APPENDIX 6 PHOTOGRAPHIC DOCUMENTATION





Date: 04-07-2007

Direction: S **Time:** 15:07

River Levee, as it crosses entrance to Gilmar Marine Services, Inc., Description: Baton Rouge Trail (BRT), located atop Mississippi (GMS) former facility location (Site).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Time: 15:08 Date: 04-03-2007

Direction: SW

Description: Panorama of GMS Site as viewed from the intersection



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Time: 15:08

Date: 04-03-2007

Direction: W

Description: Panorama of GMS Site as viewed from the intersection of BRT and the GMS Site access road (2 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 **Time:** 15:08

Direction: W

Description: Panorama of GMS Site as viewed from the intersection of BRT and the GMS Site access road (3 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 **Time:** 15:08 **Direction:** NW

Description: Panorama of GMS Site as viewed from the intersection of BRT and the GMS Site access road (4 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 **Time:** 15:08

Direction: N

Description: Panorama of GMS Site as viewed from the intersection of BRT and the GMS Site access road (5 of 5). Note Interstate-10 Mississippi River Bridge and Downtown Baton Rouge in background.



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:09 **Direction:** W

Description: GMS Site as viewed from the intersection of BRT and

the GMS Site access road.



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:10 **Direction:** NE

Description: Home Oil Company as viewed from the intersection of BRT and the GMS Site access road.



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:10 Direction: ESE

Description: Baton Rouge Warehouse Site as viewed from the intersection of BRT and the GMS Site access road.



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 **Time:** 15:15 **Direction:** S

Description: Panorama of GMS Site as viewed from BRT, approximately 400 feet north of the GMS Site access road (1 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment Date: 04-03-2007 Time: 15:15 Direction: SW

Description: Panorama of GMS Site as viewed from BRT, approximately 400 feet north of the GMS Site access road (2 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:15 **Direction:** E

Description: Panorama of GMS Site as viewed from BRT, approximately 400 feet north of the GMS Site access road (3 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:15 Direction: NW

Description: Panorama of GMS Site as viewed from BRT, approximately 400 feet north of the GMS Site access road (4 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:15 Direction: N

Description: Panorama of GMS Site as viewed from BRT, approximately 400 feet north of the GMS Site access road (5 of 5). Note Interstate-10 Mississippi River Bridge and Downtown Baton Rouge in background.



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:20 Direction: SSE

Description: Panorama of GMS Site as viewed from BRT, approximately 800 feet north of the GMS Site access road (1 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment Date: 04-03-2007 Time: 15:20 Direction: S

Description: Panorama of GMS Site as viewed from BRT, approximately 800 feet north of the GMS Site access road (2 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment Date: 04-03-2007 Time: 15:20 Direction: SW

Description: Panorama of GMS Site as viewed from BRT, approximately 800 feet north of the GMS Site access road (3 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Date: 04-03-2007 Time: 15:20 **Direction:** E

Description: Panorama of GMS Site as viewed from BRT, approximately 800 feet north of the GMS Site access road (4 of 5).



Site: Gilmar Marine Services, Inc., Preliminary Assessment Date: 04-03-2007

Time: 15:20

Direction: NE

approximately 800 feet north of the GMS Site access road (4 of 5). **Description:** Panorama of GMS Site as viewed from BRT,



Site: Gilmar Marine Services, Inc., Preliminary Assessment

Direction: N **Time:** 15:20 Date: 04-03-2007

approximately 800 feet north of the GMS Site access road (5 of 5). Note Interstate-10 Mississippi River Bridge and Downtown Baton **Description:** Panorama of GMS Site as viewed from BRT Rouge in background.

APPENDIX 7

LOUISIANA DEPARTMENT OF ENVIRONMENTAL QUALITY ELECTRONIC DOCUMENT MANAGEMENT SYSTEM RECORDS FOR AI 8003

LDEQ EDMS DOCUMENT QUERY RESULTS # query was run on 4/5/2007 10:13:53 AM

9			048					4			de Ja			15				di Ja	
Review Summary - (Added by E&E)	1 Memo of field investigation, 1974	Letter to Water Pollution Division, 1974	Notice of review of application, 1975	Application for Water Discharge (description of operations)	7 Application for Water Discharge Permit	EPA Form 7550-23, National Pollutant Discharge Elimination System Application for Permit to Discharge	Certificate for Approval of Emissions for Barge Cleaning Operations, Approval of Permit Request	Letter to the Division of Air Control and Occupational Health	Notification of Application Review, 1975	Modification of Permit Application	Notice of Receipt of Waste disposalPermit	12 NPDES Permit	12 Public Notice NPDES Permit	Management change notification at Gilmar Marine	Cover Letter for Permit	Odor complaint investigation-ethyl acrylate vapors caused odors in Downtown Baton Rouge near 4th street. Operations suspended until wind changed	Violation	22 Analytical Report	2 Notice of Service
Pgs	1		-	8	7	1	100		-	-	3	12	12	-	-		\ <u></u>	22	2
Division					Permits	Permits		,		Permits		Permits	Permits						
Media	Air Quality	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Air Quality	Air Quality	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Air Quality	Air Quality	Air Quality	Surface Water	Surface Water
Description																	30	12/8/1980 ANALYTICAL	
Date	8/21/1974	10/2/1974	1/15/1975	1/16/1975	1/16/1975	1/17/1975	2/7/1975	2/10/1975	5/16/1975	5/27/1975	8/1/1975	4/25/1978	4/25/1978	6/5/1978	10/9/1979	1/6/1980	1/6/1980	12/8/1980	12/23/1980
Document Subtype															**	Note/Memo			Notice
Document Type	Correspondence- Received	Correspondence- Received	Correspondence- Received	Correspondence- Received	8003 Permits	8003 Permits	8003 Permits	Correspondence- Received	Correspondence- Received	8003 Permits	-egal	8003 Permits	8003 Permits	Correspondence- Received	Correspondence- Sent	Correspondence- Internal	Correspondence- Received	8003 Reports	8003 Compliance
A	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003 Legal	8003	8003	8003 F	8003	8003	8003	8003	8003 (
Document ID	20011093	15855290	15855356	15855341	15855349	15855357	21720825	20011092	15855340	15855132	15855129	15855104	15855116	15855289	21721041	21721039	21721040	15855291	15855028

LDEQ EDMS DOCUMENT QUERY RESULTS # query was run on 4/5/2007 10:13:53 AM

	ъ р				H										e			
Review Summary - (Added by E&E)	Notice of Violation Compliance Order – on 12/18/1980 odor complaints prompted LDNR inspection of the facility. Violations included oil and other chemicals discharging to the Mississippi River (MR), oil and chemical wastes overflowed onto the batture, and evidence on the barge decks of discharged directly into the MR. Also GMS had constructed and operated equipment for which no air emission permit had been granted.	4 Notice of Violations and Compliance order	2 Letter of intent to discuss notice of violation	2 Memo to Asst Sec of DNR re the violation	4 Request by GMS for extension	30 NPDES Compliance inspection Report	1 Analytical results from lab tests	61 Draft Application for Approval of Emissions	2 Memo on alleged water violations	2 Newspaper Article	3 Samples collected for analysis	5 Addendum to samples reported	1 Installation Inspection Form	1 Facility Inspection Form	Memo of Inspection. Recommendation of site to be turned over to Inactive and Abandoned Sites program.	1 Memo stating that GMS was not operating	Field Interview Form	3 Referral of Potential Superfund Sites, GMS included
Pgs		4	2	2	4	30	Ť	61	2	2	3	5	-	-	2	-	-	е п
Division				7														Remediation Services
Media	Surface Water	Air Quality	Surface Water	Surface Water	Air Quality	Surface Water	Surface Water	Air Quality	Surface Water	Air Quality	Surface Water	Surface Water	Surface Water	Surface Water	Surface Water	Air Quality	Surface Water	Inactive & Abandoned Sites
Description							3/2/1981 ANALYTICAL RESULTS				SAMPLE	5/28/1981 ANALYSIS						
Date	12/23/1980	12/23/1980	1/13/1981	1/22/1981	1/23/1981	2/24/1981	3/2/1981	4/7/1981	4/10/1981	4/13/1981	5/22/1981 SAMPLE	5/28/1981	1/27/1983	1/5/1984	5/24/1988	5/16/1995	9/4/2001	6/9/2003
Document Subtype				Note/Memo		Inspection				Note/Memo			Inspection	Inspection	Note/Memo	Note/Memo	Inspection	
Document Type	Legal	Correspondence- Received	Correspondence- Sent	Correspondence- Internal	8003 Permits	8003 Reports	8003 Reports	8003 Forms	Correspondence- Received	Correspondence- Internal	8003 Reports	8003 Reports	8003 Reports	8003 Reports	Correspondence- Internal	Correspondence- Internal	8003 Reports	Correspondence- Sent
₹	8003 Legal	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003	8003
Document	15855030	21721042	15855026	15855024	22051339	15855259	15855258	21720703	15855313	21721037	15855255	15855250	15855249	15855248	15855037	21721026	23350464	27556097

LDEQ EDMS DOCUMENT QUERY RESULTS # query was run on 4/5/2007 10:13:53 AM

Review Summary - (Added by E&E)	71 Preliminary PA by E&E	l PA Phase 1	1 Site Screening		
Pgs	71	S —85	(Appl)		
Division	Remediation Services	Remediation Services	Remediation Services		
Media	Inactive & Abandoned Sites	Iliminary Inactive & Iluation Abandoned Assment Abandoned Ise I-cover Sites	Inactive & screening Abandoned Sites		
Description	Preliminary 1/8/2004 evaluation assessment phase I	Preliminary evaluation Inactinassessment Abanc phase I-cover Sites page			
Date	1/8/2004	Pre eva 1/8/2004 ass pha pag	1/8/2004 Site		
Document Subtype					
Al Document Type Subtype	Reports	Reports	Reports		
¥	8003	8003	8003		
Document ID	32451020 8003 Reports	32451128 8003 Reports	32451130 8003 Reports		

APPENDIX 8 FACILITY OWNER INFORMATION



Louisiana Secretary of State COMMERCIAL DIVISION Corporations Database



Print Annual Report/Reinstatement

Louisiana Secretary of State Detailed Record

Charter/Organization ID: 30225860F

Name: GILMAR MARINE SERVICES, INC.

Type Entity: Business Corporation (Non-Louisiana)

Status: Not Active (Action by Secretary of State)

2007 Annual Report/Reinstatement form is required in order to reinstate

Form For Filing

Mailing Address: 100 FIFTH AVENUE, PITTSBURGH, PA 15222

Domicile Address: 100 WEST 10TH STREET, WILMINGTON, DE 19801

Principal Office: 100 FIFTH AVENUE, PITTSBURGH, PA 15222

Principal Bus. Est. in Louisiana: 1500 RIVER ROAD, BATON ROUGE, LA 70802

Qualified: 06/13/1973

President: RAYMOND A. SMEGO, 1750 PATRICK PL., LIBRARY, PA 15129

Secretary: LOIS V. SMEGO, 1142 WOODLAWN, BETHEL PARK, PA 15102

Treasurer: RAYMOND A. SMEGO, 1750 PATRICK PL., LIBRARY, PA 15129

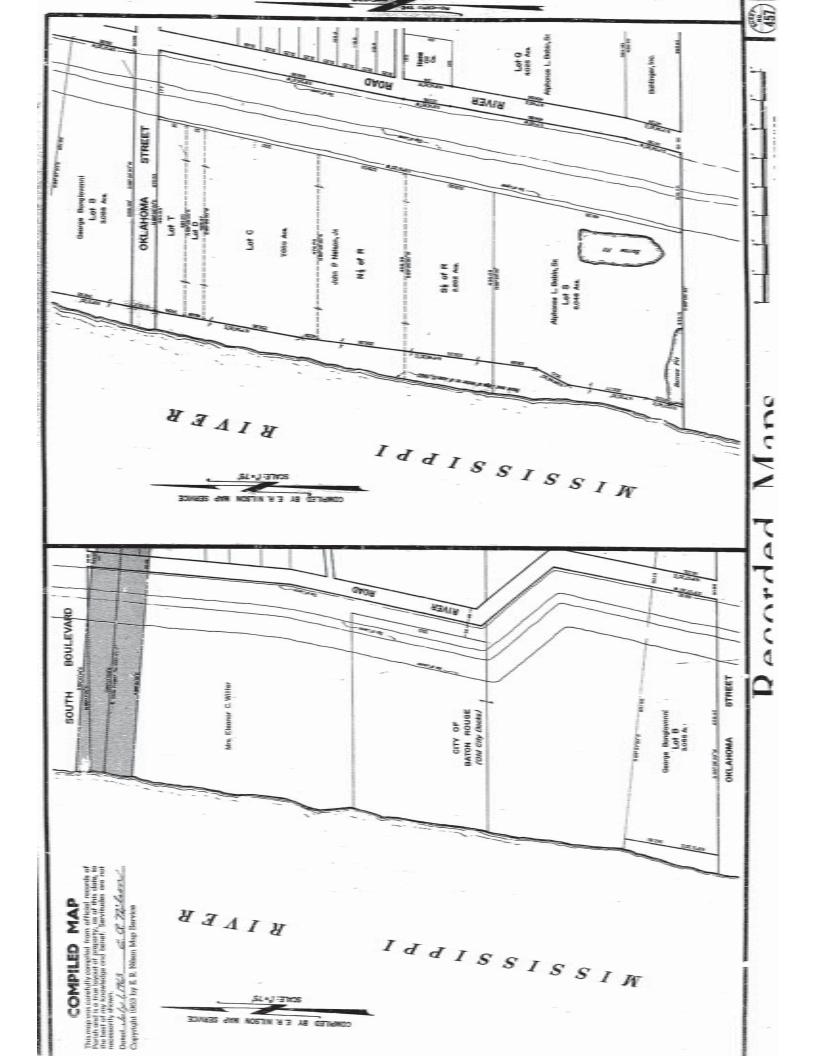
Additional officers may exist on document

Amendments on File STMT OF CHG OR CHG PRIN BUS OFF (FOREIGN (07/06/1993) STMT OF CHG OR CHG PRIN BUS OFF (FOREIGN (04/01/1986) REVOKED (10/21/1985) STMT OF CHG OR CHG PRIN BUS OFF (FOREIGN (02/22/1985)

New Search

View Cart

APPENDIX 9 PROPERTY OWNERSHIP DOCUMENTATION



DPTTTI07 DISPLAY PROPERTY INFORMATION TYPE-WARD-SECT-ASSESS 1 1 3 29761 PROPERTY NUMBER 00629871 OWNER NO 504-2426-2 NAME1 W.W. MINERALS, INC. ADDR 8126 ONE CALAIS AVE., SUITE 1-C ADDR ADDR BATON ROUGE, LA 70809 ZIP 70809 SUBDIV LOT ACRES ****** PROPERTY DESCRIPTION ****** SQUARE FOUR CERTAIN LOTS DESIGNATED AS LAND ASSESS BATTURE LOTS T, D. C AND R, SUB. OF THE A. STRENZKE AND E. WITTING 19,000 LOT ASSESS 0 **IMPROVEMENT** TRACTS, SUB. MAGNOLIA, FRONTAGE OF 0 HOMESTEAD EXEMPTION 874.50 FT. ON EAST SIDE OF 0.00 HMSTD EXEMPT AMT MISSISSIPPI RIVER, NORTH LINE OF 0.00 INTEREST DUE 493.53 FT.; SOUTH LINE OF 436.03 FT. INTEREST PTD 0.00 1973. (54-8584). INTEREST RTD 0.00 (11-16-84) (8-9710)COST DUE 0.00 0.00 COST PTD 0.00 COST RTD 0.00 CALC BALANCE DUE

PF9-RETURN TO PREVIOUS SCREEN



Louisiana Secretary of State COMMERCIAL DIVISION Corporations Database



Louisiana Secretary of State Detailed Record

Charter/Organization ID: 34131348D

Name: W W MINERALS, INC.

Type Entity: Business Corporation

Status: Active

Annual Report Status: In Good Standing Add Certificate of Good Standing to Shopping Cart

Last Report Filed on 12/22/2006

Mailing Address: 8568 GOODWOOD BLVD., BATON ROUGE, LA 70806

Domicile Address: 8568 GOODWOOD BLVD., BATON ROUGE, LA 70806

File Date: 12/30/1983

Registered Agent (Appointed 3/20/1986): JAMES O. ERVIN, 8126 ONE CALAIS AVE., #1C, BATON ROUGE, LA 70809

President: JAMES O. ERVIN, 8126 ONE CALAIS AVE., BATON ROUGE, LA 70809

New Search

View Cart

Need More Help With Your Search? 1 Result matching "(225) 769-7502"

Ervin, James O Atty

street address not available Baton Rouge, LA 70810 (225) 769-7502

SPONSORED LINKS

Power Web Search

Save to Address Book or Outlook

Map and Driving Directions

Printer-Friendly

Send Listing to my Email or

Find Nearby Businesses

Type: Land Line Provider: South Central Bell Due to number portability, some numbers have been transferred to a new service provider.

APPENDIX 10 RECORDS OF COMMUNICATION

RECORD OF COMMUNICATION

Conversation with:	Date 3/26/07
Name TAMES () CRUIN	(Mon) (Day) (Year)
Association (1) (1) MINERACS	Time 405 AMPM
Address	[Criginator Placed Call
	[] Originator Received Call
Phone 225 - 7(9, -7507 (Area Code) (Number)	_
(Area Code) (Number)	Proj. No
Subject _ GILMAR MARINE SERVICES	
Ma saul Curaus	1 - 1.21 > 11
Discussion: MR ERVIN CONFIRMED I	HAI WINEKALG
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TANK CONTENTS & SCRAP TAW	KS AROUND 1990
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COULD RETRIEVE THE RECORD	5 TAS PERMEN
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Follow-Up-Action:	<u> </u>
	_
Originator's Signature:	
	WWW.M.Sc.Wa-w

		Louisiar	FIELD INTE				Quan	ty			
Agency Interest #:	8003	3	Inspection Date Departure Date				Tir		of Arrival: eparture:		
Facility Name: Location:	1500	ar Marines Site) South River Ro on Rouge, Louisia					Phone	#:			
Mailing Address:							Parish	Name:	East_	Baton	Rouge
-		reet/P.O. Box		City			State			Zip	
Facility Representat	ive:					_ Title:					
Inspection Type: _F	Reme	diation Prog	ıram Involved:	Air		Waste		Water	Other		
Inspector's Observation	ns: (e.g. Areas and Equipme	ent Inspected, Problems, [Deficiencies	Remarks	s, Verbal Co	mmitments	from Fac	ility Represent	atives)	
The Team Leader along what appear vegetated and corprojection in the activities. The TL ato conduct the insp	red to mplet deve along	be a road goir ely overgrown. lopment of a p with Edwin Akı	ng towards the le The EPA was blan for clearing ujobi, and Keith I	eve on able to and g Horn me	the Ba deterr rubbin	atture si mine thing the s	de of the rough s site for	ne leev site ma the p	ve. The a aps and to ourpose o	rea w his in of site	as heavily spection a sampling
Areas of Concern			Explanation						Resol	lved?	NO NO NO
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ii ispector(ی. <u>ا</u> —		ison				Allachm	ents:			
Review	er: _							5			

Revised: 06/2003 Page ____1__ of __1___

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 noncompliance constitutes a separate violation of the regulations and/or the Louisiana Environmental Quality Act.

Office of the Planning Commission



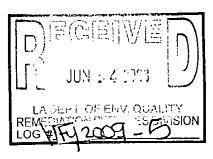
City of Baton Rouge and Parish of East Baton Rouge Post Office Box 1471, Baton Rouge, Louisiana 70821

1755 Florida Street, 3rd Floor, Baton Rouge, LA 70802 Phone (225) 389-3144 Fax (225) 389-5342 Troy L. Bunch, FASLA Planning Director

June 16, 2008

Mr. Keith Casanova, Administrator Louisiana Department of Environmental Quality Remediation Services Division Post Office Box 4314 Baton Rouge, Louisiana 70821-4314

Dear Mr. Casanova:





Enclosed, please find a Voluntary Remedial Investigation Application Form, Partial Voluntary Remedial Action Supplemental Application Form, and Remedial Investigation Work Plan for Baton Rouge Brownfields site BR119 (1320 Highland Road) for your review and approval. As described in this Remedial Investigation Work Plan, soil and groundwater samples will be collected to define site characteristics and to determine the nature and extent of contaminants for closure of the site under the Louisiana Department of Environmental Quality's (LDEQ's) Voluntary Remediation Program (VRP) and the Risk Evaluation/Corrective Action Program (RECAP), as applicable. A copy of the Remedial Investigation Work Plan has also been submitted to the U.S. Environmental Protection Agency for review of the Quality Assurance Project Plan.

Sampling activities will be initiated upon receipt of LDEQ approval of this Remedial Investigation Work Plan. The City-Parish Planning Commission will notify LDEQ in advance of mobilization to the site to allow a representative to be present, if desired.

Please contact our office if you have any questions regarding this information.

Sincerely,

roy L. Bunch, FASLA

Planning Director

Enclosure

TLB/BMH/st

RECEIVED

LDEQ

c: Duane Wilson, Staff Scientist, Louisiana Department of Environmental Quality
Tyson Hackenberg, Business Line Manager, Shaw Environmental and Infrastructure
Ellen Miller, Assistant Planning Director

RECEIPT OF CHECK

l Number	20655
ompany Name	Providence Engineering
Site Name/	Personal Touch Car Wash & Used Tires
Phone	225-766-7400
Date Received	6/24/08
Pate on Check	6/12/08
Check Number	12563
Amount Received	\$500.00

Check one Media:		
☐ Accident Prevention ☐ Air Quality	☐ Ground Water ☐ Hazardous Waste	☐ Radiation ☐ Solid Waste

Air Toxics

X Inactive and
Abandoned Sites
Asbestos and Lead

Water Resources

Comments:

VRP application fee

Initials:

vrt

JUNE 2008

BATON ROUGE CITY PARISH PLANNING COMMISSION

REMEDIAL
INVESTIGATION
WORK PLAN
1320 HIGHLAND
ROAD SITE,
BATON ROUGE,
EAST BATON ROUGE
PARISH, LOUISIANA
AI NUMBER 20655

Prepared By:

Providence
Engineering and Environmental Group
LLC
1201 Main Street

Baton Rouge, Louisiana 70802 (225) 766-7400

Project Number 146-007



Voluntary Remedial Investigation Application Form

Voluntary Remediation Program
Louisiana Department of Environmental Quality

The remedial investigation work <u>plan</u> for this site and the application review fee must be included with this Voluntary Remedial Investigation Application form, as provided in LAC 33:VI.911.A, or this Voluntary Remedial Investigation Application will be considered incomplete and not be accepted for review.

stamplicanismo mation.			
Section A: Applicant			
Name/ Company Name: OSBR La	nd, LLC		
Mailing Address: 402 N. Fourth S	t		
City: Baton Rouge	State:LA	Zip Code:70802	
Contact Person:Mark Goodson			
Phone No:225-267-6300		Fax No:225-267-6306	
Email Address:mgoodson@c-pex	.org		
Interest in Property:Property Own	er		
	serendini kalifati serenje diselenini kal		State of the state
Section B: Co-Applicant			
Name/ Company Name:			
Mailing Address:			
City:	State:	Zip Code:	
Contact Person:			
Phone No:		Fax No:	
Email Address:			
Interest in Property:			
interest in the party.			
			arsani jaranis a
Section C: Co-Applicant			
Section C: Co-Applicant Name/ Company Name:			
Section C: Co-Applicant Name/ Company Name: Mailing Address:	State:	Zin Code:	ACADAL CONTRACTOR OF THE SECOND CONTRACTOR OF
Section C: Co-Applicant Name/ Company Name: Mailing Address: City:	State:	Zip Code:	veneeli aanuus j 13. Kantaa ja ja k
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Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No:	State:	Zip Code:	A South Control of the Control of th
Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address:	State:		Mineral Community
Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No:	State:		
Section: C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address: Interest in Property:		Fax No:	AFRONIE
Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address: Interest in Property: Section D: Current Property Ox		Fax No:	
Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address: Interest in Property: Section D: Current Property Ox Name/ Company Name:		Fax No:	vr seni
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Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address: Interest in Property: Section D: Current Property Ox Name/ Company Name: Mailing Address: City: Contact Person:	vne zukalmerentin	Fax No: Zip Code:	vrienis
Section C: Co-Applicant Name/ Company Name: Mailing Address: City: Contact Person: Phone No: Email Address: Interest in Property: Section D: Current Property On Name/ Company Name: Mailing Address: City:	vne zukalmerentin	Fax No:	

VCP001 Revision 2 2/1/05

Il Site information

Agency Interest Number (if exist):20655

Site Name:Personal Touch Car Wash and Used Tire

Parish: East Baton Rouge Parish

Property Size (acres):

Physical address or direction and distance from nearest intersection:1320 Highland Rd, Baton Rouge, LA, 70802

Latitude:

30 ° 26 " 9.3 '

Longitude: 91 ° 11 " 6.2 '

Section/Township/Range (attach legal property description):S52 / T7S / R1W

Adjacent Property Owners (persons listed as owners of the adjacent properties on the rolls of the parish tax assessor as of the date on which the voluntary remediation application is submitted): The State of Louisiana through the Board of Elementary and Secondary Education, Woodrow A. Jones. Jonco Properties, Inc., Alfred J. Jackson, Franklin Press, Inc., Bank One, N.A., Alsie Banks, Stella M. Banks, Southland Properties, Inc., James Ross, Harold Ross, Charlene Ross

Current Property Use (Describe in detail. Use percentages if more than one use.):The subject tract currently supports one commercial building associated with the former Personal Touch Car Wash and Used Tire business operations at the site. Two abandoned houses are also located on the site near the corner of Highland Road and Oklahoma Street. These buildings are currently not being utilized, and will be demolished prior to redevelopment of the site. Development plans for the property include a mix of residential and commercial use. However, the property will be developed primarily for residential use.

Past (historical) Property Use (Describe in detail): Prior ownership/use included a church (St. Paul's Baptist Church/Rock Zion Baptist Church), a service station (formerly Highland Gulf) and most recently an auto detailing and tire station (Personal Touch Car Wash and Used Tire). This property currently houses an abandoned commercial building from the most recent operations. Other portions of the

subject property were used for residential purposes. Two houses currently present at the site are vacant.

Underground Storage Tank (UST) Registration Certificates for 1320 Highland Road are on file at the LDEQ for the years 2003 and 2005. Registered tanks included three 8,000 gallon gasoline tanks and one 500 gallon used oil tank. However, based on additional information contained in LDEQ's files (i.e. a Field Interview Form dated June 7, 2004), these tanks may have been closed in place sometime prior to 2004. Seven groundwater monitoring wells are also present at the site.

Future Property Use (Describe in detail. Use percentages if more than one use.):Development plans for the property include a mix of residential and commercial use. However, the property will be developed primarily for residential use.

Current Land Use Surrounding Property: Surrounding land use supports commercial and residential development. Specifically, the subject property is bordered to the north across Terrace Avenue by vacant lots and a technical college, to the south by residential properties, and to the west by both residential and vacant lots. The Highland Terrace Mechanic Shop (formerly Highland Terrace Amoco; Agency Interest Number 20637) is located at 1375 Highland Road, opposite the subject property and to the east. Franklin Printing Press is also located to the east of the subject property along Highland Road.

Contaminant Type(s) and Affected Media:Soils - Chromium, BTEX
Groundwater - BTEX, Volatile and Extractable Petroleum Hydrocarbon fractions, Metals, PAHs

Applicant(s) must also attach to this form all available historical assessment and or investigation information available for the site, including Phase 1 and 2 Assessments, analytical data, etc.

III Eligibility information	
Permitted Hazardous Waste Unit(s) on site?	Yes 🛛 🖾 No
Site Proposed for Listing on the NPL?	Yes 🛛 No
Site Listed on the NPL?	Yes 🛛 No
Any Pending Federal Environmental Enforcement Actions	∫Yes ⊠ No
Associated with the Site?	
If yes, explain N/A	
Any portion of the site UST Trust Fund Eligible?	Yes ⊠ No
If yes, explain N/A	- I K-N · · ·
	•
IV. Type of Voluntary Remedial Action Proposed	
☐ Voluntary Remedial Action	
Partial Voluntary Remedial Action (See note below)	
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Partial Voluntary Remedial Action Supplemental Application Form

Voluntary Remediation Program
Louisiana Department of Environmental Quality

If a partial remediation is to be performed, one each of this form must be completed by the applicant and by each co-applicant and attached to the Application Form.

A Partial Remediation Agreement must be completed. Contact the Team Leader for the form. Applicant Information Check One: Applicant Co-Applicant Name/ Company Name: OSBR Land, LLC Agency Interest Number (if one exists): 20655 Site Name: Personal Touch Car Wash and Used Tire Interest in Property:Property Owner II. Answer the following questions by checking the appropriate answer Were you a generator who generated a hazardous Yes ⊠ No substance that was disposed of or discharged at the site? Were you a transporter who disposed of or discharged a Yes No. hazardous substance or hazardous waste at the site? Were you a disposer who disposed of or discharged a No. hazardous substance or hazardous waste at the site? Did you contract with someone for transportation or Yes ⊠ No disposal at the site? III. If you are or were an owner or operator of the site subsequent to the disposal of hazardous waste, answer the following questions by checking the appropriate answer Were you engaged in the business of generating, ⊠ No Yes transporting, storing, treating, or disposing of a hazardous substance or hazardous waste on or in the site? Did you knowingly permit any person to make regular use Yes ⊠ No of the property for disposal of waste? Did you knowingly permit any person to use the site for ☐ Yes ⊠ No disposal of a hazardous substance? Did you know or should you have reasonable known that a ☐ Yes **⋈** No hazardous substance was located in or on the site at the time right, title, or interest in the site was first acquired by the person and engaged in conduct associating that person with the discharge or disposal? Did you take action that significantly contributed to the Yes ⊠ No discharge or disposal after that person knew or reasonable should have known that a hazardous substance was located in or on the site?

NOTE: If "Yes" is answered to any question, applicant is not eligible for a partial remediation.

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1.0 INTRODUCTION

This Remedial Investigation Work Plan describes field sampling activities to be conducted in support of an assessment of the subject property shown in Figures 1 (Site Location Map) and 2 (Area Parcel Map). The site includes 1320 Highland Road (Personal Touch Car Wash and Used Tire; Agency Interest Number 20655) in Baton Rouge, East Baton Rouge Parish, Louisiana and several neighboring lots (see Figure 2). The site is herein referred to as the "1320 Highland Road Site" for simplicity purposes, but includes all lots located within the property boundary as shown in Figure 2.

Phase I and Phase II Environmental Site Assessment (ESA) activities have been conducted at the subject property on behalf of the City Parish Planning Commission (CPPC) by Providence Engineering and Environmental Group LLC (Providence). Based on the results of the Phase II ESA activities as further described in Section 3.0, Constituents of Concern (COC) have been detected at the site in soil and groundwater at concentrations exceeding the Louisiana Department of Environmental Quality's (LDEQ's) Risk Evaluation/Corrective Action Program (RECAP) Screening Standards. As described in this Remedial Investigation Work Plan, soil and groundwater samples will be collected to further define site characteristics and to determine the nature and extent of contaminants under the LDEQ's Voluntary Remediation Program (VRP) and the RECAP, as applicable. The site investigation activities will be funded under a grant from the Baton Rouge Brownfields Program, which is administered by the CPPC.

The specific methods and protocol for collecting samples, the analytical procedures and parameters of interest, the field and laboratory Quality Assurance/Quality Control (QA/QC) protocol that will be followed, and the estimated schedule to complete the proposed field sampling activities are presented herein. All site investigation activities will be conducted in accordance with this Remedial Investigation Work Plan as approved by the LDEQ and applicable VRP/RECAP site investigation requirements.

2.0 SITE DESCRIPTION

2.1 Site Location

The location of the property is shown on **Figure 1**. The subject property includes 1320 Highland Road in Baton Rouge, Louisiana and neighboring lots as shown in **Figure 2**. The current layout of the property is shown on the site aerial photograph provided as **Figure 3**.

2.2 Current/Intended Future Use of the Property

The subject tract currently supports one commercial building associated with the former Personal Touch Car Wash and Used Tire business operations at the site. Two abandoned houses are also located on the site near the corner of Highland Road and Oklahoma Street. These buildings are currently not being utilized, and will be demolished prior to redevelopment of the site. Development plans for the property include a mix of residential and commercial use. However, the property will be developed primarily for residential use.

2.3 Current Uses of Adjoining Properties

Surrounding land use supports commercial and residential development. Specifically, the subject property is bordered to the north across Terrace Avenue by vacant lots and a technical college, to the south by residential properties, and to the west by both residential and vacant lots. The Highland Terrace Mechanic Shop (formerly Highland Terrace Amoco; Agency Interest Number 20637) is located at 1375 Highland Road, opposite the subject property and to the east. Franklin Printing Press is also located to the east of the subject property along Highland Road.

2.4 Site Hydrology, Geology, and Hydrogeology

Elevation at the site is approximately 45 feet above the National Geodetic Vertical Datum (N.G.V.D.) for mean sea level. Drainage from the site appears to be to the west.

The site occurs within the southwestern Holocene backswamp deposits. They consist of fine-grained, usually clayey and often organically rich sediments that underlie flood basins between meander-belts. Based on borings installed at the site during the Phase II ESA activities (see **Appendix A**), the shallow subsurface is characterized by a silty to sandy clay to the depth of the boreholes [maximum of 24 feet below ground surface (ft bgs)]. An intermittent transmissive zone (typically comprised of silt to clayey silt) was observed in borings at approximately 15 ft bgs. The transmissive zone was approximately three feet thick. Underlying the transmissive zone is a confining clay layer.

2.5 Current Groundwater Use

A survey of the Louisiana Department of Transportation and Development (LDOTD) registered water wells located within a one-mile radius of the site was conducted. As shown in **Appendix B**, there are 88 registered wells within a one-mile radius of the site. Most of the wells registered are either plugged, abandoned, monitoring wells, or piezometers. Four of the 88 registered wells are utilized as public use; however the wells are all drilled to a depth of over 2,200 feet. Other registered wells include four

observation wells, one domestic well, and one cathodic protection well, and one irrigation well.

2.6 Site History

A search of previous land use and activity was conducted through both a review of historical Sanborn Map reports (1923, 1946, 1950, and 1969) and through a City Directory search conducted by Environmental Data Resources, Inc. During prior ownership, the three lots identified as "UND" and lot 3 on **Figure 2** housed residential properties, a church (St. Paul's Baptist Church/Rock Zion Baptist Church), a service station (formerly Highland Gulf) and most recently an auto detailing and tire station (Personal Touch Car Wash and Used Tire). This property currently houses an abandoned building from the most recent operations. Lot 4E of the subject property was used for residential purposes (1350, 1352, 1356, and 1358 Highland Rd) until the mid 1990's, at which time the area became vacant. The remainder of the property all served as residential lots up to as recently as 2007 (1378 Highland Rd), but are all now vacant.

Underground Storage Tank (UST) Registration Certificates for 1320 Highland Road are on file at the LDEQ for the years 2003 and 2005. Registered tanks included three 8,000 gallon gasoline tanks and one 500 gallon used oil tank. However, based on additional information contained in LDEQ's files (*i.e.* a Field Interview Form dated June 7, 2004), these tanks may have been closed in place sometime prior to 2004. Seven groundwater monitoring wells are also present at the site.

3.0 PREVIOUS SITE INVESTIGATION ACTIVITIES

Providence was contracted by the CPPC to conduct a Phase I ESA of the site and surrounding properties. Based on the results of the Phase I ESA, recognized environmental conditions were identified at the site. Soil and groundwater samples were collected as part of Phase II ESA activities conducted at the site in September 2007 to determine if impacts from previous operations at the site are present prior to redevelopment of the site under the Baton Rouge Brownfields Program administered by the CPPC.

Phase II activities conducted in September 2007 included the installation of seven borings for the collection of soil and groundwater samples. Soil and groundwater analytical results are summarized in **Tables 1** and **2**, respectively. Boring locations are shown in **Figure 3**, while the boring logs are provided in **Appendix A**. The analytical laboratory reports are provided as **Appendix C**. Field activities were conducted in accordance with the LDEQ's RECAP and the September 2007 Quality Assurance Project Plan (QAPP) as approved by the United States Environmental Protection Agency (USEPA). Results of the Phase II ESA are summarized in the following sections.

3.1 Soil Analytical Results

Soil analytical testing parameters included benzene, toluene, ethylbenzene and total xylenes (BTEX), semivolatile organic compounds (SVOCs), volatile and extractable petroleum hydrocarbon (*i.e.* VPH and EPH) fractions, and 8 Resource Conservation and Recovery Act (RCRA) total metals. As shown in **Table 1**, soil analytical results were compared to the soil Limiting Screening Standards (LSS) applied based on non-industrial land use, as redevelopment plans include a mix of residential and commercial use. The soil LSS applied were the lower of the RECAP Non-Industrial Soil (Soil_{SSni}) and the Soil Protective of Groundwater (Soil_{SSGW}) standards provided in Table 1 of RECAP (LDEQ 2003).

Detected concentrations were less than the LSS applied, with the exception of the following:

- Benzene concentration of 0.13 milligrams per kilogram (mg/Kg) exceeded the LSS applied of 0.051 mg/Kg at location B-7 (0-2).
- Detected concentrations of chromium exceeded the LSS applied of 23 mg/Kg in soil samples collected from borings B-4 (26-28) and B-6 (0-2). Maximum detected chromium concentration was 182 mg/Kg.

Based on initial testing results, the detected concentration of 234 mg/Kg of lead at location B-4 (0-2) exceeded the LSS applied of 100 mg/Kg. Based on subsequent Synthetic Precipitation Leaching Procedure (SPLP) lead analysis, concentrations in soils were determined to be protective of groundwater per Section H1.1.1 of RECAP (LDEQ 2003), as the SPLP-lead concentration of 0.00515 milligrams per liter (mg/L) is less than the GW1 x 20 (or, 0.015 mg/L x 20 = 0.3 mg/L). Therefore, the Soil_{SSni} of 400 mg/Kg was applied as the LSS for lead. Lead concentrations were less than 400 mg/Kg.

Due to potential pica concerns for any future child residents at the site, and a need to better understand the possible source of lead in this area of the site, additional testing of soil lead concentrations was conducted in December 2007 in the vicinity of B-4. Additional lead samples were collected from a total of 10 surface soil locations, including borings B-4 (A) through B-4 (J). As shown in **Table 1**, additional lead testing results ranged from 2.62 – 5.05 mg/Kg. Based on the pattern of detected concentrations, the detected lead concentration of 234 mg/Kg appears to be an anomalous, localized impact. Borings locations are included in **Figure 3**, and the analytical laboratory report is included in **Appendix C**.

3.2 Groundwater Analytical Results

Groundwater analytical results were compared to the RECAP Groundwater Screening Standard (GW_{SS}) provided in Table 1 of RECAP

(LDEQ 2003). The groundwater analytical results compared to the respective GW_{ss} are summarized in **Table 2**.

Groundwater samples were analyzed for BTEX, polycyclic aromatic hydrocarbons (PAHs), VPH and EPH fractions, and total RCRA metals. As shown in **Table 2**, all borings had at least one COC detected at concentrations exceeding the GW_{SS} applied. COC detected above the GW_{SS} in at least one boring included:

- Benzene
- Ethylbenzene
- C₈-C₁₀ Aliphatics
- C₈-C₁₀ Aromatics
- C₁₀-C₁₂ Aliphatics
- C₁₀-C₁₂ Aromatics
- C₁₆-C₂₁ Aromatics
- C₂₁-C₃₅ Aromatics
- Total Mercury
- Total Arsenic
- Total Barium
- Total Cadmium
- Total Chromium
- Total Lead
- 2-Methylnaphthalene
- Naphthalene

Maximum detected concentrations of petroleum hydrocarbons and indicator constituents (*i.e.* benzene, ethylbenzene, applicable VPH and EPH fractions, 2-methylnaphthalene, and naphthalene) were observed at location B-6. For metals, maximum detected concentrations were observed at location B-3.

Location B-3 is outside the current property boundary as shown in **Figure 3**. In addition to total mercury, arsenic, barium, cadmium, chromium, and lead, 2-methylnaphthalene was also detected above the GW_{SS} at this location. Exceedances observed at location B-3 will not be addressed as part of the delineation activities as proposed herein.

4.0 SITE INVESTIGATION ACTIVITIES

A total of ten borings, nine delineation borings and one boring for further source characterization at existing sampling location B-6, are proposed to be advanced for soil and/or groundwater sample collection. Further source characterization will be conducted prior to and separate from the delineation effort. The delineation borings will be installed after results of the source characterization borings are reviewed. The specific methods that will be followed for the collection of soil and groundwater samples are summarized in the following sections.



LDEQ RECEIPT

Shaw Environmental, Inc.

4171 Essen Lane Baton Rouge, LA 70809 225-932-2500

FAX: 225-987-7300

2010 SEP 21 AM 3 34

September 20, 2009

Mr. Thomas F. Harris, Administrator Remediation Services Division Louisiana Department of Environmental Quality P.O. Box 4313 Baton Rouge, Louisiana 70821-4313

Re: Voluntary Remedial Action Report

OSBR Land, LLC 1320 Highland Road Baton Rouge, East Baton Rouge Parish, Louisiana Agency Interest No. 20655



On behalf of OSBR Land, LLC, Shaw Environmental, Inc. is pleased to submit three (3) copies of the Voluntary Remediation Program Remedial Action Report for the above referenced facility.

If you have any questions, or need additional information, please do not hesitate to call me at (225) 987-7323.

Sincerely,

Shaw Environmental, Inc.

Tyson Hackenberg Senior Project Manager

Attachments

Cc: Mr. Duane Wilson, LDEQ

Mr. Cornelius Payne, OSBR Land, LLC

Ms. Susan Ludwig, CPEX

VOLUNTARY REMEDIATION PROGRAM (VRP) REMEDIAL ACTION REPORT

OSBR Land, LLC 1320 Highland Road Baton Rouge, Louisiana

Agency Interest No. 20655 Project No. 135684

September 2010

Prepared for:

OSBR Land, LLC 1614B Oretha Castle Haley Boulevard New Orleans, Louisiana 70113

Prepared by:

Shaw Environmental, Inc. 4171 Essen Lane Baton Rouge, Louisiana 70809

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Figure 4 Figure 5 Areas of Excavation

Monitoring Well Locations

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Appendix B Notification of Intent to Perform a Closure or Change-In-Service to an

Underground Storage Tank System

Appendix C SEMS Summary of Site Activities

Appendix D Photographs

Appendix E Lead 95% UCL-AM Spreadsheet

Appendix F Survey Map

Appendix G Confirmatory Site Investigation Report

Appendix H LDEQ Letter Approving CSI Recommendations

Acronyms and Abbreviations

bgs Below ground surface

BTEX Benzene, Toluene, Ethylbenzene, and Total Xylenes

COC Constituent of Concern

CSI Confirmatory Site Investigation

EPA U.S. Environmental Protection Agency

LAC Louisiana Administrative Code

LDEQ Louisiana Department of Environmental Quality

LDOTD Louisiana Department of Transportation and Development

mg/Kg milligrams per kilogram
mg/L milligrams per liter
MO-2 Management Option 2
MTBE Methyl-Tert-Butyl Ether

NOI Notice of Intent
OSBR Land, LLC

PAH Polycyclic Aromatic Hydrocarbons

Providence Engineering and Environmental, LLC

QA/QC Quality Assurance/Quality Control
REC Recognized Environmental Condition
RECAP Risk Evaluation/Corrective Action Program

RS RECAP Standard

SAP Sampling and Analysis Plan

SEMS Southern Environmental Management Specialties, Inc.

Soil_{esni} Non-Industrial Soil beneath Enclosed Structures Soil_{ni} Non-Industrial Soil Protective of Human Health

Soilssew Soil Protective of Groundwater SPL Southern Petroleum Laboratories

SST Soil Sampling Train
SVI Soil Vapor Insert

TBA II Targeted Brownfields Assessment II Program

TPH-GRO Total Petroleum Hydrocarbons-Gasoline Range Organics
TPH-DRO Total Petroleum Hydrocarbons-Diesel Range Organics
TPH-ORO Total Petroleum Hydrocarbons-Oil Range Organics

ug/m³ Micrograms per cubic meter
UST Underground Storage Tank
VRAR Voluntary Remedial Action Report
VRAP Voluntary Remedial Action Plan

VRIR Voluntary Remedial Investigation Report

VRP Voluntary Remediation Program

1.0 Introduction

OSBR Land, LLC (OSBR) is a single entity wholly owned by Gulf Coast Housing Partnership, Inc. This Voluntary Remediation Program (VRP) Remedial Action Report (VRAR) has been prepared to document remedial activities performed at the OSBR site located at 1320 Highland Road, Baton Rouge, Louisiana. This remediation was performed using, in part, funding from a EPA 104(k) Brownfields Cleanup Grant. A vicinity map showing the location of the site is provided as Figure 1. The remedial activities included removal of various subsurface features associated with historical use of the property as an automobile service station. The VRAR has been prepared pursuant to Louisiana Administrative Code (LAC) Title 33, Part VI, Chapter 9.

1.1 Site Description

The OSBR parcels, hereinafter referred to as "the site," include lots 1 through 7 and lot B of square 279, as illustrated in the site boundaries map included as Figure 2. This VRAP specifically targets lot 1 and a portion of lots 2 and 3 of square 279, which were historically operated as an automobile service station with an address of 1320 Highland Road.

The site is currently a vacant concrete paved lot, subsequent to the demolition of on-site structures in July 2008. Figure 3 presents a facility map with locations of pertinent former and existing site features, including boring locations from the voluntary remedial investigation.

Historically and prior to OSBR's acquisition of the site, businesses/tenants that operated at the subject site included a church, a service station, and an automobile detailing and tire business. During the time of operation as a service station, at least four USTs, two fuel dispensers, one hydraulic lift, and one service bay sump were operated on-site.

The site is proposed for a mixed use, residential and commercial, development by OSBR. Accordingly, remedial actions utilized site clean up goals based on non-industrial standards, pursuant to guidance included in the Louisiana Department of Environmental Quality's (LDEQ's) Risk Evaluation / Corrective Action Program (RECAP) document, dated October 2003.

2.0 Previous Activities

2.1 Phase I Environmental Site Assessment

A *Phase I Environmental Site Assessment Report*, dated June 2008, was prepared by Providence Engineering & Environmental Group, LLC (Providence). Findings of the Phase I Environmental Site Assessment included recognized environmental conditions (RECs) associated with former uses of the subject site.

2.2 Voluntary Remedial Investigation

The site was entered into the LDEQ's VRP, and a Voluntary Remedial Investigation Work Plan (Work Plan) was prepared and submitted to the LDEQ in June 2008. The Work Plan was approved by the LDEQ with modifications in correspondence dated October 22, 2008. The site investigation activities were completed in November 2008. A Voluntary Remedial Investigation Report (VRIR), which included a RECAP assessment, was submitted to LDEQ in December 2008. The VRIR was approved, with comment, by the LDEQ in correspondence dated March 6, 2009.

The results of the site investigation indicated that petroleum impacts were present in soil and groundwater, predominantly in the northern half of the property and in the immediate vicinity of the three 8,000 gallon underground storage tanks (USTs). The highest concentrations of petroleum hydrocarbon compounds in soil and groundwater were detected in the area of boring locations B-6 and B-10. Figure 3 depicts the sample locations from the Voluntary Remedial Investigation.

The Results of the VRIR revealed that groundwater concentrations of certain constituents of concern (COC) exceeded the limiting Management Option 2 (MO-2) RECAP Standards (RS). Additionally, the presence of the previously described components of a typical UST site and the potential for impacted soil surrounding those components constituted a potential risk to human health and the environment, if not addressed.

2.3 Voluntary Remedial Action Plan

A Voluntary Remedial Action Plan (VRAP) was prepared by Shaw and submitted to the LDEQ in July 2009. The proposed remedial action activities included excavation, removal, and disposal of the UST systems, the hydraulic lift system, the service bay sump and impacted soil (as necessary) in close proximity to the various components. The VRAP also allowed for the implementation of engineering and/or institutional controls, if necessary. The VRAP included a Sampling and Analysis Plan, Quality Assurance Plan, and Voluntary Remedial Action

application. The LDEQ issued final approval of the VRAP and Voluntary Remedial Action Application in correspondence dated September 3, 2009 (Appendix A).

3.0 VRP Remedial Actions and Results

3.1 Public Notice

Public notice and direct notification to adjacent landowners was made in accordance with LAC Title 33, Part VI, Chapter 9, Sections D & E. The public notice was published in *The Advocate* newspaper on July 15, 2009, followed within five days by certified letters to adjacent landowners. One public comment was received during the prescribed 30-day public comment period. LDEQ determined that the comment "....was not germane to the VRAP and does not require any changes in the VRAP." Shaw submitted public notice documentation to the LDEQ in correspondence dated August 19, 2009

Additionally, the public was invited to attend an informational meeting to discuss the remediation activities and planned redevelopment of the site. The meeting was held on-site the morning of September 21, 2009. The meeting was attended by representatives of LDEQ, CPEX, SEMS and Shaw.

3.2 Tank Closure Notification

Prior to beginning remediation activities, a notification of intent to perform a closure or Change-in-service to an UST system was completed and submitted to the LDEQ. A copy of the form approved by LDEQ is included in Appendix B.

3.3 Underground Storage Tank Removal and Soil Excavation

Under a competitive solicitation, OSBR procured the services Southern Environmental Management Specialties, Inc. (SEMS) to perform the remedial activities specified in the approved VRAP. On September 21, 2009, SEMS mobilized equipment and personnel to the site to initiate the remediation activities. Site activities concluded on October 29, 2009 following site restoration activities. The remedial activities are documented in photographs included in Appendix D. Details of the remedial activities are provided in a summary report prepared by SEMS and included in Appendix C and are summarized as follows.

A back hoc excavator was used to remove the USTs and perform the excavations. Prior to removal, the residual tank fluids and wash water were transported by vacuum truck to an LDEQ-approved disposal/recycling facility. The quantities of recovered fluid and other waste materials are summarized in Appendix C, including waste disposal documentation.

Removal of the four USTs and surrounding soil (fill) was performed on September 23 through 28, 2009. In accordance with the LDEQ's *Underground Storage Tank Closure/Change-In-Service Guidance Document* (October 2003), two soil samples were collected beneath each of

the three 8,000 gallon USTs at a depth of approximately 14 feet below ground surface (bgs). Additionally, two samples were collected beneath the 500 gallon used oil UST at a depth of approximately eight feet bgs. It was not necessary for samples of excavated material to be collected, as all excavated soil was loaded directly into end-dump trucks and immediately transported for offsite disposal at an approved off-site landfill. None of the excavated soil was used to backfill the excavation.

In accordance with the sampling and analysis plan included in the VRAP, confirmatory soil samples were also collected from beneath the former dispenser islands, the piping trenches and the service bay area following the removal of all subsurface equipment (hydraulic lift, service bay sump and product lines). Confirmatory soil sample locations are identified on a sketch prepared by SEMS and included in Appendix C. The areas of excavation are illustrated on Figure 4.

All confirmatory soil samples were delivered to Southern Petroleum Laboratories, Inc. (SPL) and initially analyzed for the following constituents as specified in the VRAP:

- Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl-tert-butyl ether (MTBE) by U.S. Environmental Protection Agency (EPA) Method 8260B;
- Total petroleum hydrocarbons –gasoline range organics (TPH-GRO) by EPA Method 8015C;
- TPH-diesel range organics (TPH-DRO) by EPA Method 8015C;
- TPH -oil range organics (TPH-ORO) by EPA Method 8015C;
- Polycyclic aromatic hydrocarbons (PAHs) by EPA Method 8270D; and
- RCRA metals by EPA Method 6000/7000 Series.

Laboratory analytical reports, including Quality Assurance/Quality Control (QA/QC) results are presented in Appendix C. Based on Shaw's data usability review, the laboratory analytical data is valid and can be used to determine if site concentrations meet remedial action goals. The results of the analyses are summarized in Tables 1 through 3.

3.4 Initial Soil Analytical Results

As shown in Tables 1 through 3, the majority of the analytical results for the samples collected during the remedial activities were below the appropriate limiting RS as established in the VRAP. Two sample locations resulted in TPH-DRO concentrations above the limiting RS. The exceedances occurred in sample USTP3 (piping trench), shown on Table 1, and sample HLN (service bay area), shown on Table 3. The RECAP exceedances were as follows:

- USTP3 TPH-DRO concentration of 120 milligrams per kilogram (mg/Kg) exceeded the Limiting RS of 65 mg/Kg
- HLN TPH-DRO concentration of 500 mg/Kg exceeded the Limiting RS of 65 mg/Kg

During the initial sample collection, sufficient sample volume was collected from each sample location and placed on hold. The additional sample volume was collected by Method 5035 and provided the ability to analyze any given sample for the appropriate aliphatic/aromatic carbon ranges (TPH fractions) in the case of a TPH exceedance. Upon receipt and review of the initial sample results, SEMS requested SPL analyze samples USTP3 and HLN for aliphatics (C_{10} - C_{35}) and aromatics (C_{10} - C_{35}). As shown in Tables 1 and 3, the results of the TPH fractionation were less than the limiting RS.

It should be noted that a maximum lead concentration of 311 mg/Kg was detected in soil sample HLS collected from the service bay area. While this concentration did not exceed the limiting RS of 400 mg/Kg established in the VRAP, it was the only lead concentration that exceeded the soil protective of groundwater (Soil_{SSGW}) RS of 100 mg/Kg. To eliminate any possible future concerns regarding this concentration, a 95 percent upper confidence limit on the arithmetic mean (95% UCL-AM) calculation was performed using a spreadsheet provided by LDEQ. The calculation provided a result of 47.6 mg/Kg, which is well below the Soil_{SSGW} of 100 mg/Kg. A copy of the 95% UCL-AM spreadsheet is included as Appendix E.

As required by the LDEQ, SEMS submitted an Underground Storage Tank Closure Assessment report (Appendix C) to the LDEQ's UST Division on November 10, 2009. This report included documentation of the removed USTs

3.5 Attainment of Remedial Action Goals

As noted in Section 3.4, the confirmatory soil sample analytical results demonstrate that the remedial action goals have been successfully attained for the subject property in accordance with VRP regulations (LAC Title 33, Part VI, Chapter 9).

3.6 Waste Disposal

During the course of remedial activities, the following waste material was generated and properly disposed offsite:

- Approximately 2,112 tons of concrete pavement was transported by Dennis Stewart, Inc. to their recycling facility in Baton Rouge, Louisiana.
- Approximately 379 tons of excavated soil was transported to Waste Management's Woodside Landfill in Walker, Louisiana.

- Approximately 780 gallons of residual tank fluids and wash water were transported by Gator Environmental to their recycling facility in Port Allen, Louisiana.
- Approximately 2,923 gallons of excavation/rain water were transported by Gator Environmental to their recycling facility in Port Allen, Louisiana.
- The purged and cleaned 8,000 gallon tanks (3) were transported to Southern Scrap Recycling in Port Allen, Louisiana.
- The purged and cleaned 500 gallon tank was transported to Louisiana Scrap Metal Recycling in Port Allen, Louisiana.

Disposal documentation and manifests are included in SEMS Summary Report in Appendix C.

3.7 Excavation Backfill and Site Restoration

Heavy rainfall occurred at the site while awaiting completion of laboratory analyses. The rain resulted in excessive accumulations of rainwater in the excavations that required removal prior to backfilling activities. Following receipt of acceptable analytical results for water samples collected from each excavation, an LPDES Notice of Intent (NOI) to Discharge was submitted to and approved by LDEQ. Approximately 29,645 gallons of rainwater from the excavations was pumped into the storm drain near Glacier Street on October 12, 2009. The NOI and all supporting documentation are included in Appendix C.

Following removal of the rainwater, the excavations were surveyed to establish their dimension and location relative to site boundaries. The results of the survey are included in Appendix E.

The excavations were filled with clean imported river sand material on October 12 through 16, 2009. The perimeter fencing and all surface pavement was removed from the site on October 19 through 29, 2009.

Six monitor wells (MW-1 through MW-6) were identified on-site that apparently remained following historical site investigation/groundwater monitoring activities. According to the Louisiana Department of Transportation and Development (LDOTD) water well database, the well's registered owner was the LDEQ. As directed by LDEQ, SEMS removed wells MW-1 through MW-6 to complete the on-site remedial activities. Monitor well MW-1 was located near the gasoline/diesel UST hold and was removed during excavation/backfilling activities. The well material and surface completions of MW-2 through MW-6 were removed by SEMS and the resulting borehole was grouted with a cement-bentonite mixture in accordance with LDEQ/LDOTD requirements. SEMS prepared water well plugging and abandonment forms and submitted to LDOTD. Copies of the forms are included in Appendix C.

The site was graded and hydro seeded prior to SEMS demobilization on October 29, 2009.

4.0 Confirmatory Site Investigation

In addition to the affected soil at the site, the results of the VRIR also identified concentrations of several COCs exceeded the groundwater limiting MO-2 RS. In order to address the groundwater exceedances at the site, as discussed in the VRAP, a confirmatory site investigation (CSI) was conducted to further evaluate groundwater hydrocarbon concentrations at the site. The work was conducted under the LDEQ's Targeted Brownfields Assessment II (TBA II) Program.

As part of the TBA II program requirements, a Sampling and Analysis Plan (SAP) was prepared and submitted to the LDEQ on March 8, 2010. The SAP was approved by the EPA and LDEQ on March 17, 2010. The approved SAP was implemented on March 25 through 27, 2010.

4.1 Monitoring Well Installation

Five (5) monitoring wells (MW-7 through MW-11) were installed to a maximum depth of 14.5 ft-bgs on March 25 and 26, 2010. The monitoring well locations, shown on Figure 5, were selected using data from the previous investigation activities and historical site features.

4.2 Soil Vapor Sampling

Based on the groundwater results, soil vapor samples were also collected in the vicinity of monitoring well MW-11, which is located between previous boring locations B-6 and B-10, where the highest volatile petroleum hydrocarbons were detected. Soil vapor samples were collected via soil vapor inserts (SVIs), constructed of an inert material which were installed in two co-located borings installed near monitoring well MW-11 in the former UST tank hold. The SVIs were installed in one boring at a depth of two ft-bgs (SVI-1A) and in the other boring at a depth of four ft-bgs (SVI-1B). The locations of the SVIs are shown on Figure 5.

On April 30, 2010, Shaw personnel conducted the soil vapor sampling. Prior to sample collection, each SVI was purged of a minimum of three volumes of air from the SVI. After purging, each SVI was connected to a soil sampling train (SST) which regulates the flow of the air sample from the SVI to the sample canister with an in-flow rate of less than 200 milliliters per minute. A 1.4L stainless steel air sampling canister was connected to the SST. Once filled, the sample canisters were submitted to SPL for analyses of m,p-xylenes, total xylenes, and TPH-GRO by EPA Method TO-3/TO-15.

4.3 Laboratory Analytical Results

4.3.1 Groundwater Analytical Results

Groundwater samples collected from monitoring wells MW-7 through MW-11 during the March 2010 CSI were analyzed for xylenes (m,p-, and total), TPH-GRO, and TPH Fractions

(aliphatics/aromatics). The groundwater analytical results were compared to the previously established RECAP MO-2 Standards for m, p-xylenes, total xylenes, aliphatics C_8 - C_{10} , aliphatics C_{10} - C_{12} , aliphatics C_{12} - C_{16} , and aromatics C_8 - C_{10} . Based on the results, one constituent, aliphatics C_8 - C_{10} , was above the RECAP MO-2 Standards in four of the five groundwater samples. Concentrations of aliphatics C_8 - C_{10} above the MO-2 standards ranged from 0.41 milligrams per liter (mg/L) in MW-8 to 6.8 mg/L in MW-11.

4.3.2 Soil Vapor Sampling Analytical Results

The objective of this CSI was to demonstrate that the volatile petroleum hydrocarbons previously detected in the groundwater at the site have declined or are otherwise protective of future unprotected enclosed structures. Since concentrations of aliphatics $C_8 - C_{10}$ were detected above the site-specific MO-2 RECAP Standards in groundwater samples, soil vapor sampling was conducted at the location where the highest concentrations were detected. The soil vapor samples were analyzed for xylenes (m,p- and total) and TPH-GRO by Method TO-3 and TO-15. The TPH-GRO results were further quantified for aliphatics C_8 - C_{10} fractions. The soil vapor results for xylenes and TPH fractions (aliphatics C_8 - C_{10}) were compared to the calculated soil gas standards using the method outlined in the RECAP Frequently Asked Questions found on the LDEQ RECAP website. The calculations utilize the soil gas standard presented in RECAP Table H5.

The Soil Gas Standard value (RECAP Table H5) for aliphatics C₈-C₁₀ (1,100 micrograms per cubic meter [ug/m³]) was multiplied by the EPA recommended alpha value (attenuation factor) of 100 which totaled 110,000 ug/m³. When compared to the maximum C₈-C₁₀ concentration (SVI-1B of 12,466.70 ug/m³), the result was below the applicable Soil Gas Standard. Based on the xylenes and TPH C₈-C₁₀ calculations, the measured concentrations were protective of human health and as such, no further evaluation of the soil vapor intrusion pathway at the site was requested.

4.4 Attainment of Remedial Action Goals

As stated in Section 4.3, groundwater and soil vapor analytical data collected during the CSI were used to evaluate the vapor intrusion pathway at the OSBR site. Although groundwater concentrations for aliphatics C₈-C₁₀ were above the MO-2 RECAP Standards previously developed at the site, further evaluation utilizing soil vapor sampling indicated that the subsurface hydrocarbon concentrations do not present a risk to enclosed structures. The report of CSI activities was submitted to the LDEQ on June 29, 2010. A copy of the report is included as Appendix G. The LDEQ approved the findings of the CSI in a letter dated July 23, 2010. A copy of the LDEQ letter is included as Appendix H.

5.0 Certificate of Completion

This VRAR demonstrates that the objectives/requirements of the approved VRAP have been met. The subject site meets residential (non-industrial) RECAP Standards and is eligible for closure without restriction. Shaw respectfully requests that a Certificate of Completion should be issued to OSBR upon approval of this VRAR.



P.O. Box 31 Sulphur, LA 70664-0031 (337) 528-0066 P.O. Box 84380 Baton Rouge, LA 70884-4380 (225) 766-7400 450 E. Pass Road, Suite 106 Gulfport, MS 39507 (228) 897-7676

Remediation Services Division

Desk Copy File Room:..

Manager ACUN

Team Leader:

TEMPO Task #:

December 7, 2005

Louisiana Department of Environmental Quality Remediation Services Division Post Office Box 4314 Baton Rouge, Louisiana 70821-4314

Attn: Mr. Keith Casanova

Ref:

VRP Application Forms/Remedial Investigation Work Plan HOPE VI – 1705 Highland Road, Baton Rouge, Louisiana

Agency Interest # 93917 (Personal Touch Car Wash and Used Tire)

Providence Engineering's Project No. 146-003

Dear Mr. Casanova:

Providence Engineering and Environmental Group LLC (Providence Engineering) is hereby submitting in triplicate this Voluntary Remedial Investigation Application Form, Partial Voluntary Remedial Action Supplemental Application Form, and Remedial Investigation Work Plan for the HOPE VI – 1705 Highland Road site for your review and approval. As described in this Remedial Investigation Work Plan, soil and groundwater samples will be collected to define site characteristics and to determine the nature and extent of contaminants for closure of the site under the Louisiana Department of Environmental Quality's (LDEQ's) Voluntary Remediation Program (VRP) and the Risk Evaluation/Corrective Action Program (RECAP), as applicable. The site investigation activities will be funded under a grant from the Baton Rouge Brownfields Program (#BR-113), which is administered by the City-Parish Planning Commission.

Sampling activities will be initiated upon receipt of LDEQ approval of this Remedial Investigation Work Plan. Providence Engineering will notify LDEQ in advance of mobilization to the site to allow a representative to be present, if desired. If you have any questions regarding this Remedial Investigation Work Plan, please contact Mike Purdom or me at 225-766-7400.

Sincerely,

Providence Engineering

Melanie M. Hanks Senior Risk Assessor

Ms. Beth Hughes – City-Parish Planning Commission (4:copies)

DECEIVED

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LA DEPT. OF ENV. QUALITY

REMITTATION SERVICES ON

DEC 1 3 2005

LDEQ

www.providencebr.com

CC:

VOLUNTARY REMEDIAL INVESTIGATION APPLICATION FORM

Voluntary Remediation Program
Louisiana Department Of Environmental Quality

I. APPLICANT INFORMATION

A.	Аp	plicant	
	1.	Name/Company Name	Richard, Murray, East Baton Rouge Housing Authority, HOPE VI Office
		Mailing Address	
		P.O. Box or No. & Street	4731 North Blvd.
		City	Baton Rouge
		State	LA
		Zip Code	70806
	3.	Contact Person	
		Phone	225-923-8150
		Fax	225-923-8109
		Email	rmurray@ebrpha.org
	4.	Interest in Property	Owner
В.	Co	o-Applicant	
	1.	Name/Company Name	N/A
	2.	Mailing Address	
		P.O. Box or No. & Street	·
		City	
		State	
		Zip Code	
	3.	Contact Person	
		Phone	
		Fax	
		Email	
	4.	Interest in Property	

VCP001 4/01 Rev.1

• •	C	o-Applicant	
	1.	Name/Company Name	N/A
	2.	Mailing Address	•
		P.O. Box or No. & Street	
		City	·
		State	
		Zip Code	
	3.	Contact Person	
		Phone	
		Fax	
		Email	
	4.	Interest in Property	
).	Cı	urrent Property Owner (if different	from applicants)
	1.	Name/Company Name	East Baton Rouge Housing Authority, HOPE VI Office
	2.	Mailing Address	
		P.O. Box or No. & Street	4731 North Blvd
		City	Baton Rouge
		State	LA
		Zip Code	70806
	3.	Contact Person	Richard Murray
		Phone	225-923-8150
		Fax	923-8109
		Email	rmurray@ebrpha.org

VCP001 4/01 Rev.1

	•
II. SITE INFORMATION	
A. Agency Interest Number (if exists)	93917
B. Site Name	HOPE VI
C. Parish	East Baton Rouge
D. Property Size (acres):	0.6
E. Physical Address or Direction and Dis	tance from Nearest Intersection
1705 Highland Road, Baton Rouge, LA	·
F. Latitude/Longitude;	Lat 91° 10' 59" W Lon 30° 25' 56" N NAD 83 DMS
G. Section/Township/Range (attach lega	I property description.)
Section 52 / Township 7S / Range 1W	
	sted as owners of the adjacent properties on he date on which the voluntary remediation
North – HOPE VI	
South – HOPE VI	
West – WBRZ Televesion	
East - HOPE VI	
I. Current Property Use (Describe in deta	il. Use percentages if more than one use.)
Currently the property supports two abandone	doned buildings. The buildings previously held
Auto detailing and repair shops.	
J. Past (historical) Property Use (Describ According to Polk's city directory of Baton appear in the 1955 city directory. During businesses have occupied the space at 1 Wash & Detail Shop, Clearance Crystal C Recycling, Louis Tire Center, Mister Cles dealer).	Rouge, South End Service Station first the review of the city directories, several 705 Highland Road. These include Personal Car Wash & Barber Shop, Baton Rouge
	iil. Use percentages if more than one use.)

residential units.

VCP001 4/01 Rev.1				
L. Current Land Use Surrounding Property			<u> </u>	
The property located to the west of the site is commercial, to the north is vacant, to the				
east and south is residential				
M. Contaminant Type(s) and Affected Media		· -		
Soil - 2-methylnaphthalene, benzene, TPH-DRO, TPH-GRO.				
Groundwater - TPH-DRO, TPH-ORO.				
Lead Based Paints, Asbestos Containing Material				
Applicant(s) must also attach to this form all available historical assessment a information available for the site, including Phase 1 and 2 Assessments, and				
III. ELIGIBILITY INFORMATION				
A. Permitted Hazardous Waste Unit(s) on site?	Yes	<u> </u>	No	
B. Site Proposed for Listing on the NPL?	Yes	_X_	No	
C. Site Listed on the NPL?	Yes	<u> </u>	No	
D. Any Pending Federal Environmental Enforcement Actions Associated with the Site?	Yes	_X_	_ No	
If yes, explain			<u></u>	
E. Any portion of site UST Trust Fund Eligible?	Yes	_X_	No	
If yes, explain				
IV Type of Voluntary Remodel Action Proposed				

IV. Type of Voluntary Remedial Action Proposed

_____ Voluntary Remedial Action

X Partial Voluntary Remedial Action

If Partial Voluntary Remedial Action is checked, the applicant and co-applicants must each complete and attach a Partial Remedial Action Supplemental Application Form.

VCP001 4/01 Rev.1

V. CERTIFICATION

All applicants must certify the following with their signature below:

I (we) certify that all of the information I (we) have provided in this Voluntary Remedial Investigation Application is true and correct to the best of my information, knowledge, and belief. I (we) understand and agree that I (we) am obligated to update and modify this application if I (we) learn that information that I (we) have provided is misleading or no longer correct. I (we) further certify that I (we) understand I (we) am responsible for and agree to reimburse the Louisiana Department of Environmental Quality for all actual direct costs associated with reasonable and appropriate oversight activities of the Department conducted pursuant to LAC 33:VI.Chapter 9, including, but not limited to, review, supervision, investigation, and monitoring activities.

Primary Applicant Signature/Date	Robard L. Morray 12-7-05
Co-Applicant Signature/Date	
Co-Applicant Signature/Date	

THE REMEDIAL INVESTIGATION WORKPLAN FOR THIS SITE AND THE APPLICATION REVIEW FEE MUST BE INCLUDED WITH THIS VOLUNTARY REMEDIAL INVESTIGATION APPLICATION FORM, AS PROVIDED IN LAC 33:VI.911.A, OR THIS VOLUNTARY REMEDIAL INVESTIGATION APPLICATION WILL BE CONSIDERED INCOMPLETE AND NOT BE ACCEPTED FOR REVIEW.

VCP003 4/01 Rev. 1

PARTIAL VOLUNTARY REMEDIAL ACTION SUPPLEMENTAL APPLICATION FORM

Voluntary Remediation Program
Louisiana Department Of Environmental Quality

If a partial remediation is to be performed, one each of this form must be completed by the applicant and by each co-applicant and attached to the Voluntary Remedial Investigation Application Form and the Voluntary Remediation Application Form.

A. Check One:	X Applicant	Co-Applic			
B. Name/Company Name:	Richard, Murray, East Authority, HOPE VI O		Housing		
C. Agency Interest Number (if one exists)	93917				
D. Site Name	HOPE VI				
E. Interest in Property	Mixed use property				
Answer the following questions by checking the appropriate answer					
F. Were you a generator who generat substance that was disposed of or		Yes	X No		
G. Were you a transporter who transporter substance that was disposed of or		Yes	X No		
H. Were you a disposer who disposed hazardous substance or hazardous		Yes	X No		
Did you contract with someone for t disposal at the site?	ransportation or	Yes	X No		
J. Are you or were you an owner or operation subsequent to the disposal of haza		Yes	X No		
If you own or have an interest in the property (site), answer the following questions by checking the appropriate answer					
K. Were you engaged in the business	Q .				
transporting, storing, treating, or dis substance or hazardous waste on		Yes	X No		
L. Did you knowingly permit any person of the property for disposal of wast		Yes	X No		
	,				

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VCP003 4/01 Rev. 1

IVI.	disposal of a hazardous substance?	 Yes	X	No
N.	Did you knowingly permit any person to use the site for disposal of a hazardous substance?	 Yes	<u> x</u>	No
Ο.	Did you know or should you have reasonably known that a hazardous substance was located in or on the site at the time right, title, or interest in the site was first acquired by the person and engaged in conduct associating that person with the discharge or disposal?	 Yes	X	__ No
P.	Did you take action that significantly contributed to the discharge or disposal after that person knew or reasonably should have known that a hazardous substance was located in or on the site?	Yes	x	Nο

RECEIPT OF CHECK

Al Number	93917
Company Name	Providence Engineering and Environmental
Site Name/	Personal Touch Car Wash & Used Tires
Phone	(225) 766 - 7400
Date Received	12/14/05
Date on Check	12/7/05
Check Number	6707
Amount Received	\$500.00

Check one Media:		
Accident Prevention	Ground Water	Radiation
∐ Air Quality	☐ Hazardous Waste	Solid Waste
☐ Air Toxics	X Inactive and	Underground Storage
	Abandoned Sites	Tanks
Asbestos and Lead		
voluntary remediation applicati	on tee	
Voluntary remediation applicati	on fee	
		-
Initials:		
vrt		

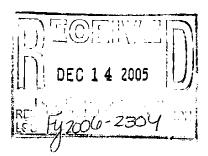
HOPE VI – 1705 Highland Road Baton Rouge, Louisiana

Remedial Investigation Work Plan

December 2005

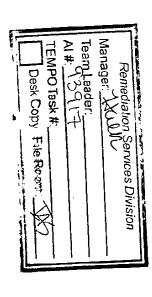


HOPE VI – 1705 HIGHLAND ROAD BATON ROUGE, LOUISIANA



REMEDIAL INVESTIGATION WORK PLAN

DECEMBER 2005



PREPARED BY:

PROVIDENCE ENGINEERING AND ENVIRONMENTAL GROUP LLC 6160 PERKINS ROAD, SUITE 100 BATON ROUGE, LA 70808 (225) 766-7400

PROVIDENCE ENGINEERING PROJECT NUMBER 14



LDEQ

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- A Phase II ESA Report
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1.0 INTRODUCTION

This Remedial Investigation Work Plan describes field sampling activities to be conducted in support of an assessment of the HOPE VI site located at the corner of Highland Road and Mary Street (1705 Highland Road) in Baton Rouge, Louisiana. The location of the site is shown on Figure 1. During prior ownership, the site was occupied by a number of different tenants/businesses; including several tire dealerships, a service station, an auto detailing business, and a recycling center. Currently, two abandoned buildings exist at the property.

As described in this Remedial Investigation Work Plan, soil and groundwater samples will be collected to define site characteristics and to determine the nature and extent of contaminants under the Louisiana Department of Environmental Quality's (LDEQ's) Voluntary Remediation Program (VRP) and the Risk Evaluation/Corrective Action Program (RECAP), as applicable. The site investigation activities will be funded under a grant from the Baton Rouge Brownfields Program (#BR-113), which is administered by the City-Parish Planning Commission.

The specific methods and protocol for collecting samples, the analytical procedures and parameters of interest, the field and laboratory Quality Assurance/Quality Control (QA/QC) protocol that will be followed, and the estimated schedule to complete the proposed field sampling activities are presented herein. All site investigation activities will be conducted in accordance with this Remedial Investigation Work Plan as approved by the LDEQ and applicable VRP/RECAP site investigation requirements.

2.0 SITE DESCRIPTION

2.1 Site Location

The subject property is located at 1705 Highland Road in Baton Rouge, Louisiana. The location of the property is shown on **Figure 1**. The current layout of the property is shown on **Figure 2**.

2.2 Current/Intended Future Use of the Property

The subject tract currently supports two buildings. The buildings are currently not being used, and will be demolished prior to redevelopment of the site. As part of the demolition activities, a hydraulic lift located at the site will also be removed. HOPE VI intends to develop the property for primarily residential use.

2.3 Current Uses of Adjoining Properties

Surrounding land use supports a television broadcasting to the west. Vacant lots are located immediately to the south, east, and across Mary Street to the north.

3.0 PREVIOUS SITE INVESTIGATION ACTIVITIES

On behalf of the City-Parish Planning Commission, Providence Engineering and Environmental Group LLC (Providence Engineering) conducted a Phase I Environmental Site Assessment (ESA) of the site in April 2004. As documented in the April 26, 2004 Phase I ESA Report, a number of areas were identified as possible environmental liability hazards. These areas included abandoned 55-gallon drums, hydrocarbon staining around the abandoned drums, a potential underground storage tank (UST), and potential lead-based paint and asbestoscontaining materials.

Based on the results of the Phase I ESA, Providence Engineering collected soil and groundwater samples as part of a Phase II ESA to determine whether or not impacts from previous operations at or near the property were present prior to redevelopment of the site. The Phase II ESA report in its entirety is provided herein as **Appendix A**. A total of six borings were advanced and sampled at the site in accordance with the LDEQ's RECAP and the July 2004 Quality Assurance Project Plan (QAPP). The boring locations are shown on **Figure 2**. Groundwater was encountered at approximately 10 feet below ground surface (ft bgs). The boring logs completed for borings advanced during the Phase II ESA are provided in Appendix D of the Phase II ESA Report (see **Appendix A**).

Soil samples were collected from all six borings, and groundwater samples were collected from the five borings at which groundwater was encountered. Additionally, floor and wall mortar samples were collected for laboratory analyses for asbestos, and multiple paint samples were collected for lead analyses. The results of the Phase II ESA are summarized in the following sections.

3.1 Soil Analytical Results

Soil analytical results are summarized in **Table 1**. All soil samples were analyzed for benzene, toluene, ethylbenzene, and total xylenes (BTEX), polycyclic aromatic hydrocarbons (PAHs), total petroleum hydrocarbons – gasoline range organics (TPH-GRO), total petroleum hydrocarbons – diesel range organics (TPH-DRO), and total petroleum hydrocarbons – oil range organics (TPH-ORO).

Soil analytical results were compared to the soil limiting Screening Standards (LSS) for non-industrial land use based on the intended future residential use of the property. The soil LSS applied were the lower of the RECAP Non-Industrial Soil Screening Standards (Soil_{SSni}) and the Soil

Protective of Groundwater Screening Standards (Soil_{SSGW}) provided in Table 1 of RECAP (LDEQ 2003).

As shown in **Table 1**, soil concentrations were below the RECAP LSS at five of the six borings (B-2 - B-6). However, soil concentrations in samples collected from boring B-1 exceeded the soil LSS applied for 2-methylnaphthalene, naphthalene, benzene, TPH-DRO, and TPH-GRO. In addition, detection limits for certain PAHs reported as not detected by the laboratory ("non-detects") had sample quantitation levels (SQL) that exceeded the applicable LSS.

3.2 Groundwater Analytical Results

Groundwater analytical results are summarized in **Table 2**. Groundwater samples were collected from five of the six borings. Groundwater could not be collected from boring B-1, as groundwater was not encountered at this location. In addition, due to insufficient groundwater yield, samples collected from boring B-4 were only analyzed for BTEX, TPH-GRO, and TPH-DRO.

The LSS applied for groundwater were the Groundwater Screening Standards (GW_{ss}) provided in Table 1 of RECAP (LDEQ 2003). As shown in **Table 2**, TPH-DRO was reported above the GW_{SS} at borings B-2, B-4, B-5, and B-6. TPH-ORO concentrations were reported above the GW_{ss} in groundwater samples collected from B-2, B-3, B-5 and B-6. Concentrations of BTEX and PAHs did not exceed the GW_{SS} in any of the samples colleted.

3.3 Lead Sampling Results

Asbestos Consulting Services, Inc. (ACSI) collected 26 samples of suspected lead-based paints. The Consumer Product Safety Council has established a standard of 0.06% by weight, while the Housing and Urban Development's (HUD) standard is 0.5% by weight. 19 of the 26 samples exceeded the Consumer Product Safety Council standard, while 7 of the 26 samples exceeded the HUD standard. The highest reported percent by weight concentration was 12.2% collected from the multi-coats of paint on the outside canopy. The complete ACSI report can be found in Appendix B of the Phase II ESA report provided in **Appendix A** herein.

3.4 Asbestos Sampling Results

Providence Engineering contracted ACSI to collect samples of suspected asbestos-containing materials. ACSI collected a total of 36 samples from selected floor tiles and wall mortars from both buildings. A total of 17 samples tested positive for asbestos. The complete ACSI asbestos report can be found in Appendix C of the Phase II ESA report provided in **Appendix A** herein.

3

4.0 PROPOSED SOIL AND GROUNDWATER SAMPLING

The following site investigation activities are proposed, and will be conducted after the on-site buildings and other structures (including the hydraulic lift) have been demolished in preparation for redevelopment of the site:

- Boring B-1 will be readvanced for further characterization of groundwater impacts at the source and to collect soil samples for vertical extent delineation. A soil sample will also be collected from B-1 (7-8 ft bgs) for PAH analysis to attempt to obtain SQL below the applicable RECAP standards.
- Soil samples for Synthetic Precipitation Leaching Procedure (SPLP) analysis will be collected from B-1 to attempt to increase applicable cleanup standards to minimize (or possibly eliminate) the need for remediation of soils.
- Soil samples will be collected from boring B-1 for fractionation of aliphatics and aromatics petroleum hydrocarbon ranges. If possible, groundwater TPH fractionation samples will also be obtained from this location.
- Boring B-4 will be readvanced for collection of TPH-ORO and PAH groundwater samples, which were not able to be collected during the July 2004 sampling event due to insufficient water yield from the temporary piezometer installed at this location. These samples are required for further characterization of the source and to meet RECAP site investigation requirements.
- Four borings would be advanced as shown in Figure 2 to delineate the extent of contamination in groundwater in accordance with VRP/RECAP requirements.
- An additional delineation boring will be advanced on the vacant lot north of Mary Street (see Figure 2) for the collection of soil and groundwater samples. Analytical parameters will include constituents of concern (COC) analyzed at borings B-1 – B-6 during the previous Phase II investigation activities, including TPH-GRO, TPH-DRO, TPH-ORO, BTEX, and PAHs.
- Soil samples will also be collected from the delineation boring to be installed to the west of B-1 (see Figure 2) for delineation of soils.
- Soil and groundwater samples will be collected by Providence Engineering at the bottom of the excavation from one borehole (HL-1) for delineation/source characterization purposes after the demolition contractor removes the hydraulic lift. Samples will be collected for analysis of TPH-DRO and TPH-ORO per Appendix D of RECAP (LDEQ



A World of Solutions™

September 19, 2008

Mr Keith L Casanova, Administrator Environmental Technology Division Office of Environmental Assessment Louisiana Department of Environmental Quality P O Box 4314 Baton Rouge Louisiana 70821-4314

Re Voluntary Remedial Action Report
H O P E VI Property
1705 Highland Road
Baton Rouge, East Baton Rouge Parish, Louisiana
Agency Interest No 93917

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Dear Mr Casanova

On behalf of the East Baton Rouge Parish Housing Authority (EBRHA), Shaw Environmental Inc (Shaw) is submitting the attached Voluntary Remedial Action Report (VRAR) for the above referenced site. The successful completion of remedial actions has resulted in the subject site meeting residential RECAP Standards. Accordingly, the site is eligible for closure without restriction. Shaw respectfully requests that a Certificate of Completion should be issued to EBRHA pending the approval of the VRAR.

If you have any questions regarding this attached report, or any aspect of this project, please contact me at (225)987 7323, or Chris Johnson at (225)987-7427

Sincerely,

Shaw Environmental, Inc

Tyson N Hackenberg Client Program Manager

cc Mr Samuel Reynolds – USEPA Region 6 Ms Patricia Robinson – EBRHA H O P E VI

Enclosure



VOLUNTARY REMEDIATION PROGRAM (VRP) REMEDIAL ACTION REPORT

H.O.P.E. VI 1705 Highland Road Baton Rouge, Louisiana

September 2008

Prepared for

East Baton Rouge Housing Authority 4731 North Boulevard Baton Rouge, Louisiana

Prepared by

Shaw Environmental, Inc 4171 Essen Lane Baton Rouge, Louisiana 70809

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Acronyms and Abbreviations_

AOI	Area of Investigation
bgs	Below ground surface

BTEX Benzene Toluene, Ethylbenzene, and Total Xylenes

COC Constituent of Concern

EBRHA East Baton Rouge Housing Authority
ESA Environmental Site Assessment
GPR Ground Penetrating Radar

LAC Louisiana Administrative Code

LDEQ Louisiana Department of Environmental Quality

MO 1 Management Option 1 MO 2 Management Option 2 MTBE Methyl tert Butyl Ether

PAH Polynuclear Aromatic Hydrocarbons

PID Photoionization Detector

REC Recognized Environmental Condition
RECAP Risk Evaluation/Corrective Action Program

RS RECAP Standard

Shaw Environmental Inc

Soil_{esni}
Non Industrial Soil beneath Enclosed Structures
Soil_{ni}
Non Industrial Soil Protective of Human Health
TCLP
Toxicity Characteristic Leaching Procedure

TPH Total Petroleum Hydrocarbons
UST Underground Storage Tank

VRAP Voluntary Remediation Action Plan
VRIR Voluntary Remedial Investigation Report

VRP Voluntary Remediation Program

1

10 Introduction

This Voluntary Remediation Program (VRP) Remedial Action Report (VRAR) has been prepared for the East Baton Rouge Parish Housing Authority (EBRHA), to document the closure of underground storage tanks (USTs) and remediation of impacted soils at the HOPE VI site at 1705 Highland Road, Baton Rouge, Louisiana (Figures 1 and 2) The VRAR has been prepared pursuant to Louisiana Administrative Code (LAC) Title 33, Part VI, Chapter 9

11 Site Description

The subject site is located at 1705 Highland Road in Baton Rouge, East Baton Rouge Parish, Louisiana (Figure 1) The site is currently a vacant lot, subsequent to the demolition of on-site structures in December 2005 Figure 2 presents a facility map with locations of pertinent former site features, including boring locations from previous site investigations

Historically and prior to the EBRHA's acquisition of the property, businesses that operated at the subject site included tire dealerships, a service station, an automobile detailing business, and a recycling center. During the time of operation as a service station, at least six underground storage tanks (USTs), two fuel dispensers, and one hydraulic lift were operated on-site. The hydraulic lifts and piping were previously removed. During site demolition activities in December 2005, six USTs of various sizes were discovered in the northwest portion of the property adjacent to the intersection of Mary Street and Highland.

The site is proposed for residential redevelopment by the EBRHA HOPE VI program Accordingly, the remedial action reported herein utilized site clean up goals based on non-industrial standards, pursuant to guidance included in the Louisiana Department of Environmental Quality's (LDEQ's) Risk Evaluation / Corrective Action Program (RECAP) document, dated October 2003

20 Previous Activities

2.1 Phase I Environmental Site Assessment

A Phase I Environmental Site Assessment Report, dated April 2004, was prepared by Providence Engineering & Environmental Group, LLC (Providence) Findings of the Phase I Environmental Site Assessment included recognized environmental conditions (RECs) associated with former uses of the subject site

2 2 Voluntary Remedial Investigation

The site was entered into the LDEQ's Voluntary Remediation Program (VRP), and a Voluntary Remedial Investigation Work Plan (Work Plan) was prepared and submitted to the LDEQ in December 2005. The Work Plan was approved by the LDEQ with modifications in correspondence dated April 28, 2006. The investigation was implemented in May and June 2006, and a Voluntary Remedial Investigation Report (VRIR), which included a RECAP assessment, was submitted to LDEQ in May 2007. The VRIR was approved by the LDEQ in correspondence dated October 19, 2007.

The results of the site investigations performed in July 2004 and September 2006 indicate that petroleum impacts were present in soil, predominantly at the northwest corner of the property, near the intersection of Mary Street and Highland Road Figure 2 depicts the sample locations from the Voluntary Remedial Investigation. The highest concentrations of petroleum hydrocarbon compounds in soil were detected in soil boring B-1, located in the northwest area of the site.

As presented in the May 2007 Voluntary Remedial Investigation Report (VRIR), all soil and groundwater constituents of concern (COC) detected during site assessment activities were below the applicable Management Option 2 (MO-2) Limiting RECAP Standards (RS) However, six abandoned USTs were observed in the northwestern portion of the subject site during demolition activities in December 2005. These USTs were presumed to be associated with the former use of the subject property as an automotive fuel retail facility, and constituted a risk to human health and the environment.

23 Voluntary Remedial Action Plan

A Voluntary Remedial Action Plan (VRAP) was prepared by Shaw and submitted to the Louisiana Department of Environmental Quality (LDEQ) in November 2007. The proposed remedial action activities included proper closure of USTs and excavation and disposal of impacted soil in the area of the USTs. The VRAP also included a Sampling and Analysis Plan, Quality Assurance Plan, and Voluntary Remedial Action application. The LDEQ approved the VRAP and Voluntary Remedial Action application in correspondence dated January 8, 2008 (Appendix A).

24 Waste Characterization Sampling and Profile

Prior to beginning remediation activities, hand augered borings were advanced to collect samples for waste characterization. The characterization samples were analyzed for reactivity, corrosivity, and ignitability (RCI), metals by Toxicity Characteristic Leaching Procedure (TCLP), and benzene by TCLP. Upon receipt of the laboratory analytical data (Appendix B), a waste profile form (Appendix A) was completed and submitted to the Allied Waste/BFI landfill for pre-approval of soil disposal

30 VRP Remedial Actions and Results

31 Public Notice

Public notice and direct notification to adjacent landowners was made in accordance with LAC Title 33, Part VI, Chapter 9 D & E The public notice was published in the Daily Advocate on January 14, 2008, followed within five days by certified letters to adjacent landowners Following the prescribed 30 day period with no comments from the public or adjacent landowners, Shaw submitted public notice documentation to the LDEQ In correspondence dated May 1, 2008 (Appendix A), the LDEQ approved implementation of the VRAP

3 2 Tank Registration and Closure Notification

Prior to beginning remediation activities, required forms for tank registration and advance notification of UST closure were completed and submitted to the LDEQ Copies of these documents are included in Appendix A

3 3 Underground Storage Tank Removal and Soil Excavation

On May 12, 2008, Shaw and its subcontractor SEMS, Inc (SEMS) mobilized equipment and personnel to the site to initiate the remediation activities. Prior to beginning site work, a public meeting was held on May 12, 2008 to discuss the remediation activities and planned redevelopment of the site.

A back hoe excavator was used to uncover the USTs As work proceeded, it was discovered that the six USTs contained residual fluids, which were removed by a vacuum truck. The residual tank fluids and wash water were transported by vacuum truck to an LDEQ-approved disposal/recycling facility. Volumes of recovered fluid and other waste materials are summarized in Section 3.7, and copies of disposal manifests are included in Appendix C.

Removal of the six USTs and surrounding soil was performed on May 13 and 14, 2008 In accordance with the LDEQ's *Underground Storage Tank Closure/Change-In-Service Guidance Document* (October 2003), two soil samples were collected beneath each tank at depths of approximately 10 feet below ground surface (bgs). To determine the appropriate extent of excavation, sidewall samples were also collected at nine locations at depths of approximately 7. 8 feet bgs at the perimeter of the excavation. It was not necessary for samples of excavated material to be collected, as all excavated soil was placed into roll off containers and subsequently transported for offsite disposal. No excavated soil was used to backfill the excavation.

The tank bottom and sidewall samples were delivered to Southern Petroleum Laboratories, Inc (SPL) for analysis of the following constituents identified in the VRAP

- Benzene, toluene, ethylbenzene and xylenes (BTEX) and methyl tert butyl ether (MTBE) by SW-846 Method 8260B,
- Total petroleum hydrocarbons (TPH) C₆-C_{>28} aliphatic and aromatic fractions by the Massachusetts VPH/EPH Method,
- · Polycyclic aromatic hydrocarbons (PAHs) by SW-846 Method 8270C, and
- RCRA metals by SW-846 Method 6000/7000 Series

Figure 3 depicts the locations of USTs, the bottom and sidewall samples, and the extent of the excavation Photographs of the remediation activities are included in Appendix D

Following a heavy rainfall event on the afternoon of May 14, 2008, site work resumed on May 18, 2008. A temporary discharge permit was submitted to and approved by the LDEQ, and approximately 1,500 gallons of rainwater in the excavation was pumped into the adjacent storm sewer. Based on the results of water samples collected from the excavation, no treatment of the water was necessary prior to discharge.

Additional excavation of impacted soil continued on May 19, 2008, with the limits of excavation determined by visual evidence (stained soil) and screening for organic vapors with a photoionization detector (PID). As shown in Figure 3, two separate areas were excavated to an approximate depth of 10 feet bgs, including a relatively large area surrounding Tanks 1, 2, 3, 4, and 5 near the western boundary of the site, and a smaller area around Tank 6 near the northern boundary of the site. A third area to the west of Tank 6 was excavated, based on ground penetrating radar (GPR) survey that indicated the possibility of a buried tank. However, after excavating to approximately 6 feet bgs, no USTs were found in this area (Figure 3 – Exploratory Excavation Area)

Sidewall samples were collected at approximately 7-8 feet bgs at 11 locations (Figure 3) on the perimeter of the excavation at May 20, 2008 The locations of the samples and the excavated area were surveyed on May 21, 2008 (Appendix E)

All excavated soils were first placed on plastic sheeting and covered when necessary to protect from rainfall and run-off. The excavated soils were then temporarily stored onsite in roll-off containers prior to transport to Allied Waste/BFI in Sorrento, Louisiana. The total amount of disposed soil and other waste materials are summarized in Section 3.7, and copies of transport and disposal manifests are included in Appendix C.

34 Initial Soil Analytical Results

Laboratory analytical reports, including Quality Assurance/Quality Control (QA/QC) results are presented in Appendix B Based on Shaw's data usability review, the laboratory analytical data is valid and can be used to determine if site concentrations meet remedial action goals

As shown in Table 1, analytical results of the tank bottom soil samples collected on May 13-14, 2008 indicated no exceedances of RECAP Screening Standards (SS). The sidewall sample results, which determined the appropriate aerial extent of the excavations, are presented in Table 2. The sidewall sample results revealed one sample location (NSW-1) with COC concentrations above applicable SS and MO-2 Limiting RS. This sample was collected at the northwest extent of the large excavation and abutted a concrete slab at the corner of Highland Road and Mary Street. As shown in Table 1, the RECAP exceedances in sample NSW-1 were as follows.

- Benzene concentration of 2 6 milligrams per kilogram (mg/kg) exceeded the Limiting MO-2 RS of 1 01 mg/kg,
- Total xylenes concentration of 48 4 mg/kg exceeded the Limiting MO-2 RS of 2 47 mg/kg,
- Naphthalene concentration of 18 mg/kg exceeded the Limiting MO-2 RS of 10 3 mg/kg,
- C₆-C₈ Aliphatics concentration of 570 mg/kg exceeded the Limiting MO 2 RS of 362 mg/kg,
- C₈-C₁₀ Aliphatics concentration of 1,200 mg/kg exceeded the Limiting MO 2 RS of 86 mg/kg, and
- C₈ C₁₀ Aromatics concentration of 950 mg/kg exceeded the Limiting MO-2 RS of 146 mg/kg

A review of the surveyed property boundaries (Appendix E) indicated that a portion of the aforementioned concrete slab was located within the subject property and further excavation in this area could be performed. Accordingly, to remove all impacted soil on the property, the concrete slab was saw cut and removed along the property boundary line to enable additional excavation to the property boundary.

3 5 Additional Excavation and Underground Storage Tank Closure-in-Place

Shaw and SEMS remobilized to the site on June 5, 2008 to perform the additional excavation While performing the excavation work, another UST was encountered at the property boundary (Figure 3) The UST was longitudinally parallel to, and approximately bisected by, the northern property boundary (Appendix D – Photographs 18 and 19) As the location of the tank in proximity to underground utilities presented a safety risk for tank removal, subsequent to

consultation and approval by the LDEQ, a decision was made to close the tank in place Accordingly, the appropriate tank registration and closure forms were immediately submitted to the LDEQ

Residual fluids were removed by a vacuum tank, and the tank was washed and rinsed prior to closure in place. As agreed by the LDEQ, on June 6, 2008 one closure in-place sample was collected at approximately 8 feet bgs near the east end of Tank 7, which also corresponded to the northern property boundary. Another sample near the west end of the tank could not be safely collected, because of the presence of underground utilities. Remaining impacted soil at the northwest corner of the property was excavated to the property boundary line (the edge where the concrete slab was cut). On June 9, 2008, the tank was closed in place using flowable fill sand (Appendix D – Photograph 20)

As required by the LDEQ, SEMS submitted an Underground Storage Tank Closure Assessment report (Appendix A) to the LDEQ's UST Division on June 19, 2008 This report included documentation of the removed USTs (Tanks 1-6) and the tank closed in place (Tank 7)

3 6 Attainment of Remedial Action Goals

As noted in Section 3 4, the previously collected closure samples demonstrated that remediation goals were met at all sample locations, with exception of the northwest corner of the excavation encompassing Tanks 1-5 By performing the additional excavation to the property boundaries at the northwest corner of the site, remedial action goals have been successfully attained for the subject property in accordance with VRP regulations (LAC Title 33, Part VI, Chapter 9)

Analysis of the closure-in place sample NSW-1a did indicate COC concentrations above applicable SS and MO-2 Limiting RS (Table 2), however, this sample was collected immediately beyond the subject property boundary and is representative of offsite soil concentrations within the Mary Street right-of-way, not within the subject property boundaries. It should be noted that the COC concentrations at the NSW-1a location were less than the concentrations from the previous NSW-1 location, approximately 10 feet to the south

37 Waste Disposal

During the course of remedial activities, the following waste material was generated and properly disposed offsite

- 379 67 tons of excavated soil (including some concrete rubble) were transported to Allied Waste/BFI's landfill in Sorrento, Louisiana,
- 3,030 gallons of residual tank fluids and wash water were transported to Gator Environmental's recycling facility in Baton Rouge, Louisiana

• The purged and cleaned tanks were transported to Southern Scrap Recycling in Port Allen, Louisiana

Disposal documentation and manifests are included in Appendix C

38 Excavation Backfill and Site Restoration

The excavation was filled with clean imported silty clay (CL) material on June 5 - 10, 2008. The specifications for backfilling and compaction were as follows

- 1 The Proctor, Grain Size, Atterberg Limits, Moisture Content test results were submitted for approval by Shaw and Jerry Watts Architects prior to use for backfilling
- 2 For the top four feet of the excavation, backfill and compaction were performed in 6to 8-inch lifts with compaction meeting the requirements for a 95 standard Proctor Nuclear Density field tests were performed on each lift above 4 feet bgs
- 3 No testing was performed on lifts with top of lift below 4 feet bgs, due to excavation safety concerns, so one of the following methods was used
 - backhoe bucket tamping for 6 inch (or less) lifts,
 - machine compactor for 6-18 inch lifts, and
 - no lift exceeded 18 inches in thickness

39 Certificate of Completion

This VRAR demonstrates that the objectives/requirements of the approved VRAP have been met. The subject site meets residential RECAP Standards and is eligible for closure without restriction. Shaw respectfully requests that a Certificate of Completion should be issued to EBRHA pending the approval of the VRAR.

BOBBY JINDAL GOVERNOR



HAROLD LEGGETT, Ph.D. SECRETARY

State of Louisiana

DEPARTMENT OF ENVIRONMENTAL QUALITY ENVIRONMENTAL ASSESSMENT

APR 0 2 2009

CERTIFIED - RETURN RECEIPT REQUESTED 7004 1160 0000 3794 6633

Mr. Richard Murray
East Baton Rouge Housing Authority
4731 North Boulevard
Baton Rouge, LA 70806

RE: Voluntary Remedial Action Report Approval/Certificate of Completion H.O.P.E. VI; AI Number 93917

1705 Highland Road

Baton Rouge, East Baton Rouge Parish, Louisiana

Dear Mr. Richard Murray:

The Louisiana Department of Environmental Quality (LDEQ), Remediation Services Division (RSD) has completed its review of all of the relevant documents submitted on your behalf by Shaw Environmental, Inc. for the successful completion of the Voluntary Remediation Program (VRP). Thank you for providing this information.

This report concludes the tasks that were required to be performed by the VRP Remedial Action Plan submitted to the Louisiana Department of Environmental Quality (LDEQ) dated September 2008. The LDEQ approves the Voluntary Remedial Action Report and hereby certifies that H.O.P.E VI has completed the approved remedial action work plan in accordance with La. R.S., Title 30, Chapter 12, Part II.

This letter serves as your Certificate of Completion for the H.O.P.E. VI site. This Certificate of Completion is subject to the terms and conditions of the Voluntary Remediation Program. This Certificate of Completion exempts H.O.P.E.VI, its successors and assigns from liability under LSA-R.S., Title 30, Chapter 12, Part I.

The exemption from liability is also subject to all applicable exceptions and limitations set forth in the above mentioned statutes.

Mr. Richard Murray Page 2

The LDEQ appreciates your effort in working on, and concluding this project. Please contact Rashaunda Johnson at 225-219-0875 for any questions concerning site issues.

Sincerely,

Paul D. Miller, P.E.

Assistant Secretary

PDM:rmj

c: Imaging Operations-IAS

B. Keith Boeneke, Project Manager, Shaw Environmental

HOPE VI Properties East Baton Rouge Parish Housing Authority

EBRHA HOPE VI Property Disposition SWART BURNS HAZEL MARGARET EP/ICATION 20 UND LETTSWORTH NFRRASKA ARRISON HARRISON 10/1/2008 OSBR Land, LLC Parcels -- HOPE VI Disposition LRA Parcels -- HOPE VI Disposition



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CONCEPTUAL CLEAN-UP STRATEGY AND ANALYSIS OF BROWNFIELDS CLEANUP ALTERNATIVES

Lincoln Theater Louisiana Black History Hall of Fame 1305 Myrtle Walk Baton Rouge, Louisiana 70802

Agency Interest No. 169406

Project Number: 133340

July 2011

Submitted to:

Louisiana Department of Environmental Quality Remedial Services Division P.O. Box 4314 Baton Rouge, LA 70821

Submitted by:



4171 Essen Lane Baton Rouge, Louisiana 70809

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Appendix C	Lead Based Paint XRF Inspection Report
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1.1 Introduction

The Lincoln Theater is a vacant historic building near downtown Baton Rouge at 1305 Myrtle Walk, Baton Rouge, Louisiana (Figure 1.1). The Lincoln Theater was formally a thriving historic performing arts venue. The current owner, the Louisiana Black History Hall of Fame, is currently restoring and redeveloping the Theater. The two-story building includes the main theater and projector room, a concessions area, a retail area, a former barber shop, five offices, and associated lavatories and storage areas. A mechanical/electrical room is included in a sublevel. The total occupiable area is approximately 9,300 square feet.

The environmental work conducted includes a Phase I Environmental Site Assessment (ESA), dated January 2009, completed by MEL, Inc. and Quaternary Resource Investigations, Inc. (QRI). This ESA identified suspected asbestos containing materials (ACM), possible lead based paint, and the potential for lead in the potable water system.

Concurrent with the Phase I ESA, QRI and their subcontractor Advanced Environmental Consulting, Inc. (AEC) also performed a limited asbestos survey, a lead paint survey, and sampling and lead analysis of potable water in the building. On April 12, 2010, Shaw Environmental, Inc. (Shaw) performed an initial site inspection of the building and property in part to visually assess the presence of confirmed and suspected ACM. During the reconnaissance Shaw walked along the outside of the building and visually surveyed the rooftop and all accessible interior areas of the building. The barbershop, attic areas, first floor restrooms, and some second floor offices were not accessible during this initial reconnaissance. During this inspection, Shaw identified additional materials that were suspected of containing asbestos but that were not sampled in the February 2009 investigation. These materials included wall paper/coverings through the interior of the building, carpeting in the theater area and second floor offices, flooring in the second floor bathrooms, backstage ceiling insulation, HVAC duct insulation, suspended ceiling in the retail area and projector room, and the exterior roofing material. Although the barber shop, first floor restrooms, and some second floor offices were not accessible during the reconnaissance, it was presumed that these areas included materials similar to those observed in the rest of the building.

Based on these findings and the plans for renovation of the Theater, additional investigation and sampling was performed. This additional investigation included a mold inspection and additional sampling of suspect ACM to sufficiently address the remediation needs of the Theater. Specifically, each material that was suspected of containing asbestos, as described above, was to

be sampled to determine whether or not each of the materials was asbestos-containing or non-asbestos-containing.

This report provides a summary the results of the previous and more recent environmental investigations, presents an Analysis of Brownfields Cleanup Alternatives, proposes the selected cleanup strategy, and estimates costs for the cleanup of the confirmed contaminants present at the Theater.

2.1 Asbestos Surveys

On February 9, 2009 Advanced Environmental Consulting, Inc. (AEC) collected samples of suspect ACM on behalf of QRI. During the investigation four (4) bulk samples were collected from the stage floor, theater area walls and ceiling, and second floor corridor floor. These samples were sent to CA Labs, L.L.C. in Baton Rouge, Louisiana and analyzed for asbestos content utilizing polarized light microscopy as described in "Interim Method for Determination of Asbestos Bulk Insulation Samples" (EPA600/R-93/116). The methodology and results were initially reported in the QRI Phase I Environmental Site Assessment Report, addressed to MEL, Inc., and dated February 19, 2009.

On February 15 and 16, 2011 Shaw performed an expanded asbestos survey to identify, label, and catalog all asbestos containing material/presumed asbestos containing material (ACM/PACM) at the Lincoln Theater. During the sampling for ACM at the Lincoln Theater, a total of 206 samples were collected from 172 locations. The sample locations were selected so that the samples were representative of each homogenous area (HA) of suspected ACM. There were a total of 37 homogenous areas in all. Each sample location and description was logged and photographed to assist with future ACM management activities. The samples were placed in sealed plastic bags, labeled with the sample sequence number, and then transported to EMSL in Baton Rouge, Louisiana for testing under proper chain of custody. Inaccessible items, including piping and insulation contained inside of building walls that could not be reached without destructive means were not inspected or sampled. Items that were previously sampled for asbestos content by AEC on February 9, 2009 were not re-sampled during this event. Each sample was analyzed by polarized light microscopy as described in "Interim Method for Determination of Asbestos Bulk Insulation Samples" (EPA600/R-93/116). Sample locations are shown on Figures 2.1 through 2.4.

2.2 Lead Based Paint Survey

On February 9, 2009, AEC utilizing the services of Lanny J. Herring of New Iberia, Louisiana, at the direction of QRI, performed a lead based paint survey. Mr. Herring, utilizing a portable, handheld X-Ray Fluorescence (XRF) Analyzer performed direct readings on a total of fifty-six (56) data points suspected of containing lead based paint. These data points included all painted surfaces throughout the Theater both interior and exterior regardless of the substrate. The methodology and results were initially reported in the QRI Phase I Environmental Site Assessment Report, addressed to MEL, Inc., and dated February 19, 2009.

2.3 Lead In Drinking Water Investigation

On February 9, 2009, AEC at the direction of QRI collected potable water samples for laboratory testing to determine the total concentrations of lead in potable water in the Theater. Samples were collected from the drinking fountain located in the barbershop area as well as the sink in the lobby snack bar area. Samples were collected from each source point in four (4) separate cuts/draws in an attempt to isolate the four (4) distinct sections of the water line system. Samples were collected from the following cuts/draws:

- 1. Water in direct contact with the water dispensing fixture,
- 2. Water in the lines under the sink and in the walls immediately adjacent to the dispensing fixtures,
- 3. Water in the lines between the structure and the city water main,
- 4. and water in the city water main.

Samples were collected in laboratory supplied containers, preserved as necessary, and then transported to EMSL Analytical in Westmont, New Jersey for testing under proper chain of custody. The methodology and results were initially reported in the QRI Phase I Environmental Site Assessment Report, addressed to MEL, Inc., and dated February 19, 2009

2.4 Mold Assessment

On February 15 and 16, 2011, Shaw conducted a visual mold assessment to confirm the presence of microbial growth in and on all visible internal building components and systems at the Lincoln Theater.

No intrusive methods were used during the mold assessment. The confirmatory list of mold growth locations included in this report is not intended to be all inclusive since further verification may not be possible until renovation and restoration activities commence.

3.1 Asbestos Surveys

The results derived from the limited asbestos survey conducted on February 9, 2009 by Advanced Environmental Consulting, Inc. (AEC), confirmed the presence of ACM. Four (4) bulk samples were collected from the stage floor, theater area walls and ceiling, and second floor corridor floor. As described in the QRI Phase I Environmental Site Assessment Report dated February 19, 2009 and addressed to MEL, Inc., of the four homogenous areas sampled, only the 9 inch floor tile and associated mastic located in the second floor offices was found to positively contain asbestos greater than 1%. This data is summarized in Table 3.1. The CA Labs, L.L.C analytical report is included in Appendix A. Figure 3.1 illustrates the area with a confirmed ACM presence resulting from the Limited Asbestos Survey.

On February 15 and 16, 2011 Shaw performed an expanded asbestos survey that investigated all previously un-sampled media with the potential to contain asbestos. A total of 206 samples were collected from 172 locations. The sample locations were selected so that the samples were representative of each homogenous area (HA) of suspected ACM. Shaw sampled a total of 37 homogenous areas.

Samples that contain greater than 1% asbestos by weight are considered asbestos-containing. Of the 206 samples collected, the following materials were identified as asbestos-containing:

- Approximately 420 square feet of black and white floor tile in the Barber Shop.
- Approximately 20 linear feet of piping insulation in the mechanical/electrical room.

A summary of the expanded survey sample results are included in Table 3.2. The EMSL laboratory analytical report is included as Appendix B. Photographs of sample locations have also been provided on the enclosed CD as Appendix E. Figure 3.2 illustrates the areas that were confirmed to contain asbestos discovered in the Expanded Asbestos Survey.

3.2 Lead Based Paint Survey

On February 9, 2009, Lanny J. Herring on behalf of AEC performed a lead based paint survey utilizing a portable, handheld X-Ray Fluorescence (XRF) Analyzer. A total of fifty-six (56) data points suspected of containing lead based paint were collected. These data points included all painted surfaces throughout both the interior and exterior areas of the Theater regardless of the substrate. As reported in the QRI Phase I Environmental Site Assessment Report dated February 19, 2009 and addressed to MEL, Inc., of the 56 data points collected, the only ones to confirm the presence of lead were the painted exterior metal entry doors and associated door facings

(Table 3.3). The doors coated with lead based paint are shown in Figure 3.3. The lead paint inspection report is included in Appendix C.

3.3 Lead In Drinking Water Investigation

On February 9, 2009, AEC, at the direction of QRI, collected potable water samples for laboratory testing to determine lead concentrations. Samples were collected from the drinking fountain located in the barbershop area as well as the sink in the lobby snack bar area. Samples were collected from each source point in four (4) separate cuts/draws in an attempt to isolate the four (4) distinct sections of the water line system.

As reported in the QRI Phase I Environmental Site Assessment Report (February 19, 2009), of the four samples collected and analyzed from the drinking fountain located in the barber shop area, the sample from cut/draw No. 4 was found to contain lead below the Safe Drinking Water Act (SDWA) limit of 15 parts per billon (ppb). All four cuts/draws from the sink in the lobby snack bar area exceeded the SDWA limit. These results confirm that the elevated lead concentrations are attributable to the building piping systems and not the local supply. A summary of these results can be found in Table 3.4. The EMSL Analytical report is included as Appendix D.

3.4 Mold/Microbial Growth

On February 15 and 16, 2011, concurrent with asbestos survey activities, Shaw conducted a visual mold assessment to confirm the presence of microbial growth in and on internal building components and systems at the Lincoln Theater. Shaw also noted potential sources of moisture intrusion into the building. Due to compromised structural systems within the Lincoln Theater, such as broken windows and window frames as well as breaches in the roof, allowing the intrusion of moisture into the building envelope, numerous areas of suspected microbial growth were identified (Figures 3.4 and 3.5). These areas included the following.

- Sheetrock and ceiling materials in the projector room, main Theater area, and second floor offices,
- Seat cushions in the Theater area,
- Carpeting in the Theater area and second floor offices,
- Areas behind the wall coverings in the lobby area and the 2nd floor offices,
- and HVAC ductwork.

There are obvious points of moisture intrusion into the building envelope. Specifically, there are numerous broken windows and window frames across the front of the building along with roof leakage from not only a deteriorating roofing surface but holes from a fallen tree. Furthermore, in humid climates, like those in which the Theater exists, merely a lack of air circulation in a building can support mold growth on rough, porous, and permeable surfaces. Figures 4.4 and 4.5 illustrate the areas of the Theater structure with compromised structural systems allowing the entry of moisture.

4.0 Conceptual Clean-Up Strategy and Analysis of Brownfields Cleanup Alternatives

4.1 Introduction

The Louisiana Black History Hall of Fame is currently in the process of planning and preparing for the restoration and redevelopment of the Theater and Theater property. As such, certain building systems and components will need to be replaced or restored in order to bring the Theater structure and building systems up to a functional standard meeting current building and environmental codes and regulations, all the while preserving the historically significant attributes within. The environmental concerns include Asbestos Containing Materials, Lead Based Paint, Lead in Drinking Water, and Mold/Microbial Growth. After sufficient investigation was conducted, as described in the following sections, several cleanup alternatives were evaluated in order to achieve the remediation and renovation goals of the Theater, including no-action alternative. Based on the nature of the impact and the plans for renovation of the historic Theater, the no-action alternative was not deemed reasonable or adequately protective of the future use. Further discussion of the selected cleanup alternatives is included in this conceptual clean-up strategy in the following sections.

4.2 Asbestos Containing Materials

Asbestos inspections revealed a limited amount of ACM within the Theater structure. These materials include the following.

- Approximately 420 square feet of black and white floor tile in the barber shop.
- Approximately 260 square feet of floor tile in the second floor hallway adjacent to the offices and in the bathrooms on the second floor.
- Approximately 20 linear feet of piping insulation in the mechanical/electrical room.

Asbestos containing floor coverings and mastic totaling approximately 680 square feet in two distinct areas are in poor condition given the age of the materials. Although these materials are not friable, they are broken, chipped, displaced, and in a state of disrepair, thus necessitating complete remediation. Per The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51. Subchapter M), asbestos containing floor coverings and mastic are classified as a Category I Nonfriable Asbestos-Containing Material and must be abated per this Code by a State of Louisiana Licensed Asbestos Abatement Contractor employing State of Louisiana Accredited Asbestos Workers. Furthermore, State-licensed abatements contractors must comply with OSHA Inspection Procedures for Occupational Exposure to Asbestos Final Rule 29 CFR Parts

1910.1001, 1926.1101, and 1915.1001. Areas containing ACM that require abatement are shown on Figures 4.1 and 4.2.

Approximately 20 linear feet of piping insulation exist in the mechanical/electrical room. This material is in very poor condition and can easily become airborne and requires complete remediation. Per The Louisiana Air Quality Regulations (LAC 33:III.Chapter 51. Subchapter M), piping insulation is classified as Thermal System Insulation (TSI) and must be abated per this Code by a State of Louisiana Licensed Asbestos Abatement Contractor employing State of Louisiana Accredited Asbestos Workers. Furthermore, State-licensed abatements contractors must comply with OSHA Inspection Procedures for Occupational Exposure to Asbestos Final Rule 29 CFR Parts 1910.1001, 1926.1101, and 1915.1001.

Upon successful completion of abatement activities, the concrete substrate underlying the tile flooring in the barber shop and second floor corridor can be replaced with new flooring or stained and scorned to match the planned new décor. The water piping in the mechanical/electrical room can be reinsulated utilizing a non-asbestos containing insulation such as foam, fiberglass or rubber.

4.3 Lead Based Paint

The painted exterior metal entry doors and associated door facings in the Theater were found to contain lead. Since these doors and door facings are not necessarily historically significant, a complete replacement of these fixtures may be favorable in lieu of remediation via sand-blasting or encapsulation due to the cost-prohibitive nature of small-scale lead paint abatement activities. However, if an abatement is chosen, all applicable rules and regulations including those found in the Louisiana Air Quality Regulations (LAC 33:III.Chapter 28) and OSHA Lead in Construction Standard (29 CFR 1926.62) must be abided by utilizing a State of Louisiana Licensed Lead Abatement Contractor employing State of Louisiana Accredited Lead Workers. Areas coated with Lead Based Paint are shown on Figure 4.3.

4.4 Lead in Drinking Water

Water samples collected from the piping system show that potable water in the Theater contain lead concentrations in excess of the SDWA limit of 15 parts per billion (ppb). To reduce the lead concentrations in the potable water to below 15 ppb, remedies include, but are not limited to, the following:

- Onsite treatment/removal of lead prior to consumption and use; or
- Capping-in-place or removal of the existing potable water system and installing a new piping system according to the specifications of future renovation plans and future planned configurations and locations of fixtures and lavatories.

Based on feasibility and cost, considering the planned renovation, the recommended cleanup alternative is removal and replacement the existing potable water system.

4.5 Mold/Microbial Growth

Mold spores are present in most interior building spaces under normal conditions and are usually non-hazardous unless mold spores land on wet or damp surfaces and begin propagating. Breaches in building envelopes often cause wet and damp conditions in building interiors, particularly in humid climates, that facilitate mold and microbial growth. In the case of the Lincoln Theater, there are obvious points of moisture intrusion into the building envelope. Specifically, there are numerous broken windows and window frames across the front of the building along with roof leakage from not only a deteriorating roofing surface but holes from a fallen tree. Furthermore, in humid climates, like those in which the Theater exists, merely a lack of air circulation in a building can support mold growth on rough, porous, and permeable surfaces.

During the February 2011 inspections, Shaw visually confirmed mold/microbial growth on the carpeting, seat cushions, sheetrock, suspended ceiling tiles, HVAC ductwork and areas behind wall coverings (Figures 3.4 and 3.5. Figures 4.4 and 4.5 illustrate the areas of the Theater structure with compromised structural systems allowing the entry of moisture.

Since there are no promulgated regulations/standards for the remediation of mold impacted media, ultimately any decision dealing with impacted media should be based on professional judgment. However, certain measures can be taken to remediate existing mold/microbial growth and deter future growth, as described in the United States Environmental Protection Agency (EPA)-issued guidance document: "Mold Remediation in Schools and Commercial Buildings" (EPA 402-K-01-001) (March 2001. These measures include, but are not limited to, the following:

- Elimination of sources of moisture intrusion;
- Removal and disposal of impacted media;
- Thorough cleaning of non-removable, non-replaceable media with water and suitable antimicrobial detergent followed by desiccation with a functional HVAC system, dehumidifiers, heaters, and/or fans; and
- Maintaining indoor humidity levels below 60% relative humidity by replacing HVAC systems and/or increasing air circulation.

Considering the plans for renovation of the Theater, the recommended cleanup alternative includes a combination of the above methods depending on the specific media. Work should be performed in connection with building renovations to allow for utilization of the new HVAC system for building conditioning after the mold remediation is complete.

Shaw worked with the architect of record for the Theater renovation, Chenevert Architects (Baton Rouge, Louisiana), to develop a unit-price-based estimate for the remediation of environmental concerns at the Lincoln Theater. As part of the renovation and redevelopment of the Theater, a portion of the costs of the remediation efforts are eligible for EPA Cleanup Grant and Brownfields Revolving Loans Funds (RLF). Remediation elements that are eligible for Grant and/or RLF funding are those that are direct costs associated with the cleanup of a Brownfield site. Generally, the proposed cleanup is eligible since the environmental investigations have confirmed the presence of hazardous substances, pollutants, or contaminants (CERCLA 104(k)). Grant and RLF funding may also be available to partially or fully fund the replacement of certain building components when replacement is either necessary as a direct cleanup expense, favorable in lieu of abatement (on an evaluation cost basis), or necessary to maintain structural and/or environmental integrity after or during cleanup (i.e. a direct cleanup cost). A summary of the costs associated with remedial efforts is presented in Table 5.1 and described below.

Based on our professional opinion and the investigations conducted at the Lincoln Theater, the total estimated direct cleanup cost eligible for CERCLA 104(k) funding is \$259,210. The components of these costs are discussed below.

5.1 Asbestos

The recommended cleanup strategy for ACM includes the abatement, or removal and disposal, of approximately 687 square feet of asbestos-containing floor tile and associated mastic. The location and estimated quantity are shown on Figures 4.1 and 4.2. A cost estimate for this work was developed using the following assumptions:

- In our experience, removal and disposal of 687 square feet of ACM floor tile should cost approximately \$10.00 per square foot after a mobilization/preparation cost of approximately \$500, for a total cost of \$7,370;
- Since the building will be renovated (and not demolished) the ACM tile will be replaced with suitable flooring. Replacement will also serve as an encapsulation of any remaining mastic not removed during abatement. Based on experience and our discussions with the architect, replacement costs are estimated at \$4.00 per square foot, for a total cost of \$2,748.
- Due to the nature of this work we anticipate that 100% of the removal, disposal, and replacement costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for removal, disposal, and replacement is estimated as \$10,118, refer to items 5.1 and 5.1.A on Table 5.1.

5.2 Mold and Moisture Intrusion

The abatement and prevention of mold/microbial growth includes the removal and disposal of impacted media, the cleaning of non-removable, non-replaceable media, and the elimination of sources of moisture intrusion. The location and estimated quantities of compromised building materials allowing moisture intrusion and mold impacted building materials are shown on Figures 4.5 and 4.8.

5.2.1 Demolition of Mold-Impacted Walls/Wall Coverings

Mold-impacted walls are found throughout the structure. The locations and estimated quantities are shown on Figure 4.7 and Figure 4.8. A cost estimate for this work was developed using the following assumptions:

- 299 linear feet of walls/wall coverings with 10-foot ceilings,
- the unit price of demolition is \$2.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for demolition is estimated as \$6,480, refer to item 5.2.1 on Table 5.1.

5.2.2 Replacement of Mold-Impacted Walls/Wall Coverings

Replacement of the mold-impacted walls will be required after removal. A cost estimate for this work was developed using the following assumptions:

- 299 linear feet of walls/wall coverings with 10-foot ceilings,
- the unit price of replacement is \$6.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$18,440, refer to item 5.2 on Table 5.1.

5.2.3 Demolition of Mold-Impacted Ceiling Materials

Mold-impacted ceilings are found throughout the structure. The locations and estimated quantities are shown on Figure 4.7 and Figure 4.8. A cost estimate for this work was developed using the following assumptions:

- 5,225 square feet of ceiling materials,
- the unit price of demolition is \$2.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for demolition is estimated as \$10,950, refer to item 5.2.3 on Table 5.1.

5.2.4 Replacement of Mold-Impacted Ceiling Materials in Theater/Auditorium

Replacement of the mold-impacted ceiling in the Theater/Auditorium will be required after removal. A cost estimate for this work was developed using the following assumptions:

- 4,717 square feet of ceiling,
- the unit price of replacement is \$9.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$21,476, refer to item 5.2.4 on Table 5.1.

5.2.5 Replacement of Mold-Impacted Ceiling Materials in Offices and Projector Room

Replacement of the mold-impacted ceiling in the offices and projector room will be required after removal. A cost estimate for this work was developed using the following assumptions:

- 508 square feet of ceiling,
- the unit price of replacement is \$4.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and

 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$2,532, refer to item 5.2.5 on Table 5.1.

5.2.6 Demolition of HVAC Ductwork

The HVAC ductwork is impacted with mold and should be cleaned or replaced. The location and estimated quantity are shown on Figure 4.8. In our experience and professional opinion the cost for demolition and replacement would be less expensive and more effective than cleaning. A cost estimate for this work was developed using the following assumptions:

- 239 linear feet of ductwork,
- plus the addition of 10% (24 linear feet) of connective ductwork to connect to air conditioning unit (air handling unit),
- the unit price of demolition is \$5.00 per linear foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for demolition is estimated as \$1,815, refer to item 5.2.6 on Table 5.1.

5.2.7 Replacement of HVAC Ductwork

A cost estimate for the replacement was developed using the following assumptions:

- 239 linear feet of ductwork,
- plus the addition of 10% (24 linear feet) of connective ductwork to connect to air conditioning unit
- the unit price of replacement is \$10.00 per linear foot,
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$2,629, refer to item 5.2.7 on Table 5.1.

5.2.8 Removal of Mold-Impacted Carpet in Theater Area and Offices

Mold-impacted carpeting is found throughout the structure. The locations and estimated quantities are shown on Figure 4.7 and Figure 4.8. A cost estimate for this work was developed using the following assumptions:

- 3,162 square feet of carpet,
- the unit price of removal is \$2.00 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for removal is estimated as \$6,824, refer to item 5.2.8 on Table 5.1.

5.2.9 Replacement of Mold-Impacted Carpet

The underlying floor surface is not suitable as flooring so replacement would be required. A cost estimate for this work was developed using the following assumptions:

- 3,162 square feet of carpet,
- the unit price of replacement is \$3.33 per square foot,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$11,040 refer to item 5.2.9 on Table 5.1.

5.2.10 Removal of Mold-Impacted Theater Seats

The fabric and filling in theater seats are mold-impacted as shown on Figure 4.7. It is not feasible to clean or cost effective to remove and replace only the seat cushions. A cost estimate for this work was developed using the following assumptions:

- 516 seats.
- the unit price of removal is \$10.00 per seat,
- \$500.00 of other costs associated with mobilization and preparation, and

 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for removal is estimated as \$5,660, refer to item 5.2.10 and on the Table 5.1.

5.2.11 Replacement of Mold-Impacted Theater Seats

A cost estimate for replacement was developed using the following assumptions:

- 516 seats,
- the unit price of replacement of similar type is \$250.00 per seat,
- \$500.00 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$64,750, refer to item 5.2.11on Table 5.1.

5.2.12 Removal of Damaged Windows and Frames

Certain windows are damaged and have allowed water to leak into the building. The locations and estimated quantities are shown on Figure 4.5. Repairs may be possible rather than removal or replacement, but current renovations expect to replace all of the windows with more energy efficient and suitable window. To account for this cost difference the eligible costs have been factored as described below. A cost estimate for this work was developed using the following assumptions:

- 29 window and frames,
- the unit price of removal is \$500.00 per window and frame,
- \$2,000 of other costs associated with mobilization and preparation, and
- 10% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for removal is estimated as \$1,650, refer to item 5.2.12 on Table 5.1.

5.2.13 Replacement of Damged Windows and Frames

A cost estimate for this replacement was developed using the following assumptions:

• 29 window and frames,

- the unit price of replacement is \$1,500.00 per window and frame,
- \$2,000 of other costs associated with mobilization and preparation, and
- 10% of the costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$4,550, refer to item 5.2.13 on Table 5.1.

5.2.14 Demolition of Damaged Roof

The roof is damaged and has allowed water to leak into the building. The location and estimated damaged area are shown on Figure 4.6. Repairs may be possible rather than removal or replacement, but current renovation plans include replacement of the entire roof. To account for this cost difference the eligible costs have been factored as described below. A cost estimate for this work was developed using the following assumptions:

- 7,342 square feet of rooftop
- the unit price of demolition is \$5.00 per square foot,
- \$5,000 of other costs associated with mobilization and preparation, and
- 20% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for demolition is estimated as \$8,342, refer to item 5.2.14 on Table 5.1.

5.2.15 Replacement of Damaged Roof

A cost estimate for replacement (factored as described above) was developed using the following assumptions:

- 7,342 square feet of rooftop
- the unit price of replacement is \$11.00 per square foot, and
- 20% of the costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for replacement is estimated as \$16,152, refer to item 5.2.15 on Table 5.1.

5.3 Lead Based Paint

The locations of the lead paint coated surfaces are shown on Figure 4.4. The abatement of lead based paint on some of the Theater doors would includes sandblasting of approximately 120 square feet of impacted media. An alternative remedy to sandblasting that was also considered was the removal and replacement of the doors. It was assumed, however, that the cost of the removal and replacement of the doors would exceed that of abatement. Therefore, in our opinion, regardless of the remedy selected, the total estimated eligible costs would be based on the lower cost option, sandblasting, for a total estimated cost of \$6,200.00. A cost estimate for this work was developed using the following assumptions:

- the unit price of abatement is \$10.00 per square foot,
- \$5,000 of other costs associated with mobilization and preparation, and
- 100% of the demolition costs would be deemed eligible cleanup expenses under CERCLA §104(k).

The total cost for abatement is estimated as \$6,200, refer to item 5.3 on Table 5.1.

5.4 Lead In Drinking Water

The locations of the potable fixtures in the building are shown on Figure 4.2. The abatement of the water piping system and fixtures in the Theater includes the removal of lead-impacted piping and fixtures and the replacement of only the piping system. It was assumed that the cost of new water fixtures is not an eligible cleanup expense. Therefore the costs of 1 urinal at a unit price of \$1,100.00, 6 lavatories at a unit price of \$1,000.00, and 5 water closets at a unit price of \$1,300.00 were deducted from the total of eligible expenses. A cost estimate for this work was developed using the following assumptions:

- a lump sum of \$30,000.00 to remove and replace the entire water piping system and fixtures
- less the cost of new fixtures (estimated \$13,600); and
- 100% of the costs would deemed eligible cleanup expenses under CERCLA §104(k) with the exception of the replacement of fixtures.

The total cost for replacement is estimated as \$16,400, refer to item 5.4 on Table 5.1.

5.5 Grant Management

The cost of programmatic grant management is expected to be at least 10% of the cost of the remediation work. Total grant management costs are estimated to be \$21,601.

5.6 Engineering Oversight

The cost of direct cleanup costs to provide engineering oversight is expected to be 10% of the cost of the remediation work. Total engineering oversight costs are estimated to be \$21,600.84.

6.0 Conclusion

After sufficient investigations were conducted to identify and quantify environmental impacts to the Lincoln Theater, Shaw met with the Louisiana Black History Hall of Fame and Chenevert Architects to develop a Cleanup Strategy and an Analysis of Brownfields Cleanup Alternatives suitable for the future renovation efforts of the Theater. The cleanup options were evaluated based on cost and practicality and the selected remedies are presented herein.

Based on our professional opinion and the investigations conducted at the Lincoln Theater, the total estimated direct cleanup cost eligible for CERCLA 104(k) funding is \$259,210.



TABLE 3.1 LIMITED ASBESTOS SURVEY SUMMARY TABLE LINCOLN THEATER LOUISIANA BLACK HISTORY HALL OF FAME 1305 MYRTLE WALK BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA

AGENCY INTEREST NO. 169406

Sample No.	Date Collected	Layer No.	Location	Description	Asbestos Containing (Y/N)	Type of Asbestos	% Asbestos	Method
1	2/9/2009	I	Stage	Black Floor Tile	N	n/a	n/a	EPA600/R-93/116
1	2/9/2009	2	Stage	Tan Mastic	N	n/a	n/a	EPA600/R-93/117
2	2/9/2009	1	Stage	Gray/Black Tile Material	N	n/a	n/a	EPA600/R-93/116
3	2/9/2009	I	Theater Ceiling	Gray Fire Proofing	N	n/a	n/a	EPA600/R-93/116
4	2/9/2009	I	2nd Floor Offices	Tan Floor Tile	Ā	Chrysotile	3	EPA600/R-93/116
4	2/9/2009	2	2nd Floor Offices	Black Mastic	Ā	Chrysotile	4	EPA600/R-93/117
4	2/9/2009	T	2nd Floor Offices	Tan Floor Tile	Ā	Chrysotile	3	EPA600/R-93/118
4	2/9/2009	2	2nd Floor Offices	Black Mastic	Ā	Chrysotile	4	EPA600/R-93/119

TABLE 3.2 EXPANDED ASBESTOS SURVEY SUMMARY TABLE LUNCOLN THEATER LOUISIANA BLACK HISTORY HALL OF FAME 1305 MYRTLE WALK

BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIAN AGENCY INTEREST NO. 169406	The state of the s

Disturbance	Potential											7																	6									Low		C IIvana	Low		Low		Low			Low									
Friable	(X/N)																																					No			No		No		No			No									
Condition																																						Good			Cood		Good		Good			Cood									
Ouzudite	ì																																					420 ft ²		60.00	420 ff		420 ft ²		420 ft ²			420 ft ²									
Method		EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116 EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EDA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116 EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116 EPA600/R-93/116
% Achaetae		n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	m/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	In a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	3%	n/a	n/a	3%	n/a n/a	N/A	n/a	%9	n/a	n/a	N/A	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a	n/a n/a
Type of	Asbestos	n/a	n/a	n/a	n/a	n/a	n/a	n/a n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	10/2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	IV a	n/a	n/a	n/a	n/a	n/a	11/3	10/a	n/a	n/a	Chrysotile	n/a	10/a	Chrysotile	n/a	Chrysotile	n/a	Chrysotile	n/a	n/a	Chrysotile	n/a	11/3	n/a	n/a	n/a	n/a	n/a n/a	n/a	n/a n/a
Asbestos	(X/N)	No	No	No	No	No	No	No.	No	No	No	No	No	No.	oN :	ON N	ONI	No.	N N	No	No	No	No	No	No	oN :	No	No	N _o	No	No	No	No.	N.	No	No	No	Yes	No	oN ;	Yes	N o	Yes	No	Yes	No	No	Yes	No N	N N	No	No	No	No No	No No	No	o N N
Roence interest no. 103400		None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	Positive	None Detected	None Detected	Positive	None Detected	Stop positive	None Detected	Positive	None Detected	None Detected	Stop positive	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected None Detected
Description		Wall Paper & Mastic	Wall Paper & Mastic	Underside Coating of Sinks	Underside Coating of Sinks	Underside Coating of Sinks	Ceiling Coating & Substrate	Ceiling Coating & Substrate	Wall Paper & Mastic	Wall Paper & Mastic	Wall Paper & Mastic	Floral Border Wall Paper	Floral Border Wall Paper	Floral Border Wall Paper	Wall Covering & Mastic	Wall Covering & Mastic	Wall Covering & Mashe	Electrical Panel Partition	Electrical Panel Partition	Suspended Ceiling	Suspended Ceiling	Suspended Ceiling	Wall Covering & Mastic	Wall Covering & Mastic	Wall Covering & Mastic	Wall Board	Wall Board	Wall boald	Outer vertical counter cover	Outer vertical counter cover	Countertop	Countertop Mastic	Countertop	Counterton	Countertop Mastic	Black floor tile	Floor tile Mastic	Red floor tile	Black floor tile	Floor tile Mastic	Tan floor tile	Floor tile Mastic	Red floor tile	White floor tile	Tan floor tile	Floor tile Mastic	White floor tile	Tan floor tile	Floor tile Mastic	Flor file Mastic	Wall Coating	Wall Coating	Wall Coating	Seat Padding	Seat Padding	Seat Padding	Seat Padding Red Carpet
Toroiton		Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Lobby	Lobby	Lobby	Lobby	Lobby	Lobby	Retail Area	Retail Area	Dottell Area	Patril Area	Retail Area	Retail Area Closet	Retail Area Closet	Retail Area Closet	Retail Area Closet	Retail Area Closet	Retail Area Closet	Retail Area Closet	Retail Area Closet	Consession Asset	Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Concession Area	Barber Shop	Barber Shop	Barber Shop	Barber Shop	Barber Shop	Barber Shop	Barber Shon	Barber Shop	Barber shop	Barber shop	Barber shop	Barber shop	Barber shop	Barber shop	Barber shop	First floor bathrooms and ticket office	First floor bathrooms and ticket office	First floor bathrooms and ticket office	Theater Area	Theater Area Theater Area	Theater Area	Theater Area Theater Area
I sh Samula III		041103907-0001	041103907-0002	041103907-0003	041103907-0005	041103907-0006	041103907-0007	041103907-0008	041103907-0010	041103907-0011	041103907-0012	041103907-0013	041103907-0014	041103907-0015	041103907-0016	04110390/-001/	041103907-0018	041103907-0019	041103907-0020	041103907-0022	041103907-0023	041103907-0024	041103907-0025	041103907-0026	041103907-0027	041103907-0028	041103907-0029	041103907-0030	041103907-0032	041103907-0033	041103907-0034	041103907-0034A	041103907-0035	041103907-0036	041103907-0036A	041103907-0037	041103907-0037A	041103907-0037B	041103907-0038	04110390/-0038A	041103907-0038B	041103907-0039A	041103907-0039B	041103907-0040	041103907-0040A	041103907-0040B	041103907-0041	041103907-0041A	041103907-0041B	041103907-0042A	041103907-0043	041103907-0044	041103907-0045	041103907-0046	041103907-0047	041103907-0049	041103907-0050 041103907-0051
Date	Analyzed	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	2/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011
Date	Collected	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/12/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	1102/21/2	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011
Commb ID		1A	113	2A	2B	2C	3A	35	4A	4B	4C	5A	5B	2C	P49	89 S	70	d di	2/2	8A	8B	8C	9A	9B	26	10A	100	110	118	110	12A	12A	178	120	12C	13A	13A	13A	13B	158	138	130	13C	14A	14A	14A	14B	14B	14B	140	15A	15B	15C	16A	160	16D	16E 17A

TABLE 3.2 EXPANDED ASBESTOS SURVEY SUMMARY TABLE LINCOLN THEATER LOUISIANA BLACK HISTORY HALL OF FAME 1306 MYRTLE WALK BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA AGENCY INTEREST NO. 169406

Disturbance Potential			(-)																	High	High	High											Ô																3 - 5)										
Friable (Y/N)						20														Vec	Yes	Yes					5 .4							40 (3																									
Condition																				Poor	Poor	Poor																																					
Quantity																				20 linear feet	20 linear feet	20 linear feet															9																						
Method	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EDA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-95/116	EPA600/R-93/116 FPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116 FPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116						
% Asbestos	n/a	n/a	n/a	n/a	n/a	1/3	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	1/a	2/4	20%	N/A	N/A	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	m/a	n/a	n/a	n/a	n/a	n/a	n/a	10/3	n/a	10/a	n/a	n/a	n/a	10/3	n/a	n/a						
Type of Asbestos	n/a	n/a	n/a	n/a	n/a	10/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	2/4	Chrysotile	Chrysotile	Chrysotile	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	11/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Asbestos Containing (Y/N)	No	No	N _o	No	No	No.	No.	No No	No	No	No	No	No	No	%	No	No	No	S. N	Vec	Yes	Yes	No	No	No	No	No	No	No	oN 2	ON .	o Z	No	No	No	No	No	No.	N.	No	No	No	No	No.	N N	No.	No.	No	No	No No	No.	No.	No	No	No	No	S S	No	No
Result	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	Positive Positive	Stop positive	Stop positive	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected					
Description	Carpet Mastic	Red Carpet	Carpet Mastic	Red Carpet	Carpet Mastic	Camet Mastic	Red Carpet	Carpet Mastic	Plaster Ceiling	Plaster Ceiling Liner	Plaster Ceiling	Plaster Ceiling Liner	Plaster Ceiling	Plaster Ceiling Liner	Suspended Ceiling	Suspended Ceiling	Suspended Ceiling	Ceiling Surfacing Material	Ceiling Surfacing Material	Water Pine Insulation	Water Pipe Insulation	Water Pine Insulation	HVAC External Insulation	HVAC External Insulation	HVAC External Insulation	HVAC Access Panel Insulation	HVAC Access Panel Insulation	HVAC Access Panel Insulation	HVAC Ductwork Insulation	HVAC Ductwork Insulation	HVAC Ductwork Insulation	Roofing Material	Roofing Material	Roofing Material	Roofing Material	Roofing Material	Koofing Material	Floor file Mactic	Black floor tile	Floor tile Mastic	Black floor tile	Floor tile Mastic	Black baseBoard	BaseBoard Mastic	Base-Roard Mastic	Black baseBoard	BaseBoard Mastic	Black baseBoard	BaseBoard Mastic	Black baseBoard	Black has Board	BaseBoard Mastic	Black baseBoard	BaseBoard Mastic	Gray carpet	Carpet Mastic	Gray carpet	Gray carpet	Carpet Mastic
Location	Theater Area	Theater Area	Theater Area	Back stage Area	Back stage Area	Back stage Area	Back stage Area	Back stage Area	Back stage Area	Projector room	Projector room	Projector room	Projector room	Projector room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Mechanical/electrical room	Roof	Roof	Roof	Roof	Roof	Koot	Second floor restrooms and landing	Second floor hallway	East stairwell	East stairwell	East stairwell Fact stairwell	East stairwell	East stairwell																				
Lab Sample ID	041103907-0051A	041103907-0052	041103907-0052A	041103907-0053	041103907-0053A	041103907-0034 041103907-0054A	041103907-0055	041103907-0055A	041103907-0056	041103907-0056A	041103907-0057	041103907-0057A	041103907-0058	041103907-0058A	041103907-0059	041103907-0060	041103907-0061	041103907-0062	041103907-0064	041103907-0065	041103907-0066	041103907-0067	041103907-0068	041103907-0069	041103907-0070	041103907-0071	041103907-0072	041103907-0073	041103907-0074	041103907-0072	041103907-0076	041103907-0077	041103907-0079	041103907-0080	041103907-0081	041103907-0082	041103907-0083	041103907-0084	041103907-0085	041103907-0085A	041103907-0086	041103907-0086A	041103907-0087	041103907-0087A	041103907-0088A	041103907-0089	041103907-0089A	041103907-0090	041103907-0090A	041103907-0091	041103907-0091A	041103907-0092A	041103907-0093	041103907-0093A	041103907-0094	041103907-0094A	041103907-0095 041103907-0095A	041103907-0096	041103907-0096A
Date Analyzed	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011
Date Collected	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/15/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	1102/01/2	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011
Sample ID	17A	17B	17B	17C	17C	<u> </u>	17E			18A	18B	18B	18C	18C	19A	198	200		-	214	21B	21C	22A	22 B	22C	23A	23B	23C	24A	248	24C	25A	25C	25D	25E	25F	256	76A	20A	26B	26C	26C	27A	27A	27B	27C	27C	27D	27D	2/E	8	27F	27G	27G	28A	28A	28B	28C	28C

TABLE 3.2
EXPANDED ASBESTOS SURVEY SUMMARY TABLE
LINCOLN THEATER
LOUISIANA BLACK HISTORY HALL OF FAME
1306 MYRTLE WALK
BATON ROUGE, EAST BATON ROUGE PRISH, LOUISIANA
AGENCY INTEREST NO. 169406

15.50		1	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_			_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_	_
	Disturbance Potential								1		1 2					δ· ,																										
	Friable (V/N)																																									
	Condition																																									
	Quantity																																									
	Method	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116	EPA600/R-93/116
	% Asbestos	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Type of Asbestos	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
	Asbestos Containing (Y/N)	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No	No
231 NO. 109400	Result	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected	None Detected
AGENCI INTEREST NO. 189406	Description	Wall covering	Wall covering	Wall covering	Wall covering	Wall covering	Wall covering	Vertical strip wall covering	Vertical strip wall covering	Vertical strip wall covering	Vertical strip wall covering	Vertical strip wall covering	Marbled wall covering	Marbled wall covering	Marbled wall covering	Window caulking	Window caulking	Window caulking	Blue carpet	Carpet Mastic	Blue carpet	Carpet Mastic	Blue carpet	Carpet Mastic	Gray carpet	Carpet Mastic	Gray carpet	Carpet Mastic	Gray carpet	Carpet Mastic	HVAC insulation	Tan floor tile	Floor leveler	Tan Floor tile	Floor tile Mastic	Tan floor tile	Floor leveler	Floor tile Mastic				
3	Location	Second floor men's room	Second floor men's room	Second floor men's room	East stairwell	East stairwell	East stairwell	Second floor offices	Second floor offices	Second floor offices	Second floor offices	Second floor exterior	Second floor exterior	Second floor exterior	Second floor offices	Second floor HVAC ductwork	Retail Area Closet																									
	Lab Sample ID	041103907-0097	041103907-0098	041103907-0099	041103907-0100	041103907-0101	041103907-0102	041103907-0103	041103907-0104	041103907-0105	041103907-0106	041103907-0107	041103907-0108	041103907-0109	041103907-0110	041103907-0111	041103907-0112	041103907-0113	041103907-0114	041103907-0114A	041103907-0115	041103907-0115A	041103907-0116	041103907-0116A	041103907-0117	041103907-0117A	041103907-0118	041103907-0118A	041103907-0119	041103907-0119A	041103907-0120	041103907-0121	041103907-0122	041103907-0123	041103907-0124	041103907-0124A	041103907-0124B	041103907-0124C	041103907-0124D	041103907-0124E	041103907-0124F	041103907-0124G
	Date Analyzed	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011	3/1/2011		3/1/2011
	Date Collected	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011	2/16/2011
	Sample ID	29A	29B	29C	30A	30B	30C	31A	31B	31C	31D	31E	32A	32B	32C	33A	33B	33C	34A	34A	34B	34B	34C	34C	35A	35A	35B	35B	35C	35C	36A	36B	36C	36D	36E	37A	37A	37B	37B	37C	37C	37C

TABLE 3.3 LEAD BASED PAINT INSPECTION SUMMARY TABLE LINCOLN THEATER I OUISIANA BI ACK HISTORY HALL OF FAME

LOUISIANA BLACK HISTORY HALL OF FAME 1305 MYRTLE WALK BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA AGENCY INTEREST NO. 169406

					AGENCY INTEREST NO. 169406	EREST NO.	169406					
Reading No.	Date Analyzed	Room No.	Room Name	Wall	Structure	Location	Member	Paint Condition	Substrate	Color	Lead (mg/cm2)	Mode
1	2/9/2009	n/a	Calibration	N/A	N/A	N/A	N/A	I	N/A	N/A	6.0	$^{ m TC}$
2	2/9/2009	n/a	Calibration	N/A	N/A	N/A	N/A	I	N/A	N/A	6.0	$^{ m LC}$
3	2/9/2009	n/a	Calibration	N/A	N/A	N/A	N/A	I	N/A	N/A	1.1	$^{ m LC}$
4	2/9/2009	100	Building 1	A	Wall	Right	N/A	I	N/A	N/A	-0.1	QM
5	2/9/2009	001	Building 1	A	Wall	Right	N/A	I	Brick	Red	0.0	ΟM
9	2/9/2009	100	Building 1	A	Wall	Right	N/A	I	Brick	White	-0.1	QM
7	2/9/2009	001	Building 1	A	Door	Right	Door Facing	I	Metal	White	1.1	QM
8	2/9/2009	001	Building 1	A	Door	Right	Left Casing	I	Metal	White	1.1	QM
6	2/9/2009	001	Building 1	A	Wall	Center	Panel	I	Wood	White	0.1	QM
10	2/9/2009	100	Building 1	A	Wall	Center	Panel Trim	I	Wood	White	-0.2	QM
11	2/9/2009	001	Building 1	A	Wall	Center	Gutter	I	Wood	Tan	-0.1	QM
12	2/9/2009	100	Building 1	A	Wall	Center	Gutter	I	Mood	White	0.0	QM
13	2/9/2009	100	Building 1	В	Wall	Right	N/A	I	Brick	Tan	-0.1	QM
14	2/9/2009	001	Building 1	В	Wall	Right	Panel	I	Wood	Tan	0.0	QM
15	2/9/2009	001	Building 1	В	Wall	Right	Panel Trim	I	Wood	White	-0.1	ΜÒ
16	2/9/2009	001	Building 1	В	Door	Right	Door Facing	I	Wood	White	0.1	ΜÒ
17	2/9/2009	001	Building 1	В	Door	Right	Left Casing	I	Wood	White	0.1	ΜÒ
18	2/9/2009	001	Building 1	В	Door	Right	Right Casing	I	Mood	White	2.3	QM
61	2/9/2009	001	Building 1	C	Wall	Right	N/A	I	Brick	White	-0.4	QM
20	2/9/2009	100	Building 1	D	Wall	Right	N/A	I	Brick	Tan	0.2	ÓΜ
21	2/9/2009	001	Entry	Q	Wall	Right	Gutter	I	Metal	Tan	-0.1	QM
22	2/9/2009	001	Entry	A	Wall	Center	N/A	I	Drywall	White	0.0	QM
23	2/9/2009	001	Entry	В	Wall	Center	N/A	I	Drywall	Tan	0.1	QM
24	2/9/2009	100	Entry	A	Ceiling	N/A	N/A	I	Drywall	White	0.0	QM
25	2/9/2009	001	Entry	A	Baseboard	Center	N/A	I	Mood	White	0.1	QM
26	2/9/2009	001	Entry	В	Door Face	Right	N/A	I	Wood	White	0.0	ΟM
27	2/9/2009	001	Snack Bar	В	Door	Right	Left Casing	I	Wood	White	111	QM
28	2/9/2009	002	Snack Bar	A	Ceiling	N/A	N/A	I	Drywall	White	-0.1	QM
29	2/9/2009	002	Snack Bar	A	Baseboard	Center	N/A	I	Wood	White	-0.1	QM
30	2/9/2009	002	Snack Bar	A	Wall	Center	N/A	I	Drywall	Red	-0.1	QM
31	2/9/2009	002	Snack Bar	В	Wall	Center	N/A	I	Drywall	Red	-0.1	QM
32	2/9/2009	002	Snack Bar	C	Wall	Center	N/A	I	Stucco	Red	0.1	QM
33	2/9/2009	002	Snack Bar	A	Counter Shelf	Center	N/A	I	Wood	White	0.2	QM
34	2/9/2009	002	Snack Bar	D	Counter Shelf	Center	N/A	I	Wood	White	-0.1	QM
35	2/9/2009	002	Snack Bar	D	Trim	Center	N/A	I	Wood	Red	-0.2	QM
36	2/9/2009	003	Mens Bathroom	В	Wall	Center	N/A	I	Stucco	White	0.0	QM
37	2/9/2009	003	Mens Bathroom	C	Wall	Center	N/A	I	Stucco	White	0.4	QM
38	2/9/2009	003	Mens Bathroom	A	AC Vents	Right	N/A	I	Metal	White	0.0	QM
39	2/9/2009	004	Barber shop	A	Ceiling	Center	N/A	I	Drywall	White	-0.3	QM
40	2/9/2009	004	Barber shop	A	Wall	Center	N/A	I	Stucco	White	-0.1	QM
41	2/9/2009	004	Barber shop	В	Wall	Center	N/A	I	Stucco	White	-0.1	QM

TABLE 3.3 LEAD BASED PAINT INSPECTION SUMMARY TABLE LINCOLN THEATER LOUISIANA BLACK HISTORY HALL OF FAME 1305 MYRTLE WALK BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA AGENCY INTEREST NO. 169406

						MOEINGI IIII EINEGI MO. 190400						
Reading No.	Date Analyzed	Room No.	Room Name	Wall	Structure	Location	Member	Paint Condition	Substrate	Color	Lead (mg/cm2)	Mode
42	2/9/2009	004	Barber shop	၁	Wall	Center	N/A	I	Stucco	White	0.2	QM
43	2/9/2009	004	Barber shop	D	Wall	Center	N/A	I	Stucco	White	0.2	QM
44	2/9/2009	004	Barber shop	A	Wall	Center	N/A	I	Stucco	White	-0.1	QM
45	2/9/2009	004	Barber shop	A	Door Face	Center	N/A	I	Mood	Black	0.4	QM
46	2/9/2009	004	Barber shop	Y	Door	Center	Left Casing	I	Wood	Black	0.0	QM
47	2/9/2009	004	Barber shop	A	Door Face	Center	N/A	I	Mood	Black	0.5	QM
48	2/9/2009	004	Barber shop	A	Door	Left	Left Casing	Ь	Wood	Black	9.0	ΜÒ
49	2/9/2009	900	Ladies Bathroom	A	Window	Left	Left Casing	P	Stucco	White	0.3	QM
50	2/9/2009	900	Office 5	A	Window	Left	Left Casing	P	Stucco	White	-0.1	QM
51	2/9/2009	200	Theater	Э	Window	Center	Left Casing	I	Stucco	White	-0.1	QM
52	2/9/2009	800	Theater	A	Wall	Center	N/A	I	Stucco	White	0.2	QM
53	2/9/2009	800	Theater	A	Wall	Center	N/A	I	Stucco	Red	9.0	ΜÒ
54	2/9/2009	800	Theater	В	Wall	Center	N/A	1	Stucco	White	0.2	ΜÒ
55	2/9/2009	800	Theater	В	Wall	Center	N/A	I	Stucco	Red	0.1	ΜÒ
56	2/9/2009	800	Theater	С	Door	Left	Door Facing	I	Metal	White	9.0	QM
27	2/9/2009	600	Theater	С	Door	Left	Left Casing	I	Wood	White	0.5	ÓΜ
58	2/9/2009	800	Theater	Э	Door	Right	Door Facing	I	Metal	White	0.7	QM
59	2/9/2009	800	Theater	С	Door	Right	Left Casing	I	Wood	White	9.0	QM
09	2/9/2009	800	Calibration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	$^{\rm LC}$
61	2/9/2009	800	Calibration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	TC
62	2/9/2009	800	Calibration	N/A	N/A	N/A	N/A	N/A	N/A	N/A	1.1	$^{ m LC}$

RF Type Analyzer (Serial No. 1387)

TABLE 3.4
LEAD IN WATER SUMMARY TABLE
LINCOLN THEATER
LOUISIANA BLACK HISTORY HALL OF FAME

1305 MYRTLE WALK BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIANA AGENCY INTEREST NO. 169406

Sample No.	Sample Location	Cut/Draw No.	Date Collected	Date Analyzed	Lead Concentration
W-1-A	Barber Shop Drinking Fountain	1	2/10/2009	2/16/2009	310 ppb
W-2-A	Barber Shop Drinking Fountain	2	2/10/2009	5/16/2009	98 ppb
W-3-A	Barber Shop Drinking Fountain	3	2/10/2009	2/16/2009	23 ppb
W-4-A	Barber Shop Drinking Fountain	4	2/10/2009	2/16/2009	7.3 ppb
W-1-B	Snack Bar Sink	1	2/10/2009	2/16/2009	es ppb
W-2-B	Snack Bar Sink	2	2/10/2009	2/16/2009	43 ppb
W-3-B	Snack Bar Sink	3	2/10/2009	2/16/2009	21 ppb
W-4-B	Snack Bar Sink	7	2/10/2009	6002/91/2	61 nnh

W-4-D
Suack Bat Sunk
Lead in water analyzed by Furnace AAS (EPA Method 200.9)
Safe Drinking Water Act (SDWA) limit of 15 parts per billon (ppb)

TABLE 5.1

SUMMARY OF CLEAN-UP COST ESTIMATE TABLE LINCOLN THEATER	LOUISIANA BLACK HISTORY HALL OF FAME	1305 MYRTLE WALK	BATON ROUGE, EAST BATON ROUGE PARISH, LOUISIAN	AGENCY INTEREST NO. 169406
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Removal of Absense Poor Tise Betwent of Coat Coameries Estimated Coameries Second Boar certified and barbers hope 687 State Replacement Flooring (Stained Coacete) Coameries Second Boar certified and barbers hope 687 State Coameries Second Boar certified and barbers hope 687 State Coameries Second Boar certified and barbers hope 687 State State Coameries State Coameries State Second Boar certified and barbers hope 687 State												
Removal of Abseitor, Floor Tiles Replacement of Demolished Correted Walls Wall Coverings Replacement of Demolished Correted Walls Wall Coverings (without paint) Demolition of Mold Impacted Walls Wall Coverings (without paint) Demolition of Mold Impacted Celling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Celling Materials in Theater/Auditorium Demolition of Mold Impacted Celling Materials in Theater/Auditorium Demolition of Mold Impacted Celling Materials in Theater/Auditorium Demolition of Mold Impacted Celling Materials in Offices and Projector Room Demolition of Mold Impacted Celling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Celling Materials in Offices and Projector Room Replacement of Demolished Of Mold Impacted Celling Materials in Offices Removal of Mold Impacted Carpet in Theater Area and Offices Removal of Mold Impacted Carpet in Theater Area and Offices Removal of Mold Impacted Theater Seat Cushions Removal of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frances Demolition of Damaged Windows and Frances Demolition of Damaged Roof Demolition of Damaged Roof Replacement of Damaged Roof Abuternent (e.g. sandblasting) of Lead Paint Doors and door finnes Lump sum less cost of replacement fixtures Table Removal & Replacement of Lead Impacted Piping Lump sum less cost of replacement fixtures Table Removal & Replacement of Lead Impacted Piping Lump sum less cost of replacement fixtures Table Removal & Replacement of Lead Impacted Piping	OI OI	Element of Cost	Comments	Estimated Ouantity	Unit of Measure	Unit Price	Mob/Surcharge		Total Estimate	Percent Eligible	Eligil	Eligible Cost
Replacement Flooring (Stained Concrete) Demolition of Mold Impacted Walls Wall Coverings (without paint) Demolition of Mold Impacted Walls Wall Coverings (without paint) Replacement of Demolished Of Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Demolition of Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Demolition of Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices Replacement of Demolished Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Sent Cashions Replacement of Damaged Windows and Frames Broken windows requiring replacement to Replacement of Damaged Windows and Frames Broken windows requiring replacement to Paraged Roof Abatement of Damaged Roof Abatement of Damaged Roof Abatement of Damaged Roof Abatement of Damaged Broken Replacement of Damaged Broken Replacement of Damaged Broken Replacement of Damaged Roof Abatement of		kemoval of Asbestos Floor Tiles	Second floor corridor and barber shop	289	sq ft	S 10	S	\$ 005	7,370	%001	S	7,370.00
Demolition of Modd Impacted Walls Wall Coverings Replacement of Demolished Modd Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Modd Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Modd Impacted Ceiling Materials in Offices and Projector Room Demolition of Modd Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished Modd Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished Modd Impacted Placement of Modd Impacted Carpet in Theater Area and Offices Replacement of Modd Impacted Carpet in Theater Area and Offices Replacement of Modd Impacted Carpet in Theater Area and Offices Replacement of Modd Impacted Carpet in Theater Area and Offices Replacement of Modd Impacted Carpet in Theater Area and Offices Replacement of Damaged Windows and Frances Replacement of Damaged Windows and Frances Replacement of Damaged Roof Removal of Damaged Roof Replacement of Damaged Roof Removal & Replacement of Lead Impacted Piping Languaged Roof Removal & Replacement fixtures Languaged Roof Languaged Roof Removal & Replacement fixtures Languaged Roof Lead Impacted Piping Languaged Roof Languaged Roof Languaged Roof Removal & Replacement of Lead Impacted Piping Languaged Roof Languaged	Г	Replacement Flooring (Stained Concrete)	Second floor corridor and barber shop	289	g by	S 4	S	S	2,748	100%	S	2,748.00
Pemointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Demointon of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demoished of Mold Impacted Thater Area and Offices Replacement of Mold Impacted Ceiling Materials in Offices Replacement of Mold Impacted Thater Area and Offices Replacement of Mold Impacted Ceiling Materials in Theater Area and Offices Replacement of Mold Impacted Thater Area and Offices Replacement of Mold Impacted Thater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Dannaged Windows and Frames Demoition of Dannaged Windows and Frames Demoition of Dannaged Roof Replacement of Dannaged Windows and Frames Demoition of Dannaged Roof Replacement of Dannaged Roof Replacement of Load Impacted Physing Removal & Replacement of Load Impacted Physing Lump sum less cost of replacement fixtures Lump sum less cost of replacement fixtures Lump sum less cost of replacement fixtures Impact Abatement (e.g. sandblasting) of Lead Paint Lump sum less cost of replacement fixtures Removal & Replacement of Load Impacted Physing Lump sum less cost of replacement fixtures Lump sum less cost of replacement of Load Impacted												
Replacement of Ddemolished Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished Mold Impacted HVAC Ductwork Removal of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Woof Replacement of Damaged Roof Replacement of Lead Impacted Phying Removal & Replacement fixtures Repair of damaged roof to prevent water Intrusion Replacement of Lead Impacted Phying Removal & Replacement fixtures Removal & Replacement fixtures Removal & Replacement of Lead Impacted Phying Removal & Replacement fixtures Removal & Removal & Re		Demolition of Mold Impacted Walls/Wall Coverings	Assuming 299 linear feet of 10 foot walls	2,990	sq ft	\$ 2	\$ 5	\$ 000	6,480	100%	S	6,480.00
Replacement of Demolished of Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Demolition of Mold Impacted HVAC Ductwork Replacement of Demolished Mold Impacted Invact Ductwork Replacement of Demolished Mold Impacted Invact Ductwork Removal of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Replacement of Jamaged Roof Replacement for Jamaged Roof Replacement for Jamage		keplacement of Ddemolished Mold Impacted Walls/Wall Coverings (without paint)		2,990	sq ft	9 S	S 5	S 008	18,440	100%	\$ 18	18,440.00
Replacement of Demolished of Mold Impacted Ceiling Materials in Theater/Auditorium Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Mold Impacted HVAC Duetwork Replacement of Mold Impacted Theater Area and Offices Replacement of Mold Impacted Theater Area and Offices Replacement of Mold Impacted Theater Sent Cushions Replacement of Mold Impacted Theater Sent Cushions Replacement of Mold Impacted Theater Sent Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Replacement of Damaged Roof Replacement of Damaged Roof Replacement of Damaged Roof Replacement of Lead Impacted Phing Replacement (e.g. sandblisting) of Lead Paint Donos and door frames Replacement (e.g. sandblisting) of Lead Paint Removal & Replacement fixtures Lump sm less cost of replacement fixtures Lump sm less cost of replacement fixtures Lump sm less cost of replacement fixtures Lump such and the Such Such Such Such Such Such Such Such		Section 1997			- 201 -				The second secon			
Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Demolition of Mold Impacted Ceiling Materials in Offices and Projector Room Replacement of Demolished of Mold Impacted Ceiling Materials in Offices Replacement of Demolished Mold Impacted Ceiling Materials in Offices Replacement of Demolished Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Removal & Replacement of Lead Impacted Paint Removal & Replacement of Icad Impacted Paint Removal (Applement Removal Remova		Demolition of Mold Impacted Ceiling Materials		5,225	sq ft	S 2	S 2	S 005	10,950	100%	S 10	10,950.00
Replacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room Demolition of Mold Impacted HVAC Ductwork Replacement of Demolished Mold Impacted HVAC Ductwork Replacement of Mold Impacted HVAC Ductwork Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frances Replacement of Damaged Windows and Frances Replacement of Damaged Word of Damaged Windows and Frances Replacement of Damaged Roof Replacement of Damaged Roof Replacement of damaged roof to prevent water intrusion Replacement of Damaged Roof Replacement of damaged roof to prevent water intrusion Abatement (e.g. sandblasting) of Lead Paint Removal & Replacement of Lead Impacted Piping Removal (approx. \$13,600)		keplacement of Demolished of Mold Impacted Ceiling Materials in Theater/Auditorium		4,717	sq ft	6 S	s 2	500 S	42,953	20%	\$ 21	21,476.50
Includes 10% addition for ductwork that connects to AC unit (239 If plus 10%) 263 263	П	keplacement of Demolished of Mold Impacted Ceiling Materials in Offices and Projector Room		208	sq ft	S 4	\$ 5	S00 S	2,532	%001	S	2,532.00
Demolition of Mold Impacted HVAC Ductwork Explacement of Demolished Mold Impacted HVAC Ductwork												
Replacement of Demoished Mold Impacted HVAC Ductwork Removal of Mold Impacted Carpet in Theater Area and Offices Removal of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Removal of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Demolition of Damaged Roof Replacement of Lead Impacted Piping Itump sun less cost of replacement fixtures Itump sun less cost of re		Pemolition of Mold Immacted HVAC Dictionsk	Inicudes 10% addition for ductwork that	263	linear feet	5	9	200	1815	100%	6	1 814 50
Removal of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Removal of Damaged Windows and Frames Repaired of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Replacement of Damag	Т	Confacement of Demolished Mold Impacted HVAC Dictwork	compete to the control of the total.	263	linear feet		5	+	6696	100%		00 669 6
Removal of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Carpet in Theater Area and Offices Replacement of Mold Impacted Theater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof		A COMMENT OF THE OFFICE AND ADDRESS OF THE COMMENT OF THE COMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT OF THE COMMENT O										
Replacement of Mold Impacted Theater Seat Cushions Removal of Mold Impacted Theater Seat Cushions Removal of Mold Impacted Theater Seat Cushions Single Removal of Mold Impacted Theater Seat Cushions Single Removal of Mold Impacted Theater Seat Cushions Single Removal of Damaged Windows and Frames Broken windows requiring replacement to prevent water intrusion. Broken windows requiring replacement to Damaged Windows and Frames Broken windows requiring replacement to Damaged Roof Single Sepair of Gamaged Roof Single		emoces of Mold Immeded Carnet in Theater Area and Offices	Disinfection of surfaces required prior to	3.163	th os	,	v	005	6.874	100%	v	6 824 00
Replacement of Mold Impacted Theater Seat Cushions Steplacement of Mold Impacted Theater Seat Cushions	Т	ceplacement of Mold Impacted Carpet in Theater Area and Offices	comprehensive work.	3.162	so ft	3.3	S	-	11.040	100%		11.040.00
Replacement of Mold Impacted Theater Seat Cushions Replacement of Mold Impacted Theater Seat Cushions Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Replacement Replacement Roof Replacement Replacement Roof Replacement Roof Replacement Roof Replacement Roof Replacement Roo												
Removal & Replacement of Mold Impacted Theater Seat Cushions Removal of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Demolition of Damaged Roof Replacement of Lead Paint Abatement (e.g. sandblasting) of Lead Paint Removal & Replacement of Lead Impacted Piping Removal & Replacement of Lead Impacted Piping Removal & Replacement of Lead Impacted Piping Removal & Replacement fixtures Removal & Replacement of Lead Impacted Piping Removal & Replacement fixtures Removal & Replacement of Lead Impacted Piping	Г	kemoval of Mold Impacted Theater Seat Cushions		516	Each	S 10	S	S 008	5,660	100%	S	5,660.00
Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Woof Replacement of Damaged Roof Replacement of Lead Paint Doors and door frames Itump sum less cost of replacement fixtures Removal & Replacement of Lead Impacted Piping Itump sum less cost of replacement fixtures Itump sum less cost of replacement f		Replacement of Mold Impacted Theater Seat Cushions		516	Each	\$ 250	S	S 008	129,500	%05	9 S	64,750.00
Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Windows and Frames Replacement of Damaged Roof Replacement of Lead Paint Replacement of Lead Impacted Piping Removal & Replacement of Tead Impacted Piping Removal & Replacement of Tead Impacted Piping Removal & Replacement fixtures Removal & Replacement of Tead Impacted Piping Removal & Replacement fixtures			The second secon									
Replacement of Damaged Windows and Frames Demolition of Damaged Roof Repair of damaged roof to prevent water intrusion. Repair of damaged roof to prevent water 7,342 intrusion. Replacement of Damaged Roof Repair of damaged roof to prevent water 7,342 intrusion. Abatement (e.g. sandblasting) of Lead Paint Doors and door frames 120 Lump sun less cost of replacement fixtures (approx. \$13,600)		kemoval of Damaged Windows and Frames	Broken windows requiring replacement to prevent water intrusion.	29	Each	\$ 500	S	2,000 \$	16,500	%01	S	1,650.00
Repair of damaged Roof Repair of damaged roof to prevent water 7,342		eplacement of Damaged Windows and Frames	Broken windows requiring replacement to prevent water intrusion.	29	Each	\$ 1.500	S	2,000 \$	45.500	10%	S	4,550.00
Repair of damaged Roof 7,342												
Replacement of Damaged Roof 7,342		Pemolition of Damaged Roof	Repair of damaged roof to prevent water intrusion.	7,342	sq ft	\$ 5	s	5,000 \$	41,710	20%	S	8,342.00
Abatement (e.g. sandblasting) of Lead Paint Doors and door frames 120 Lump sum less cost of replacement fixtures (approx. \$13,600)		keplacement of Damaged Roof	Repair of damaged roof to prevent water intrusion.	7,342	sq ft	\$ 11	S	·	80,762	20%	S 10	16,152.40
Abatement (e.g. sandblasting) of Lead Paint Doors and door frames 120												
Lump sum less cost of replacement fixtures Removal & Replacement of Lead Impacted Piping (approx. \$13,600)	П	Abatement (e.g. sandblasting) of Lead Paint	Doors and door frames	120	sq ft	S 10	\$ 5,0	5,000 \$	6,200	%001	S	6,200.00
		kemoval & Replacement of Lead Impacted Piping	Lump sum less cost of replacement fixtures approx. \$13,600)	1	lump sum	>	30,000	s 000	16,400	%001	S Ic	16,400.00
							Subtotal	tal S	456,012.50		\$ 210	216,008.40
							Grant Management	ent S	45,601.25		\$ 2	21,600.84
						Œ	Engineering Oversight	ght S	45,601.25		\$ 2	21,600.84
								S	547,215.00		\$ 259	259,210.08