Shell Retail Store No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana

Client: Motiva Enterprises, LLC
Houston, Texas

No. SB-4

File No.: 28509-13
Date: 02/22/06
Drilling Co.: Walker-Hill Environmental
Supervisor: Brad Richardson
Type Rig: Geoprobe 6610 DT
Logged by: GED

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Air Knife (8" O.D.): 0 to 5' Direct Push Sampler (2" O.D.): 5' to 17' Start Time: 1005 Finish Time: 1030
					76.9	*					Concrete pavement Dark gray silty CLAY (CL)
					147	*		5			
					66.4	*					
					195	*		10			
					86.4	*			▽		
					38.5	*		15			
											Boring terminated at 17' bgs and grouted to the surface.
								20			
								25			
								30			
								35			

Shelby Tube

Direct Push Sampler

Auger Cuttings

No Recovery

(1) MiniRAE PID

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

* No Penetrometer or SPT Value

BORING LOG

Project: Shell Retail Store No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana

Client: Motiva Enterprises, LLC
Houston, Texas

No. SB-5

File No.: 28509-13
Date: 02/22/06
Drilling Co.: Walker-Hill Environmental
Supervisor: Brad Richardson
Type Rig: Geoprobe 6610 DT
Logged by: GED

LABORATORY TEST DATA					FIELD DATA					BORING DATA	
Moisture Content (%)	Atterberg Test: Liquid Limit (%)	Atterberg Test: Plastic Index (%)	% Finer than #200 Sieve	Other	Organic Vapor Meter (1) (ppm)	Penetrometer (Tons/Sq.ft) or Std Pen. Test (blows/foot)	Sampling	Depth (feet)	Water Level	Screen Interval	Air Knife (8" O.D.): 0 to 5' Direct Push Sampler (2" O.D.): 5' to 17' Start Time: 1035 Finish Time: 1100
					5.3	•					Concrete pavement Gray silty CLAY (CL)
					18.4	•		5			
					22.3	•					
					7.0	•		10			
					3.1	•			▽		
					3.5	•		15			
											Boring terminated at 17' bgs and grouted to the surface.
								20			
								25			
								30			
								35			

Shelby Tube
Direct Push Sampler
Auger Cuttings
No Recovery

(1) MiniRAE PID

▽ Water First Noted

Stratification is Inferred And May Not be Exact.
Soil Classification Based on Visual-Manual Procedure

Conestoga-Rovers & Associates

• No Penetrometer or SPT Value

LOG OF WELL SB-4A

Client Shell Oil Products US
Project Name Site Assessment Report
Location Retail Outlet at 2300 S. Acadian Thruway
Number 49206684.00001

Drill Contractor Walker-Hill Environmental, Inc.
Drill Method Direct Push
Drilling Started 1/28/09 **Ended** 1/28/09
Logged By Jed Smith

Ground Surface Elevation NS
Elevation NS
Total Depth 24' bgs
Depth To Water

DEPTH FEET	SAMPLE NO.	TIME	PID (ppm)	RECOVERY (inch)	USCS	LITHOLOGY	DESCRIPTION
0							No log due to air knifing for borehole clearance.
6		12:00					
8			54.2	12	CL		Soft, gray Silty CLAY with odor
			304		CL		Soft, grayish green to light brown Silty CLAY with frequent silt partings, odor, moist
10		12:05		36			
			69.7				
12							
			46.4				
14		12:10		48			
			18.3				
16							Stiff, gray to orange Silty CLAY with some ferrous nodules
			21.0		CL		
18		12:15					
			12.6				
20							Gray, fine Silty SAND with some clay matrix, moist
			5.4				—increase in moisture content
22		12:25		36	SM		
			6.8				
24							Total depth of boring at 24' bgs.
							3/4" well installed to 24' with 5' prepacked screen.
26							
28							

TEMPORARY WELL CONSTRUCTION DETAIL

URS Corporation
7389 Florida Boulevard, Suite 300
Baton Rouge, LA 70806
Telephone: 225 922-5700
Fax: 225 922-5701

Remarks:

NS = Not Surveyed

Report: SHELL_6684 Project File: I:\PROJECTS\GINTW\PROJECTS\49206684_SHELL.GPJ SB-4A Data Template:LOG A EVANS.GDT Printed: 3/9/09

LOG OF WELL MW-1

Client Shell Oil Products US
Project Name Site Assessment Report
Location Retail Outlet at 2300 S. Acadian Thruway
Number 49206684.00001

Drill Contractor Walker-Hill Environmental, Inc.
Drill Method Hollow-Stem Auger
Drilling Started 11/10/09 **Ended** 11/10/09
Logged By Jed Smith

Ground Surface Elevation NS
Elevation NS
Total Depth 28' bgs
Depth To Water ATD 24'
AD 6.1' After 24 hrs

DEPTH FEET	SAMPLE NO.	TIME	PID (ppm)	RECOVERY (inch)	USCS	LITHOLOGY	DESCRIPTION
0							No Recovery Due to Airknifing
2			0.0	0			
4							
6		08:35	0.0	36	CL		Soft, gray Silty CLAY
8							Soft, grayish-green to light brown Silty CLAY with frequent silt partings, odor, moist
10		08:40	0.0	48	CL		
12							
14		08:50	0.0	48			
16							Stiff, gray to orange Silty CLAY with ferrous nodules
18		09:00	0.0	48	CL		
20							Gray, fine Silty SAND with some clay matrix, moist
22		09:10	0.0	48	SM		
24							Gray, fine Silty SAND, interbedded with clay, wet
26		09:30	0.0	48	SM		
28					CH		Stiff, grayish-orange CLAY
30							Boring terminated at 27' bgs. 2 inch well installed. 17-27 feet bgs screened interval 0.010 slot, 20/40 silica sand. Lithology for log of MW-1 was transcribed from log of RW-1 performed on 11/09/09.

WELL CONSTRUCTION DETAIL

- 8-3/4" Diameter Bore
- 2" Diameter Schedule 40 PVC
- Bentonite Seal
- 20/40 Silica Sand
- 2" PVC pipe with 0.01" machined slots

DEPTH FEET

URS Corporation
7389 Florida Boulevard, Suite 300
Baton Rouge, LA 70806
Telephone: 225 922-5700
Fax: 225 922-5701

Remarks:

NS = Not Surveyed
ATD = At Time of Drilling
AD = After Drilling

Report SHELL_8684 Project File I:\PROJECTS\GINTWPROJECTS\49206684_SHELL.GPJ MW-1 Data Template:LOG A EWNN05.GDT Printed 12/14/09

LOG OF WELL RW-1

Client Shell Oil Products US | **Drill Contractor** Walker-Hill Environmental, Inc. | **Ground Surface Elevation** NS

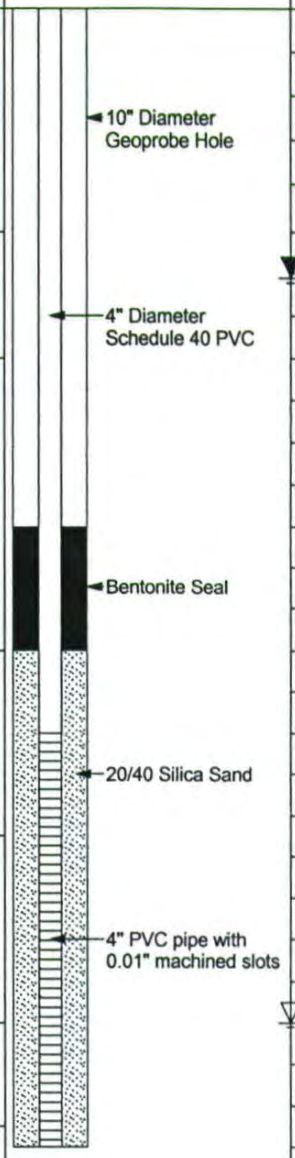
Project Name Site Assessment Report | **Drill Method** Hollow-Stem Auger | **Elevation** NS

Location Retail Outlet at 2300 S. Acadian Thruway | **Drilling Started** 11/9/09 **Ended** 11/9/09 | **Total Depth** 28' bgs

Number 49206684.00001 | **Logged By** Jed Smith | **Depth To Water** ▽ **ATD** 24'

▼ **AD** 6.1' **After** 24 hrs

DEPTH FEET	SAMPLE NO.	TIME	PID (ppm)	RECOVERY (inch)	USCS	LITHOLOGY	DESCRIPTION
0							No Recovery Due to Airknifing
2				0			
4							
6		14:30		36	CL		Soft, gray Silty CLAY
8							Soft, grayish-green to light brown Silty CLAY with frequent silt partings, odor, moist
10		14:39		48	CL		
12							
14		14:45		48			
16					CL		Stiff, gray to orange Silty CLAY with ferrous nodules
18		15:00		48			
20							Gray, fine Silty SAND with some clay matrix, moist
22		15:15		48	SM		
24							Gray, fine Silty SAND, interbedded with clay
26		15:30		48	SM		
28					CH		Stiff, grayish-orange CLAY
30							Boring terminated at 27' bgs. 4 inch well installed. 17-27 feet bgs screened interval 0.010 slot, 20/40 silica sand.



DEPTH FEET: 2, 4, 6, 8, 10, 12, 14, 16, 18, 20, 22, 24, 26, 28, 30

URS Corporation
7389 Florida Boulevard, Suite 300
Baton Rouge, LA 70806
Telephone: 225 922-5700
Fax: 225 922-5701

Remarks:

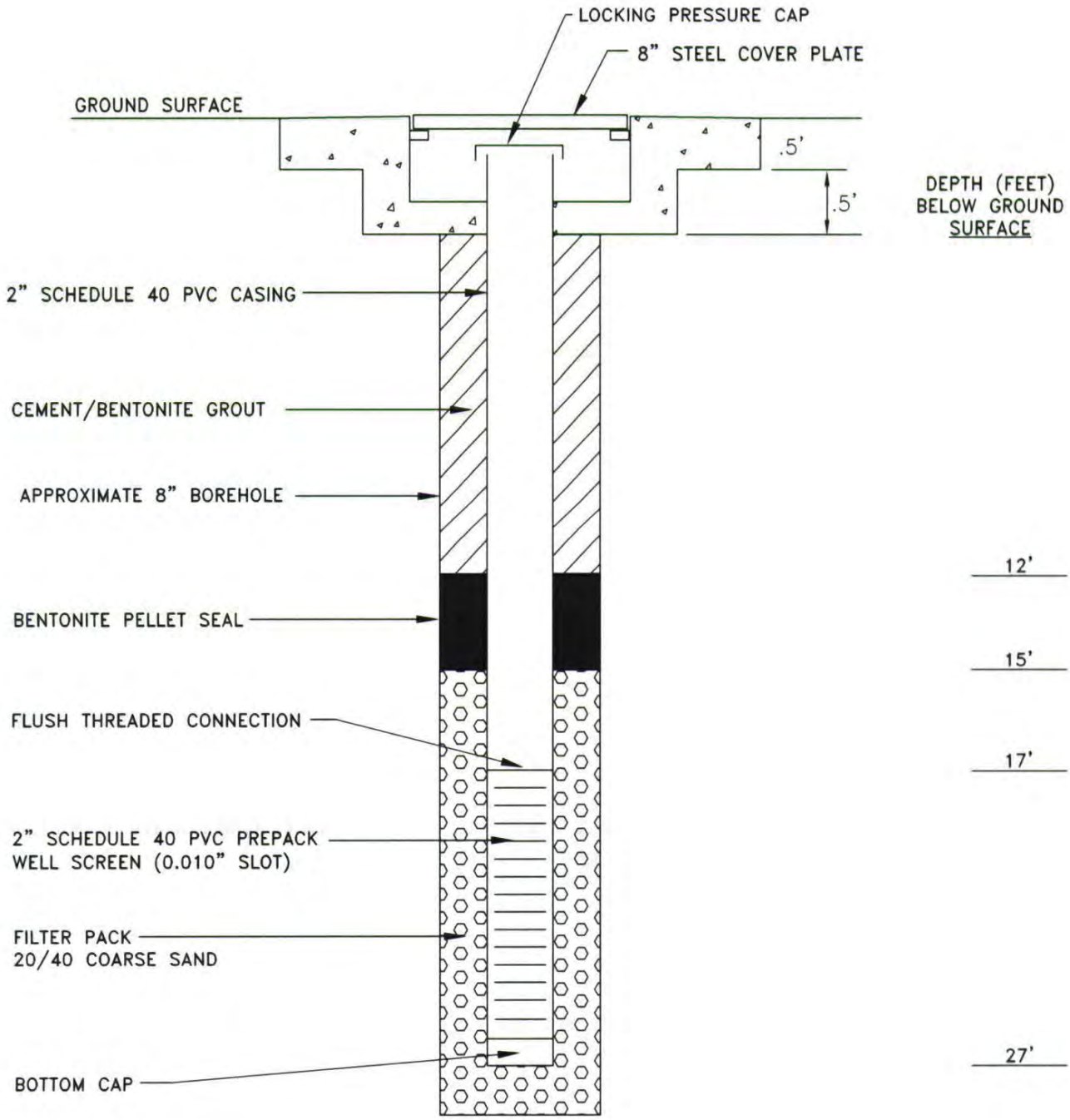
NS = Not Surveyed
ATD = At Time of Drilling
AD = After Drilling

Report SHELL_6684 Project File: I:\PROJECTS\GINTWPROJECTS\49206684_SHELL GPJ RW-1 Data Template:LOG AEWNN05.GDT Printed: 12/8/09

URS

ATTACHMENT 2

WELL CONSTRUCTION DETAILS



Shell Oil Products

URS
7389 Florida Blvd., Suite 300
Baton Rouge, Louisiana 70806
225/922-5700

SCALE:	DRAWN BY: DB	DATE: 12/05/09
N.T.S.	CHKD. BY: JS	DATE: 12/05/09

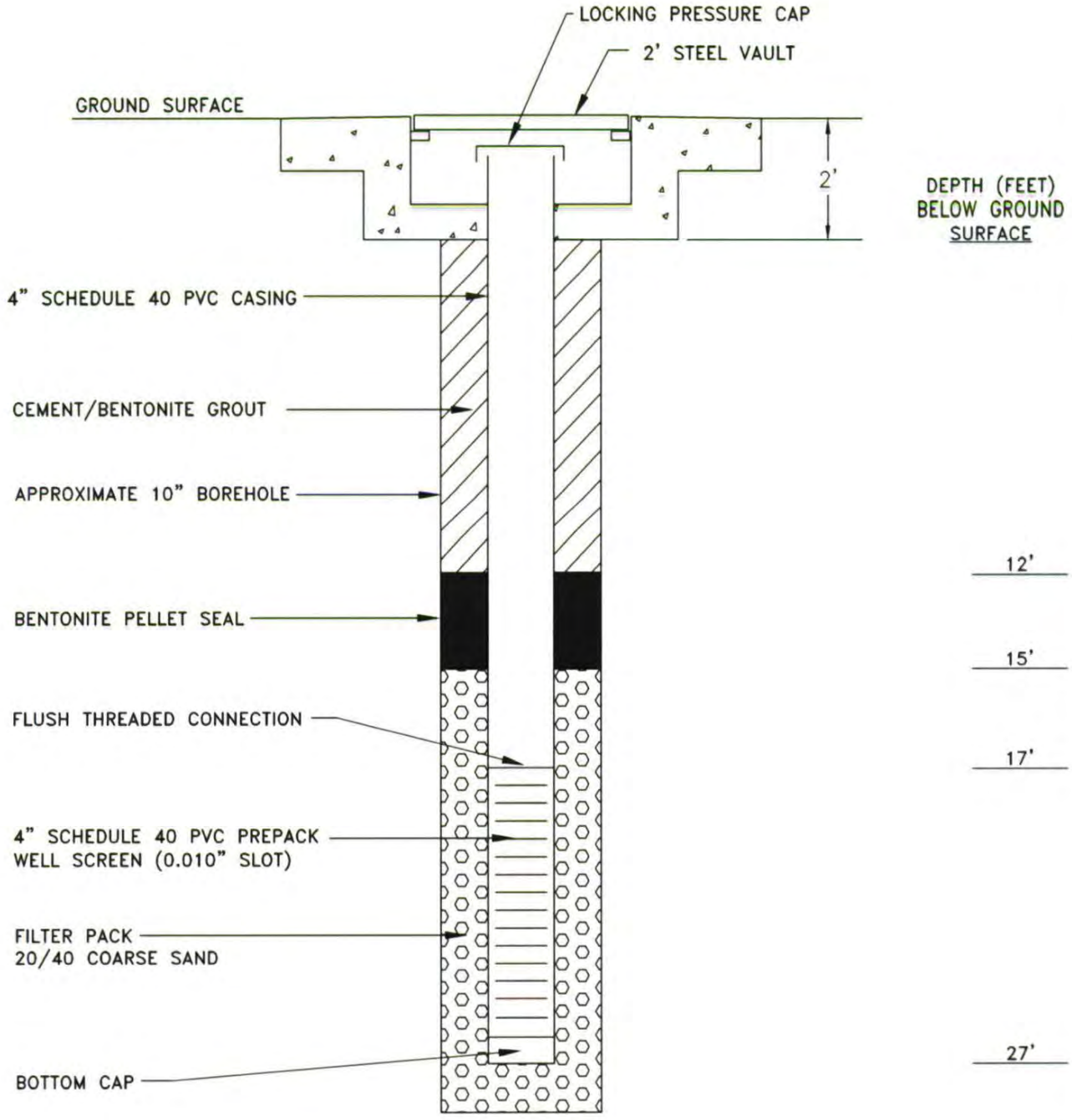
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

FLUSH MOUNT MW-1
CONSTRUCTION DIAGRAM

PROJ. NO. 49206684

FIG. NO.

I:\UP CAD\DRAWINGS\SHELL\RETAIL STORE\49206684\00001\49206684-00001-05.DWG - MW-1 - Friday, December 04, 2009 3:05:01 PM



I:\UP CAD\DRAWINGS\SHELL\RETAIL STORE\49206684\00001\49206684-00001-05.DWG - RW-1 - Monday, December 07, 2009 10:44:02 AM

Shell Oil Products

URS
7389 Florida Blvd., Suite 300
Baton Rouge, Louisiana 70806
225/922-5700

SCALE:	DRAWN BY: DB	DATE: 12/05/09
N.T.S.	CHKD. BY: JS	DATE: 12/05/09

FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

FLUSH MOUNT RW-1
CONSTRUCTION DIAGRAM

PROJ. NO. 49206684

FIG. NO.

URS

ATTACHMENT 3

GROUNDWATER COLLECTION REPORT FORMS

URS

GROUNDWATER COLLECTION REPORT

PROJECT NUMBER AND NAME S. Acadian Thwy 47206684.0001 LOCATION Baton Rouge, LA
COLLECTOR/OPERATOR Jed Smith WELL NO. MW-1
TYPE OF SAMPLE _____ ☒ GRAB ( ) COMPOSITE ( ) OTHER _____
METHOD OF SAMPLING IF OTHER THAN MONITOR WELL _____ SHUTTLE NO. _____

MONITOR WELL INFORMATION

EVACUATION: DATE/TIME 11/12/09 1430 METHOD OF EVACUATION Monsoon Pump
INITIAL DEPTH TO WATER LEVEL 6.1 TOP OF CASING TO BOTTOM 27ft
GALLONS PER WELL VOLUME 3.4 TOTAL GALLONS EVACUATED ~10
FINAL DEPTH TO WATER N/A ELEVATION TOP OF CASING _____

SAMPLING: DATE/TIME 11/12/09 0845 METHOD OF SAMPLING Clean Bailer
DEPTH TO WATER LEVEL 6.1

SAMPLE DATA

FIELD REPLICATE #1	TEMP.	22.5	pH	7.02	CONDUCTIVITY	0.99
FIELD REPLICATE #2	TEMP.	22.5	pH	7.02	CONDUCTIVITY	0.98
FIELD REPLICATE #3	TEMP.	22.5	pH	7.01	CONDUCTIVITY	0.98
FIELD REPLICATE #4	TEMP.		pH		CONDUCTIVITY	

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING Cool Sunny
SAMPLING CHARACTERISTICS Clear
CONTAINERS AND PRESERVATIVES 3 HCL Preserved VOA's

RECOMMENDATION/OBSERVATIONS _____

SAMPLE ID NUMBERS MW-1
SAMPLING PERSONNEL _____ TIME 845 TO 900
(SIGNED)
DATE 11/12/09

URS

GROUNDWATER COLLECTION REPORT

PROJECT NUMBER AND NAME S. Acadian Thy 4420 6684 LOCATION Baton Rouge, LA
COLLECTOR/OPERATOR Joel Smith WELL NO. RW-3
TYPE OF SAMPLE _____ (X) GRAB ( ) COMPOSITE ( ) OTHER _____
METHOD OF SAMPLING IF OTHER THAN MONITOR WELL _____ SHUTTLE NO. _____

MONITOR WELL INFORMATION

EVACUATION: DATE/TIME 11/11/01 1330 METHOD OF EVACUATION Monsoon Pump
INITIAL DEPTH TO WATER LEVEL 6.1 TOP OF CASING TO BOTTOM 27 FT
GALLONS PER WELL VOLUME 13.62B TOTAL GALLONS EVACUATED ~40 gallons
FINAL DEPTH TO WATER N/A ELEVATION TOP OF CASING N/A

SAMPLING: DATE/TIME 11/12/01 0830 METHOD OF SAMPLING Clean Bailer
DEPTH TO WATER LEVEL 6.1

SAMPLE DATA

FIELD REPLICATE #1	TEMP.	22.3	pH	7.10	CONDUCTIVITY	0.98
FIELD REPLICATE #2	TEMP.	22.4	pH	7.11	CONDUCTIVITY	0.98
FIELD REPLICATE #3	TEMP.	22.4	pH	7.11	CONDUCTIVITY	0.98
FIELD REPLICATE #4	TEMP.		pH		CONDUCTIVITY	

GENERAL INFORMATION

WEATHER CONDITIONS AT TIME OF SAMPLING Cool, Sunny
SAMPLING CHARACTERISTICS Clear
CONTAINERS AND PRESERVATIVES 3 HCL Preserved VOA's

RECOMMENDATION/OBSERVATIONS

SAMPLE ID NUMBERS RW-1
SAMPLING PERSONNEL TIME 0830 TO 0845

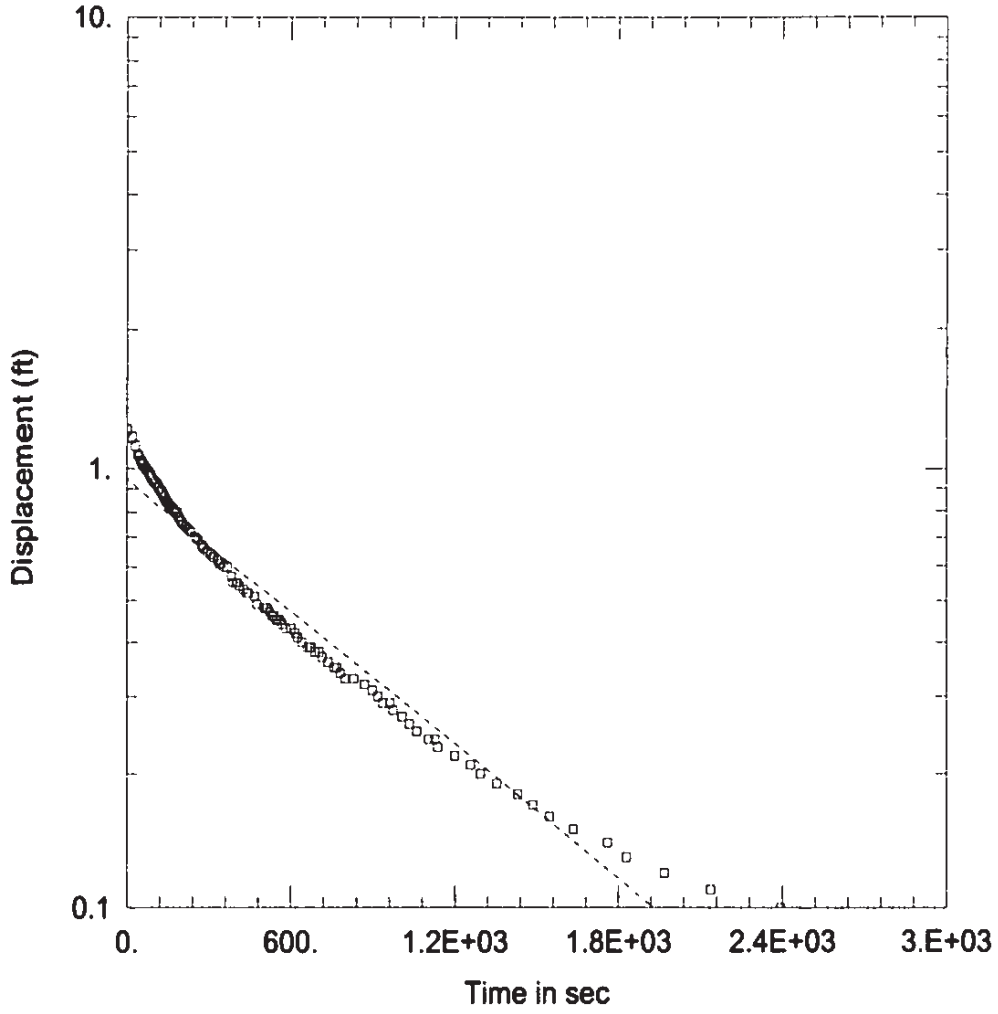
(SIGNED) DATE 11/12/01

H:\CTMCGOWAN\FORMS\GWCR-MW.DOC

URS

ATTACHMENT 4

SLUG TEST RESULTS AND AQUIFER YIELD CALCULATION



WELL TEST ANALYSIS

Data Set: I:\...\slugout.aqt
Date: 12/04/09 Time: 14:49:17

PROJECT INFORMATION

Company: URS Corp
Client: Shell Oil Products
Project: 49206684
Test Location: Store #142059
Test Well: MW-1
Test Date: 11/12/09

AQUIFER DATA

Saturated Thickness: 20.9 ft Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW-1)

Initial Displacement: 1.21 ft Water Column Height: 21.03 ft
Casing Radius: 0.083 ft Wellbore Radius: 0.354 ft
Screen Length: 10. ft

SOLUTION

Aquifer Model: Unconfined Solution Method: Bouwer-Rice
K = 7.132E-05 ft/min y0 = 0.9463 ft

AQTESOLV for Windows

Data Set: I:\Projects\Shell Retail\49206684-2300 S Acadian\Addl GW Inv Report-Nov 2009\Slug Test Data\slug
Date: 12/04/09
Time: 14:47:12

PROJECT INFORMATION

Company: URS Corp
Client: Shell Oil Products
Project: 49206684
Location: Store #142059
Test Date: 11/12/09
Test Well: MW-1

AQUIFER DATA

Saturated Thickness: 20.9 ft
Anisotropy Ratio (Kz/Kr): 1.

OBSERVATION WELL DATA

Number of observation wells: 1

Observation Well No. 1: MW-1

X Location: 0. ft
Y Location: 0. ft

No. of observations: 113

Observation Data

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
19.	1.17	233.	0.72	660.	0.39
31.	1.13	250.	0.7	670.	0.39
40.	1.08	261.	0.69	674.	0.39
44.	1.07	274.	0.67	688.	0.38
49.	1.05	282.	0.66	704.	0.38
53.	1.04	294.	0.65	714.	0.37
57.	1.03	307.	0.64	736.	0.36
61.	1.02	317.	0.63	758.	0.35
66.	1.01	333.	0.62	768.	0.35
69.	1.	341.	0.61	781.	0.34
75.	0.99	345.	0.61	797.	0.33
79.	0.98	354.	0.6	829.	0.33
84.	0.97	367.	0.6	868.	0.32
87.	0.96	383.	0.57	897.	0.31
91.	0.95	389.	0.55	917.	0.3
95.	0.94	400.	0.55	935.	0.29
100.	0.93	404.	0.55	962.	0.29
105.	0.93	412.	0.54	973.	0.28
109.	0.92	427.	0.53	1006.	0.27
115.	0.91	438.	0.52	1033.	0.26
118.	0.9	445.	0.52	1059.	0.25

Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)	Time (sec)	Displacement (ft)
126.	0.89	467.	0.51	1103.	0.24
130.	0.88	476.	0.49	1126.	0.24
134.	0.87	500.	0.48	1136.	0.23
139.	0.86	510.	0.48	1198.	0.22
144.	0.85	513.	0.48	1256.	0.21
150.	0.84	522.	0.47	1293.	0.2
156.	0.83	531.	0.46	1353.	0.19
165.	0.82	538.	0.46	1431.	0.18
172.	0.81	546.	0.45	1486.	0.17
178.	0.8	552.	0.45	1547.	0.16
184.	0.8	561.	0.45	1635.	0.15
189.	0.78	568.	0.44	1760.	0.14
194.	0.77	581.	0.43	1829.	0.13
199.	0.76	601.	0.43	1969.	0.12
203.	0.75	615.	0.42	2138.	0.11
214.	0.74	625.	0.41	2394.	0.1
223.	0.73	641.	0.4		

SOLUTION

Aquifer Model: Unconfined
Solution Method: Bouwer-Rice

VISUAL ESTIMATION RESULTS

Estimated Parameters

Parameter	Estimate	
K	3.623E-05	cm/sec
y0	0.9463	ft

FORMER SHELL RETAIL STATION
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA
SLUG TEST YIELD CALCULATION WORKSHEET
for UNCONFINED AQUIFER

Data from Slug Test Graphs	T (ft^2/min)	b (ft)	Calculated K (ft/min)
MW-1 slug out	0.001491	20.9	0.00007132
Average	0.001491	**20.9**	0.00007132

Average T value from above (Transmissivity) in ft^2/min 0.001491
Average saturated thickness from above (b) 20.9

Calculated average conductivity from above (k) 0.00007132 ft/min
Metric Conversion for Yield Equation 0.00003623 cm/sec

Maximum Sustainable Yield Calculation

Hydraulic conductivity (k) in cm/sec from above 0.00003623

b (saturated thickness in feet) from above 20.9

Standard Yield Equation for a Un-Confined Aquifer:

$16(K)(b)^2$ / {6.3 + log (k*b)} 0.079647 yield in gpm

Maximum Sustainable Yield =	**114.7 yield in gpd**

SUMMARY

Average saturated thickness (ft)	**20.9**
Maximum Sustainable Yield (gpd)	**114.7**

URS

ATTACHMENT 5

ANALYTICAL LABORATORY REPORT

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Case Narrative for:

SHELL OIL PRODUCTS CO.

Certificate of Analysis Number:

09110620

Report To:		Project Name:	SHELL INC #: 86368/ URS PROJ #: 4920
URS CORPORATION		Site:	142059/ 2300 SOUTH ACADIAN THWY
RON LEE		Site Address:	
7389 Florida Boulevard			
Suite 300		PO Number:	
Baton Rouge		State:	Louisiana
LA		State Cert. No.:	02048
70806-		Date Reported:	11/23/2009
ph: (225) 922-5700	fax:		

NFS: "Non-flashing solid" - This designation is used to indicate a measurement of ignitability on a soil sample or solid matrix that did not flash or burn at the minimum rate as required in the analytical method specification.

Please note that as of July 14, 2005, EPA does not require the use of reactive cyanide and reactive sulfide methods for waste classifications. These test methods have been deleted from SW-846.

Matrix spike (MS) and matrix spike duplicate (MSD) samples are chosen and tested at random from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data for those samples spiked by the laboratory and may be applicable to other samples of similar matrix from the site. Since the MS and MSD are chosen at random from an analytical batch, the sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The Laboratory Control Sample (LCS) and the Method Blank (MB) are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process. If insufficient sample is supplied for MS/MSD, a Laboratory Control Sample (LCS) and a Laboratory Control Sample Duplicate (LCSD) are reported with the analytical batch and serve as the batch quality control (QC).

Results are reported on a Wet Weight Basis unless otherwise noted in the sample unit field as -dry.

The collection of samples using encores, terracores or other field collection devices may result in inconsistent initial sample weights for the parent sample and MS/MSD samples.

The MS/MSD recovery and precision data are calculated based on detected spike concentrations that are adjusted for initial sample weights. As a result of the variability between initial sample weights, the calculated RPD may have increased bias.

Any other exceptions associated with this report will be footnoted in the analytical result page(s) or the quality control summary page(s).

Please do not hesitate to contact us if you have any questions or comments pertaining to this data report. Please reference the above Certificate of Analysis Number.

This report shall not be reproduced except in full, without the written approval of the laboratory. The reported results are only representative of the samples submitted for testing.

SPL, Inc. is pleased to be of service to you. We anticipate working with you in fulfilling all your current and future analytical needs.

11/23/2009

Cristina Thibeaux
Project Manager

Date

Test results meet all requirements of NELAC, unless specified in the narrative.

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

SHELL OIL PRODUCTS CO.

Certificate of Analysis Number:

09110620

Report To: URS CORPORATION
RON LEE
7389 Florida Boulevard
Suite 300
Baton Rouge
LA
70806-
ph: (225) 922-5700 fax: (225) 922-5701

Fax To:

Project Name: SHELL INC #: 86368/ URS PROJ #: 4920
Site: 142059/ 2300 SOUTH ACADIAN THWY
Site Address:

PO Number:
State: Louisiana
State Cert. No.: 02048
Date Reported: 11/23/2009

Client Sample ID	Lab Sample ID	Matrix	Date Collected	Date Received	COC ID	HOLD
RW-1	09110620-01	Water	11/12/2009 8:30:00 AM	11/13/2009 4:15:00 PM	299066	☐
MW-1	09110620-02	Water	11/12/2009 8:45:00 AM	11/13/2009 4:15:00 PM	299066	☐
TRIP BLANK	09110620-03	Water	11/12/2009	11/13/2009 4:15:00 PM	299066	☐
TCLP-RCI	09110620-04	Soil	11/12/2009 3:00:00 PM	11/13/2009 4:15:00 PM	299066	☐

Cristina Thibeaux
Project Manager

11/23/2009
Date

Ron Benjamin
Laboratory Director

Tristan Davis
Quality Assurance Officer

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: RW-1 **Collected:** 11/12/2009 8:30 **SPL Sample ID:** 09110620-01

Site: 142059/ 2300 SOUTH ACADIAN THWY

Analyses/Method	Result	QUAL	Rep.Limit	DIL Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER			**MCL**	**SW8260B**	**Units: mg/L**		
Benzene	1.2		0.005	5	11/20/09 13:49	DN	3350648
Surr: 1,2-Dichloroethane-d4	106		% 75-120	5	11/20/09 13:49	DN	3350648
Surr: 4-Bromofluorobenzene	97.9		% 89-109	5	11/20/09 13:49	DN	3350648
Surr: Toluene-d8	99.4		% 89-110	5	11/20/09 13:49	DN	3350648

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: MW-1 **Collected:** 11/12/2009 8:45 **SPL Sample ID:** 09110620-02

Site: 142059/ 2300 SOUTH ACADIAN THWY

Analyses/Method	Result	QUAL	Rep.Limit	Dil. Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER			**MCL**	**SW8260B**	**Units: mg/L**		
Benzene	0.0037		0.001	1	11/20/09 18:44	DN	3351551
Surr: 1,2-Dichloroethane-d4	96.1	%	75-120	1	11/20/09 18:44	DN	3351551
Surr: 4-Bromofluorobenzene	99.3	%	89-109	1	11/20/09 18:44	DN	3351551
Surr: Toluene-d8	100	%	89-110	1	11/20/09 18:44	DN	3351551

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: TRIP BLANK **Collected:** 11/12/2009 0:00 **SPL Sample ID:** 09110620-03

Site: 142059/ 2300 SOUTH ACADIAN THWY

Analyses/Method	Result	QUAL	Rep.Limit	Dil Factor	Date Analyzed	Analyst	Seq. #
VOLATILE ORGANICS:METHOD 8260B:BTEX - WATER			**MCL**	**SW8260B**	**Units: mg/L**		
Benzene	ND		0.001	1	11/19/09 4:32	NDG	3348741
Surr: 1,2-Dichloroethane-d4	98.4	%	75-120	1	11/19/09 4:32	NDG	3348741
Surr: 4-Bromofluorobenzene	98.1	%	89-109	1	11/19/09 4:32	NDG	3348741
Surr: Toluene-d8	95.6	%	89-110	1	11/19/09 4:32	NDG	3348741

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Client Sample ID: TCLP-RCI **Collected:** 11/12/2009 15:00 **SPL Sample ID:** 09110620-04

Site: 142059/ 2300 SOUTH ACADIAN THWY

Analyses/Method	Result	QUAL	Rep.Limit		Dil. Factor	Date Analyzed	Analyst	Seq. #
IGNITABILITY-SOLID				**MCL**		**SW1030**	**Units: mm/sec**	
Ignitability	NFS		0		1	11/17/09 9:00	DB	3344413
PH- ON SOIL				**MCL**		**SW9045D**	**Units: Std Units**	
pH	8.74		1.00		1	11/17/09 13:30	DB	3344901
REACTIVE CYANIDE BY SW7.3.3.2 & SW9014				**MCL**		**SW7.3.3.2**	**Units: mg/Kg**	
Reactive Cyanide	ND		1		1	11/18/09 10:00	CJD	3347295
REACTIVE SULFIDE BY SW7.3.4.2 & SW9034				**MCL**		**SW7.3.4.2**	**Units: mg/Kg**	
Reactive Sulfide	ND		8.5	500	1	11/17/09 16:30	CJD	3347594
TCLP METALS BY METHOD 6010B				**MCL**		**SW6010B**	**Units: mg/L**	
Lead	ND		0.1	5	1	11/19/09 13:35	SVW	3350671

Prep Method	Prep Date	Prep Initials	Prep Factor	Leach Method	Leachate Date	Leach Initials
SW3010A	11/18/2009 17:00	SA	1.00	SW1311	11/17/2009	KT

TCLP PURGEABLE AROMATICS (BENZENE)				**MCL**		**SW8021B**	**Units: ug/L**	
Benzene	ND		10		10	11/20/09 9:46	SJA	3350563
Surr: 1,4-Difluorobenzene	106	%	61-146		10	11/20/09 9:46	SJA	3350563
Surr: 4-Bromofluorobenzene	102	%	64-159		10	11/20/09 9:46	SJA	3350563

Leach Method	Leachate Date	Leach Initials
SW1311	11/18/2009	KT

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B/V - Analyte detected in the associated Method Blank
* - Surrogate Recovery Outside Advisable QC Limits
J - Estimated Value between MDL and PQL
E - Estimated Value exceeds calibration curve
TNTC - Too numerous to count
>MCL - Result Over Maximum Contamination Limit(MCL)
D - Surrogate Recovery Unreportable due to Dilution
MI - Matrix Interference

Quality Control Documentation

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: TCLP Purgeable Aromatics (Benzene) **WorkOrder:** 09110620
Method: SW8021B **Lab Batch ID:** R221183

Method Blank

RunID: HPPP_091118D-3350556 Units: ug/L
Analysis Date: 11/19/2009 23:12 Analyst: SJA

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Analyte	Result	Rep Limit
Benzene	ND	1.0
Surr: 1,4-Difluorobenzene	110.8	61-146
Surr: 4-Bromofluorobenzene	110.5	64-159

Leachate Blank

RunID: HPPP_091118D-3350560 Units: ug/L
Analysis Date: 11/20/2009 8:08 Analyst: SJA

Analyte	Result	Rep Limit
Benzene	ND	1.0
Surr: 1,4-Difluorobenzene	103.9	57-136
Surr: 4-Bromofluorobenzene	104.9	57-136

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: HPPP_091118D-3350557 Units: ug/L
Analysis Date: 11/20/2009 0:18 Analyst: SJA

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	43.4	86.7	50.0	44.8	89.5	3.2	11	82	119
Surr: 1,4-Difluorobenzene	30.0	29.7	99.0	30.0	29.7	98.9	0.1	30	61	146
Surr: 4-Bromofluorobenzene	30.0	29.7	98.9	30.0	28.4	94.8	4.2	30	64	159

Matrix Spike (MS) / Matrix Spike Duplicate (MSD)

Sample Spiked: 09110620-04
RunID: HPPP_091118D-3350564 Units: ug/L
Analysis Date: 11/20/2009 10:19 Analyst: SJA

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: TCLP Purgeable Aromatics (Benzene) **WorkOrder:** 09110620
Method: SW8021B **Lab Batch ID:** R221183

Analyte	Sample Result	MS Spike Added	MS Result	MS % Recovery	MSD Spike Added	MSD Result	MSD % Recovery	RPD	RPD Limit	Low Limit	High Limit
Benzene	ND	500	475	95.0	500	471	94.2	0.792	23	54	158
Surr: 1,4-Difluorobenzene	ND	300	299	99.6	300	296	98.6	0.973	30	61	146
Surr: 4-Bromofluorobenzene	ND	300	308	103	300	298	99.2	3.56	30	64	159

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: TCLP Metals by Method 6010B **WorkOrder:** 09110620
Method: SW6010B **Lab Batch ID:** 84991

Method Blank

RunID: ICPDV_091119C-3350669 Units: mg/L
Analysis Date: 11/19/2009 13:25 Analyst: SVW
Preparation Date: 11/18/2009 17:00 Prep By: SA Method: SW3010A

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Analyte	Result	Rep Limit
Lead	ND	0.1

Laboratory Control Sample (LCS)

RunID: ICPDV_091119C-3350670 Units: mg/L
Analysis Date: 11/19/2009 13:30 Analyst: SVW
Preparation Date: 11/18/2009 17:00 Prep By: SA Method: SW3010A

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
Lead	10.00	9.488	94.88	80	120

Sample Duplicate

Original Sample: 09110620-04
RunID: ICPDV_091119C-3350671 Units: mg/L
Analysis Date: 11/19/2009 13:35 Analyst: SVW
Preparation Date: 11/18/2009 17:00 Prep By: SA Method: SW3010A
Leach Date: 11/17/2009 0:00 Leach By: KT Method: SW1311

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Lead	ND	ND	0	20

Matrix Spike (MS)

Sample Spiked: 09110620-04
RunID: ICPDV_091119C-3350673 Units: mg/L
Analysis Date: 11/19/2009 13:44 Analyst: SVW
Preparation Date: 11/18/2009 17:00 Prep By: SA Method: SW3010A

Analyte	Sample Result	Spike Added	MS Result	MS % Recovery	Low Limit	High Limit
Lead	ND	10	9.720	96.93	75	125

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: Volatile Organics:Method 8260B:BTEX - water **WorkOrder:** 09110620
Method: SW8260B **Lab Batch ID:** R221072

Method Blank

RunID: GA_091118C-3348740 Units: ug/L
Analysis Date: 11/19/2009 4:02 Analyst: NDG

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-03A	TRIP BLANK

Analyte	Result	Rep Limit
Benzene	ND	1.0
Surr: 1,2-Dichloroethane-d4	100.0	75-120
Surr: 4-Bromofluorobenzene	99.1	89-109
Surr: Toluene-d8	96.9	89-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GA_091118C-3348738 Units: ug/L
Analysis Date: 11/19/2009 0:35 Analyst: NDG

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	47.2	94.3	50.0	46.5	92.9	1.5	23	88	117
Surr: 1,2-Dichloroethane-d4	50.0	49.3	98.6	50.0	48.7	97.4	1.2	30	75	120
Surr: 4-Bromofluorobenzene	50.0	50.5	101	50.0	49.5	99.1	1.8	30	89	109
Surr: Toluene-d8	50.0	49.9	99.7	50.0	50.1	100	0.5	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

LAFAYETTE LABORATORY
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SCOTT, LA 70583
(337) 237-4775

Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206884.00001

Analysis: Volatile Organics:Method 8260B:BTEX - water **WorkOrder:** 09110620
Method: SW8260B **Lab Batch ID:** R221193

Method Blank

RunID: GB_091120A-3350645 Units: ug/L
Analysis Date: 11/20/2009 12:20 Analyst: DN

Samples In Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-01A	RW-1

Analyte	Result	Rep Limit
Benzene	ND	1.0
Surr: 1,2-Dichloroethane-d4	92.7	75-120
Surr: 4-Bromofluorobenzene	99.6	89-109
Surr: Toluene-d8	98.1	89-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_091120A-3350644 Units: ug/L
Analysis Date: 11/20/2009 10:52 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	52.9	106	50.0	51.5	103	2.7	23	88	117
Surr: 1,2-Dichloroethane-d4	50.0	52.0	104	50.0	51.4	103	1.1	30	75	120
Surr: 4-Bromofluorobenzene	50.0	51.0	102	50.0	49.0	98.0	4.0	30	89	109
Surr: Toluene-d8	50.0	50.6	101	50.0	50.3	101	0.6	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: Volatile Organics:Method 8260B:BTEX - water **WorkOrder:** 09110620
Method: SW8260B **Lab Batch ID:** R221235

Method Blank

RunID: GB_091120C-3351545 Units: ug/L
Analysis Date: 11/20/2009 12:20 Analyst: DN

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-02A	MW-1

Analyte	Result	Rep Limit
Benzene	ND	1.0
Surr: 1,2-Dichloroethane-d4	92.7	75-120
Surr: 4-Bromofluorobenzene	99.6	89-109
Surr: Toluene-d8	98.1	89-110

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: GB_091120C-3351543 Units: ug/L
Analysis Date: 11/20/2009 10:52 Analyst: DN

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Benzene	50.0	52.9	106	50.0	51.5	103	2.7	23	88	117
Surr: 1,2-Dichloroethane-d4	50.0	52.0	104	50.0	51.4	103	1.1	30	75	120
Surr: 4-Bromofluorobenzene	50.0	51.0	102	50.0	49.0	98.0	4.0	30	89	109
Surr: Toluene-d8	50.0	50.6	101	50.0	50.3	101	0.6	30	89	110

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis:	**Ignitability-Solid**	**WorkOrder:**	**09110620**
Method:	**SW1030**	**Lab Batch ID:**	**R220831**

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Sample Duplicate

Original Sample:	09110620-04		
RunID:	WET_091117O-3344413	Units:	mm/sec
Analysis Date:	11/17/2009 9:00	Analyst:	DB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Ignitability	NFS	NFS	0	20

Qualifiers:

ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis:	**pH- on Soil**	**WorkOrder:**	**09110620**
Method:	**SW9045D**	**Lab Batch ID:**	**R220855**

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Laboratory Control Sample (LCS)

RunID: WET_091117U-3344895 Units: Std Units
Analysis Date: 11/17/2009 13:30 Analyst: DB

Analyte	Spike Added	Result	Percent Recovery	Lower Limit	Upper Limit
pH	7.000	7.010	100.1	99.7	100.3

Sample Duplicate

Original Sample: 09110604-01
RunID: WET_091117U-3344898 Units: Std Units
Analysis Date: 11/17/2009 13:30 Analyst: DB

Analyte	Sample Result	DUP Result	RPD	RPD Limit
pH	8.5	8.51	0.118	0.7

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: Reactive Cyanide by SW7.3.3.2 & SW9014 **WorkOrder:** 09110620
Method: SW7.3.3.2 **Lab Batch ID:** R220994

Method Blank

RunID: WET_091118V-3347288 Units: mg/Kg
Analysis Date: 11/18/2009 10:00 Analyst: CJD

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Analyte	Result	Rep Limit
Reactive Cyanide	ND	1.0

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_091118V-3347289 Units: mg/Kg
Analysis Date: 11/18/2009 10:00 Analyst: CJD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Reactive Cyanide	10.00	0.7150	7.150	10.00	0.7230	7.230	1.1	20	0.1	50

Sample Duplicate

Original Sample: 09110604-01
RunID: WET_091118V-3347291 Units: mg/Kg
Analysis Date: 11/18/2009 10:00 Analyst: CJD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Cyanide	ND	ND	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

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Quality Control Report

SHELL OIL PRODUCTS CO.

SHELL INC #: 86368/ URS PROJ #: 49206684.00001

Analysis: Reactive Sulfide by SW7.3.4.2 & SW9034 **WorkOrder:** 09110620
Method: SW7.3.4.2 **Lab Batch ID:** R221017

Method Blank

RunID: WET_091117ZM-3347591 Units: mg/Kg
Analysis Date: 11/17/2009 16:30 Analyst: CJD

Samples in Analytical Batch:

Lab Sample ID	Client Sample ID
09110620-04A	TCLP-RCI

Analyte	Result	Rep Limit
Reactive Sulfide	ND	8.5

Laboratory Control Sample/Laboratory Control Sample Duplicate (LCS/LCSD)

RunID: WET_091117ZM-3347592 Units: mg/Kg
Analysis Date: 11/17/2009 16:30 Analyst: CJD

Analyte	LCS Spike Added	LCS Result	LCS Percent Recovery	LCSD Spike Added	LCSD Result	LCSD Percent Recovery	RPD	RPD Limit	Lower Limit	Upper Limit
Reactive Sulfide	500.0	135.9	27.19	500.0	127.4	25.49	6.4	20	0.1	60

Sample Duplicate

Original Sample: 09110620-04
RunID: WET_091117ZM-3347594 Units: mg/Kg
Analysis Date: 11/17/2009 16:30 Analyst: CJD

Analyte	Sample Result	DUP Result	RPD	RPD Limit
Reactive Sulfide	ND	ND	0	20

Qualifiers:
ND/U - Not Detected at the Reporting Limit
B - Analyte Detected In The Associated Method Blank
J - Estimated Value Between MDL And PQL
E - Estimated Value exceeds calibration curve
N/C - Not Calculated - Sample concentration is greater than 4 times the amount of spike added. Control limits do not apply.
TNTC - Too numerous to count
MI - Matrix Interference
D - Recovery Unreportable due to Dilution
* - Recovery Outside Advisable QC Limits

QC results presented on the QC Summary Report have been rounded. RPD and percent recovery values calculated by the SPL LIMS system are derived from QC data prior to the application of rounding rules.

Sample Receipt Checklist

And

Chain of Custody

LAFAYETTE LABORATORY
500 AMBASSADOR CAFFERY PARKWAY
SCOTT, LA 70583
(337) 237-4775

Sample Receipt Checklist

Workorder:	09110620	Received By:	JM
Date and Time Received:	11/13/2009 4:15:00 PM	Carrier name:	SPL-Driver-Other
Temperature:	4.5°C	Chilled by:	Water Ice

1.	Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
2.	Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
3.	Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
4.	Chain of custody present?	Yes ☑	No ☐	
5.	Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
6.	Chain of custody agrees with sample labels?	Yes ☑	No ☐	
7.	Samples in proper container/bottle?	Yes ☑	No ☐	
8.	Sample containers intact?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test?	Yes ☑	No ☐	
10.	All samples received within holding time?	Yes ☑	No ☐	
11.	Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
12.	Water - VOA vials have zero headspace?	Yes ☐	No ☐	VOA Vials Not Present ☑
13.	Water - Preservation checked upon receipt (except VOA*)?	Yes ☐	No ☐	Not Applicable ☑

*VOA Preservation Checked After Sample Analysis

SPL Representative: _____ Contact Date & Time: _____

Client Name Contacted: _____

Non Conformance Issues: _____

Client Instructions: _____

SPL, Inc.
Analysis Request & Chain of Custody Record

SPL Workorder No. 09110620 | 299066 | page 1 of 1

Client Name: URS Corporation
Address: 7389 Florida Blvd Suite 300
City: Baton Rouge State: LA Zip: 7080
Phone/Fax: 225-922-5700 / 225-922-5701
Client Contact: Ron Lee Email: Ron.Lee@urscorp.com
Project Name/No.: 2300 South Acadian Thwy / 49206684 0001
Site Name: 2300 South Acadian Thwy
Site Location: Baton Rouge, LA
Invoice To: URS Corp. Ph:

SAMPLE ID	DATE	TIME	comp	grab	matrix: W=water S=soil O=oil A=air SL=sludge U=encore X=other	bottle: P=plastic A=amber glass G=glass V=vial X=other	size: 1=1 liter 4=4oz 40=vial 8=8oz 16=16oz X=other	pres.: 1=HCl 2=HNO3 3=H2SO4 X=other	Number of Containers	Requested Analysis: 8260-B	TCLP Lead & BENZENE + RCI							
RW-1	11/12/09	0830		X	W	V	40	1	3	✓								3
MW-1	11/12/09	0845		X	W	V	40	1	3	✓								3
Trip Blank	11/12/09				W	V	40	1	3	✓		✓						3
TCLP-RCI	11/12/09	1500	X		S	G	X	X	3		✓							3

Client/Consultant Remarks:

Laboratory remarks: RS 303-8 (2W) + CS/cooler

Intact? ☑ Y ☐ N
Ice? 1.457 ☑ Y ☐ N
Temp: 4-5

Requested TAT
☐ 1 Business Day ☐ Contract
☐ 2 Business Days ☒ Standard
☐ 3 Business Days
☐ Other _____
Rush TAT requires prior notice

Special Reporting Requirements Results: Fax ☐ Email ☐ PDF ☐
Standard QC ☐ Level 3 QC ☐ Level 4 QC ☐ TX TRRP ☐ LA RECAP ☐

Special Detection Limits (specify):

PM review (initial):

	date	time	
1. Relinquished by Sampler: [signature]	11/13/09	0700	2. Received by: Renee Sam
3. Relinquished by: Renee Sam	11/13/09	1615	4. Received by: [signature]
5. Relinquished by:			6. Received by Laboratory:

☐ 8880 Interchange Drive
Houston, TX 77054 (713) 660-0901

☒ 500 Ambassador Caffery Parkway
Scott, LA 70583 (337) 237-4775

☐ 459 Hughes Drive
Traverse City, MI 49686 (231) 947-5777

Groundwater & Environmental Services, Inc.

TEXAS OFFICE

June 28, 2011

RECEIVED
JUN 29 2011
LA DEPT. OF ENV. QUALITY
REMEDIATION SERVICES DIVISION
LOG

FY2011-3627

Mr. Thomas Harris, Administrator
Louisiana Department of Environmental Quality
Underground Storage Tanks and Remediation Division
P.O. Box 4312
Baton Rouge, Louisiana 70821-4312

Re: Risk Evaluation/Corrective Action Program Evaluation
Former Shell No. 142059
2300 S. Acadian Thruway
Baton Rouge, Louisiana 70808
Facility UST I.D. No.: 17-008376
Incident I.D. No.: 86368
Agency Interest No.: 71560

Remediation Services Division
Manager: Blanchard
Team Leader: Karr
AI #: 71560
TEMPO Task #:
Desk Copy File Room: USF

Dear Mr. Harris:

As consultant for Shell Oil Products US (SOPUS), Groundwater & Environmental Services, Inc. (GES) herein submits three copies of the Risk Evaluation/Corrective Action Program (RECAP) Evaluation for the above-referenced site.

If you should have any questions or comments or require additional information, please contact Larry Braud, GES Project Manager at (504) 331-7810 or Mr. Ken Springer, Shell Senior Program Manager at (281) 324-5921.

Sincerely,

GROUNDWATER & ENVIRONMENTAL SERVICES, INC.

Ryan Francis
Associate Geologist

Larry Braud, P.G.
Project Manager

RISK EVALUATION/CORRECTIVE ACTION PROGRAM EVALUATION

FORMER SHELL NO. 142059
2300 S. ACADIAN THRUWAY
BATON ROUGE, LOUISIANA
FACILITY UST I.D. NO.: 17-008376
INCIDENT I.D. NO.: 86368
AGENCY INTEREST NO.: 71560

RECEIVED
JUN 29 2011
LA DEPT. OF ENVIRONMENTAL QUALITY
REMEDIATION SERVICES DIVISION
LOG #

Remediation Services Division
Manager:
Team Leader:
AI #:
TEMPO Task #:
Desk Copy File Room:

Risk Evaluation/Corrective Action Program Report

Former Shell Branded Service Station #142059
2300 South Acadian Thruway
Baton Rouge, East Baton Rouge Parish, Louisiana
AGENCY INTEREST NO. 71560

Prepared for:

Shell Oil Products US
P.O. Box 1087
Huffman, Texas 77336-1087

Prepared by:

Groundwater & Environmental Services, Inc.
307 France Street, Suite B
Baton Rouge, Louisiana 70802

June 26, 2011

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EXECUTIVE SUMMARY

A Risk Evaluation/Corrective Action Program (RECAP) Evaluation has been completed for the Former Shell Branded Service Station #142059 located at 2300 S. Acadian Thruway in Baton Rouge, Louisiana. Groundwater & Environmental Services, Inc. (GES), for Shell oil Products US (SOPUS) on behalf of Motiva Enterprises, LLC (Motiva), prepared the evaluation in accordance with the Louisiana Department of Environmental Quality (LDEQ) RECAP dated October 20, 2003. The evaluation utilized data gathered during site investigations conducted by the previous consultants for the site, Conestoga-Rovers & Associates (CRA) and URS Corporation in 2006 and 2009, respectively, along with the Input Parameter Form submitted by Delta Consultants in 2010. Additional groundwater data was collected by GES in accordance with the *Groundwater Sampling Work Plan Proposal and RECAP Extension Request* dated April 26, 2011. A summary of RECAP Evaluation findings follows:

- **Reason for Investigation and RECAP Evaluation** – GES' evaluation was conducted to assess the site in accordance with LDEQ's October 20, 2003 RECAP document as directed by the LDEQ/Underground Storage Tanks Division in correspondence dated October 22, 2010.
- **Site Characteristics** - The site is located at 2300 S. Acadian Thruway, Baton Rouge, East Baton Rouge Parish, Louisiana. The approximate 0.47-acre site is an active retail gasoline facility. Three USTs are present in the UST hold in the northwest corner of the property.
- **Site Status** - Active retail gasoline station with car wash.
- **Release Source** - The source of the release is unknown. Hydrocarbon constituent concentrations above RECAP Table 1 Limiting Screening Standards were discovered in 2006 during a Phase II Environmental Site Assessment conducted for due diligence prior to a property transaction.
- **Soil Type** - The soils encountered at the site are described as predominantly clay and silt overlying silty sand.
- **Highest Concentrations in all Impacted Media** - Analytical results following all field work activities indicated that there were petroleum hydrocarbon constituent concentrations remaining in surface soil and groundwater above the RECAP Screening Option Screening Standards (SO SS). Three constituents in surface soil had concentrations that exceeded the limiting surface soil RECAP SO SS. The maximum total petroleum hydrocarbons-gasoline range organics (TPH-GRO) concentration is 728 milligrams per kilogram (mg/kg), the maximum benzene concentration is 0.468 mg/kg and the maximum tert-butyl alcohol (TBA) concentration is 10.4 mg/kg. Surface soil constituents that were detected at concentrations above the SO SS were evaluated under the RECAP Management Option-1 (MO-1) and then under MO-2 as needed.

  Analytical results from groundwater samples collected during the groundwater sampling investigations indicated concentrations of eight petroleum hydrocarbon constituents above the RECAP SO SS. The maximum benzene concentration was 5.8 milligrams per liter (mg/L), the maximum ethylbenzene concentration was 2.43 mg/L, the maximum methyl tert-butyl ether (MTBE) concentration was 1.12 mg/L, the maximum diisopropyl ether (DIPE) concentration was 1.34 mg/L, the maximum ethyl tert-butyl ether (ETBE) concentration was 0.153 mg/L, the maximum tert-amyl methyl ether (TAME) concentration was 0.22 mg/L, the maximum TBA concentration was 41 mg/L, and the maximum TPH-GRO concentration was 87.3 mg/L. The groundwater constituents that were detected at concentrations above the SO SS were evaluated under the RECAP MO-1 and then under MO-2 as needed.

- **Free Product Conditions** – Non-aqueous phase liquids (NAPL) were not encountered in any of the soil borings or monitor wells at this site.
- **Potential and/or Affected Receptors** - Potential receptors identified in the immediate vicinity of the site include underground utilities adjacent to the site.
- **Problem Evaluation** – Based on the findings this RECAP Evaluation, GES recommends that a corrective action plan (CAP) be developed for this site.

Recap Form 1
RECAP Submittal Summary

A COMPLETED RECAP SUBMITTAL SUMMARY FORM SHALL BE INCLUDED AS THE FIRST PAGE OF THE RECAP SUBMITTAL.

1. Agency Interest Name: Former Shell Branded Service Station #142059
2. AI#: 71560
3. Name of Area of Investigation: AOI-1
4. Facility Owner Name: Circle K
5. Facility Owner Mailing Address: 25 W. Cedar Street, Pensacola, FL 32502
6. Responsible Party Name: Shell Oil Products US
7. Facility Operator Mailing Address: 25 W. Cedar Street, Pensacola, FL 32502
8. Facility Physical Address: 2300 S. Acadian Thruway, Baton Rouge, LA
9. Parish: East Baton Rouge Parish
10. Latitude/Longitude of Primary Facility Entrance: 30°25'33"N/91°09'03"W
11. Latitude/Longitude Method: Topographic Mapping Software
12. Facility Contact Person: Ken Springer
13. Facility Contact Person's Phone Number: (281) 324-5921
14. Facility Contact Person's Mailing Address: P.O. Box 1087, Huffman, TX 77336-1087
15. Facility Contact Person's E-mail Address: kenneth.springer@shell.com
16. Area of Investigation Location: AOI-1 = area encompassing the site store and UST system
17. Area of Investigation Size: 15,600 ft^2
18. Horizontal and Vertical Extent of the Area of Investigation has been identified? [X] Yes [ ] No
19. Describe the Current and Historical Uses of the Property on which the AOI is located and the Time Periods for Each Use/Activity: The site is currently operated as a gasoline retail facility. Prior site use is unknown.
20. Indicate How Release Occurred (if known): Unknown
21. List Constituents Released (if known): Gasoline

22. RECAP Submittal Date: July 26, 2011

23. RECAP Submittal Prepared by: Larry Braud, P.G.

24. RECAP Submittal Preparer's Employer: Groundwater & Environmental Services, Inc.

25. RECAP Submittal Preparer's Phone Number: (504) 331-7810

26. Site Ranking: [ ] Class 1 [ ] Class 2 [X] Class 3 [ ] Class 4

27. Media Impacted:

[X] Surface Soil	[ ] Groundwater 1A	[ ] Surface water
[ ] Potential Surface Soil	[ ] Groundwater 1B	[ ] Sediment
[ ] Subsurface Soil	[ ] Groundwater 2A	[ ] Biota
	[ ] Groundwater 2B	
	[ ] Groundwater 2C	
	[X] Groundwater 3A	
	[ ] Groundwater 3B	
	[ ] Groundwater Classification Unknown	

28. Is soil present at 0-3 ft bgs impacted? [ ] Yes [X] No

29. Release volume: Unknown

30. Is NAPL Present? [ ] Yes [X] No

31. Aquifer: 112 SESC – S.E. LA AQ. System Surficial Confining Unit

(a) Distance from AOC/AOI to the nearest downgradient property boundary: 0 feet
(b) Distance from AOC/AOI to the nearest downgradient surface water body: 115 feet

(c) Depth from known contamination to the nearest Groundwater Classification 1 aquifer: ~385 feet

(d) If a GW 1 or 2 aquifer, distance from POC to nearest downgradient drinking water wells: N/A

32. Distance from known contamination to nearest enclosed occupied structure: ~15 feet

33. Depth Groundwater First Encountered: ~ 6 feet below ground surface

34. Distance from POC to POE: 115 feet

35. Dilution Factor Applied: 4.1 DF3

36. Fractional Organic Carbon Content: 0.0069

37. Current Land Use: [ ] Non-Industrial [X] Industrial NAICS: 44711

38. Potential Future Land Use: [ ] Non-Industrial [X] Industrial NAICS: 44711

39. Is There Offsite Contamination? [ ] Yes [X] No

(a) If Yes, Land Use Offsite: [ ] Non-Industrial [ ] Industrial NAICS:
(b) If Yes, Identify the Landowner(s), Lessee(s), and/or Servitude Holder(s):

40. Management Option(s) Applied at the AOI: [X] SO [X] MO-1 [X] MO-2 [ ] MO-3

41. Provide documentation that the AOI meets the criteria for the Option implemented: See Section 5.1.2 of this submittal

42. Current Status of the AOI: N/A

(a) The AOI will be further evaluated under: [ ] MO-1 [ ] MO-2 [ ] MO-3.

(b) Medium for further evaluation: _____

(c) Exceedances:

43. The AOI will be remediated under: [ ] SO [ ] MO-1 [ ] MO-2 [ ] MO-3.

(a) Medium requiring remediation: NA
(b) Corrective Action Standards: [ ] Non-industrial [X] Industrial
(c) Institutional Controls Are Proposed? [ ] Yes [X] No [ ] Institutional Controls Already Present
(d) Interim Corrective Actions Have Been Performed? [ ] Yes [X] No [ ] Not Applicable
(e) If yes, explain.

44. Exceedances and Corrective Action Standards to be applied:

Surface Soil:

COC	**[X] AOIC** **[ ] CC**	**[ ] LSS** **[ ] MO-1 LRS** **[ ] MO-2 LRS** **[ ] MO-3 LRS** **[ ] Alternate MO-3 RS**

Groundwater:

COC	**[ ] AOIC** **[X] CC**	**[ ] LSS** **[ ] MO-1 LRS** **[ ] MO-2 LRS** **[ ] MO-3 LRS** **[ ] Alternate MO-3 RS**

45. All constituent concentrations in all impacted media:

[X] comply with the applicable RECAP standards; **or**

[ ] have been remediated to the applicable RECAP; **or**

[ ] alternate remediation standards and a NFA-ATT determination is being requested **and**:

(a) RECAP Standards Applied: [ ] Non-industrial [ ] Industrial
(b) There are institutional controls on this property: [ ] Yes [ ] No
(c) If yes, type of institutional control employed: _____
(d) If applicable, the conveyance notice has been filed with the _____ (parish) Clerk of Court noting that the AOI was closed under industrial standards.

46. RECAP Standards Applied at the AOI:

Medium: Surface Soil

COC	[X] AOIC [ ] CC	[ ] LSS [X] MO-1 LRS [X] MO-2 LRS [ ] MO-3 LRS [ ] Alternate Standards
Benzene	0.468	0.53
TPH-GRO	728	1,000
TBA	10.4	2,788

Medium: Groundwater

COC	[ ] AOIC [X] CC	[ ] LSS [X] MO-1 LRS [X] MO-2 LRS [ ] MO-3 LRS [ ] Alternate Standards
Benzene	1.2	5.72
Ethylbenzene	2.43	33.21
MTBE	1.12	2,255
TPH-GRO	87.3	127.1
DIPE	1.34	7.79
ETBE	0.153	1.353
TAME	0.22	217.3
TBA	41	1,025

47. Provide documentation that the AOIC and/or CC will continue to comply with the applicable standard: See RECAP Evaluation presented herein.

48. If groundwater was impacted, provide a description of aquifer use and list the locations and depths of the nearest drinking water supply wells: See Sections 3.3 and 4.3 as well as Figure 3, Appendix A of this submittal.

49. Provide: (a) a description of the remedial actions implemented; (b) verification that the source has been removed/mitigated and that residual constituent concentrations comply with the LSS or LRS; and (c) a discussion on the offsite disposal of investigation and remediation wastes including types, quantities, disposal location, etc.

(a) No interim corrective action has been implemented;
(b) The source of release has not been determined. The fuel storage and dispensing system in use at the site is in compliance with UST regulations. See RECAP Evaluation for development of LRS and comparisson to constituent concentrations; and
(c) Waste soil and water generated for previous assessments was removed as documented in the various assessment reports. Purge water genreated during recent well sampling event has been containerized in a 55-gallon steel drum and will be properly disposed.

50. If applicable, discuss monitoring well plugging and abandonment: N/A

51. Is There a Current or Potential Ecological Impact? [ ] Yes [X] No

1.0 SITE HISTORY

1.1 PREVIOUS LAND USE

The site was utilized as a Shell gasoline retail facility from an unknown date until December 2006 when the site was sold to Circle K. Circle K has operated the site as a gasoline retail facility since December 2006 to the present.

1.2 CURRENT LAND USE

The site is currently operated by Circle K Stores, Inc. as an active retail gasoline facility. The site is located at 2300 S. Acadian Thruway, Baton Rouge, East Baton Rouge Parish, Louisiana. A site location map showing the location of the site is presented as **Figure 1, Appendix A.**

The site is located on the west side of S. Acadian Thruway immediately north of the intersection of S. Acadian Thruway and Interstate I-10 as shown on **Figure 1, Appendix A.** The site is bordered on the north and west by parking lots, to the south by T.J. Ribs Restaurant, and to the east by S. Acadian Thruway. A surrounding land use map is included as **Figure 2, Appendix A.** Surrounding sensitive receptors, including registered water wells within a one-mile radius of the site, are included as **Figure 3, Appendix A.**

The store building is situated in the central portion of the site, the underground storage tank (UST) hold is located in the northwest portion of the site, and the dispenser islands are to the east and west of the store building. A total of three (3) USTs are present on the site in the UST hold. The site is entirely paved with concrete. A detailed site plan of the facility is presented as **Figure 4, Appendix A.**

1.3 UNDERGROUND STORAGE TANKS

Three (3) 10,000-gallon gasoline USTs were installed at the site in April 1983 and are currently active.

1.4 FUTURE LAND USE

No change in the property's current use is anticipated.

1.5 ZONING OF SITE

According to the City of Baton Rouge Office of the Planning Commission, the site is zoned C-2, Commercial. The land use in the area is primarily commercial and residential. Pertinent information concerning the surrounding area land use is depicted on **Figure 2, Appendix A**.

1.6 DESCRIPTION OF RELEASE AND PREVIOUS SITE INVESTIGATIONS

On February 22, 2006, Conestoga-Rovers & Associates (CRA) completed a divestment initial subsurface investigation (DISI), on behalf of Motiva, at the current Circle K #2709730 and former Shell Retail Store No. 142059 located at 2300 South Acadian Thruway in Baton Rouge, Louisiana. The DISI may be found in the LDEQ Electronic Database Management System (EDMS) under document number 5483824. During the investigation, five soil exploration borings (SB-1 through SB-5) were installed. Analytical results from this investigation indicated elevated benzene levels at SB-4 in the soil and shallow groundwater, which was located

northwest of the underground storage tank (UST) hold. On October 26, 2006, Response Action Contractor (RAC) work at the site was transitioned from CRA to URS Corporations (URS) by Shell, on behalf of Motiva. On May 8, 2008, the Louisiana Department of Environmental Quality (LDEQ) requested to Shell that a limited groundwater investigation in the immediate vicinity of SB-4 be performed based on the MO-2 groundwater standard calculated for another facility within a one-mile radius of the site. On September 30, 2008, URS submitted a remedial investigation work plan to the LDEQ on behalf of Shell. This work plan was approved by the LDEQ on December 22, 2008. URS performed the site work on January 28, 2009 and submitted the report to the LDEQ on March 11, 2009 (EDMS doc. #6333738).

The LDEQ reviewed the report and requested, in correspondence dated May 29, 2009, that additional investigation of the groundwater at the site be conducted to ascertain the concentration of benzene currently present in the shallow groundwater by installing a permanent monitor well and also installing a recovery well for future use. The LDEQ also requested that a slug test be conducted to determine a site-specific yield to assist in the risk assessment process at the site through the LDEQ's RECAP program. The additional groundwater investigation work plan was submitted by URS, on behalf of Motiva, on July 17, 2009. The LDEQ approved this work plan on September 28, 2009. URS performed the site work on November 9-13, 2009 and submitted the report to the LDEQ on December 15, 2009 (EDMS doc. #6134236).

Delta Consultants (Delta) assumed environmental consulting responsibilities and submitted a RECAP Input Parameter Form at the request of Shell, on behalf of Motiva, on August 13, 2010 (EDMS doc. #6800931). The LDEQ approved this Input Parameter Form in correspondence dated October 22, 2010.

On October 1, 2010, Response Action Contractor (RAC) work at the site was transitioned from Delta to Groundwater & Environmental Services, Inc. (GES) by Shell, on behalf of Motiva.

On April 26, 2011, GES submitted a Groundwater Sampling Work Plan to further evaluate inconsistent dissolved benzene concentrations at co-located wells SB-4/SB-4A/RW-1. The proposal was approved by LDEQ on May 11, 2011 and the results incorporated into this RECAP Evaluation.

2.0. EMERGENCY/INTERIM CORRECTIVE ACTION

The petroleum hydrocarbon impact at the site did not create an immediate threat to health or the environment. No emergency/interim corrective action has been conducted at the site.

3.0 INVESTIGATION DESCRIPTION

3.1 SAMPLE COLLECTION AND SCREENING RATIONALE

The investigation activities at the site were conducted to assess the extent of hydrocarbon impact in the soil and groundwater. The samples collected were analyzed for hydrocarbon indicator compounds and hydrocarbon mixtures.

CRA conducted the initial field work at the site and filed the notification of unauthorized release in April 2006. URS was subsequently contracted by Shell to act as the environmental consultant for the project and conducted two groundwater investigations at the site in January and November 2009. No field work was conducted by the subsequent consultant, Delta. GES implemented the Groundwater Sampling Work Plan in May of 2011.

3.2 SOIL BORING AND MONITOR WELL PLACEMENT

Soil borings/temporary monitoring wells SB-1 through SB-5 were installed near the UST pit and dispensers for a Phase II Environmental Site Assessment (ESA) conducted for due diligence preceding a property transaction. Temporary monitoring well SB-4A was installed at the direction of LDEQ to further evaluate conditions detected at SB-4. Permanent monitoring wells MW-1 and RW-1 were also installed at the direction of LDEQ to further evaluate conditions detected during the previous investigations.

The soil boring/monitor well locations, along with other pertinent features, are shown on **Figure 4, Appendix A.**

3.2.1 DRILLING AND SOIL SAMPLING

Specific details regarding drilling previous site investigation activities can be found in the reports and correspondence listed below that were previously submitted by CRA, URS, and Delta.

- *Unauthorized Discharge Notification Report,* April 11, 2006 (EDMS doc. #5483824);
- *Limited Groundwater Investigation Report,* March 11, 2009 (EDMS doc. #6333738);
- *Limited Groundwater Investigation Report,* December 15, 2009 (EDMS doc. #6134236) and;
- RECAP Input Parameter Form Submittal, August 13, 2010 (EDMS doc. #6800931).

Details of the soils encountered during sampling activities, along with initial groundwater measurements, are included on soil boring logs in the URS report dated December 15, 2009 (EDMS doc. #6134236), and shown on the soil cross-sections. The soil cross-section location map is included as **Figure 5** and the cross-sections A-A' and B-B' are included as **Figures 6 and 7, respectively, in Appendix A.**

A summary of the soil analytical laboratory results from previous investigations that were utilized in this evaluation are summarized in **Table 1, Appendix B**. The distribution of soil concentrations are depicted on **Figures 8 & 9, Appendix A**. Previous soil analytical laboratory reports and chain-of-custody records were included in the reports and correspondence listed above.

3.2.2 MONITOR WELL CONSTRUCTION AND DEVELOPMENT

Construction details, including monitor well cross sections, for wells MW-1 and RW-1 were included in the *Limited Groundwater Investigation Report,* submitted December 15, 2009 (EDMS doc. #6134236).

3.2.3 ELEVATION SURVEY

The vertical elevations of the ground surface and top-of-casing at each well location have been surveyed and recorded in elevations relative to mean sea level (**Table 2, Appendix B**).

3.2.4 GROUNDWATER MEASUREMENTS AND SAMPLING

CRA collected the initial groundwater samples from five temporary wells installed in soil borings SB-1 through SB-5 during the DISI conducted on February 22, 2006. Groundwater samples were collected from an additional temporary well, SB-4A, during site investigation activities conducted by URS on January 28, 2009. URS again mobilized to the site in November 2009 and installed two permanent wells MW-1 and RW-1. Groundwater samples were collected from these wells on November 12, 2009. The groundwater sampling events are detailed in the following reports:

- *Unauthorized Discharge Notification Report,* April 11, 2006 (EDMS doc. #5483824);
- *Limited Groundwater Investigation Report,* March 11, 2009 (EDMS doc. #6333738); and
- *Limited Groundwater Investigation Report,* December 15, 2009 (EDMS doc. #6134236).

On April 26, 2011, GES submitted a Groundwater Sampling Work Plan to further evaluate inconsistent dissolved benzene concentrations at co-located wells SB-4/SB-4A/RW-1. The proposal was approved by LDEQ on May 11, 2011 and the results incorporated into this RECAP Evaluation.

A summary of the groundwater analytical laboratory results from previous investigations that were utilized in this evaluation are summarized in **Table 3, Appendix B**. The distribution of groundwater concentrations are depicted on **Figures 10 & 11, Appendix A**. Previous groundwater analytical laboratory reports and chain-of-custody records were included in the reports and correspondence listed above. The field sampling data sheet, analytical laboratory report and chain-of-custody records for the Groundwater Sampling Work Plan implemented by GES are included in **Appendix F**.

3.2.5 INVESTIGATION DERIVED WASTE

All investigation derived waste has been removed from the site.

3.3 GEOLOGY/HYDROLOGY DISCUSSION

3.3.1 REGIONAL GEOLOGY

Surface soils of the terrace are commonly silty clays derived from loess (wind blown deposits) with fine grained clays and clayey silts with lenses of fine sands which are typical of the alluvial sediments that compose the majority of the terrace deposits. The shallow sediments overlie several hundred feet of earlier Pleistocene alluvium and deltaic deposits composed of 20 to 200 feet thick, relatively continuous and interconnected, sand strata separated by clay horizons. These are in turn underlain by many thousand feet of Tertiary aged and older fluvial, deltaic and marine sediments that dip and thicken to the south.

3.3.2 REGIONAL GROUNDWATER CHARACTERISTICS

The groundwater resources in the Baton Rouge area are divided into a shallow zone composed of Holocene and Pleistocene alluvial deposits and a deeper zone composed of older Pleistocene through Miocene sand strata. The water bearing units of the shallow zone consist of discontinuous sandy strata that generally exhibit low potential for groundwater production because of low permeabilities, small areal extent and variable water quality. The deeper groundwater zone consists of numerous productive aquifers developed in the Pleistocene through older Miocene sand strata, beginning with the 400-foot depth aquifer and continuing at intervals down to approximately 2,800 feet. The uppermost aquifer of concern is the "400-foot" aquifer, which occurs at the uppermost, widespread, Pleistocene sand and is a main source of groundwater for industrial use in the area. The "400-foot" aquifer sands typically occur at approximately 400 feet below the ground surface and range from 100 to 300 feet in thickness. The "400-foot" aquifer is underlain by equivalents of the "600-foot" and deeper sands from the north Baton Rouge area. The aquifers deeper than 1,200 feet are sources for municipal drinking water and industrial uses.

The information presented in this section is derived from the inspection of USGS topographic maps of the area, the Geologic Map of Louisiana by J. Snead and R. McCulloh (1984); the Louisiana Hydrologic Atlas Map No. 2, U.S. Geological Survey Water-Resources Investigations Report 86-4150, (1986) by C.W. Smoot; Ground-Water conditions in the Baton Rouge Area 1954-59, Water Resources Bulletin No. 2, by C.O. Morgan (1961); and Maps of the "400-foot," "600-foot," and Adjacent Aquifers and Confining Beds, Baton Rouge Area, Louisiana, Water Resources Technical Report No. 48, by E.K. Kuniansky, D.C. Dial, and D.A. Trudeau (1989).

A survey of registered water wells within a one-mile radius of the site was conducted. The survey indicated 66 water wells within the area. Of those, 29 are registered as monitor wells, 22 are registered as piezometers, 8 are registered as multiple purpose observation, 3 are registered as heat pump hole, 2 are registered as water level observation, 1 is registered as environmental recovery, and 1 is registered as domestic. A 7.5 minute quadrangle map showing the locations of the registered water wells within a one-mile radius of the site is included as **Figure 3, Appendix A**.

3.3.3 AREA OF CONCERN SOIL AND GROUNDWATER CHARACTERISTICS

In general, the soils encountered during previous investigations at the site were described as clay and silty clay overlying a layer of silty sand to the maximum depth of exploration at 27 ft below ground surface (bgs). A cross-section location map and soil cross-sections showing the site lithology are presented as **Figures 5, 6, and 7 Appendix A**, respectively.

Only two permanent monitor wells have been installed at the site and therefore a potentiometric map of the groundwater elevations cannot be produced using site-specific information. However, the trend of groundwater as measured in 1994 at the Chevron Service Station located across the street (2302 S. Acadian Thruway, AI #20620) is generally west to northwest (groundwater flow information gathered from EDMS doc. #565416). The monitor well water level data are presented in **Table 2, Appendix B**.

3.3.4 AQUIFER TEST RESULTS

Slug testing for the determination of hydraulic conductivity was conducted in monitoring well MW-1 by URS on November 12, 2009. The URS report dated December 15, 2009 (EDMS doc.

#6134236) indicates that the slug utilized during the testing was 2.9 feet long, approximately 1.2 inches in diameter, an occupied a volume of approximately 0.164 gallons. The testing was conducted as a slug-in and a slug-out test by quickly inserting and removing the slug from the well, respectively. It was determined that the slug-out test provided the best data for use in calculation of the hydraulic conductivity. During the tests, data was recorded in displacement in feet over time for the duration of the water level recovery period. The hydraulic conductivity (K) values were calculated by the Bouwer-Rice method as determined from a well test recovery versus time graph with the commercially available software application AQTESOLV. The K value used was 7.132×10^{-5} feet/minute or 0.1207 ft/day.

The potential well yield from the zone of the investigation was estimated with the Cooper and Jacob modification of the Theis equation. The calculation using the average K value of 0.1207 feet/day is presented in the URS report. The results show a well yield of approximately 115 gallons per day (gpd) can be expected from the site.

3.3.5 GROUNDWATER CLASSIFICATION

In accordance with the 2003 LDEQ RECAP document, groundwater at the site is designated as Classification 3A Non Drinking Water based on the following: 1) there is no current or potential use of the shallow groundwater at the site based on water use in the area from the LDOTD water well survey; 2) the maximum attainable yield from the stratum is less than 800 gpd based on the slug test data (see EDMS doc. #6134236); 3) and groundwater would potentially discharge to a water body that is not used as a drinking water supply. The surface water body is discussed in Section 5.4.

3.4 CONSTITUENTS OF CONCERN DISTRIBUTION

The potential constituents of concern (COCs) for soil and groundwater at the site have been identified as the applicable gasoline-related petroleum hydrocarbon constituents listed in Table D-1, Appendix D of the RECAP document: total petroleum hydrocarbons-gasoline range organics (TPH-GRO), benzene, toluene, ethylbenzene, xylenes, and methyl tert-butyl ether (MTBE). Additional potential COCs have been identified by SOPUS as diisopropyl ether (DIPE), ethyl tert-butyl ether (ETBE), tert-amyl methyl ether (TAME), and tert-butyl alcohol (TBA). (See **Tables 1, 3, and 4, Appendix B**).

Analyses of soil samples collected during site investigations identified three COCs with concentrations in surface soil above RECAP Table 1 Limiting Screening Standards (LSS): benzene, TPH-GRO, and TBA (see **Table 1, Appendix B**). The COC concentrations are depicted on **Figures 8 and 9, Appendix A**.

Analyses of groundwater samples identified eight COCs with concentrations above the LSS: benzene, ethylbenzene, MTBE, TPH-GRO, DIPE, ETBE, TAME, and TBA (see **Tables 3, Appendix B**). The COC concentrations from the most recent groundwater sampling event are depicted on **Figures 10 and 11, Appendix A**.

3.5 OFF-SITE IMPACT

Based on the results of the investigations, soil and groundwater analytical data confirm there is no off-site hydrocarbon impact.

3.6 OFF-SITE SOURCES

A survey of the area immediately surrounding the site indicated no potential off-site sources of petroleum hydrocarbon compounds in groundwater or soils.

3.7 UNUSUAL CONDITIONS OR FINDINGS

No unusual conditions or findings were noted during the investigation activities.

4.0 MIGRATION PATHWAYS AND SENSITIVE RECEPTORS

4.1 CONTAMINANT MIGRATION PATHWAYS

The release at the site was to the surface soil and groundwater. Possible man-made pathways for exposure to the COCs exist at the site including underground utility corridors. Potential natural pathways for exposure include soil and groundwater vapor, contact with surface soil, leaching of soil to groundwater, and groundwater migration to surface water bodies. Exposure routes from soils and groundwater include dermal contact, ingestion, and inhalation of outdoor vapors.

4.2 BIOLOGICAL RECEPTORS

Natural receptors include groundwater, soil, surface water bodies near the site, and air. The release has impacted soil and groundwater and there is a potential pathway to air due to the volatility of the released constituents. The nearest surface water body is the Dawson Creek located approximately 115 feet west of the site. It is not likely that surface water would be impacted by groundwater migrating from the site due the limited extent of the soil and groundwater impact and low permeability of typical native soils.

4.3 MAN-MADE RECEPTORS

Based on water well survey information obtained from the LDOTD Water Resources Section, there are 66 active water wells registered within a one-mile radius of the site. The locations of the active water wells are presented on the Sensitive Receptor Map, **Figure 3, Appendix A**. Their classifications are discussed in Section 3.3.1.

5.0 RECAP EVALUATION RESULTS

5.1 GENERAL

This RECAP Evaluation utilized data gathered during the 2006 through 2009 site investigations, the 2010 input parameter form and recent groundwater re-sampling at RW-1. The RECAP Evaluation was used to evaluate the AOIs for compliance with RECAP standards calculated using the October 2003 RECAP document. A summary of the pertinent site RECAP information is presented in the RECAP submittal summary (RECAP Form 1) which is included as Page iv of this submittal. The AOI has been identified and is illustrated on the site plan included as **Figure 4, Appendix A**.

5.1.1 SITE RANKING AND JUSTIFICATION

In accordance with the LDEQ RECAP, the site ranking was selected based on the ranking system in Standard Guide for Risk-Based Corrective Action at Petroleum Release Sites (ASTM E 1739-95). On the scale of one to four, with four being the lowest in urgency of response action required to protect human health and the environment, the site receives a ranking of three since it does not present a long-term threat to human health, safety or sensitive environmental receptors.

The ranking is justified on the basis of:

1) Shallow impacted soils and shallow groundwater are not present in significant quantities and are not accessible due to the presence of concrete over the majority of the site;
2) The shallow groundwater is not used for potable water anywhere in the city; and
3) Potential for human contact with surface soils is non-existent because the surface is largely covered by grass or concrete pavement.

5.1.2 RECAP OPTION(S) IDENTIFICATION

The site was evaluated under the RECAP Screening Option Screening Standard (SO SS), RECAP Appendix I Evaluation, RECAP Management Option-1 (MO-1) and RECAP Management Option-2 (MO-2). The following information is furnished to demonstrate applicability for site evaluation using these options:

- A non-industrial exposure evaluation is proposed. Area of Investigation (AOI-1) is within a commercial area and no sensitive subpopulations exist on the site. An industrial evaluation is appropriate for current site usage. The non-industrial evaluation is proposed at the request of the site owner in order to determine the applicability of site closure without the hindrance of institutional controls.
- The potential for human exposure is limited to exposure pathways via ingestion, outdoor inhalation from volatilization from the soil and groundwater, and dermal contact with impacted soil. Exposure pathways via surface water are virtually non-existent.
- Soil and groundwater impacted with volatile constituents are not documented to exist near the existing enclosed structure (store building) at the site. The potential pathway of soil and groundwater vapor to an enclosed structure has, therefore, not been evaluated.
- The area of impacted soil is less than 0.5 acre.
- NAPL is not present at the site.

- High fugitive dust emissions are not present due to the presence of surface pavement and grass cover over most of the site.
- Based on the relatively flat topography and presence of surface pavement over a large portion of the site, the potential for impact to any surface water via runoff is virtually non-existent. In addition, impact to biota is similarly non-existent.
- The potential for discharge of COCs to surface water via a groundwater discharge from the AOI is virtually non-existent due to the low permeability of soils at the site and the distance to the nearest surface water body from the site (approximately 115 feet).
- There are no unusual current or future site conditions that may affect exposure potential at the site.

5.1.3 PREVIOUS RECAP ASSESSMENT RESULTS

No previous RECAP evaluations have been completed at the site.

5.2 DATA EVALUATION/USABILITY

The analytical laboratory data generated during CRA and URS site investigations have been evaluated to determine if the data could be used for risk assessment purposes. In accordance with RECAP investigation requirements, laboratory data was generated using EPA-approved analytical methods, sample quantitation limits were within acceptable limits, and blank Quality Assurance/Quality Control (QA/QC) samples were provided periodically to assess field and/or laboratory contamination. Based on this review, the data is considered acceptable for use in this RECAP evaluation. An analytical data evaluation (RECAP Form 3) is included in **Appendix C**.

5.3 AOI IDENTIFICATION

Based on the findings from the site work, one Area of Investigation (AOI) consisting of all sample locations that exhibit constituent concentrations above SO SS values as discussed in Section 5.6.1 has been identified. A figure showing the proposed boundaries of the AOI is presented as **Figure 4, Appendix A**.

AOI-1 is irregular in shape and encompasses the majority of the site including the store building, dispensers, and tank hold. AOI-1 includes the locations of all soil borings and monitor wells. A comparison of the COC concentrations to the LRS is discussed in Section 5.6.6. The surface area of AOI-1 is approximately 7,200 ft^2.

5.4 POC AND POE

The point of compliance (POC) is a sampling location where the groundwater protection standard is enforced and at which reproducible and representative samples can be withdrawn. The point of exposure (POE) for sites where groundwater is classified as 3A is the nearest downgradient surface water body. However, the direction of groundwater flow has never been evaluated at the site. The trend of groundwater as measured at the Chevron Service Station located across the street (2302 S. Acadian Thruway, AI #20620) in 1994 is generally west to northwest (groundwater flow information gathered from EDMS doc. 565416.) This coincides with the direction to the nearest surface water body, Dawson Creek, at a distance of approximately 115 feet west of the nearest POC, monitoring well RW-1.

5.5 DEVELOPMENT OF A CONCEPTUAL MODEL

The conceptual site model (CSM) developed for the site is presented as **Figure 12, Appendix A.** The model includes identification of all sources, source media, migration pathways, exposure media, exposure points/pathways, and receptors. Current and future land use at the site was considered in developing the CSM. In addition, all applicable standard exposure criteria were used based on the MO-1 and M)-2 management options.

5.5.1 ESTIMATION OF THE AREA OF INVESTIGATION CONCENTRATIONS AND COMPLIANCE CONCENTRATIONS

The area of investigation concentration (AOIC) for soils at the site has been determined in accordance with RECAP requirements and is presented in **Table 4, Appendix B**, for AOI-1. The AOICs for soils represent the highest measured concentrations of the COCs in soil samples collected from AOI-1. Analytical results for soil samples indicate the zone of petroleum hydrocarbon impact is within the zone of surface soils (0 to 15 ft-bgs).

The compliance concentration (CC) for groundwater is the concentration of each COC in the groundwater at the POC, identified 1 in Section 5.4 as permanent monitoring well RW-1. RW-1 is co-located with former temporary monitoring wells SB-4 and SB-4A near a single point in the northwest quadrant of the Site. The highest dissolved concentration of each COC at the site has been detected in one of these co-located wells. The CCs for groundwater were determined as the highest measured concentrations of the COCs in groundwater samples collected at either of SB-4, SB-4 or RW-1, with the exception of the benzene CC.

The highest dissolved benzene concentration, 5.80 milligrams per liter (mg/L), was detected in the sample collected at temporary monitoring well SB-4A on January 28, 2009. This was significantly higher than the previous benzene concentration of 1.46 mg/L in sample SB-4 collected on February 22, 2006 and the subsequent benzene concentration of 1.2 mg/L in sample RW-1 collected on November 12, 2009. Because the benzene concentrations in samples from SB-4 and RW-1 were consistent with each other, were significantly different from that in SB-4A and the fact that SB-4A was a temporary well set in a direct-push technology (DPT) boring, GES proposed an additional sampling of permanent well RW-1 to confirm its suspicion that the benzene data from SB-4A may be anomalous. RW-1 was re-sampled with LDEQ approval on May 19, 2011 and the concentration detected was 0.800 mg/L. GES believes the SB-4A dissolved benzene data is anomalous and proposes that the benzene concentration at RW-1 in 2009, 1.2 mg/L, be used as the CC for benzene in groundwater.

The CC for the POC is presented in **Table 4, Appendix B**, for AOI-1.

5.6 IDENTIFICATION OF THE RECAP STANDARDS FOR EACH IMPACTED MEDIUM

The LDEQ RECAP SO SS, MO-1 and MO-2 standards were considered in the evaluation of all exposure pathways at AOI-1.

The RS derived for each AOI for each RECAP management option were determined as follows:

5.6.1 SCREENING OPTION

The RECAP SO SS for soil and groundwater at AOI-1 have been determined based on the site land use scenario and a determination of risk-based parameters in accordance with the RECAP document. AOI-1 is considered an industrial facility; however, non-industrial SO SS values applicable for the soil ($Soil\_SS_{ni}$) that are protective of human health been developed at the request of the property owner in order to alleviate the use restrictions required for closure under the industrial scenario.

The $Soil\_SS_{ni}$ were compared with the SS protective of groundwater (Soil_SSGW) and the lowest value was selected as the limiting SS (LSS). The SO SS for soil were taken directly from Table 1 of the RECAP document. The SS for groundwater, GW_SS, were also selected from RECAP Table 1. The SS for the constituents DIPE, ETBE, TAME, and TBA are not provided in RECAP Table 1. For these COCs, the SS previously submitted by URS in their March 11, 2009 *Limited Groundwater Investigation Report* were used.

A comparison of the SO LSS with the AOICs for the soil in AOI-1 (**Table 4, Appendix B**) indicates the following:

- Benzene, TBA, and TPH-GRO exceeded the SO SS in surface soils.

A comparison of the GW_SS with the CC for groundwater in AOI-1 (**Table 4, Appendix B**) indicates the following:

- Benzene, ethylbenzene, MTBE, TPH-GRO, DIPE, ETBE, TAME, and TBA exceeded the SO SS for groundwater.

The COCs whose AOIC or CC was greater than the respective SO LSS values were carried forward to the next tier of evaluation under RECAP MO-1.

5.6.2 IDENTIFICATION OF THE MO-1 RECAP STANDARDS FOR EACH IMPACTED MEDIUM

The RECAP MO-1 RS have been determined with MO-1. The RS are based on the non-industrial site land use scenario and site groundwater classification as previously discussed.

$Soil_{ni}$: The soil standards protective of human health were determined using the following criteria:

- The distance from the POC to the POE, is approximately 115 feet as previously noted;
- A source length of 30 feet;
- Groundwater Classification 3 aquifer; and
- An average foc value of 0.0069.

Based on this information, the initial values for $Soil_{ni}$ were selected from the RECAP Table 2 or developed on the RECAP Appendix H Spreadsheet attached in **Appendix D** as needed for the constituents ETBE, DIPE, TAME and TBA. $Soil_{ni}$ values were made to account for additivity where more than one COC present in the soil elicits non-carcinogenic effects on the same target organ/system. The applicable target organ/systems for each COC are provided in **Table 9, Appendix B**. The $Soil_{ni}$ values were adjusted for additivity to calculate the final MO-1 $Soil_{ni}$ values illustrated in **Table 5, Appendix B**.

$\underline{Soil_{GW3NDW}}$: Initial $Soil_{GW3NDW}$ values for the COCs were determined from the RECAP Table 2 or developed on the attached RECAP Appendix H Spreadsheet as needed for the constituents ETBE, DIPE, TAME and TBA. The S_d (thickness of impacted groundwater) of < 5 feet and distance from POC to POE of 115 feet determines an MO-1 dilution factor (DF3) of 4.1 for AOI-1 as determined from RECAP Section H1.1.2.1. The DF3 was applied to the $Soil_{GW3NDW}$ values to calculate an adjusted $Soil_{GW3NDW}$ RS for each COC as listed in **Table 5, Appendix B**.

$\underline{Soil_{sat}}$: The standard that limits a constituent to its saturation limit in soil ($Soil_{sat}$) was determined from the RECAP Table 2, where applicable, or developed on the attached RECAP Appendix H Spreadsheet as needed for the constituents ETBE, DIPE, TAME and TBA. The $Soil_{sat}$ standards for each COC are listed in **Table 5, Appendix B**.

$\underline{GW_{airni}}$: The standards protective of vapor from groundwater to outdoor air in an industrial setting were selected from the RECAP Table 3 or developed on the attached RECAP Appendix H Spreadsheet as needed for the constituents ETBE, DIPE, TAME and TBA. GW_{airni} values were made to account for additivity if more than one COC present in the groundwater elicits non-carcinogenic effects on the same target organ/system. The values were adjusted for additivity and are listed in **Table 6, Appendix B**.

$\underline{GW_{3NDW}}$: Initial GW_{3NDW} values were selected from the RECAP Table 3 or developed on the attached RECAP Appendix H Spreadsheet as needed for the constituents ETBE, DIPE, TAME and TBA. The DF3 of 4.1 was applied to the GW_{3NDW} values to calculate an adjusted GW_{3NDW} for each COC as shown in **Table 6, Appendix B**.

Water Solubility: The standard that limits a constituent to its solubility in water was selected from the RECAP Table 3 or developed on the attached RECAP Appendix H Spreadsheet as needed for the constituents ETBE, DIPE, TAME and TBA. The MO-1 standards for solubility for AOI-1 are presented in **Table 6, Appendix B**.

Results of Management Option-1 Evaluation: The MO-1 LRS were compared with the AOICs for soil and the CCs for groundwater for AOI-1 on. The results indicate adsorbed TPH-GRO and dissolved benzene concentrations exceed their respective MO-1 LRS and must be evaluated further under MO-2.

5.6.3 IDENTIFICATION OF THE MO-2 STANDARDS FOR EACH IMPACTED MEDIUM IN AOI-1

The RECAP MO-2 RS have been determined based on the non-industrial site land use scenario and site groundwater classification as previously discussed. For the calculation of site-specific MO-2 RS, the attached RECAP Appendix H Spreadsheet was input with geotechnical soil parameters including:

- Dry soil bulk density of 1.7 g/cm^3;
- Total porosity of 0.358491;
- Volumetric moisture content of 0.21;
- Volumetric air content of 0.148491;
- Specific gravity of 2.65; and
- FOC of 0.0069.

The RECAP Appendix H Spreadsheet containing site-specific geotechnical data for the development of MO-2 RS is provided in **Appendix D**.

$Soil_{ni}$: The $Soil_{ni}$ values obtained from the RECAP Appendix H spreadsheet were adjusted for additivity to calculate the final MO-2 $Soil_{ni}$ values illustrated in **Table 7, Appendix B**.

$Soil_{GW3NDW}$: Initial $Soil_{GW3NDW}$ values for the COCs were obtained from the RECAP Appendix H Spreadsheet. A Domenico DAF of 440 was also obtained from the RECAP Appendix H Spreadsheet and applied to the $Soil_{GW3NDW}$ values to calculate an adjusted MO-2 $Soil_{GW3NDW}$ RS for each COC as listed in **Table 7, Appendix B**.

$Soil_{sat}$: $Soil_{sat}$ standards from the RECAP Appendix H Spreadsheet for each COC are listed in **Table 7, Appendix B**.

GW_{airni}: Initial GW_{airni} values were obtained from the RECAP Appendix H Spreadsheet. The values were adjusted for additivity as shown in **Table 8, Appendix B**.

GW_{3NDW}: Initial GW_{3NDW} values were obtained from the RECAP Appendix H Spreadsheet. The Domenico DAF of 440 obtained from the RECAP Appendix H Spreadsheet was applied to the GW_{3NDW} RS values to calculate an adjusted GW_{3NDW} for each COC as listed in **Table 8, Appendix B**.

Water Solubility: The water Solubility standards from the RECAP Appendix H Spreadsheet are presented in **Table 8, Appendix B**.

Results of Management Option-2 Evaluation: The MO-2 LRS were compared with the TPH-GRO AOIC for soil and the benzene CC for groundwater. Both adsorbed TPH-GRO and dissolved benzene concentrations are below their respective MO-2 RS and require no further evaluation. A comparison of site concentrations to their final RECAP RS is presented in **Table 10A, Appendix B**.

5.7 ECOLOGICAL EVALUATION

In accordance with the 2003 RECAP document requirements, an Ecological Checklist was completed for the site in order to make an initial determination of whether an ecological risk assessment would be required. Based on site conditions and the checklist assessment criteria, no additional ecological assessment activities should be required at the site. A copy of the completed Ecological Checklist (RECAP Form 18) is included as **Appendix E**.

6.0 SUMMARY OF FINDINGS

6.1 RELEASE SOURCES

The source of the release is considered to be from the UST system at the site.

6.2 SOIL TYPE

The soils encountered at the site during previous site investigation activities were described as clay overlying silty sand to approximately 27 ft bgs, the maximum depth of exploration.

6.3 HIGH CONCENTRATIONS

Analytical laboratory results for soil samples collected during the historical site investigation activities indicated the highest concentrations of hydrocarbon constituents in soil were detected in samples collected from the portions of the site north of the building and northwest of the tank field including borings SB-3, SB-4, SB-4A, and RW-1. The distribution of the constituents detected in soil is presented as **Figures 8 and 9, Appendix A**.

The highest concentrations of hydrocarbon constituents in groundwater were also detected in samples collected from the portions of the site north of the building and northwest of the tank field. The distribution of the constituents detected in groundwater is presented as **Figures 10 and 11, Appendix A**.

6.4 FREE PRODUCT CONDITIONS

NAPL was not detected in any of the soil borings or monitor wells during the site investigations.

6.5 POTENTIAL AND/OR AFFECTED RECEPTORS

Potential receptors identified in the immediate vicinity of the site include underground utilities adjacent to the site. There are no known affected receptors.

6.6 OFF-SITE IMPACT

The results of the historical site investigations have revealed no off-site impacts as discussed in Section 5.

6.7 OFF-SITE SOURCES

A survey of the area immediately surrounding the site identified no off-site sources of petroleum compounds in groundwater or soil.

6.8 GROUNDWATER CONDITIONS

First-encountered groundwater occurs between 6.1 and 8.08 ft bgs. The groundwater flow direction has not been determined at the site but for this evaluation has been conservatively assumed to flow directly to the nearest surface water body west-northwest of the site. Data collected from the site indicate the groundwater is designated as Classification 3A based on a calculated yield of less than 800 gpd.

7.0 RECOMMENDATIONS

Based on the findings of the RECAP Evaluation, all COC concentrations in soil and groundwater are below site-specific RECAP Standards. Shell Oil Products US, on behalf of Motiva Enterprises, LLC, and GES request No Further Action At This Time (NFA-ATT) status for the site.

8.0 REFERENCES

Louisiana Department of Environmental Quality, Risk Evaluation Corrective Action Program, October 20, 2003

Snead, J. and R. McCulloh, Geologic Map of Louisiana, 1984.

SIGNATURE PAGE

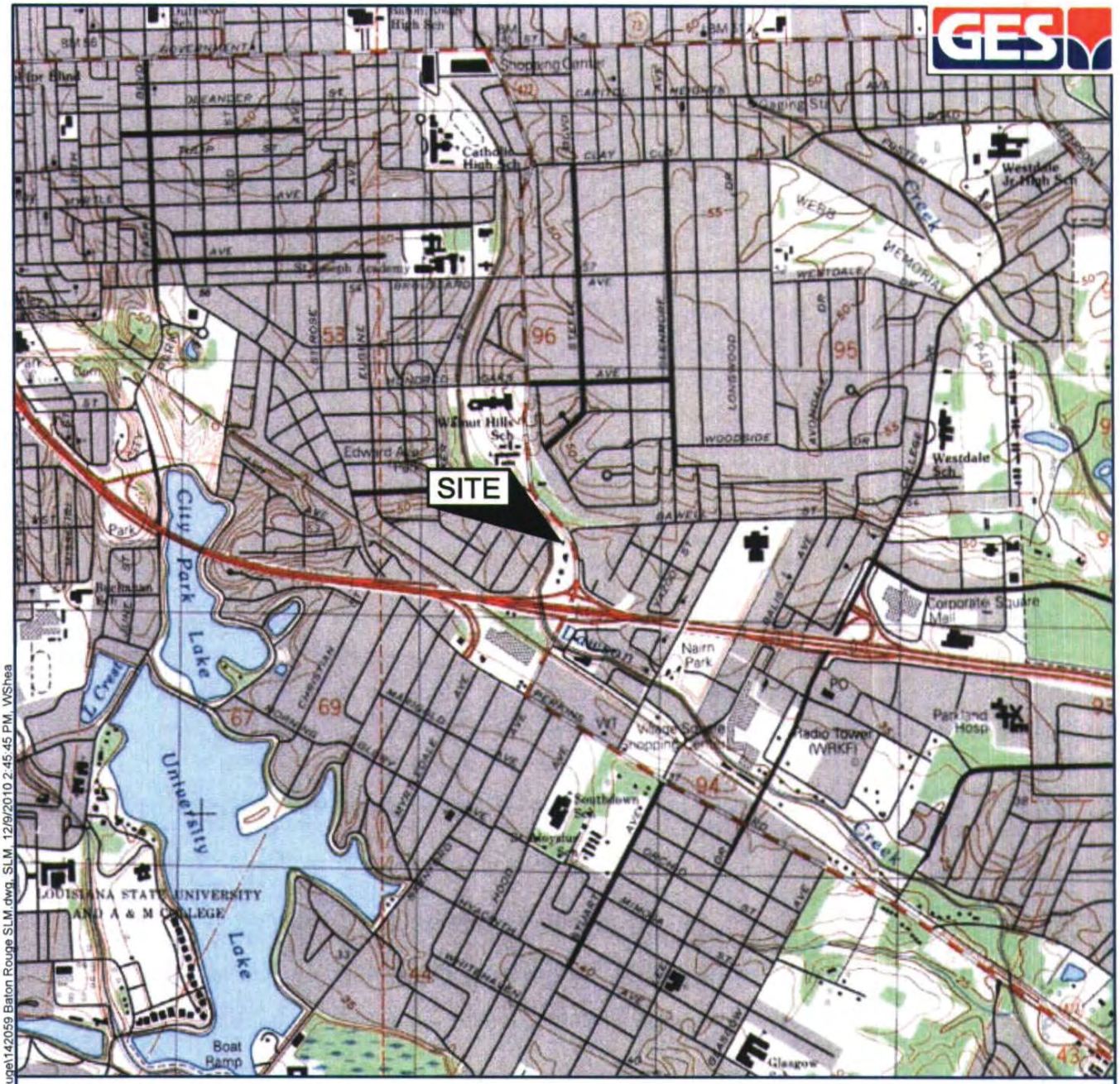
The following Groundwater & Environmental Services, Inc. employees prepared the RECAP Evaluation Report for Former Shell Retail Store No. 142059, located at 2300 South Acadian Thruway in Baton Rouge, East Baton Rouge Parish, Louisiana, dated June 2011.

Larry Braud, P.G.
Project Manager

Ryan Francis
Associate Geologist

APPENDIX A

FIGURES



SOURCE: USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1992
BATON ROUGE WEST, LOUISIANA
CONTOUR INTERVAL = 5'

QUADRANGLE LOCATION

COORDINATES
LAT. 30° 25' 34.85"
LONG. 91° 09' 03.35"

DECIMAL EQUIVALENT
LAT. ---
LONG. ---

STATE PLANE
Y 700678.17
X 3338280.21

DRAFTED BY: W.G.S. (N.J.)	SITE LOCATION MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802

SCALE IN FEET	DATE	FIGURE
0 2000	12-9-10	1

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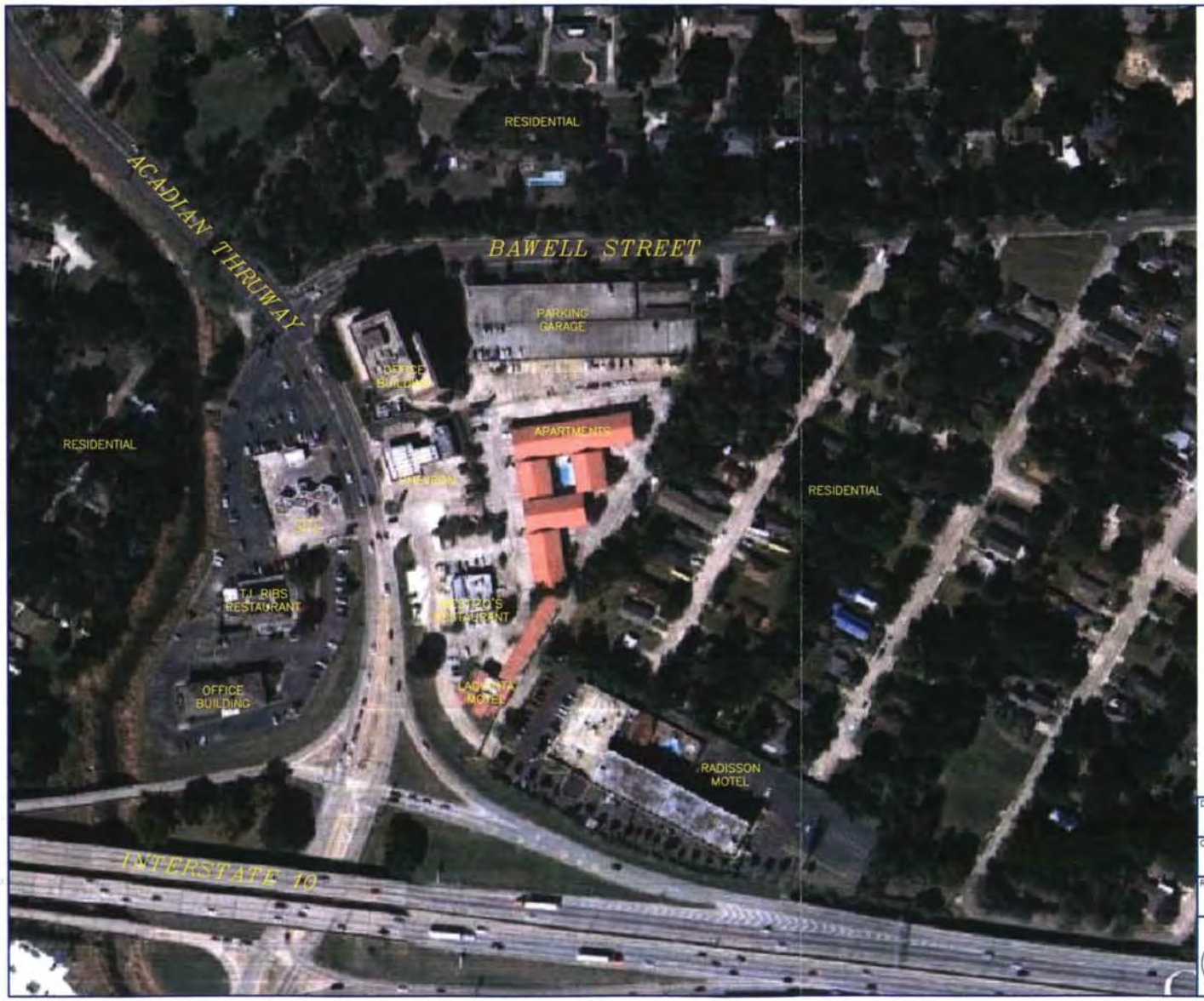

GES

DRAFTED BY: W.G.S. (N.J.)	LOCAL AREA MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 200 / DATE: 12-9-10 / FIGURE: 2

M:\Graphics\3600-Houston\05-Louisiana\Shell\142059 Baton Rouge\142059 Baton Rouge LAM.dwg, B., 12/9/2010 3:09:27 PM, WShea

LOCAL WELL #	LATITUDE	LONGITUDE	OWNERS NAME	WELL DEPTH	DATE COMPLETED	GEOLOGIC UNIT	DRILLER	DATE REGISTERED	CASING DIA	CASING MATERIAL	SCREEN INTERVAL	NUMBER	USE DESCRIPTION
734	302551	910859	RAMSEY, J	504	1960	11204BR	HERRINGTON	NA	2	METAL	484-504	NA	domestic
94842	302534	910904	SHELL OIL	27	11/09	00000000	URS CORPORATION	01/10	4	PLASTIC	17-27	RW-1	environmental recovery
53542	302536	910912	PUEA, WAYNE	250	11/85	11200WVM	ROUYEA'S	12/85	NA	NA	NA	NA	heat pump hole
55972	302537	910953	CHERBLOUSK, M.S.	200	07/87	11200WVM	ECONOMY	06/87	NA	NA	NA	NA	heat pump hole
56352	302555	910854	LEA, MAXWELL	250	01/88	11200WVM	ROUYEA'S	02/88	NA	NA	NA	NA	heat pump hole
157	302541	910914	BATES, C	1552	06/42	12115BR	EBERHART	NA	6X4	STEEL	1510-1552	NA	irrigation
61962	302512	910830	CHEVRON	12	05/89	112SESC	LAYNE (LA)	07/89	4	PLASTIC	2-12	1	monitor
61962	302512	910830	CHEVRON	12	05/89	112SESC	LAYNE (LA)	07/89	4	PLASTIC	2-12	1	monitor
61262	302514	910818	STAR ENTERPRISE	18	03/89	112SESC	LAYNE (LA)	04/89	4	PLASTIC	1-18	MW-14	monitor
60842	302515	910824	TEXACO	15	01/89	112SESC	PSI/PTL	03/89	4	PLASTIC	1-15	MW-6	monitor
60852	302515	910824	TEXACO	15	01/89	112SESC	PSI/PTL	03/89	4	PLASTIC	1-15	MW-7	monitor
60812	302515	910824	TEXACO	15	01/89	112SESC	PSI/PTL	03/89	4	PLASTIC	1-15	MW-3	monitor
60822	302515	910824	TEXACO	15	01/89	112SESC	PSI/PTL	03/89	4	PLASTIC	1-15	MW-4	monitor
60832	302515	910824	TEXACO	15	01/89	112SESC	PSI/PTL	03/89	4	PLASTIC	1-15	MW-5	monitor
61232	302515	910817	STAR ENTERPRISE	18	03/89	112SESC	LAYNE (LA)	04/89	4	PLASTIC	1-18	MW-8	monitor
61252	302515	910817	STAR ENTERPRISE	18	03/89	112SESC	LAYNE (LA)	04/89	4	PLASTIC	1-18	MW-10	monitor
65042	302517	910820	CHILIS RESTAURA	35	06/90	112SESC	CUSTOM CORING	07/90	2	PLASTIC	20-35	MW-1	monitor
65052	302517	910820	CHILIS RESTAURA	20	06/90	112SESC	CUSTOM CORING	07/90	2	PLASTIC	5-20	MW-2	monitor
87482	302519	910824	BATON ROUGE, LA	48	09/03	112PLSC	PROFESSIONAL	09/03	2	PLASTIC	43-48	PH-08	monitor
72342	302522	910901	J & S POOL PRO	12	12/93	112MRVAC	GROUNDWATER	01/94	2	PLASTIC	2-12	MW-1	monitor
73172	302525	910822	RACETRAC PETRO	20	05/94	112SESC	SOIL TESTING	06/94	2	PLASTIC	10-20	MW-10	monitor
73182	302525	910822	RACETRAC PETRO	20	05/94	112SESC	SOIL TESTING	06/94	2	PLASTIC	10-20	MW-11	monitor
56362	302530	910902	CHEVRON	11	02/88	112SESC	PSI/PTL	02/88	4	PLASTIC	1-11	MW-3	monitor
94852	302534	910904	SHELL OIL	27	11/09	00000000	URS CORPORATION	01/10	4	PLASTIC	NA	MW-1	monitor
63022	302536	910815	RACETRAC PETRO	20	10/89	112SESC	EUSTIS	11/89	2	PLASTIC	10-20	MW-89-1	monitor
63032	302536	910815	RACETRAC PETRO	18	10/89	112SESC	EUSTIS	11/89	2	PLASTIC	8-18	MW-89-2	monitor
63042	302536	910815	RACETRAC PETRO	17	10/89	112SESC	EUSTIS	11/89	2	PLASTIC	7-17	MW-89-3	monitor
65442	302538	910812	TEXACO	14	10/90	112SESC	PSI/PTL	11/90	4	PLASTIC	2-15	MW-3	monitor
54582	302601	910941	SOUTHLAND CORP	16	12/86	112SESC	IT CORPORATION	12/86	4	PLASTIC	5-15	MW-1	monitor
54592	302601	910941	SOUTHLAND CORP	16	12/86	112SESC	IT CORPORATION	12/86	4	PLASTIC	6-16	MW-2	monitor
54802	302601	910941	SOUTHLAND CORP	16	12/86	112SESC	IT CORPORATION	12/86	4	PLASTIC	6-16	MW-3	monitor
54812	302601	910941	SOUTHLAND CORP	18	12/86	112SESC	IT CORPORATION	12/86	4	PLASTIC	8-18	MW-4	monitor
66322	302609	910913	EXXON CO USA	33	12/90	112SESC	CCI	03/91	4	PLASTIC	18-33	MW-1	monitor
66332	302609	910913	EXXON CO USA	35	12/90	112SESC	CCI	03/91	4	PLASTIC	20-35	MW-2	monitor
66342	302609	910913	EXXON CO USA	31	12/90	112SESC	CCI	03/91	4	PLASTIC	16-31	MW-3	monitor
823	302509	910858	LA WTR RESOURCE	582	08/87	11204BR	STAMM-SCHEELE	NA	2	METAL	574-582	ST ALO1	multiple purpose observation
760A	302509	910827	U S GEOL SURVEY	1622	03/85	12112BR	SUMMERS, D.K.	NA	4	METAL	1617-1622	NA	multiple purpose observation
760B	302509	910827	U S GEOL SURVEY	1913	03/85	12115BR	SUMMERS, D.K.	NA	2	METAL	1903-1913	NA	multiple purpose observation
779	302509	910827	U S GEOL SURVEY	2586	03/85	12220BR	SUMMERS, D.K.	NA	4X2.50	METAL	2581-2586	NA	multiple purpose observation
761	302535	910904	U S GEOL SURVEY	2266	04/85	12220BR	SUMMERS, D.K.	NA	4X2.50X2	METAL	2260-2266	NA	multiple purpose observation
782A	302535	910904	U S GEOL SURVEY	1189	04/85	12110BR	SUMMERS, D.K.	NA	4	METAL	1184-1189	NA	multiple purpose observation
782B	302535	910904	U S GEOL SURVEY	1681	04/85	12115BR	SUMMERS, D.K.	NA	4X4X4	METAL	1676-1681	NA	multiple purpose observation
917	302614	910830	U S GEOL SURVEY	1736	10/73	12115BR	SUMMERS BROS	NA	4X2.50	METAL	1731-1736	NA	multiple purpose observation
89462	302503	910949	BR PUBLIC WORKS	24	01/05	112MRVAC	PROFESSIONAL	04/05	2	PLASTIC	19-24	T03-62	piezometer
89742	302510	910858	BR PUBLIC WORKS	43	02/05	112PLSC	PROFESSIONAL	06/05	2	PLASTIC	38-43	T03-61	piezometer
89722	302512	910948	BR PUBLIC WORKS	25	03/05	112MRVAC	PROFESSIONAL	06/05	2	PLASTIC	20-25	T03-55	piezometer
89672	302512	910852	BR PUBLIC WORKS	47	03/05	112PLSC	PROFESSIONAL	06/05	2	PLASTIC	42-47	T03-51	piezometer
89702	302514	910852	BR PUBLIC WORKS	31	02/05	112SESC	PROFESSIONAL	06/05	2	PLASTIC	26-31	T03-30	piezometer
89732	302518	910945	BR PUBLIC WORKS	28	03/05	112MRVAC	PROFESSIONAL	06/05	2	PLASTIC	21-28	T03-58	piezometer
89852	302520	910947	BR PUBLIC WORKS	46	03/05	112PLSC	PROFESSIONAL	06/05	2	PLASTIC	41-46	T03-26	piezometer
89012	302520	910838	BR PUBLIC WORKS	46	01/05	112PLSC	PROFESSIONAL	03/05	2	PLASTIC	41-46	T03-23	piezometer
88872	302524	910848	BR PUBLIC WORKS	56	01/05	112PLSC	CAPOZZOLI	02/05	2	PLASTIC	51-56	T03-121	piezometer
88882	302527	910847	BR PUBLIC WORKS	58	01/05	112PLSC	CAPOZZOLI	02/05	2	PLASTIC	51-56	T03-120	piezometer
89482	302529	910926	BR PUBLIC WORKS	42	03/05	112SESC	PROFESSIONAL	04/05	2	PLASTIC	37-42	T03-59	piezometer
89432	302530	910943	BR PUBLIC WORKS	36	02/05	112PLSC	PROFESSIONAL	04/05	2	PLASTIC	31-36	T03-49	piezometer
89442	302530	910935	BR PUBLIC WORKS	41	03/05	112MRVA	PROFESSIONAL	04/05	2	PLASTIC	36-41	T03-51	piezometer
89422	302531	910946	BR PUBLIC WORKS	41	02/05	112MRVA	PROFESSIONAL	04/05	2	PLASTIC	36-41	T03-48	piezometer
89712	302533	910958	BR PUBLIC WORKS	49	02/05	112MRVA	PROFESSIONAL	06/05	2	PLASTIC	44-49	T03-45	piezometer
89362	302537	910905	BR PUBLIC WORKS	27	03/05	112SESC	CAPOZZOLI	04/05	2	PLASTIC	22-27	T03-114	piezometer
89062	302538	910840	BR PUBLIC WORKS	42	02/05	112PLSC	CAPOZZOLI	03/05	2	PLASTIC	37-42	T03-117	piezometer
89232	302542	910959	BR PUBLIC WORKS	20	03/05	112MRVAC	CAPOZZOLI	04/05	2	PLASTIC	15-20	T03-38	piezometer
89372	302544	910913	BR PUBLIC WORKS	31	03/05	112SESC	CAPOZZOLI	04/05	2	PLASTIC	26-31	T03-112	piezometer
88952	302547	910848	BR PUBLIC WORKS	56	01/05	112PLSC	CAPOZZOLI	02/05	2	PLASTIC	54-56	T03-106	piezometer
88962	302555	910848	BR PUBLIC WORKS	56	01/05	112PLSC	CAPOZZOLI	03/05	2	PLASTIC	53-58	T03-107	piezometer
88942	302610	910848	BR PUBLIC WORKS	51	02/05	112PLSC	CAPOZZOLI	03/05	2	PLASTIC	46-51	T03-103	piezometer
824	302553	910920	LA WTR RESOURCE	581	08/87	11204BR	STAMM-SCHEELE	NA	2	METAL	575-581	CATHOLIC E	water level observation
825	302553	910920	LA WTR RESOURCE	475	08/87	11204BR	STAMM-SCHEELE	NA	2	METAL	469-475	CATHOLIC L	water level observation

LEGEND

★ SITE

Well Location (Approximate)

Well Use Description

- domestic
- environmental recovery
- heat pump hole
- irrigation
- monitor
- multiple purpose observation
- piezometer
- water level observation

Buffer Distance from Site

- 1/2 mile
- 1 mile

SOURCE

USGS 7.5 MINUTE SERIES
TOPOGRAPHIC QUADRANGLE 1992
BATON ROUGE WEST, LOUISIANA
CONTOUR INTERVAL = 5'

SITE COORDINATES

LOUISIANA STATE PLANE SOUTH
NAD83 COORDINATES:
X = 3338280.21
Y = 700678.17

APPROXIMATE SITE COORDINATES
LATITUDE 30° 25' 34.85"
LONGITUDE 91° 09' 03.35"

DRAFTED BY: D.L.O. (N.J.)
CHECKED BY:
REVIEWED BY:

WELL LOCATION MAP

SHELL STATION # 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, LOUISIANA

NORTH

Groundwater & Environmental Services, Inc.
307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802

SCALE IN FEET: 0 — 2,000

DATE: 12-8-10

FIGURE: 3

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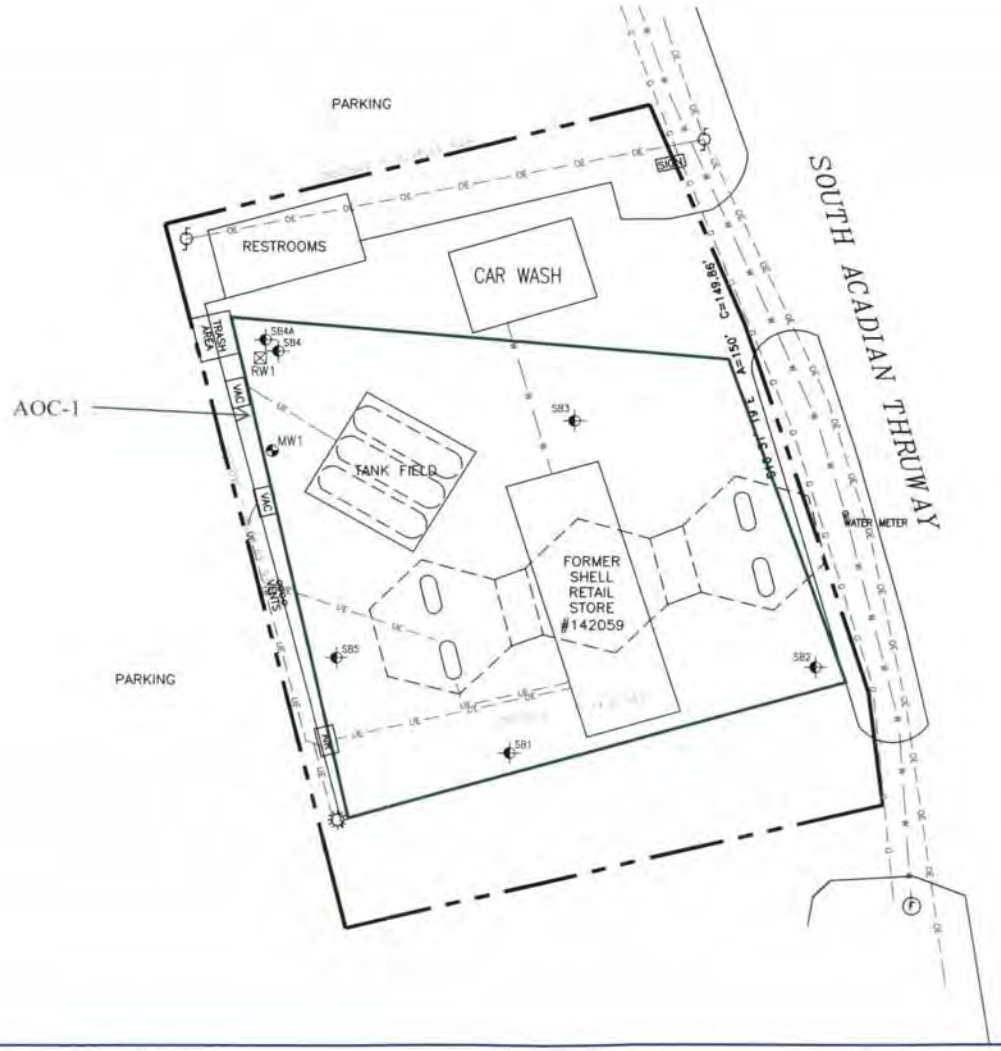

LEGEND

- PROPERTY BOUNDARY
- LIGHT POLE
- UTILITY POLE
- DISPENSER ISLAND
- FIRE HYDRANT
- MONITORING WELL
- RECOVERY WELL
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- SOIL BORING

DRAFTED BY: W.G.S. (N.J.)	SITE MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 12-9-10 / FIGURE: 4

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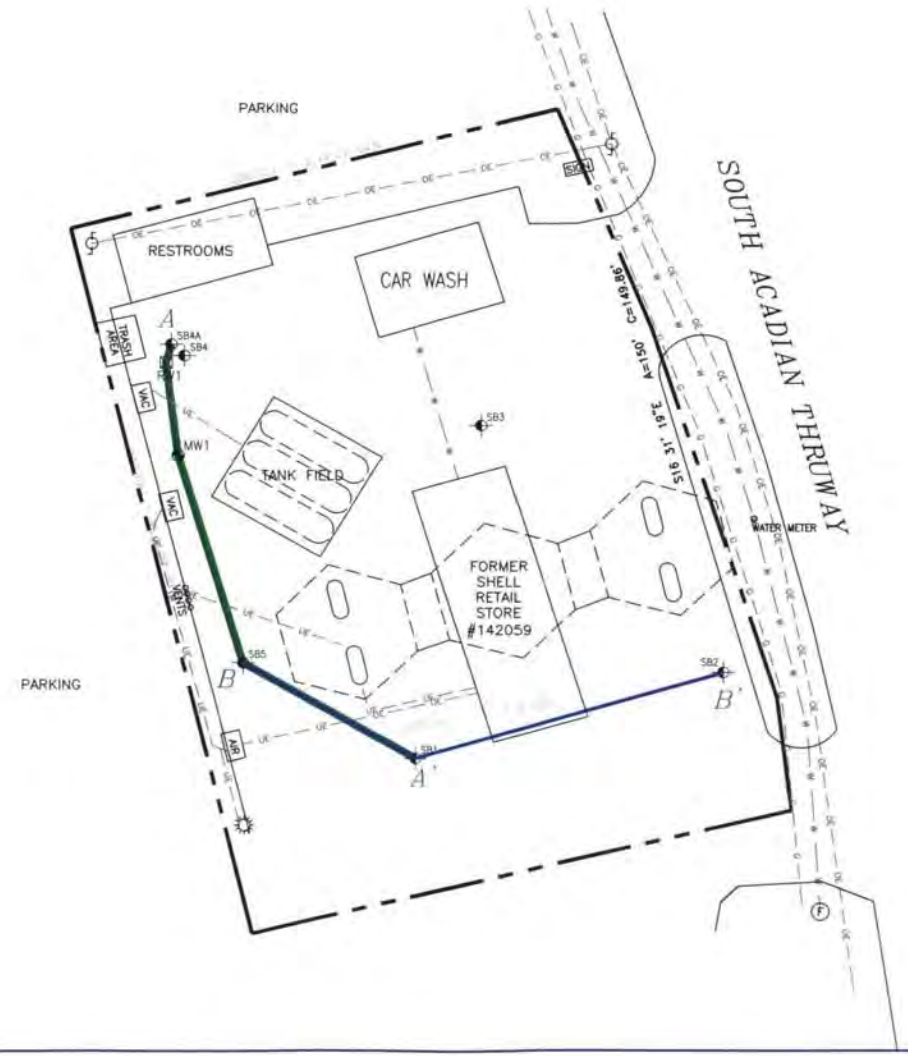

LEGEND

- PROPERTY BOUNDARY
- LIGHT POLE
- UTILITY POLE
- DISPENSER ISLAND
- FIRE HYDRANT
- MONITORING WELL
- RECOVERY WELL
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- SOIL BORING

DRAFTED BY: W.G.S. (N.J.)	CROSS SECTION LOCATION MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 12-9-10 / FIGURE: 5

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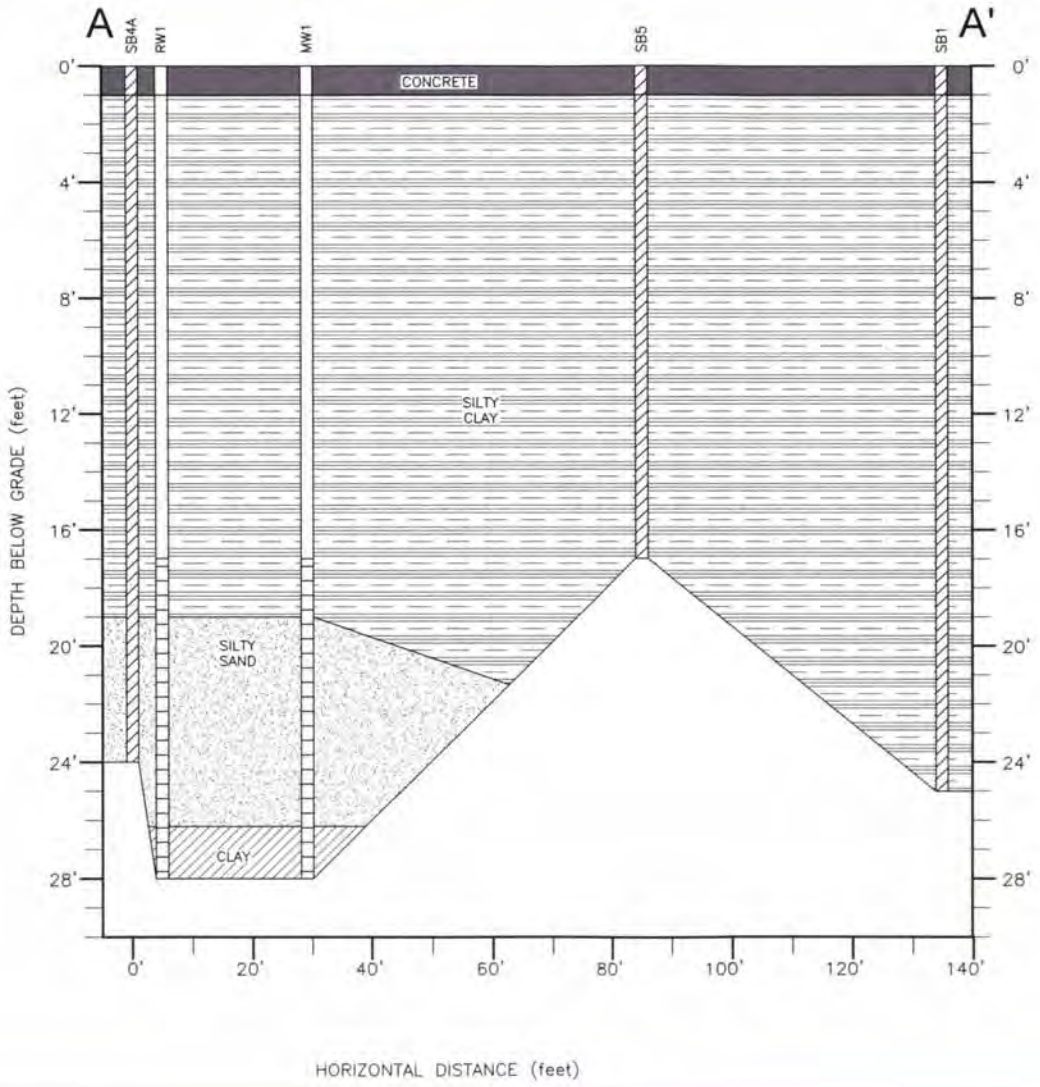

LEGEND

RISER

SCREENED INTERVAL

SOIL BORING

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION A-A'
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802

SCALE IN FEET	DATE	FIGURE
HORIZONTAL 1" = 20' VERTICAL 1" = 4'	12-13-10	6

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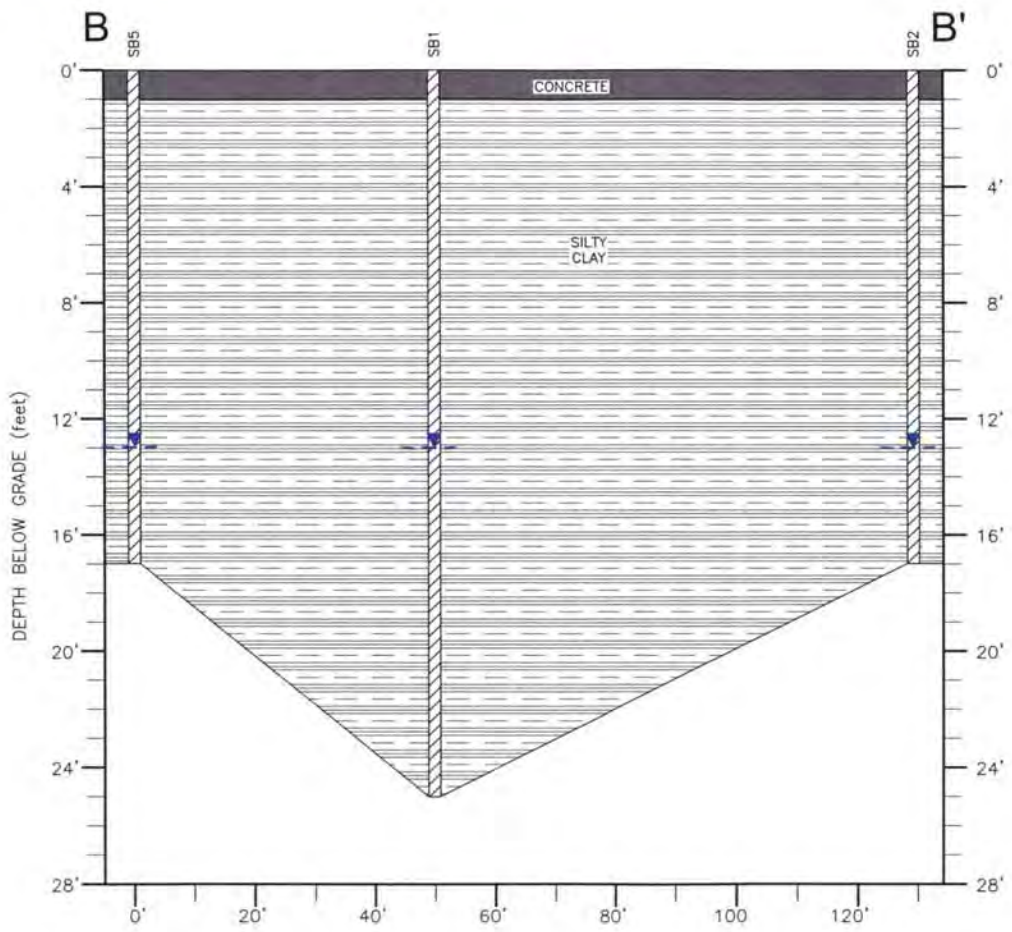

LEGEND

RISER

SCREENED INTERVAL

SOIL BORING

STATIC WATER LEVEL (FEBRUARY 22, 2006)

DRAFTED BY: W.G.S. (N.J.)	CROSS-SECTION B-B'
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802

SCALE IN FEET		DATE	FIGURE
HORIZONTAL	1" = 20'	12-13-10	7
VERTICAL	1" = 4'		

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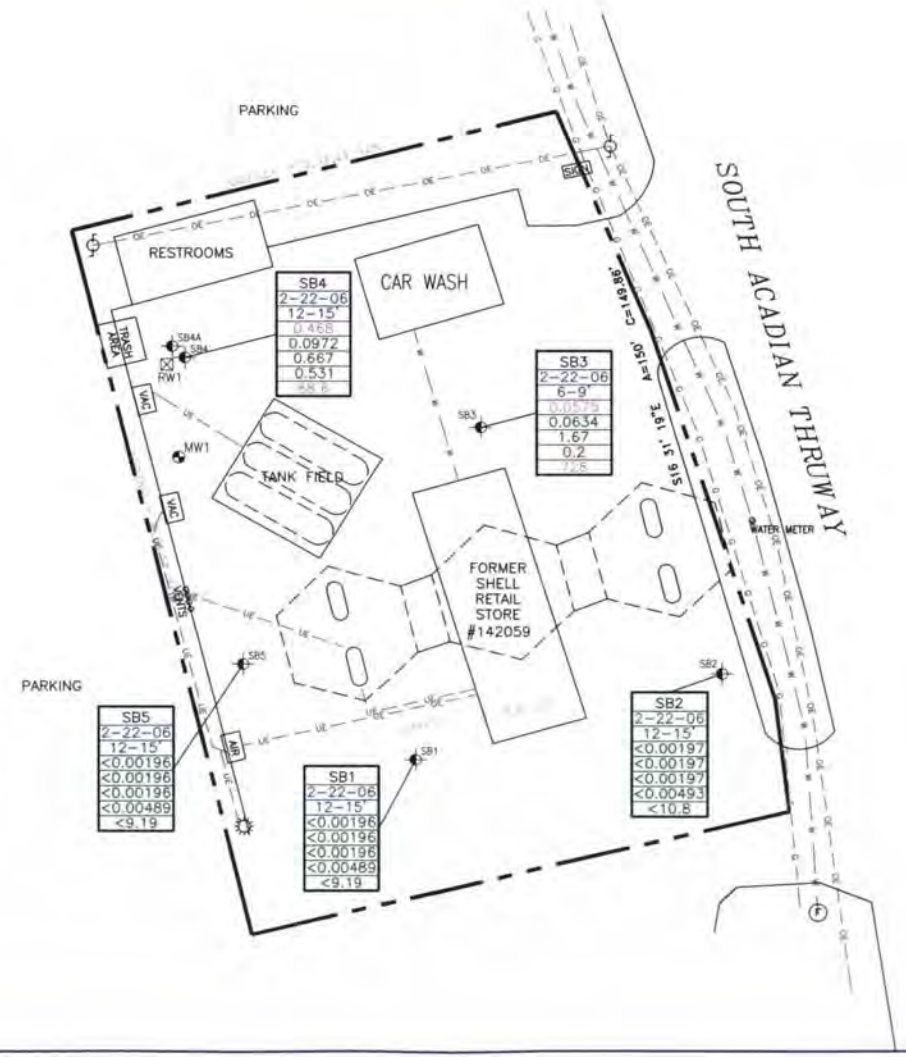

LEGEND

- PROPERTY BOUNDARY
- LIGHT POLE
- UTILITY POLE
- DISPENSER ISLAND
- FIRE HYDRANT
- MONITORING WELL
- RECOVERY WELL
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- SOIL BORING

SB1	SAMPLE IDENTIFICATION
2-22-06	SAMPLE DATE
12-15'	SAMPLE DEPTH (feet)
<0.00196	BENZENE CONCENTRATION (mg/kg)
<0.00196	TOLUENE CONCENTRATION (mg/kg)
<0.00196	ETHYLBENZENE CONCENTRATION (mg/kg)
<0.00489	XYLENES CONCENTRATION (mg/kg)
<9.19	TPH-GRO CONCENTRATION (mg/kg)

mg/kg MILIGRAMS PER KILOGRAM
TPH TOTAL PETROLEUM HYDROCARBONS
GRO GASOLINE RANGE ORGANICS
<# WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN

NOTE:

CONCENTRATIONS SHADED PURPLE EXCEED LDEQ SS.

DRAFTED BY: W.G.S. (N.J.)	SOIL COC MAP (BTEX)
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 12-13-10 / FIGURE: 8

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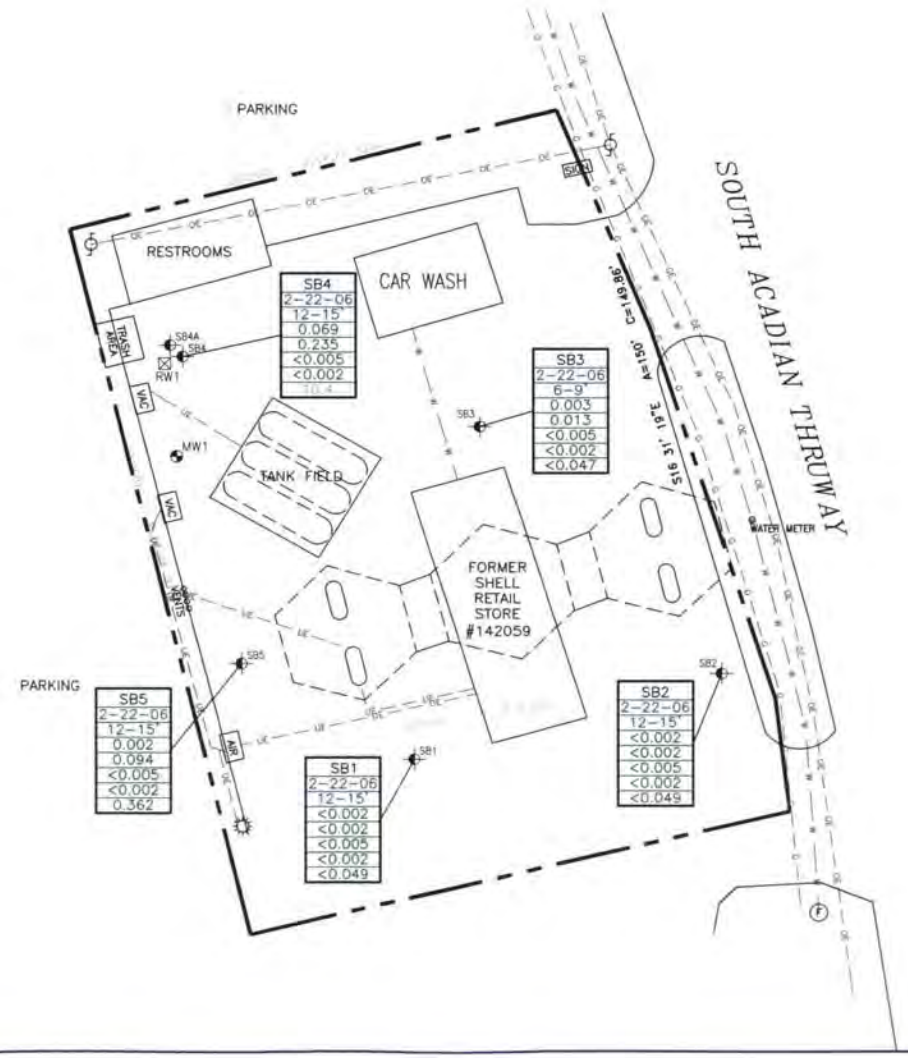

LEGEND

— — —	PROPERTY BOUNDARY
	LIGHT POLE
	UTILITY POLE
	DISPENSER ISLAND
F	FIRE HYDRANT
	MONITORING WELL
	RECOVERY WELL
UE	UNDERGROUND ELECTRIC LINE
W	UNDERGROUND WATER LINE
G	UNDERGROUND GAS LINE
OE	OVERHEAD ELECTRIC
	SOIL BORING

SB1	SAMPLE IDENTIFICATION
2-22-06	SAMPLE DATE
12-15'	SAMPLE DEPTH (feet)
<0.002	MTBE CONCENTRATION (mg/kg)
<0.002	DIPE CONCENTRATION (mg/kg)
<0.005	ETBE CONCENTRATION (mg/kg)
<0.002	TAME CONCENTRATION (mg/kg)
<0.049	TBA CONCENTRATION (mg/kg)

mg/kg	MILIGRAMS PER KILOGRAM
MTBE	METHYL *tert*-BUTYL ETHER
DIPE	DIISOPROPYL ETHER
ETBE	ETHYL *tert*-BUTYL ETHER
TAME	*tert*-AMYL METHYL ETHER
TBA	*tert*-BUTYL ALCOHOL
<#	WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN

NOTE:

CONCENTRATIONS SHADED PURPLE EXCEED LDEQ SS.

DRAFTED BY: W.G.S. (N.J.)	SOIL COC MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 12-13-10 / FIGURE: 9

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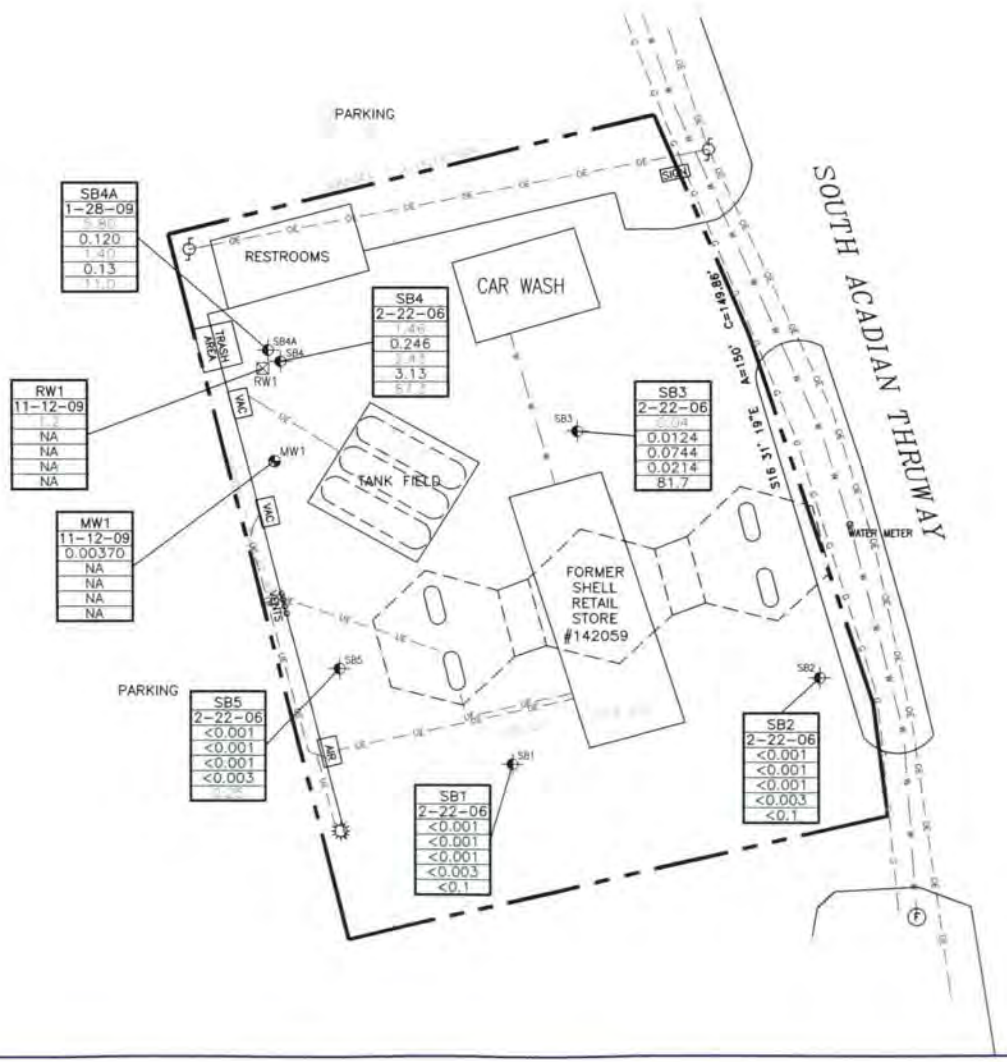


LEGEND

- PROPERTY BOUNDARY
- LIGHT POLE
- UTILITY POLE
- DISPENSER ISLAND
- FIRE HYDRANT
- MONITORING WELL
- RECOVERY WELL
- UNDERGROUND ELECTRIC LINE
- UNDERGROUND WATER LINE
- UNDERGROUND GAS LINE
- OVERHEAD ELECTRIC
- SOIL BORING

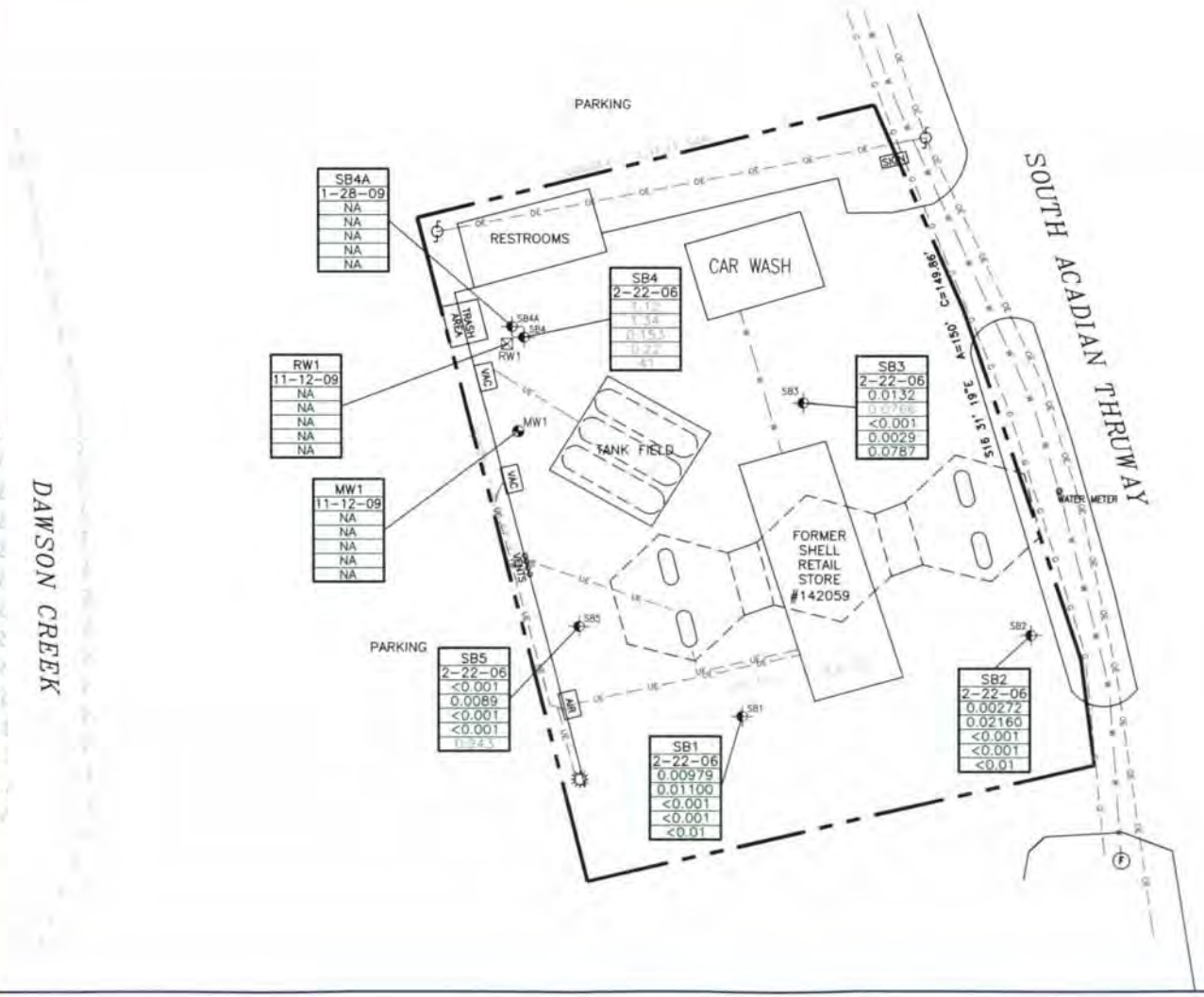
SB1	SAMPLE IDENTIFICATION
2-22-06	SAMPLE DATE
<0.001	BENZENE CONCENTRATION (mg/L)
<0.001	TOLUENE CONCENTRATION (mg/L)
<0.001	ETHYLBENZENE CONCENTRATION (mg/L)
<0.003	XYLENES CONCENTRATION (mg/L)
<0.1	TPH-GRO CONCENTRATION (mg/L)

- mg/L — MILIGRAMS PER LITER
- TPH — TOTAL PETROLEUM HYDROCARBONS
- GRO — GASOLINE RANGE ORGANICS
- <# — WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN

NOTE:

CONCENTRATIONS SHADED PURPLE EXCEED LDEQ SS.

DRAFTED BY: W.G.S. (N.J.)	GROUNDWATER COC MAP (BTEX)
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802
NORTH	SCALE IN FEET: 0 APPROXIMATE 30 / DATE: 12-9-10 / FIGURE: 10



LEGEND

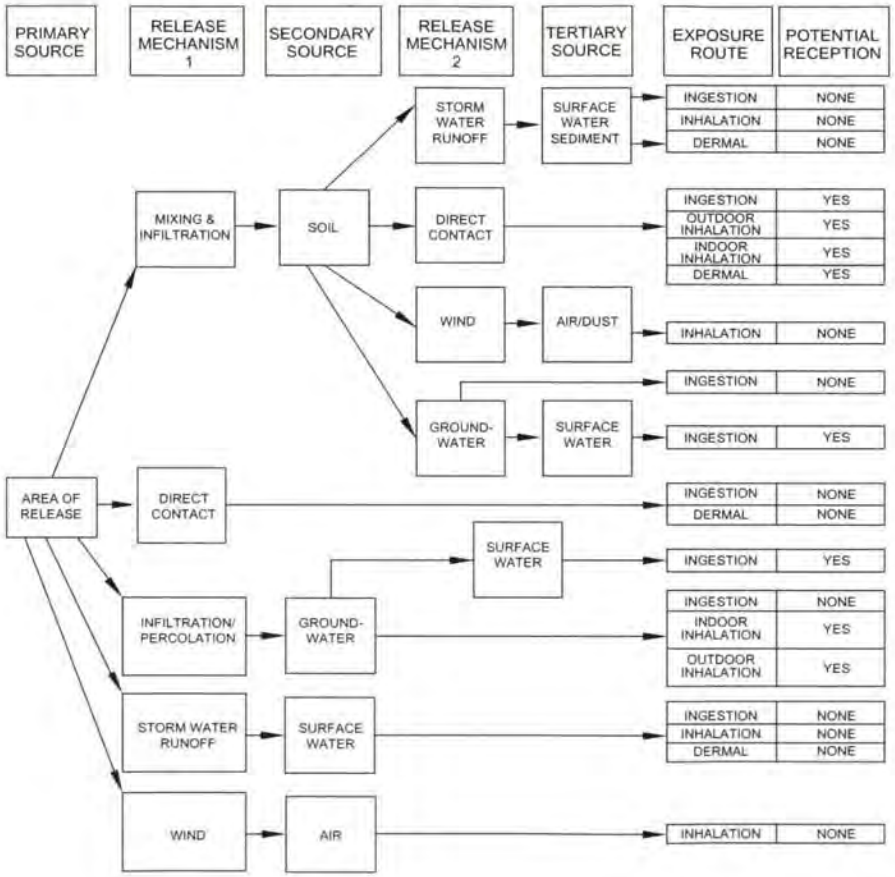
— — —	PROPERTY BOUNDARY
	LIGHT POLE
	UTILITY POLE
	DISPENSER ISLAND
Ⓕ	FIRE HYDRANT
	MONITORING WELL
⊠	RECOVERY WELL
— UE —	UNDERGROUND ELECTRIC LINE
— * —	UNDERGROUND WATER LINE
— G —	UNDERGROUND GAS LINE
— OE —	OVERHEAD ELECTRIC
	SOIL BORING
SB1	SAMPLE IDENTIFICATION
2-22-06	SAMPLE DATE
0.00979	MTBE CONCENTRATION (mg/L)
0.01100	DIPE CONCENTRATION (mg/L)
<0.001	ETBE CONCENTRATION (mg/L)
<0.001	TAME CONCENTRATION (mg/L)
<0.01	TBA CONCENTRATION (mg/L)
mg/L	MILIGRAMS PER LITER
MTBE	METHYL *tert*-BUTYL ETHER
DIPE	DIISOPROPYL ETHER
ETBE	ETHYL *tert*-BUTYL ETHER
TAME	*tert*-AMYL METHYL ETHER
TBA	*tert*-BUTYL ALCOHOL
<#	WHERE AN ANALYTE IS NOT DETECTED, A METHOD DETECTION LIMIT IS GIVEN

NOTE:

CONCENTRATIONS SHADED PURPLE EXCEED LDEQ SS.

DRAFTED BY: W.G.S. (N.J.)	GROUNDWATER COC MAP
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	
NORTH	Groundwater & Environmental Services, Inc. 307 FRANCE STREET, SUITE B, BATON ROUGE, LOUISIANA 70802

SCALE IN FEET	DATE	FIGURE
0 APPROXIMATE 30	12-9-10	11



DRAFTED BY: W.G.S. (N.J.)	CONCEPTUAL SITE MODEL
CHECKED BY:	FORMER SHELL STATION 2300 SOUTH ACADIAN THRUWAY BATON ROUGE, LOUISIANA
REVIEWED BY:	Groundwater & Environmental Services, Inc. 13003 SW FREEWAY, SUITE 190, STAFFORD, TEXAS 77477
NORTH	DATE: 12-9-10 / FIGURE: 12

M:\Graphics\3600\Houston\3600-Louisiana\Shell\142059 Baton Rouge\142059 Baton Rouge Site Model.dwg, B-, 12/9/2010 1:38:37 PM, WSlea

APPENDIX B

TABLES

TABLE 1

SOIL ANALYTICAL LABORATORY DATA [1]
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Sample Location (Depth, ft)	*Sample Date*	*Benzene (mg/kg)*	*Toluene (mg/kg)*	*Ethylbenzene (mg/kg)*	*Xylenes (mg/kg)*	*MTBE (mg/kg)*	*DIPE (mg/kg)*	*ETBE (mg/kg)*	*TAME (mg/kg)*	*TBA (mg/kg)*	*TPH-GRO (mg/kg)*
	SOIL_Ssni:	*1.5**	*68**	*160**	*18**	*650**	*15*	*650*	*21*	*1,400*	*65**
	SOIL_SSi:	*3.1**	*470**	*230**	*120**	*4,700**	*100*	*4,700*	*140*	*12,000*	*510**
	SOIL_SSGW:	*0.051**	*20**	*19**	*150**	*0.077**	*2.7*	*0.077*	*4.8*	*9.0*	*65**
	SOIL_SAT:	*900**	*520**	*230**	*150**	*9,800**	*4,600*	*9,800*	*1,900*	*140,000*	--
SB-1 (12'-15')	2/22/2006	<0.00196	<0.00196	<0.00196	<0.00489	<0.002	0.002	<0.005	<0.002	<0.049	<9.19
SB-2 (12'-15')	2/22/2006	<0.00197	<0.00197	<0.00197	<0.00493	<0.002	<0.002	<0.005	<0.002	<0.049	<10.8
SB-3 (6'-9')	2/22/2006	**0.0575**	0.0634	1.67	0.2	0.003	0.013	<0.005	<0.002	<0.047	**728**
SB-4 (12'-15')	2/22/2006	**0.468**	0.0972	0.667	0.531	0.069	0.235	<0.005	<0.002	**10.4**	**88.6**
SB-5 (12'-15')	2/22/2006	<0.00196	<0.00196	<0.00196	<0.00489	0.002	0.094	<0.005	<0.002	0.362	<9.58

mg/kg = Milligrams per kilogram
MTBE = Methyl tertiery butyl ether
DIPE = Diisopropyl ether, standards obtained from LDEQ
ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound
TAME = tert-Amyl methyl ether, standards obtained from LDEQ
TBA = tert-Butyl alcohol, standards obtained from LDEQ
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics

* Screening standards (SS) specified in LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standards for Soil and Groundwater.

Notes: [1] All soil data collected by previous consultant for the site - Conestoga-Rovers & Associates.
Highlighted SS are the limiting SS from LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standards for Soil and Groundwater.
Bold and highlighted sample concentrations are those that exceed the LDEQ SS.

TABLE 2

MONITOR WELL CONSTRUCTION DATA
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Monitor Well ID	Installation Date	Well Construction Material	Casing Slot Size	Total Depth (ft bgs)[1]	Top of Casing Elevation (ft MSL)[2]	Ground Surface Elevation (ft MSL)	Screen Interval (ft bgs)
MW-1	11/11/2009	2" PVC	0.010"	27	28.28	28.68	17-27
RW-1	11/10/2009	4" PVC	0.010"	27	28.35	28.64	17-27

Notes:
1 ft bgs = feet below ground surface
2 ft MSL = Mean Sea Level, NAVD SS

TABLE 3

GROUNDWATER ANALYTICAL LABORATORY DATA [1]
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Sample ID	Sample Date	Parameter									
		Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xylenes (mg/L)	MTBE (mg/L)	DIPE (mg/L)	ETBE (mg/L)	TAME (mg/L)	TBA (mg/L)	TPH-GRO (mg/L)
GW_SS:		**0.005***	**1***	**0.7***	**10***	**0.02***	**0.069**	**0.02**	**0.079**	**0.33**	**0.15***
SB-1	2/22/2006	<0.001	<0.001	<0.001	<0.003	0.00979	0.01100	<0.001	<0.001	<0.01	<0.1
SB-2	2/22/2006	<0.001	<0.001	<0.001	<0.003	0.00272	0.02160	<0.001	<0.001	<0.01	<0.1
SB-3	2/22/2006	**0.04**	0.0124	0.0744	0.0214	0.0132	**0.0766**	<0.001	0.0029	0.0787	**81.7**
SB-4†	2/22/2006	**1.46**	0.246	**2.43**	3.13	**1.12**	**1.34**	**0.153**	**0.22**	**41**	**87.3**
SB-4A†	1/28/2009	**5.80**	0.120	**1.40**	0.13	NA	NA	NA	NA	NA	**11.0**
RW-1†	11/12/2009	**1.2**	NA	NA	NA	NA	NA	NA	NA	NA	NA
RW-1†	5/16/2011	**0.800**	NA	NA	NA	NA	NA	NA	NA	NA	NA
SB-5	2/22/2006	<0.001	<0.001	<0.001	<0.003	<0.001	0.0089	<0.001	<0.001	**0.943**	**0.25**
MW-1	11/12/2009	0.00370	NA	NA	NA	NA	NA	NA	NA	NA	NA

mg/L = Miligrams per liter
NA = Not Applicable; Not Available
MTBE = Methyl tertiery butyl ether
DIPE = Diisopropyl ether, standards obtained from LDEQ
ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound
TAME = tert-Amyl methyl ether, standards obtained from LDEQ
TBA = tert-Butyl alcohol, standards obtained from LDEQ
TPH-GRO = Total Petroleum Hydrocarbons - Gasoline Range Organics
* LDEQ's October 20, 2003, RECAP Table 1 - Screening Option Screening Standards
† Monitoring wells SB-4, SB-4A and RW-1 are co-located

Notes: [1] Data collected by previous environmental consultants for the site - Conestoga-Rovers & Associates and URS.
Bold and highlighted sample concentrations are those that exceed the LDEQ SS

TABLE 4

LISTING OF SOIL AOIC AND GROUNDWATER CC
WITH A COMPARISON TO TABLE 1 LIMITING SCREENING STANDARDS
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituent of Concern	*RECAP Limiting Screening Standard* [1]	*Area of Investigation Concentrations* [2] *(mg/kg) Depth Interval in Feet 0 - 15*	*RECAP Limiting Screening Standard* [1]	*Groundwater Compliance Concentrations* [2] *(mg/L)*
Benzene	0.051	**0.468**	0.005	**1.2**
Toluene	20	0.0972	1.0	0.246
Ethylbenzene	19	1.67	0.7	**2.43**
Xylenes	18	0.531	10	3.13
MTBE	0.077	0.069	0.02	**1.12**
TPH-GRO	65	**728**	0.15	**87.3**
DIPE	2.7	0.235	0.069	**1.34**
ETBE	0.077	<0.005	0.02	**0.153**
TAME	4.8	<0.002	0.079	**0.22**
TBA	9	**10.4**	0.33	**41**

mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
MTBE = Methyl tertiery butyl ether
DIPE = Diisopropyl ether, standards obtained from LDEQ
ETBE = Ethyl tert-butyl ether, per LDEQ MTBE is used as a surrogate compound
TAME = tert-Amyl methyl ether, standards obtained from LDEQ
TBA = tert-Butyl alcohol, standards obtained from LDEQ
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
NA = Not analyzed

Notes: [1] Screening Standards (SS) specified in the LDEQ's October 20, 2003, RECAP Table 1 - Screening Option, Screening Standards for Soil and Groundwater.

[2] The reported soil Area of Investigation concentrations (AOIC) and groundwater Compliance Concentrations are the maximum concentrations encountered for each constituent of concern from samples collected during the site investigations.
Bold and highlighted sample concentrations are those that exceed the LDEQ SS.

TABLE 5

LIST OF MANAGEMENT OPTION-1 NON-INDUSTRIAL RECAP STANDARDS FOR SOIL
AOI-1
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituents of Concern (refer to Table 4A)	*MO-1 Soil RECAP Standards (mg/kg)*									
	Soil $_{ni}$	*AOIC*	*Target Organ(s)*	*Additivity Factors*	*Adjusted Soil $_{ni}$*	*Soil $_{GW3NDW}$*	*Dilution Factor*	*Adjusted Soil $_{GW3NDW}$*	*Soil $_{sat}$*	*Limiting RECAP Standard*
	A			B	C=A/B	D	E	F=D*E	G	MIN(C,F,G)
Benzene	1.5	0.468	NA	NA	3.1	0.13	4.1	0.53	900	0.53
TPH-GRO	650	728	L,K,DBW,H	2	325	6,100	4.1	25,010	NA	325
TBA	14,000	10.4	L,K,CNS	2	7,000	680	4.1	2,788	140,000,000	2,788

mg/kg = Milligrams per kilogram

NA = Not Applicable; Not Available

TBA = tert-Butyl alcohol, standards developed by GES

TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

NA=Not available

Soil level is based on soil saturation.

L=Liver, K=Kidney, CNS=Central Nervous System, N=Nasal, D=Development, DBW=Decreased Body Weight, O=Ocular

TABLE 6

LIST OF MANAGEMENT OPTION-1 NON-INDUSTRIAL RECAP STANDARDS FOR GROUNDWATER
AOI-1
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituents of Concern (refer to Table 4A)	*MO-1 Groundwater RECAP Standards (mg/L)*									
	GW_{airni}	*GW CC*	*Target Organs*	*Additivity Factors*	*Adjusted GW_{airni} after Additivity*	*GW_{3NDW}*	*Dilution Factor*	*Adjusted GW_{3NDW}*	*Solubility*	*Limiting RECAP Standard*
	A			B	C=A/B	D	E	F=D*E	G	MIN(C,F,G)
Benzene	390	1.2	N/A	N/A	390	0.013	4.1	0.0533	1,800	0.0533
Ethylbenzene	360,000	2.43	L,K,D	5	72000	8.1	4.1	33.21	170	33.21
MTBE	470,000	1.12	L,K,O	5	94000	550	4.1	2255	51,000	2,255
TPH-GRO	1,000	87.3	L,K,DBW,H	5	200	31	4.1	127.1	NA	127.1
DIPE	1,200	1.34	O,CNS	3	400	1.9	4.1	7.79	8,040	7.79
ETBE	23,000	0.153	L,K	5	4,600	0.33	4.1	1.353	5,630,000	1.353
TAME	25,000	0.22	CNS	3	8,333	53	4.1	217.3	2,640,000	217.3
TBA	6,800,000	41	L,K,CNS	5	1,360,000	250	4.1	1025	1,000,000,000	1,025

mg/L = Milligrams per liter
NA = Not Available; Not Applicable
MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether, standards developed by GES
ETBE = Ethyl tert-butyl ether, standards developed by GES
TAME = tert-Amyl methyl ether, standards developed by GES
TBA = tert-Butyl alcohol, standards developed by GES
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
Target Organs: L=Liver, K=Kidney, CNS=Central Nervous System, N=Nasal, D=Development, DBW=Decreased Body Weight, O=Ocular, H=Hematological

TABLE 7

LIST OF MANAGEMENT OPTION-2 NON-INDUSTRIAL RECAP STANDARDS FOR SOIL
AOI-1
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituents of Concern (refer to Table 4A)	*MO-1 Soil RECAP Standards (mg/kg)*									
	Soil $_{ni}$	*AOIC*	*Target Organ(s)*	*Additivity Factors*	*Adjusted Soil $_{i}$*	*Soil $_{GW3NDW}$*	*Dilution Factor*	*Adjusted Soil $_{GW3NDW}$*	*Soil $_{sat}$*	*Limiting RECAP Standard*
	A			B	C=A/B	D	E	F=D*E	G	MIN(C,F,G)
TPH-GRO	1,000	728	L,K,DBW,H	1	1,000	6,100	440	10,000	NA	1,000

mg/kg = Milligrams per kilogram
NA = Not Applicable; Not Available
TBA = tert-Butyl alcohol, standards developed by GES
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
NA=Not available
Soil level is based on soil saturation.
L=Liver, K=Kidney, CNS=Central Nervous System, N=Nasal, D=Development, DBW=Decreased Body Weight, O=Ocular

TABLE 8

LIST OF MANAGEMENT OPTION-2 NON-INDUSTRIAL RECAP STANDARDS FOR GROUNDWATER
AOI-1
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituents of Concern (refer to Table 4A)	*Appendix I MO-2 Groundwater RECAP Standards (mg/L)*									
	GW_{airni}	*GW CC*	*Target Organs*	*Additivity Factors*	*Adjusted GW_{airni} after Additivity*	*GW_{3NDW}*	*Dilution Factor*	*Adjusted GW_{3NDW}*	*Solubility*	*Limiting RECAP Standard*
	A			B	C=A/B	D	E	F=D*E	G	MIN(C,F,G)
Benzene	390	1.2	NA	NA	390	0.013	440	5.72	1,800	5.72

mg/L = Milligrams per liter
NA = Not Available; Not Applicable

TABLE 9

ADDITIVITY FACTORS
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

LIST OF COMPOUNDS & AFFECTED TARGET ORGANS

Compound	*Target Organ/System*
Ethylbenzene	Liver, Kidney, Development
MTBE	Liver, Kidney, Ocular
TPH-GRO	Liver, Kidney, Decreased Body Weight, Hematological System
DIPE	Ocular, Central Nervous System
ETBE	Liver, Kidney
TAME	Central Nervous System
TBA	Liver, Kidney, Central Nervous System

LIST OF TARGET ORGAN/SYSTEM & AFFECTING COMPOUNDS

Target Organ/System	*Compound*
Liver	Ethylbenzene, MTBE, TPH-GRO, ETBE, or TBA
Kidney	Ethylbenzene, MTBE, TPH-GRO, ETBE, or TBA
Central Nervous System	DIPE, TAME, or TBA
Decreased Body Weight	TPH-GRO
Development	Ethylbenzene
Hematological System	TPH-GRO
Ocular	MTBE or DIPE

MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics

Note: Toxicity information taken from LDEQ Table "Target Organ(s)/Critical Effect(s) for the Assessment of Additivity for Noncarcinogenic Health Effects."

TABLE 10A

COMPARISON OF LIMITING NON-INDUSTRIAL RS WITH SOIL AOI CONCENTRATIONS AND GROUNDWATER COMPLIANCE CONCENTRATIONS
AOI-1
FORMER SHELL RETAIL STORE NO. 142059
2300 SOUTH ACADIAN THRUWAY
BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA
AI NO.: 71560

Constituent of Concern	*Non-Industrial Surface Soil Limiting RS (mg/kg)*	*Industrial Surface Soil Limiting RS (mg/kg)*	*Soil AOI Concentrations (mg/kg) AOC-1 0 - 15 feet bgs*	*Exceeds Limiting RS?*
Benzene	0.53	0.53	0.468	No
TPH-GRO	1000*	2,550	728	No
TBA	2,788	2,788	10.4	No
Constituent of Concern	*Non-Industrial Groundwater Limiting RS (mg/L)*	*Industrial Groundwater Limiting RS (mg/L)*	*Compliance Concentrations (mg/L) AOC-1*	*Exceeds Limiting RS?*
Benzene	5.72*	5.72*	1.2	No
Ethylbenzene	33.21	33.21	2.43	No
MTBE	2,255	2,255	1.12	No
TPH-GRO	127.1	127.1	87.3	No
DIPE	7.79	7.79	1.34	No
ETBE	1.353	1.353	0.153	No
TAME	217.3	217.3	0.22	No
TBA	1,025	1,025	41	No

mg/kg = Milligrams per kilogram
mg/L = Milligrams per liter
MTBE = Methyl tert-butyl ether
DIPE = Diisopropyl ether
ETBE = Ethyl tert-butyl ether
TAME = tert-Amyl methyl ether
TBA = tert-Butyl alcohol
TPH-GRO = Total Petroleum Hydrocarbons-Gasoline Range Organics
*= MO-2 RECAP Standard (RS), all others MO-1 RS

APPENDIX C

ANALYTICAL DATA EVALUATION – RECAP FORM 3

RECAP FORM 3
ANALYTICAL DATA EVALUATION

Date June 26, 2011

Facility Name Former Shell Retail Station No. 142059

Agency Interest (AI #) 71560

Physical Site Location 2300 South Acadian Thruway, Baton Rouge, LA

Operation Address 2300 South Acadian Thruway, Baton Rouge, LA

Property Owner Circle K
Property Owner Address 25 W. Cedar Street, Pensacola, FL 32502
Responsible Party Shell Oil Products U.S.
Reponsible Party Address P.O. Box 1087, Huffman, Texas 77336

1. Data Generation

1.A All sample collection was done in accordance to applicable RECAP collection guidelines. [X] Yes [ ] No

1.B All generated data was obtained using EPA Methodology, RECAP approved methodology (as found in text), or methodology pre-approved by the Department. Any modifications to methodology have been noted, explained and pre-approved by the Department. [X] Yes [ ] No

1.C All Data are analyte-specific and the identity and concentration are confirmed. [X] Yes [ ] No

1.D All data were generated by a LDEQ certified laboratory. [X] Yes [ ] No

2. Data Evaluation and Usability

2.A Methods used are appropriate for analyzed constituents:

1. Analysis used is specific for COCs. [X] Yes [ ] No

2. Results are produced with the most appropriate sensitive method. (e.g. not using portable field analytical instruments). [X] Yes [ ] No

2.B Sample Quantitation Limits (SQL)

Note: The SQL is not synonymous with the IDL (instrument detection limit) or the MDL (minimum detection limit). The SQL is derived after considering the effects of dilutions, loss of instrument sensitivity, matrix interferences, and other interferences effecting the lower-end accuracy of analysis, and therefore resulting in the elevation of the method detection limit. The SQL will be the only detection limit considered for comparison to limiting standards.

1. All SQLs are less than reference concentrations (RS or SS). [X] Yes [ ] No (If yes, proceed to Section 2C, Qualifiers and Codes).

2. Samples with SQLs greater than the limiting standard are not being reported as non-detected. (If yes, proceed to Item # 3 of this section). [ ] Yes [ ] No

   If the SQL is higher than the limiting standard, and a non-detect is being reported, data may still be considered by the Department if all the below conditions are met:

   (a) The non-detect results make up less than 5-10 percent of a sample set for a considered individual COC.

   (b) The ND is not classified as being from a key sampling location (e.g. drinking water well).

   (c) Documentation provided by a LDEQ accredited laboratory (with supporting evidence) is included in the document demonstrating that a practical quantitation limit was not achievable due to site or sample-specific conditions.

   Have the above three conditions been met? [ ] Yes [ ] No

   Note: If one or more of the above conditions cannot be met, the total (100%) value of the PQL may be reported as a positive detected result.

   Will this option be used and annotated in the Report? [ ] Yes [ ] No

   Note: If all answers in this item are "no," analytical results will be rejected and re-sampling will be required.

3. Are sample results higher than both the PQL and the limiting standard? [ ] Yes [ ] No (If so, results may be used despite elevated PQL).

2.C Qualifiers and Codes

1. All qualifiers and codes for flagged data have been noted on form 3 and supporting documentation has been included in the laboratory information package. [X] Yes [ ] No

2. All data with a qualifier of "R" (unusable data) do not come from critical sample points (if so, resample will be required). [ ] Yes [ ] No [X] N/A

3. All data with a qualifier of "J" (estimated concentrations) have been included as positive results. [ ] Yes [ ] No [X] N/A

2.D Blank Samples

1. Field and laboratory blanks showed no signs of contamination, and no constituents were detected in blanks. (If no constituents or contaminants were detected, proceed to 2E, Tentatively Identified Compounds). [X] Yes [ ] No

2. Contaminants or constituents found in blanks can be considered common laboratory contaminants as defined by EPA (acetone, 2-butanone, methylene chloride, toluene, or phthalates); and the same contaminants found in site samples are present at quantities less than 10 times the levels found in blanks. (If no, constituents are to be reported as detected COCs). [ ] Yes [ ] No

3. Contaminants or constituents found in blanks are not considered common laboratory contaminants as defined by EPA; and the same contaminants found in site samples are present at quantities less than 5 times the levels found in blanks (If no, constituents are to be reported as detected COCs). [ ] Yes [ ] No

2.E Tentatively Identified Compounds (TIC)

All possible TIC have been identified, evaluation is supported with documentation in the text, and information conforms to the requirements as listed in Section 2.5 of the RECAP. [ ] Yes [ ] No

2.F Historical Data

1. All quantitative historical data has been reviewed by current QA/QC guidelines, and all applicable supporting information is justified and included in the report. [X] Yes [ ] No

2. All qualitative historical data is verifiable, has not been used quantitatively, and has only been used in the development of a conceptual model. [ ] Yes [ ] No [X] N/A

3. Documentation

3.A Laboratory information package assembled as follows [X] Yes [ ] No:

1. Sample documentation (chains of custody, preparation time, time of analysis).
2. Sample and analyte identification and quantification.
3. Determination and documentation of sample quantitation limits (SQLs).
4. Initial and continuing calibration.
5. Performance evaluation samples (external QA or laboratory control samples)
6. Matrix spike recoveries.
7. Analytical error determination (determined with replicate samples).
8. Total measurement error determination summary. (Evaluates overall precision of measurement system from sample acquisition through analysis. Determined with field duplicate and matrix spike with matrix spike duplicate).
9. Explanation and supporting documentation for flagged data.

3.B All methods used in all analysis have produced tangible raw data (e.g. chromatograms, spectra, digital values), and are available to the Department upon request. [X] Yes [ ] No

1. Representative data is included in documentation as examples of method procedures. [X] Yes [ ] No

2. All flagged data is supported with complete associated tangible raw data. (e.g. depiction of matrix interferences, spiked recoveries reported outside of control limits, evidence for need for dilution etc.). [X] Yes [ ] No

Note: Any "no" answer must be explained at the conclusion of this form. Items not applicable should be left unmarked.

4. Submitter Information

Date June 26, 2011

Name of Person submitting this evaluation Larry Braud, P.G.

Affiliation Groundwater & Environmental Services, Inc.

Signature _____

Date 6/26/2011

Additional Preparers Ryan Francis

APPENDIX D

RECAP APPENDIX H SPREADSHEETS

1. For Development of MO-1 Standards for ETBE, DIPE, TAME and TBA

2. For Development of Site-Specific RECAP MO-2 Standards

Risk Evaluation/ Corrective Action Program (RECAP)

Prepared by:
Louisiana Department of Environmental Quality
Corrective Action Group
August 4, 2003

Welcome to the **Louisiana Department of Environmental Quality's Risk Evaluation/Corrective Action Program (RECAP) workbook**. This workbook contains all of the Management Option 2 (MO-2) equations, except for the Domenico model. There is a spreadsheet for each of the MO-2 exposure pathways. Each spreadsheet lists the equations used to calculate a RECAP Standard and contains the calculations of the RECAP Standards for all of the chemicals listed in the document for that exposure pathway. Within the spreadsheets are comment boxes for each equation. The comment box contains the parameter definitions and the default values for that equation. (Point the mouse at the cell and rick click into that cell that contains the red triangle in the upper right corner and click show comment. Click the comment box to highlight the box drag the edge of the box to enlarge the cell to read the contents.)

The spreadsheets are linked together for data that is common to most of the equations (e.g., the Slope Factor (SF) and Reference dose (RfD) values are contained in one spreadsheet, "SF&RfD"). Site-specific data that can be entered under MO-2 is highlighted in blue. Site-specific input values related to a specific exposure pathway are listed in that exposure pathway spreadsheet. Site-specific values are found in the "Soil properties", "Sd & DAF Summers", "Soil-PEF", "Soiles", "GWes", and "GWair" spreadsheets. The soil properties spreadsheet is the only spreadsheet that contains site-specific input values that can be changed that will effect many of the equations. Site size can be entered as the length and width.

At the bottom of each spreadsheet are several rows highlighted in blue for additional chemicals.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
Aliphatics C6-C8	NA	*******		*******		5.00E+00	T	5.30E+00	T	0
Aliphatics >C8-C10	NA	*******		*******		1.00E-01	T	2.90E-01	T	0
Aliphatics >C10-C12	NA	*******		*******		1.00E-01	T	3.00E-01	T	0
Aliphatics >C12-C16	NA	*******		*******		1.00E-01	T	3.00E-01	T	0
Aliphatics >C16-C35	NA	*******		*******		2.00E+00	T	2.00E+00	*	0.1
Aromatics >C8-C10	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C10-C12	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C12-C16	NA	*******		*******		4.00E-02	T	6.00E-02	T	0
Aromatics >C16-C21	NA	*******		*******		3.00E-02	T	3.00E-02	*	0.1
Aromatics >C21-C35	NA	*******		*******		3.00E-02	T	3.00E-02	*	0.1

I = Integrated Risk Information System (IRIS), EPA.
H = Health Effects Assessment Summary Tables (HEAST), EPA.
A = Health Effects Assessment Summary Tables Alternative, EPA Region III Risk-Based Concentration Table.
E = EPA-NCEA Regional Support provisional value, EPA Region III Risk-Based Concentration Table.
* = Inhalation toxicity not available, oral toxicity value used to assess inhalation exposure.
# = Oral toxicity value not available, inhalation toxicity value used to assess oral exposure.
O = EPA Region III Risk-Based Concentration Table.
W = Withdrawn from IRIS or HEAST.
T = TPH Criteria Working Group, 1997.
IEUBK = refer to IEUBK model guidelines.
D= Dermal RfD for cadmium is 2.5E-05 mg/kg-d (based on an oral absorption efficiency of 5%; RAGS-E, EPA 1999).
S = Surrogate (Acenaphthene for Acenaphthylene; Naphthalene for Methylnaphthalene, 2-; Anthracene for Phenanthrene) .

ADDITIONAL COMPOUNDS

ORGANIC COMPOUNDS										
Bis(2-chloroisopropyl)ether	108-60-1	7.00E-02	H	3.50E-02	H	4.00E-02	I	4.00E-02	*	0
DIPE	108203		#		*	4.10E-03	E	4.10E-03	I	0.1
ETBE	637923		#		*	1.00E-03	TCEQ	8.60E-02	TCEQ	0.1

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H1
CANCER SLOPE FACTORS AND REFERENCE DOSES

COMPOUND	CAS #	SF_o	REF	SF_i	REF	RfD_o	REF	RfD_i	REF	ABS
		$(mg/kg\text{-}day)^{-1}$		$(mg/kg\text{-}day)^{-1}$		mg/kg-day		mg/kg-day		unitless
TAME	994058		#		*	1.30E-01	E	1.30E-01	I	0.1
TBA	75-65-0		#		*	5.40E-01	E	5.40E-01	*	0.1
Benzene	71-43-2	2.90E-02	I	2.90E-02	I	4.00E-03	I	8.60E-03	I	0
Formaldehyde	50-00-0	4.60E-02	*	4.60E-02	I	2.00E-01	I	2.00E-01	*	0.1
INORGANIC COMPOUNDS										
Antimony	7440-36-0	*******		*******		4.00E-04	I	4.00E-04	*	0.01
Antimony	7440-36-0	*******		*******		4.00E-04	I	4.00E-04	*	0.01
Antimony	7440-36-0	*******		*******		4.00E-04	I	4.00E-04	*	0.01

NOTE: See end of Table for designation of letters and symbols.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
Aliphatics >C16-C35	NA	270	6.31E+08	10	1.20E+02	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C8-C10	NA	120	1.58E+03	10	1.17E-02	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C10-C12	NA	130	2.51E+03	10	3.41E-03	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C12-C16	NA	150	5.01E+03	10	1.29E-03	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C16-C21	NA	190	1.58E+04	10	3.17E-04	10	1.00E-01	10	1.00E-05	10	********	*******
Aromatics >C21-C35	NA	240	1.26E+05	10	1.63E-05	10	1.00E-01	10	1.00E-05	10	********	*******

* If data on more than one isomer is available; then used most protective. If data available on only one isomer; then used that data.

1. Soil Screening Guidance, 1996.
2. Superfund Chemical Data Matrix, June 1996.
3. Air Emissions Models for Waste and Wastewater, EPA-453/R-94-080A, 1994.
4. Groundwater Chemicals Desk Reference, Montgomery, J. H., et.al., 1990.
5. Groundwater Chemicals Desk Reference, vol. II, Montgomery, J. H., et.al., 1991.
6. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, vol. IV, 1991.
7. Handbook of Environmental Fate and Exposure Data for Organic Chemicals, vol. II, 1991.
8. Soil Chemistry of Hazardous Materials, 1988.
9. CHEMDAT 8, November, 1994.
10. Total Petroleum Hydrocarbon Criteria Workgroup, 1996.

E - Estimated.

ADDITIONAL COMPOUNDS

ORGANIC COUMPOUNDS												
Bis(2-chloroisopropyl)ether	108-60-1	171.04	6.17E+01	4	1.13E-04	4	5.95E-02	E	6.62E-06	E	1.70E+03	4
DIPE	108203	102.18	2.52E+01	MDEQ	1.30E-03	MDEQ	8.00E-02	MDEQ	8.00E-06	MDEQ	8.04E+03	MDEQ
ETBE	637923	102.18	3.97E+00	MDEQ	1.39E-03	MDEQ	8.00E-02	MDEQ	8.00E-06	MDEQ	5.63E+06	MDEQ
TAME	994058	102.18	2.81E+01	MDEQ	2.68E-03	MDEQ	8.00E-02	MDEQ	8.00E-06	MDEQ	2.64E+06	MDEQ
TBA	75-65-0	74.12	2.27E+00	MDEQ	1.17E-05	MDEQ	8.00E-02	MDEQ	8.00E-06	MDEQ	1.00E+09	MDEQ
Benzene	71-43-2	78.11	6.17E+01	1	5.55E-03	1	8.80E-02	1	9.80E-06	1	1.75E+03	1
Formaldehyde	50-00-0	30.03	3.63E+00	5	3.40E-07	2	1.80E-01	3	2.00E-05	3	5.50E+05	2

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H: TABLE H2
CHEMICAL AND PHYSICAL PARAMETERS

COMPOUND	CAS #	MOL. WT	Koc	REF	H	REF	Da	REF	Dw	REF	S	REF
		g/g-mole	cm3/g		atm-m3/mol		cm2/s		cm2/s		mg/L	
INORGANIC COMPOUNDS												
Antimony	7440-36-0	121.75	********	********	********	********	********	********	********	********	********	********
Antimony	7440-36-0	121.75	********	********	********	********	********	********	********	********	********	********
Antimony	7440-36-0	121.75	********	********	********	********	********	********	********	********	********	********

NOTE: See end of Table for designation of numbers and letter.

LDEQ RECAP
APPENDIX H
TABLE H-4
QUANTITATION LIMITS USED IN RECAP

COMPOUND	Soil	GW
	mg/kg	mg/l
ADDITIONAL COMPOUNDS		
ORGANIC COUMPOUNDS		
Bis(2-chloroisopropyl)ether	8.0E-01	5.7E-03
DIPE	1.0E-02	5.0E-03
ETBE	1.0E-02	5.0E-03
TAME	1.0E-02	5.0E-03
TBA	2.1E-02	1.0E-02
Benzene		
Formaldehyde		
INORGANIC COMPOUNDS		
Antimony		
Antimony		
Antimony		

Soil properties		Management Option 2							
Revision Date: 08/04/2003									
Run date:	6/28/2011								
*****calculation inputs*****									
1.7	g/cm3		pb = dry soil bulk density						
0.358491	Lpore/Lsoil		n = total soil porosity						
0.21	Lwater/Lsoil		nw = water-filled soil porosity						
0.148491	Lair/Lsoil		na = air-filled soil porosity						
2.65	g/cm3		ps = soil particle density						
0.006	g/g		foc = fractional organic carbon in soil						
148	(ft) = L = length of the source at the water table								
148	(ft) = W = width of impacted area perpendicular to flow direction of aquifer								
0.5	Acres		AOI site area - input into Q/C equation below						
76.30616	g/m2-s per kg/m3		Q/C = inverse of mean concentration at center of square source						
Q/C Table									
site size	148*148	209*209	295*295	467*467	660*660	1143*1143			
site size	0.5 acre	1 acre	2 acre	5 acre	10 acre	30 acre			
Q/C value	76.3062	67.4304	59.872	51.4648	46.1707	39.2329			

Sd eqn & Summer's Model DAF							
Revision Date: 08/04/2003							
Run date:	6/28/2011						
Sd = hadv + hdisp = thickness of the mixing zone							
15.6	(ft)						
hadv = B*[1 - exp((-I*L)/(B*Dv))]							
0.81	(ft) = hadv = advective component of the plume depth						
0.33	(ft/ft) = I = infiltration rate						
60.00	(ft/yr) = Dv = horizontal Darcy velocity						
20.00	(ft) = B = thickness of the shallow water bearing zone						
148.00	(ft) = L = length of the source at the water table						
hdisp = (2*Az*L)							
14.80	(ft) = hdisp = dispersive component of the plume depth						
0.74	(ft) = Az = vertical dispersivity						
148.00	(ft) = L = length of the source at the water table						
Summer's Model DAF							
DAF = Cl/Cgw = (Qa+Qp)/Qp							
20.0	unitless						
Qa = Dv*Sd*W							
138577	(ft3/yr) = Qa = volumetric flow rate of groundwater						
60.00	(ft/yr) = Dv = horizontal Darcy velocity						
15.61	(ft) = Sd = hadv + hdisp = thickness of the mixing zone						
148.00	(ft) = W = width of impacted area perpendicular to flow direction of aquifer						
Qp = I*A							
7301.33	(ft3/yr) = Qp = volumetric flow rate of infiltration (soil pore water) into the aquifer						
0.33	(ft/yr) = I = infiltration rate						
21904.00	(ft2) = A = area of the source						
Max DF Domenico		440					
(for use with SoilGW and GW values)							

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

C (mg/l) GW3NDW = (TR*BWa) / (SFo*(IRWndw+BCF*IRF))
N (mg/l) GW3NDW = (THQ*RfDo*BWa) / (IRWndw+BCF*IRF)

COMPOUND	LAC 33:IX. 1113(HHNDW) (mg/L)	LAC 33:IX. 1113(HHDW) (mg/L)	MCL (mg/l)	BCF (l/kg)	C (mg/l)	N (mg/l)	LAC(NDW) or max (LAC,MCL, (MIN C, N)) (mg/l)	
Acenaphthene				3.87E+02	NA	5.36E-01	5.4E-01	(*2)N
Acenaphthylene				2.69E+02	NA	7.68E-01	7.7E-01	(*2)N
Acetone				3.87E-01	NA	7.24E+01	7.2E+01	(*2)N
Aldrin	4.00E-08	4.00E-08					4.0E-08	(*1)LAC(NDW)
Aniline				3.27E+00	7.95E-02	3.17E+00	8.0E-02	(*2)C
Anthracene				9.20E+03	NA	1.14E-01	1.1E-01	(*2)N
Antimony			6.00E-03	9.00E-01	NA	2.62E-01	2.6E-01	(*2)N
Arsenic		5.00E-02	1.00E-02	4.00E+00	2.76E-04	1.24E-01	5.0E-02	LAC(DW)
Barium			2.00E+00	1.00E+00	NA	4.50E+01	4.5E+01	(*2)N
Benzene	1.25E-02	1.10E-03	5.00E-03				1.3E-02	(*1)LAC(NDW)
Benz(a)anthracene				1.26E+04	3.80E-07	NA	3.8E-07	(*2)C
Benzo(a)pyrene			2.00E-04	8.29E+04	5.78E-09	NA	2.0E-04	MCL
Benzo(b)fluoranthene				3.03E+04	1.58E-07	NA	1.6E-07	(*2)C
Benzo(k)fluoranthene				3.03E+04	1.58E-06	NA	1.6E-06	(*2)C
Beryllium			4.00E-03	1.90E+01	NA	2.99E-01	3.0E-01	(*2)N
Biphenyl,1,1-				6.46E+02	NA	2.69E-01	2.7E-01	(*2)N
Bis(2-chloroethyl)ether				1.10E+01	2.06E-04	NA	2.1E-04	(*2)C
Bis(2-chloroisopropyl)ether				5.57E+01	8.31E-04	2.33E+00	8.3E-04	(*2)C
Bis(2-ethyl-hexyl)phthalate			6.00E-03	2.15E+04	1.16E-05	3.26E-03	6.0E-03	MCL
Bromodichloromethane	3.30E-03	2.00E-04	1.00E-01				3.3E-03	(*1)LAC(NDW)
Bromoform	3.47E-02	3.90E-03	1.00E-01				3.5E-02	(*1)LAC(NDW)
Bromomethane				4.81E+00	NA	5.29E-01	5.3E-01	(*2)N
Butyl benzyl phthalate				6.63E+02	NA	1.05E+00	1.0E+00	(*2)N
Cadmium		1.00E-02	5.00E-03	3.77E+03	NA	4.64E-04	1.0E-02	LAC(DW)
Carbon Disulfide				1.95E+01	NA	1.46E+01	1.5E+01	(*2)N
Carbon Tetrachloride	1.20E-03	2.20E-04	5.00E-03				1.2E-03	(*1)LAC(NDW)
Chlordane	1.90E-07	1.90E-07	2.00E-03				1.9E-07	(*1)LAC(NDW)
Chloroaniline,p-				1.64E+01	NA	6.71E-01	6.7E-01	(*2)N
Chlorobenzene			1.00E-01	9.42E+01	NA	7.10E-01	7.1E-01	(*2)N

LDEQ RECAP
WORKSHEET 2
GW 3NDW
(mg/l)

Derivation of Management Option 1, 2, & 3 **Groundwater Classification 3-Non-Drinking Water**
Revision Date: 08/04/2003 Run date: 6/28/2011

Aliphatics >C16-C35							0.00E+00	(2)
Aromatics >C8-C10							0.00E+00	(2)
Aromatics >C10-C12							0.00E+00	(2)
Aromatics >C12-C16							0.00E+00	(2)
Aromatics >C16-C21							0.00E+00	(2)
Aromatics >C21-C35							0.00E+00	(2)

Notes:
log Kow values from the Superfund Data Matrix, June 1996
(1) Data on this chemical could not be found. Therefore, assume BCF = 1
Xylene (mixed) Kow is the highest value of m,o,p xylene Kow values.
(2) Research has shown that this chemical does not bioconcentrate.

Estimation of Kow from Koc:
log Koc = 0.0784 + (0.7919 * log Kow)
(p 141 Soil Screening Guidance: Technical Background Document, May 1996)

ADDITIONAL COMPOUNDS

ORGANIC COUMPOUNDS					
Bis(2-chloroisopropyl)ether	5.57E+01	8.31E-04	2.33E+00	8.3E-04	(*2)C
DIPE	2.95E+00	NA	1.94E+00	1.9E+00	(*2)N
ETBE	6.00E+00	NA	3.35E-01	3.3E-01	(*2)N
TAME	4.14E+00	NA	5.30E+01	5.3E+01	(*2)N
TBA	3.16E+00	NA	2.48E+02	2.5E+02	(*2)N
Benzene		2.71E-02	3.15E+00	2.7E-02	(*2)C
Formaldehyde	5.40E-01	1.52E-02	1.40E+02	1.5E-02	(*2)C
INORGANIC COMPOUNDS					
Antimony		#VALUE!	3.15E-01	#VALUE!	#VALUE!
Antimony		#VALUE!	3.15E-01	#VALUE!	#VALUE!
Antimony		#VALUE!	3.15E-01	#VALUE!	#VALUE!

LDEQ RECAP
WORKSHEET 4
SOILni
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Nonindustrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFnic = (Q\C*1e-4*(3.14*DA*Tnic)^0.5)/(2*pb*DA)
VFnia = (Q\C*1e-4*(3.14*DA*Tnia)^0.5)/(2*pb*DA)

Soilni-C-O = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFi*(IRAadj/VFnia)+SFo*1e-6*ABS*IRDadj))
Soilni-C-I = (TR*ATc*365)/(EFni*(SFo*1e-6*IRSadj+SFo*1e-6*ABS*IRDadj))
Soilni-N-O = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(IRAc/RfDi)*(1/VFnic)+(SAc/RfDo)*AFc*ABS*1e-6))
Soilni-N-I = (THQ*BWc*ATnc*365)/(EFni*EDc*((IRSc/RfDo)*1e-6+(SAc/RfDo)*AFc*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFnic (m3/kg)	VFnia (m3/kg)	Soilni C-O (mg/kg)	Soilni C-I (mg/kg)	Soilni N-O (mg/kg)	Soilni N-I (mg/kg)	min value (C or N)	Soilni (mg/kg)	
ADDITIONAL COMPOUNDS										
ORGANIC COMPOUNDS										
Bis(2-chloroisopropyl)ether	4.78E-06	2.51E+04	5.82E+04	4.92E+00		1.04E+03		4.9E+00	4.9E+00	C
DIPE	1.22E-04	4.99E+03	1.11E+04	NA		2.82E+01		2.8E+01	2.8E+01	N
ETBE	2.39E-04	3.54E+03	7.93E+03	NA		5.42E+01		5.4E+01	5.4E+01	N
TAME	2.32E-04	3.59E+03	8.05E+03	NA		6.69E+02		6.7E+02	6.7E+02	N
TBA	3.69E-06	2.85E+04	6.38E+04	NA		1.39E+04		1.4E+04	1.4E+04	N
Benzene	3.10E-04	3.11E+03	6.96E+03	1.49E+00		3.69E+01		1.5E+00	1.5E+00	C
Formaldehyde	3.60E-06	2.88E+04	6.46E+04	4.85E+00		9.19E+03		5.0E+00	5.0E+00	C
INORGANIC COMPOUNDS										
Antimony	NA	NA			#VALUE!		3.04E+01	#VALUE!	#VALUE!	###
Antimony	NA	NA			#VALUE!		3.04E+01	#VALUE!	#VALUE!	###
Antimony	NA	NA			#VALUE!		3.04E+01	#VALUE!	#VALUE!	###

LDEQ RECAP
WORKSHEET 5
SOILi
(mg/kg)

Derivation of Management Option 1 & 2 **Soil-Industrial**
Revision Date: 08/04/2003 Run date: 6/28/2011

DA = ((na^(10/3)*Da*H*41+nw^(10/3)*Dw)/n^2)/(pb*Koc*foc+nw+na*H*41)
VFi = (Q\C*1e-4*(3.14*DA*Ti)^0.5)/(2*pb*DA)

Soili-C-O = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFi*(IRAa/VFi)+SFo*SAai*AFai*ABS*1e-6))
Soili-C-I = (TR*BWa*ATc*365)/(EFi*EDi*(SFo*1e-6*IRSi+SFo*SAai*AFai*ABS*1e-6))
Soili-N-O = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(IRAa/RfDi)*(1/VFi)+(SAai/RfDo)*AFai*ABS*1e-6))
Soili-N-I = (THQ*BWa*ATni*365)/(EFi*EDi*((IRSi/RfDo)*1e-6+(SAai/RfDo)*AFai*ABS*1e-6)))

COMPOUND	DA (cm2/s)	VFi (m3/kg)	Soili C-O (mg/kg)	Soili C-I (mg/kg)	Soili N-O (mg/kg)	Soili N-I (mg/kg)	min value (C or N)	Soili (mg/kg)	
TPH-GRO (C6-C10)							5.1E+03	5.1E+03	
TPH-DRO (C10-C28)							5.1E+03	5.1E+03	
TPH-ORO (>C28)							2.5E+04	1.0E+04	

ADDITIONAL COMPOUNDS

ORGANIC COMPOUNDS								
Bis(2-chloroisopropyl)ether	4.76E-06	5.12E+04	1.67E+01		9.28E+03	1.7E+01	1.7E+01	C
DIPE	1.22E-04	1.01E+04	NA		2.00E+02	2.0E+02	2.0E+02	N
ETBE	2.39E-04	7.24E+03	NA		6.90E+02	6.9E+02	6.9E+02	N
TAME	2.32E-04	7.34E+03	NA		4.68E+03	4.7E+03	4.7E+03	N
TBA	3.69E-06	5.82E+04	NA		1.20E+05	1.2E+05	1.2E+05	N
Benzene	3.10E-04	6.35E+03	3.08E+00		2.70E+02	3.1E+00	3.1E+00	C
Formaldehyde	3.60E-06	5.89E+04	1.37E+01		4.49E+04	1.4E+01	1.4E+01	C
INORGANIC COMPOUNDS								
Antimony	NA	NA		#VALUE!	7.22E+02	#VALUE!	#VALUE!	###
Antimony	NA	NA		#VALUE!	7.22E+02	#VALUE!	#VALUE!	###
Antimony	NA	NA		#VALUE!	7.22E+02	#VALUE!	#VALUE!	###

LDEQ RECAP
WORKSHEET 6
SOILGW and SOILsat
(mg/kg)

Derivation of Management Option 1 & 2 **SoilGW & Soilsat**
Revision Date: 08/04/2003 Run date: 6/28/2011

SoilGW1 = DFsummers*(GW1*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW2 = DFsummers*(GW2*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3NDW =DFsummers* (GW3NDW*(pb*Koc*foc+nw+na*H*41))/(pb)
SoilGW3DW =DFsummers* (GW3DW*(pb*Koc*foc+nw+na*H*41))/(pb)

Soilsat = S*(Koc*foc*pb+nw+H*41*na)/pb

COMPOUND	SoilGW1 (mg/kg)	SoilGW2 (mg/kg)	SoilGW3DW (mg/kg)	SoilGW3NDW (mg/kg)	Soilsat (mg/kg)
Aromatics >C10-C12	1.0E+02	1.0E+02	4.1E+02	9.6E+03	NA
Aromatics >C12-C16	2.0E+02	2.0E+02	8.1E+02	1.9E+04	NA
Aromatics >C16-C21	2.1E+03	2.1E+03	1.9E+03	4.5E+04	NA
Aromatics >C21-C35	1.7E+04	1.7E+04	1.5E+04	3.6E+05	NA
TPH-GRO (C6-C10)	6.5E+01	6.5E+01	2.6E+02	6.1E+03	
TPH-DRO (C10-C28)	6.5E+01	6.5E+01	2.6E+02	6.1E+03	
TPH-ORO (>C28)	1.7E+04	1.7E+04	1.5E+04	3.6E+05	

ADDITIONAL COMPOUNDS

ORGANIC COUMPOUNDS					
Bis(2-chloroisopropyl)ether	5.8E-02	2.7E-03	3.1E-03	8.2E-03	8.4E+02
DIPE	2.8E-02	2.8E-02	6.1E-03	1.1E+01	2.2E+03
ETBE	1.0E-01	1.0E-01	#DIV/0!	1.0E+00	8.6E+05
TAME	4.8E+00	4.8E+00	#DIV/0!	3.2E+02	8.0E+05
TBA	9.0E+00	9.0E+00	#DIV/0!	6.8E+02	1.4E+06
Benzene	3.9E-03	3.9E-03	1.2E-02	2.8E-01	9.0E+02
Formaldehyde	4.2E-03	4.2E-03	2.1E-03	4.4E-02	8.0E+04

LDEQ REAP
WORKSHEET 15
GWairni
(mg/l)

Volatile releases from groundwater to ambient air-Non-industrial					Derivation of Management Option 2 RS					
Revision Date: 08/04/2003					Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-NONINDUSTRIAL						Site-Specific				
volumetric air content in capillary fringe					nacap =	0.015	cm3-air/cm3-soil			
volumetric water content in capillary fringe					nwcap =	0.345	cm3-water/cm3-soil			
total porosity of capillary fringe soil					nc =	0.36	cm3/cm3			
thickness of capillary fringe					hcap =	5	cm			
thickness of vadose zone					hv =	295	cm			
depth to groundwater					Lgw =	300	cm			
wind speed above ground surface in ambient mixing zone					Uair =	225	cm/s			
width of source area parallel to wind					W =	4511	cm			
ambient air mixing zone height					dair =	200	cm			
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2										
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2										
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)										
VFgwairni = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]										
Cani C-O = (TR*ATc*365*1000)/(EFni*SFi*IRAadj)										
Cani N-O = (THQ*RfDi*BWa*ATnni*365*1000)/(IRAa*EFni*EDni)										
GWairni = Cani*0.001/VFgwairni										
	Ds	Dcap	Dws	VFgwairni	Cani	Cani	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
ADDITIONAL COMPOUNDS										
ORGANIC COUMPOUNDS										
Bis(2-chloroisopropyl)ether	8.89E-04	3.19E-04	8.45E-04	1.31E-06	1.90E-01	1.46E+02	1.45E+02	1.12E+05	1.4E+02	
DIPE	1.09E-03	5.40E-05	7.19E-04	1.29E-05	#DIV/0!	1.50E+01	#DIV/0!	1.17E+03	1.2E+03	
ETBE	1.09E-03	3.18E-05	7.02E-04	1.34E-05	#DIV/0!	3.14E+02	#DIV/0!	2.35E+04	2.3E+04	
TAME	1.09E-03	1.68E-05	5.27E-04	1.94E-05	#DIV/0!	4.75E+02	#DIV/0!	2.45E+04	2.5E+04	
TBA	1.80E-03	3.72E-03	1.82E-03	2.92E-07	#DIV/0!	1.97E+03	#DIV/0!	6.76E+06	6.8E+06	
Benzene	1.20E-03	1.02E-05	4.07E-04	3.09E-05	2.29E-01	3.14E+01	7.40E+00	1.02E+03	7.4E+00	
Formaldehyde	8.42E-02	3.20E-01	8.51E-02	3.03E-07	1.44E-01	7.30E+02	4.76E+02	2.41E+06	4.8E+02	
INORGANIC COMPOUNDS										
Antimony	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	1.46E+00	#VALUE!	#VALUE!	#VALUE!	
Antimony	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	1.46E+00	#VALUE!	#VALUE!	#VALUE!	
Antimony	#VALUE!	#VALUE!	#VALUE!	#VALUE!	#VALUE!	1.46E+00	#VALUE!	#VALUE!	#VALUE!	

LDEQ RECAP
WORKSHEET 16
GWairi
(mg/l)

Volatile releases from groundwater to ambient air-Industrial				Derivation of Management Option 2 RS					
Revision Date: 08/04/2003				Run date:	6/28/2011				
INPUTS TO GROUNDWATER TO AMBIENT AIR MODEL-INDUSTRIAL				Site-Specific					
volumetric air content in capillary fringe			nacap =	0.015	cm3-air/cm3-soil				
volumetric water content in capillary fringe			nwcap =	0.345	cm3-water/cm3-soil				
total porosity of capillary fringe soil			nc =	0.36	cm3/cm3				
thickness of capillary fringe			hcap =	5	cm				
thickness of vadose zone			hv =	295	cm				
depth to groundwater			Lgw =	300	cm				
wind speed above ground surface in ambient mixing zone			Uair =	225	cm/s				
width of source area parallel to wind			W =	4511	cm				
ambient air mixing zone height			dair =	200	cm				
Ds = Da*na^3.33/n^2+Dw*1/(H*41)*nw^3.33/n^2									
Dcap = Da*nacap^3.33/nc^2+Dw*1/(H*41)*nwcap^3.33/nc^2									
Dws = (hcap+hv)/(hcap/Dcap+hv/Ds)									
VFgwairi = (H*41*1000)/[1+(Uair*dair*Lgw)/(W*Dws)]									
Cai C-O = (TR*BWa*ATc*365*1000)/(SFi*IRAa*EFi*EDi)									
Cai N-O = (THQ*RfDi*BWa*ATni*365*1000)/(IRAa*EFi*EDi)									
GWairi = Cai*0.001/VFgwairi									
	Ds	Dcap	Dws	VFgwairi	Cai	Cai	GWairi	GWairi	min value	Note
COMPOUND	(cm2/s)	(cm2/s)	(cm2/s)	(mg/m3/mg/l)	C-O (ug/m3)	N-O (ug/m3)	C-O(mg/l)	N-O(mg/l)	(C or N)	
Aromatics >C8-C10	1.36E-03	5.30E-06	2.59E-04	4.14E-05		2.19E+02		5.29E+03	5.3E+03	J
Aromatics >C10-C12	1.36E-03	1.66E-05	5.79E-04	2.71E-05		2.19E+02		8.09E+03	8.1E+03	J
Aromatics >C12-C16	1.37E-03	4.28E-05	9.02E-04	1.59E-05		2.19E+02		1.37E+04	1.4E+04	J
Aromatics >C16-C21										
Aromatics >C21-C35										
TPH-GRO (C6-C10)						2.19E+02			1.0E+03	
TPH-DRO (C10-C28)										
TPH-ORO (>C28)										
J - Risk-based value calculated with one of the equations EQ 56 thru 59.										
K - Louisiana Toxic Air Pollutant Ambient Air Standards (LAC 33:III.5112 Table 51.2).										
ADDITIONAL COMPOUNDS										
ORGANIC COMPOUNDS										
Bis(2-chloroisopropyl)ether	8.69E-04	3.19E-04	8.45E-04	1.31E-06	4.09E-01	2.04E+02	3.12E+02	1.56E+05	3.1E+02	
DIPE	1.09E-03	3.40E-05	7.19E-04	1.28E-05	#DIV/0!	2.10E+01	#DIV/0!	1.64E+03	1.6E+03	
ETBE	1.09E-03	3.18E-05	7.02E-04	1.34E-05	#DIV/0!	4.39E+02	#DIV/0!	3.28E+04	3.3E+04	
TAME	1.09E-03	1.68E-05	5.27E-04	1.94E-05	#DIV/0!	6.64E+02	#DIV/0!	3.43E+04	3.4E+04	
TBA	1.80E-03	3.72E-03	1.62E-03	2.92E-07	#DIV/0!	2.76E+03	#DIV/0!	9.46E+06	9.5E+06	
Benzene	1.20E-03	1.03E-05	4.07E-04	3.09E-05	4.93E-01	4.39E+01	1.60E+01	1.42E+03	1.6E+01	
Formaldehyde	9.42E-02	3.20E-01	6.51E-02	5.03E-07	3.11E-01	1.02E+03	1.00E+03	3.57E+06	1.0E+03	