Technology Serving People, Inc. • Environmental Health & Engineering Services

Limited Asbestos and Lead Survey
Main Lift Station Redundant Outdoor
Electrical Switchgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

Outline Agreement No. 4600008770
Project WBS No. R-000509-0015-3
Contract WBS No. R-000019-0047-4 & S-000019-0047-4
Task No. 12-17

Prepared for:

The City of Houston Public Works
and Engineering Department
611 Walker, 14th Floor
Houston, Texas 77251-1562

Inspected:

December 6, 2012

Prepared By:

Technology Serving People, Inc.
2511 Willowick, Suite 229
Houston, Texas 77027

Submitted By:

Eric F. LeBrocq, Jr.
Asbestos Consultant TDSHS No. 10-5375

Michael E. Solomon
Lead Inspector TDSHS No. 2060695

December 27, 2012

2511 Willowick, Suite 229 • Houston, Texas 77027 • (713) 781-9067 • FAX (713) 781-9094
E-mail: ericlebrocq@earthlink.net

TABLE OF CONTENTS

EXECUTIVE SUMMARY

Technology Serving People, Inc. (TSP) conducted a limited asbestos and lead survey on December 6, 2012 of the Main Lift Station Redundant Outdoor Electrical Switchgears Replacement Project at 69th Street Waste Water Treatment Plant, 2535 S/Sgt. Macario Garcia, Houston, Texas. The survey was conducted in relationship to a planned improvement project (#R-000509-0015-3). The survey was performed in accordance with State of Texas House Bill Number 509. The City of Houston provided a set of plans of the future equipment demolition and description of work for improvements (See attached COH supplied plans). The facility is a waste water treatment plant. The improvements include the demolition and replacement of various types of electrical gear located in the Main Lift Station Switchyard. The switchyard is fenced and is secured by locked entry gate. City of Houston supervision is required for entry into the switchyard. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA), Texas Environmental Lead Reduction Rules (TELRR), and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the planned improvement areas were inspected.

A & B Environmental Services, Inc. of Houston, Texas, a State of Texas Licensed Asbestos Laboratory NLLAP Lead Laboratory, performed all lead analyses.

ASBESTOS SUMMARY

Findings:

No suspect asbestos containing materials were observed within the switchyard. No bulk material samples were collected.

Recommendations:

No asbestos abatement required. The general contractor can proceed with improvements.

Cost:

No asbestos abatement cost associated with this project.

LEAD SUMMARY

Findings:

Twelve (12) paint chip samples were taken of painted materials associated with planned improvements. Eight (8) of the painted materials was determined to have detectable lead levels. The other samples were reported as Below Reportable Limit (BRL).

Recommendations:

The electrical equipment and support steel framing is scheduled for renovation or demolition activities. Recycle all metal components including those with lead containing paint. No lead abatement required.

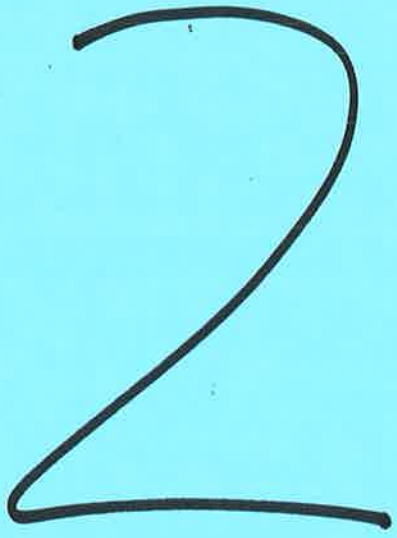
OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) does not specify a minimum lead concentration in its lead standard. Rather, it requires all employers to determine an exposure level and provide prescribed training, personal protective equipment, medical surveillance, and record keeping.

All paint which has a detectable level of lead is considered a lead-containing paint by OSHA and should be handled in the following ways:

1. Notify any contractor cutting, abrading or disturbing lead containing paint that the paint contains the listed concentrations of lead.
2. Metal components should be dismantled by unfastening bolts where possible. Cutting, abrading or welding on painted metal components should be discouraged.
3. Disposal of painted metal components should be through a metal recycling company that accepts metal with lead paint.
4. Demolished concrete structures with lead-containing paint should be tested by the TCLP method, as required by the U.S. Environmental Protection Agency (EPA), to characterize the waste for disposal.

Cost:

No lead abatement costs associated with this project.



Limited Asbestos Survey

Main Lift Station Redundant Outdoor Electrical Swithgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

Technology Serving People, Inc. (TSP) conducted a limited asbestos and lead survey on December 6, 2012 of the Main Lift Station Redundant Outdoor Electrical Switchgears Replacement Project at 69th Street Waste Water Treatment Plant, 2535 S/Sgt. Macario Garcia, Houston, Texas. The survey was conducted in relationship to a planned improvement project (#R-000509-0015-3). The survey was performed in accordance with State of Texas House Bill Number 509. The City of Houston provided a set of plans of the future equipment demolition and description of work for improvements (See attached COH supplied plans). The facility is a waste water treatment plant. The improvements include the demolition and replacement of various types of electrical gear located in the Main Lift Station Switchyard. The switchyard is fenced and is secured by locked entry gate. City of Houston supervision is required for entry into the switchyard. Site inspection and bulk material sample collections were conducted using standard protocols specified by the Texas Asbestos Protection Act (TAHPA) and National Emissions Standards for Hazardous Air Pollutants (NESHAP). All accessible areas of the planned improvement areas were inspected.

ASBESTOS SUMMARY

Findings:

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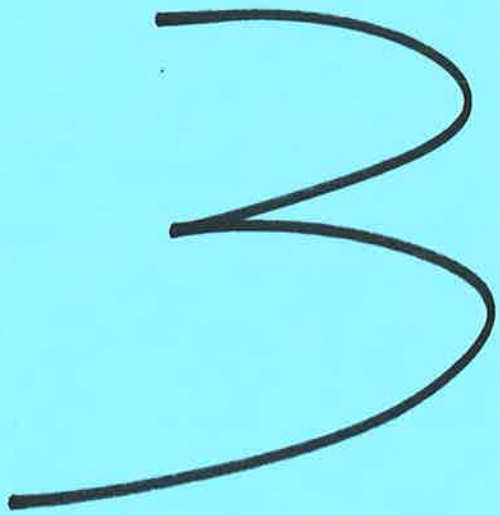
Recommendations:

No asbestos abatement required. The general contractor can proceed with improvements.

Cost:

No asbestos abatement cost associated with this project.



Limited Lead Survey

Main Lift Station Redundant Outdoor Electrical Swithgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

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Cost:

No lead abatement costs associated with this project.

4

Laboratory Analysis Report

Total Number of Pages: 19

Job ID : 12120224

10100 East Freeway, Suite 100, Houston, TX 77029 tel: 713-453-6060, fax: 713-453-6091, http://www.ablabs.com

Client Project Name :
69th Street WWTP,Switchgears Replacement

Report To : Client Name: TSP Inc.
Attn: Bruce Peters
Client Address: 2511 Willowick #229
City, State, Zip: Houston, Texas,

P.O.#.:
Sample Collected By: Michael Solomon
Date Collected:

A&B Labs has analyzed the following samples...

Client Sample ID	Matrix	A&B Sample ID
691206-Pb-01	Paint Chips	12120224.01
691206-Pb-02	Paint Chips	12120224.02
691206-Pb-03	Paint Chips	12120224.03
691206-Pb-04	Paint Chips	12120224.04
691206-Pb-05	Paint Chips	12120224.05
691206-Pb-06	Paint Chips	12120224.06
691206-Pb-07	Paint Chips	12120224.07
691206-Pb-08	Paint Chips	12120224.08
691206-Pb-09	Paint Chips	12120224.09
691206-Pb-10	Paint Chips	12120224.10
691206-Pb-11	Paint Chips	12120224.11
691206-Pb-12	Paint Chips	12120224.12

Released By: Alisha Rodriguez
Title: Project Manager
Date: 12/11/2012

This Laboratory is NELAP (T104704213-12-7) accredited. Effective: 07/01/2012; Expires: 03/31/2013
Scope: Non-Potable Water, Drinking Water, Air, Solid, Hazardous Waste

I am the laboratory manager, or his/her designee, and I am responsible for the release of this data package. This laboratory data package has been reviewed and is complete and technically compliant with the requirements of the methods used, except where noted in the attached exception reports. I affirm, to the best of my knowledge that all problems/anomalies observed by this laboratory (and if applicable, any and all laboratories subcontracted through this laboratory) that might affect the quality of the data, have been identified in the Laboratory Review Checklist, and that no information or data have been knowingly withheld that would affect the quality of the data.

Date Received : 12/06/2012 11:20

LABORATORY TERM AND QUALIFIER DEFINITION REPORT

Job ID : 12120224

Date: 12/11/2012

General Term Definition

Back-Wt	Back Weight	Post-Wt	Post Weight
BRL	Below Reporting Limit	ppm	parts per million
cfu	colony-forming units	Pre-Wt	Previous Weight
Conc.	Concentration	Q	Qualifier
D.F.	Dilution Factor	RegLimit	Regulatory Limit
Front-Wt	Front Weight	RPD	Relative Percent Difference
LCS	Laboratory Check Standard	RptLimit	Reporting Limit
LCSD	Laboratory Check Standard Duplicate	SDL	Sample Detection Limit
MS	Matrix Spike	surr	Surrogate
MSD	Matrix Spike Duplicate	T	Time
MW	Molecular Weight	TNTC	Too numerous to count

Qualifier Definition

D1	Sample required dilution due to matrix effects.
R1	RPD exceeds control limits.
R4	LCS/LCSD RPD exceeds control limit. Recovery meets acceptance criteria.

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc. Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-01
Date Collected:
Time Collected:
Other Information:

Job Sample ID: 12120224.01
Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	BRL	mg/Kg	10	100		D1	12/08/12 12:03	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc. Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-02
Date Collected:
Time Collected:
Other Information:

Job Sample ID: 12120224.02
Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	6766	mg/Kg	10	100			12/08/12 12:07	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-03

Date Collected:

Time Collected:

Other Information:

Job Sample ID: 12120224.03

Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	25381	mg/Kg	100	1000			12/08/12 12:11	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-04

Job Sample ID: 12120224.04

Date Collected:

Sample Matrix Paint Chips

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	BRL	mg/Kg	10	100		D1	12/08/12 12:28	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-05

Job Sample ID: 12120224.05

Date Collected:

Sample Matrix Paint Chips

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	6136	mg/Kg	10	100			12/08/12 12:32	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-06

Job Sample ID: 12120224.06

Date Collected:

Sample Matrix Paint Chips

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	11516	mg/Kg	100	1000			12/08/12 12:36	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-07

Date Collected:

Time Collected:

Other Information:

Job Sample ID: 12120224.07

Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	BRL	mg/Kg	10	100		D1	12/08/12 12:40	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc. Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-08
Date Collected:
Time Collected:
Other Information:

Job Sample ID: 12120224.08
Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	1743	mg/Kg	10	100			12/08/12 12:44	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-09

Job Sample ID: 12120224.09

Date Collected:

Sample Matrix Paint Chips

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	BRL	mg/Kg	10	100		D1	12/08/12 12:49	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-10

Date Collected:

Time Collected:

Other Information:

Job Sample ID: 12120224.10

Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	143	mg/Kg	10	100			12/08/12 11:35	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-11

Job Sample ID: 12120224.11

Date Collected:

Sample Matrix Paint Chips

Time Collected:

Other Information:

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	10146	mg/Kg	10	100			12/08/12 11:44	SS

LABORATORY TEST RESULTS

Job ID : 12120224

Date 12/11/2012

Client Name: TSP Inc.

Attn: Bruce Peters

Project Name: 69th Street WWTP,Switchgears Replacement

Client Sample ID: 691206-Pb-12

Date Collected:

Time Collected:

Other Information:

Job Sample ID: 12120224.12

Sample Matrix Paint Chips

Test Method	Parameter/Test Description	Result	Units	DF	Rpt Limit	Reg Limit	Q	Date Time	Analyst
SW-846 6010C	Total Metals								
	Lead	1148	mg/Kg	10	100			12/08/12 11:47	SS

QUALITY CONTROL CERTIFICATE

Job ID : 12120224 **Date :** 12/11/2012

Analysis : Total Metals **Method :** SW-846 6010C **Reporting Units :** mg/Kg

QC Batch ID : Qb12120808 **Created Date :** 12/07/12 **Created By :** Ssrinivasan

Samples in This QC Batch : 12120224.10,11,12

Digestion : PB12120764 **Prep Method :** SW-846 6010C **Prep Date :** 12/07/12 14:30 **Prep By :** PRKasar

QC Type: Method Blank

Parameter	CAS #	Result	Units	D.F.	RptLimit		Qual
Lead	7439-92-1	BRL	mg/Kg	1	10		

QC Type: Duplicate

QC Sample ID: 12120224.10

Parameter	QCSample Result	Sample Result	Units	RPD	RPD CtrlLimit		Qual
Lead	100	143		35.4	20		R1

QC Type: LCS and LCSD

Parameter	LCS Spk Added	LCS Result	LCS % Rec	LCSD Spk Added	LCSD Result	LCSD % Rec	RPD	RPD CtrlLimit	%Recovery CtrlLimit	Qual
Lead	7418	8997	121	7418	6151	82.9	37.6	20	70-130	R4

Refer to the Definition page for terms.

A & B Environmental Services, Inc.
10100 East Freeway, Suite 100
Houston, TX 77029
713-453-6060 Fax 713-453-6091

Paint Chips

~~Asbestos Bulk~~ Sample Chain-of-Custody

A&B Job ID: 12120224 Lead

TAT (Check one): Immediate (2-4 hour) ____ Rush (24 hour) ____ Regular (3-5 working days) ✓

Report to:
Company: Technology Serving People, Inc.
Address: 2511 Willowick #224
Houston, Texas 77027
Contact: Bruce Peters
Phone: 713-398-8400
Fax:
Email: ericdeboccq@earthlink.net

Invoice to:
Company: Same
Address:
Contact:
Phone:
Fax:
Email:
PO#:

Project Name/#: 69th Street WWTP, Switchgears Replacement
Sampler's Name & Company: Michael Solomon (TSP)
Method of Shipment:

	Client Sample #	A&B Sx ID	Type	Location
1	691206-Pb-01	01A	Gray Paint	Outdoor Switch CKT-1J
2	691206-Pb-02	02A	Gray Paint	Structural Steel @ XFMR
3	691206-Pb-03	03A	Gray Paint	XFMR TX-1J
4	691206-Pb-04	04A	Gray Paint	Outdoor Switch CKT-3J
5	691206-Pb-05	05A	Gray Paint	XFMR
6	691206-Pb-06	06A	Gray Paint	Switch CKT-2J
7	691206-Pb-07	07A	Gray Paint	Outdoor Switch CKT-1J
8	691206-Pb-08	08A	Gray Paint	XFMR
9	691206-Pb-09	09A	Gray Paint	Substation
10	691206-Pb-10	10A	Gray Paint	Outdoor Switch CKT-2J

Client Sample# is required. A&B Sx ID is assigned by the lab. Type and location are optional.

21.5°C

Relinquished by:	Date	Time	Received by:	Date:	Time
	12/6/12	1120		12-6-12	11:20 AM

ab-s003-0804

121202224 Paint Chips - Lead

Project Name/Number: 69th Street WWTP, Switchgears Replacement

	Sample #	Lab ID #	Type	Location
13	891206-Pb-11	11A	Gray Paint	XFMR
14	891206-Pb-12	12A	Gray Paint	Structural Steel @ XFMR
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				
27				
28				
29				
30				
31				
32				
33				
34				
35				

Sample Condition Checklist

A&B JobID : **12120224**	Date Received : **12/06/2012**	Time Received : **11:20AM**
Client Name : **TSP Inc.**		
Temperature : **21.5°C**	Sample pH : **N/A**	
Thermometer ID : **111601055**	pH Paper ID : **N/A**	

	Check Points	Yes	No	N/A
1.	**Cooler seal present and signed.**		X	
2.	**Sample(s) in a cooler.**		X	
3.	**If yes, ice in cooler.**		X	
4.	**Sample(s) received with chain-of-custody.**	X		
5.	**C-O-C signed and dated.**	X		
6.	**Sample(s) received with signed sample custody seal.**		X	
7.	**Sample containers arrived intact. (If no comment).**	X		
8.	**Matrix :** **Water** ☐ **Soil** ☐ **Liquid** ☐ **Sludge** ☐ **Solid** ☐ **Cassette** ☐ **Tube** ☐ **Bulk** ☐ **Badge** ☐ **Food** ☐ **Other** ☑			
9.	**Sample(s) were received in appropriate container(s).**	X		
10.	**Sample(s) were received with proper preservative**	X		
11.	**All samples were logged or labeled.**	X		
12.	**Sample ID labels match C-O-C ID's**	X		
13.	**Bottle count on C-O-C matches bottles found.**	X		
14.	**Sample volume is sufficient for analyses requested.**	X		
15.	**Samples were received within the hold time.**	X		
16.	**VOA vials completely filled.**			X
17.	**Sample accepted.**	X		

Comments : Include actions taken to resolve discrepancies/problem:

Other = Paint chips

Received by : Dlopez

Check in by/date : CCripe / 12/06/2012

69th Street Waste Water Treatment Plant, 2535 S/Sgt. Macario Garcia, Houston, Texas

Main Lift Station Electrical Switchyard

691206-Pb-01, Gray Paint on Outdoor Switch CKT-1J (BRL <100mg/Kg)

691206-Pb-02, Gray Paint on Structural Steel at XFMR (6,766 mg/Kg)

691206-Pb-03, Gray Paint on XFMR TX-1J (25,381 mg/Kg)

691206-Pb-04, Gray Paint on Outdoor Switch CKJ-3J (BRL <100 mg/Kg)

691206-Pb-05, Gray Paint on XFMR (6,136 mg/Kg)

691206-Pb-06, Gray Paint on Outdoor Switch CKT-2J (11,516 mg/Kg)

681206-Pb-07, Gray Paint on Outdoor Switch CKT-1J (BRL <100 mg/Kg)

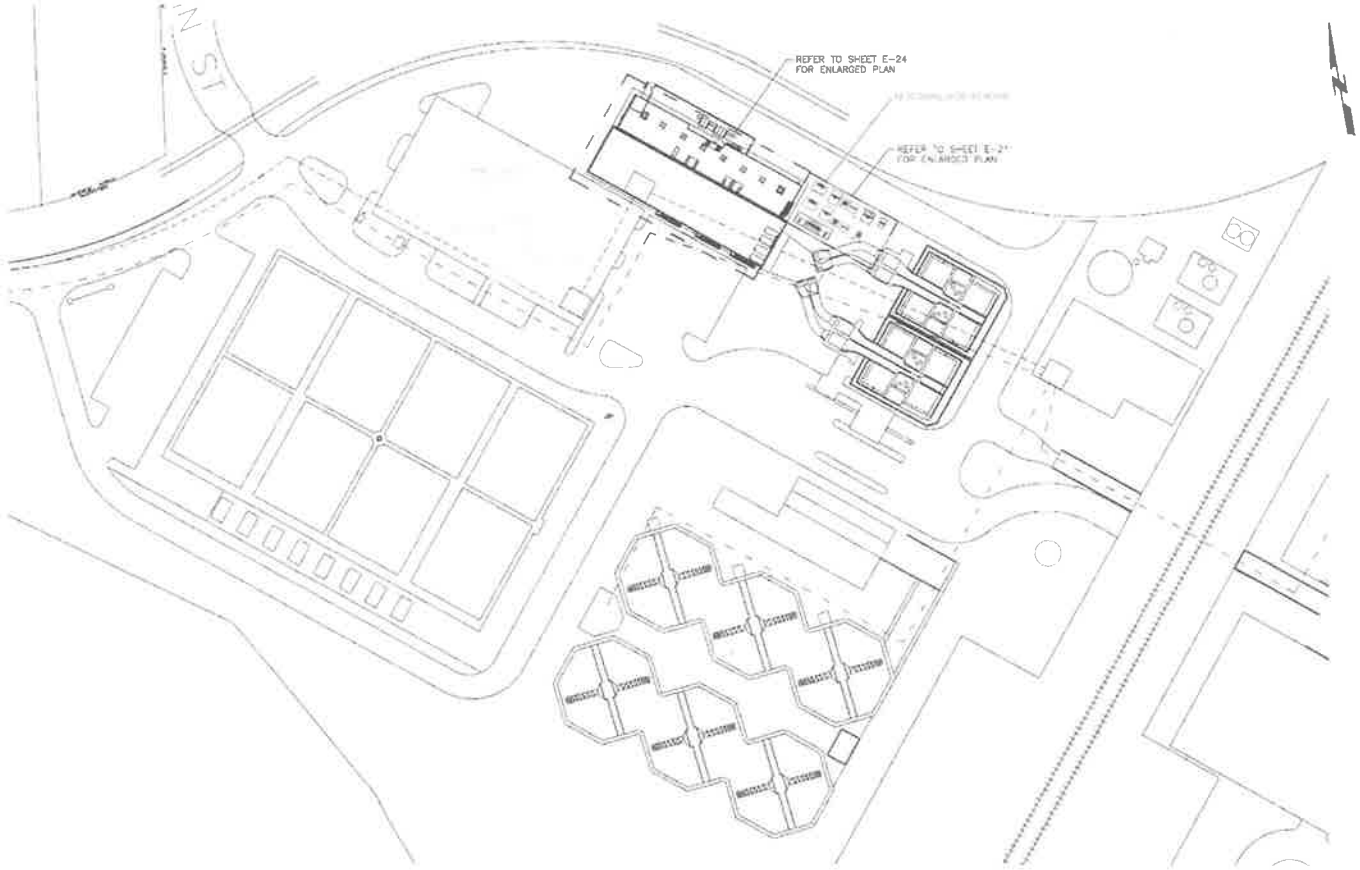
691206-Pb-08, Gray Paint on XFMR (1,743 mg/Kg)

691206-Pb-09, Gray Paint on Substation (BRL <100 mg/Kg)

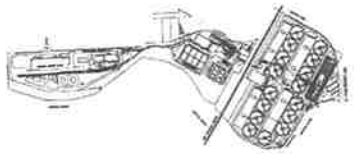
691206-Pb-10, Gray Paint on Outdoor Switch CKT-2J (143 mg/Kg)

691206-Pb-11, Gray Paint on XFMR (10,146 mg/Kg)

691206-Pb-12, Gray Paint on Structural Steel at XFMR (1,148 mg/Kg)



OVERALL SITE
PLAN
1" = 150'



KEY PLAN

CPU 2929 Brannan Suite 950 Houston, TX. 77042
(713)532-1700 Fax (713)532-1934

GAI

DESIGNED BY: EC
DESIGN CHECK BY: VKG
DRAWN BY: ER
DRAWING CHECK BY: EC

THIS DOCUMENT IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES.
V.K. GUPTA, P.E.
NO. 53997 ON
OCTOBER, 2012

SURVEYED BY ####### ENGINEERING
FB NO.

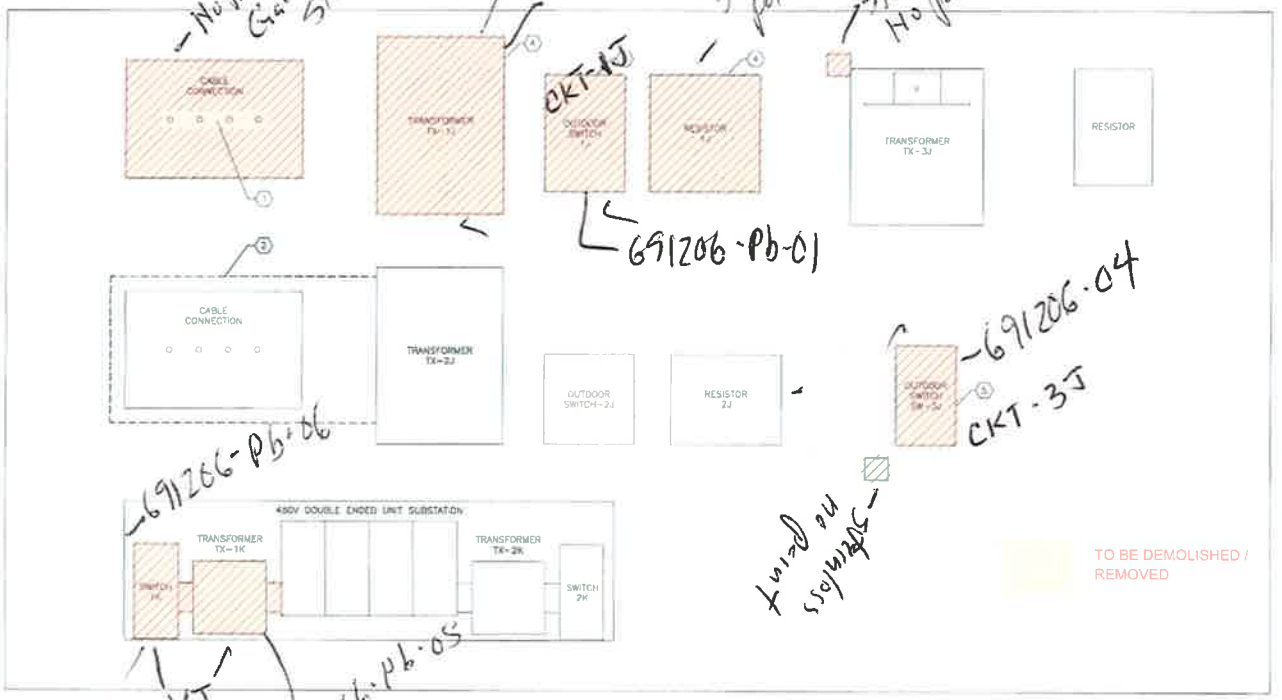
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

69TH STREET WWTP
MAIN LS REDUNDANT OUTDOOR
ELECTRICAL SWITCHGEARS REPLACEMENT
OVERALL SITE PLAN

CITY OF HOUSTON PM
RAJ RANJBAR, P.E.

E-5

Z:\1816_Houston - 69th Street WWTP Work Order\Drawings\Electrical\Working\ Project No.: CH007027 Dwg Name: 1816_E-05.dwg



ELECTRICAL YARD
PLAN
1/4" = 1'-0" (3)

NOTES

1. PROTECT EXISTING CONDUITS DO NOT DAMAGE DURING DEMOLITION
2. CONSTRUCT SAFETY BARRIER AROUND EXPOSED MEDIUM VOLTAGE BUS AND CABLE TO AVOID ACCIDENTAL CONTACT WITH ENERGIZED PARTS
3. DISCONNECT AND REMOVE ALL INTERCONNECTING WIRES AND EXPOSED CONDUITS
4. DEMOLISH THE EXISTING OUTDOOR SWITCH 1J, RESISTOR 1J, TRANSFORMER 1J, AND ALL ASSOCIATED WIRE AND CONDUITS
5. DEMOLISH THE EXISTING OUTDOOR SWITCH 3J AND ALL ASSOCIATED WIRE AND CONDUITS
6. DEMOLISH THE EXISTING TRANSFORMER 1K AND PRIMARY SWITCH 1K
7. REFER TO RESPECTIVE ONE-LINE DIAGRAM ON SHEETS E-16 THRU E-19

CPY & GAI Consultants, Inc.

CPeT JOB NO. CH007072-11
DESIGNED BY: EC — DRAWN BY: ER
DESIGN CHECK BY: VKG — DRAWING CHECK BY: EC

THIS DOCUMENT IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES
V.K. GUPTA, P.E.
NO. 130331 ON
OCTOBER, 2022

SURVEYED BY AMA ENGINEERING
FB NO.:

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

69TH STREET WWTP
MAIN LS REDUNDANT OUTDOOR
ELECTRICAL SWITCHGEARS REPLACEMENT
DEMOLITION PLAN – STEP–1

CITY OF HOUSTON PW

DATE: OCT 2022 — SHEET NO: 22 OF 34

E-20

ELECTRICAL YARD
PLAN (2)
1/4" = 1'-0"

NOTES

1. PROTECT EXISTING CONDUITS. DO NOT DAMAGE DURING DEMOLITION.
2. DISCONNECT AND REMOVE ALL INTERCONNECTING WIRES AND EXPOSED CONDUITS.
3. DEMOLISH THE EXISTING OUTDOOR SWITCH 2J, RESISTOR 2J, TRANSFORMER 2J, AND ALL ASSOCIATED WIRE AND CONDUITS.
4. DEMOLISH THE EXISTING TRANSFORMER 2K, PRIMARY SWITCH 2K, AND 480V DOUBLE ENDED UNIT SUBSTATION.
5. REFER TO RESPECTIVE AND ONE-LINE DIAGRAMS ON SHEET E-17 & E-18.

CP&Y

GAI

CP&Y JOB NO. CHO07072-11
DESIGNED BY: EC
DESIGN CHECK BY: VAG
DRAWN BY: EK
DRAWING CHECK BY: EC

THIS DOCUMENT IS FOR REVIEW PURPOSES ONLY AND IS NOT INTENDED FOR BIDDING OR CONSTRUCTION PURPOSES. V.K. GUPTA, P.E. NO. 53097 ON OCTOBER, 2013

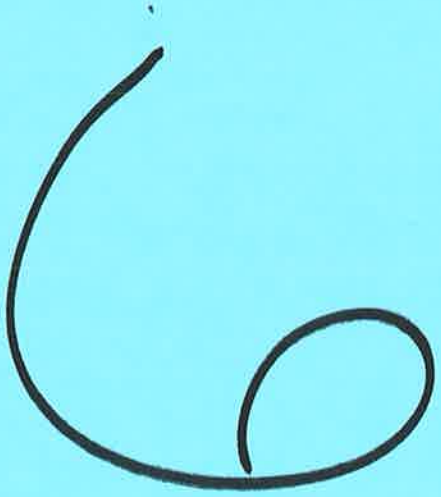
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

69TH STREET WWTP
MAIN LS REDUNDANT OUTDOOR ELECTRICAL SWITCHGEARS REPLACEMENT
DEMOLITION PLAN – STEP-3

DRAWING SCALE
CITY OF HOUSTON PM
RAJ RANJHAN P.E.

E-22

Z:\H819_Houston - 69th Street WWTP Work Order\Drawings\Electrical\Working\ Project No.: CHO07027 Dwg Name: ...8'9_E-22.dwg



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

TECHNOLOGY SERVING PEOPLE INC

is certified to perform as a

Asbestos Consultant Agency

in the State of Texas within the purview of Texas Occupations Code, chapter 1954, so long as this license is not suspended or revoked and is renewed according to the rules adopted by the Texas Board of Health.

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100035

Control Number: 96386

Expiration Date: 2/3/2013

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

TECHNOLOGY SERVING PEOPLE INC

is certified to perform as a

Lead Firm

in the State of Texas and is hereby governed by the rights, privileges and responsibilities set forth in Texas Occupations Code, Chapter 1955 and Title 25, Texas Administrative Code, Chapter 295 relating to Texas Environmental Lead Reduction, as long as this license is not suspended or revoked.

David L. Lakey, M.D.
Commissioner of Health

License Number: 2110316

Control Number 6433

Expiration Date: 3/30/2014

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE

Texas Department of
State Health Services

Asbestos Individual Consultant

ERIC F LEBROCQ JR

License No. 105375

Control No. 96327

Expiration Date: 4/3/2014

Department of State Health Services certifies that

MICHAEL E SOLOMON

is certified as a

Lead Inspector

Certification No: 2060695

Control No: 6175

Expires: 10/18/2013

David L. Lakey, M.D.
Commissioner of Health

Texas Department of
State Health Services

Asbestos Individual Consultant

BRUCE D PETERS

License No. 105336

Control No. 96363

Expiration Date: 7/31/2014

7

Asbestos Hazards Characterization (AHC) List

Main Lift Station Redundant Outdoor Electrical Swithgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

Material	Asbestos Content	AHC

No Suspect Asbestos Materials Observed
No Bulk Material Sample Taken

Lead Hazards Characterization (LHC) List

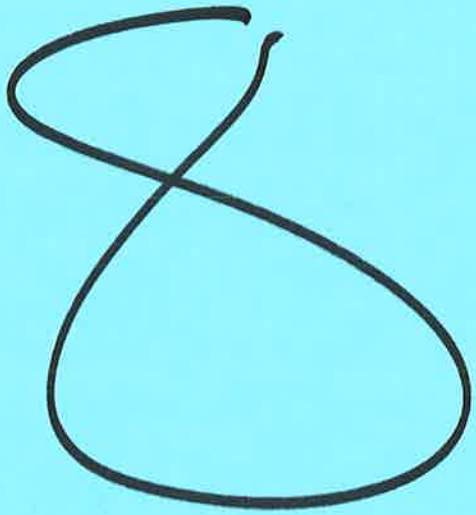
Main Lift Station Redundant Outdoor Electrical Swithgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

Material	Lead Content	LHC
691206-Pb-01 Gray Paint on Outdoor Switch CKT-1J	BRL Below Recordable Level	A- Allowable Lead Level
691206-Pb-02 Gray Paint on Structural Steel at XFMR	6766 mg/Kg	C1-Lead Present
691206-Pb-03 Gray Paint on XFMR TX-1J	25381 mg/Kg	C1-Lead Present
691206-Pb-04 Gray Paint on Outdoor Switch CKJ-3J	BRL Below Recordable Level	A-Allowable Lead Level
691206-Pb-05 Gray Paint on XFMR	6136 mg/Kg	C1-Lead Present
691206-Pb-06 Gray Paint on Outdoor Switch CKT-2J	11516 mg/Kg	C1-Lead Present
691206-Pb-07 Gray Paint on Outdoor Switch CKT-1J	BRL Below Recordable Level	A-Allowable Lead Level
691206-Pb-08 Gray Paint on XFMR	1743 mg/Kg	C2-Lead Present
691206-Pb-09 Gray Paint on Substation	BRL Below Recordable Level	A-Allowable Lead Level
691206-Pb-10 Gray Paint on Outdoor Switch CKT-2J	143 mg/Kg	A-Allowable Lead Level

Lead Hazards Characterization (LHC) List

Main Lift Station Redundant Outdoor Electrical Swithgears Replacement
69th Street Waste Water Treatment Plant
2535 S/Sgt. Macario Garcia
Houston, Texas

Material	Lead Content	LHC
691206-Pb-11 Gray Paint on XFMR	10146 mg/Kg	C1-Lead Present
691206-Pb-12 Gray Paint on Structural Steel At XFMR	1148 mg/Kg	C2-Lead Present



CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: 69th Steeet Waste, Water Treatment Plant-Main Lift Station

FACILITY ADDRESS: 2535 S/Sgt. Macario Garcia, Houston, Texas

DATE OF SURVEY: 12/6/12 CONSULTANT: Technology Serving People, Inc.

INSPECTOR(S) NAME: Eric. F. LeBeocq JR.

Note: Items/information listed below must be included in the report. Use this check list to ensure completeness of your report. Mark "X" or "check" in front of the information included in the report. Submit completed check list with the report. If a facility is surveyed for asbestos and lead, the surveys shall be segregated in one binder or preferably two separate reports.

1. ✓ Date and Contract number of the survey.
2. ✓ Scope of work.
3. ✓ Copy of the Inspector(s) TDH License.
4. ✓ Name and Address of the building.
5. ✓ Statement...if building records were used in the inspection and if not, Why?
6. ✓ Date of construction and last renovation (if any) of the building.
7. ✓ Cover letter (in report) contain executive summary or executive summary begin the report format.
8. N/A List of areas that were not inspected. Explain.
9. N/A Procedures and protocols used to collect bulk samples.
10. N/A List of measures taken to prevent potential fiber release from locations where samples were extracted.
11. N/A Drawings and photographs with sample locations marked to facilitate future location of materials sampled.
12. N/A Statement...if an accredited (NVLAP) laboratory was used for Sample Analysis.
13. N/A Copy of the Laboratory accreditation certificate.
14. N/A Copy of the laboratory analysis results of the bulk samples.
15. N/A Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
16. N/A Copy of the chain of custody form for the bulk samples.
17. N/A List of materials assumed to be containing asbestos.
18. ✓ City of Houston Asbestos Hazard Categorization (AHC) list and categorization of all the samples according to the AHC list included in the report.
19. ✓ Condition of the building structure such as deterioration, structural problems, or other damages.

If Asbestos Present:

20. N/A Statement...if repeat analysis using point counting with PLM was done as required by the city for

21. N/A Photographs of all Materials proven to be ACM are included.

23. N/A All asbestos containing materials are classified as Friable or Non-Friable.

24. N/A Recommendations are made for all Asbestos Containing Materials.

25. N/A Reasonably accurate quantities of ACM's are estimated and given in the report.

26. N/A Cost estimations are given for abatement.

27. N/A Operation and Maintenance Plans are recommended.

Signed: [signature]

Name: Eric F. LeBrocq JR.

Title: Asbestos Consultant

CHECK LIST FOR LEAD SURVEYS

NAME OF THE FACILITY: 69th Street Waste Water Treatment Plant- Main Lift Station

FACILITY ADDRESS: 2535 S/Sgt. Macario, Houston, Texas

.TE OF THE SURVEY: 12/6/12 CONSULTANT: Technology Serving People, Inc.

INSPECTOR(S) NAME: Michael Solomon

Note: Items/information listed below must be included in the report. Use this check list to ensure completeness of your report. Mark "X" or "check" in front of the information included in the report. Submit completed check list with the report. If a facility is surveyed for lead and asbestos, the survey reports shall be segregated in one binder or preferably two separate reports.

1. ✓ Statement... if "HUD Guidelines for Evaluation and Control of Lead Based Paint in Housing" or any other criteria was followed for the survey.
2. ✓ Date and Contract number of the survey.
3. ✓ Scope of the work.
4. ✓ Copy of the Inspector (s) TDH Certificate.
5. ✓ Name and Address of the building.
6. ✓ Statement... if building records were used in the inspection, and if not, Why?
7. ✓ Cover letter (in report) containing executive summary or executive summary at the beginning of the report format.
8. ✓ Date of construction and last renovation (if any) of the building.
9. ✓ List of areas that were not inspected. Explain.
10. ✓ Condition of the building structure such as deterioration, structural problems or other damages.
11. ✓ List of components assumed to have lead based paint or coating, if any.
12. ✓ City of Houston Lead Hazard Categorization (LHC) list and categorization of all the samples according to the LHC list included in the report.

If XRF Analyzer Used:

13. N/A Performance Characteristics Sheet (PCS) for the XRF equipment/s used.
14. N/A Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).
15. N/A Statement...if HUD Guidelines were followed for Calibration Check Test of the XRF equipment and replacement XRF equipment, if used.
16. N/A Installation date and type of source for XRF equipment and replacement equipment, if used.
17. N/A Drawings and photographs with XRF reading locations marked to facilitate future location of XRF readings.

If Samples Taken For Laboratory Analysis:

18. ✓ Procedures and protocols used to collect paint chip samples.

19. ✓ Copy of the chain of custody form for samples.

20. ✓ Statement ...if an accredited (NLLAP/ELLAP) laboratory was used for Sample Analysis.

21. ✓ Copy of the Laboratory accreditation certificate.

22. ✓ Copy of the laboratory analysis results of the paint chip samples and other PbCMs .

23. ✓ Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.

24. ✓ Drawings and photographs with sample locations marked to facilitate future location of coating materials sampled.

If Lead Found:

25. ✓ Photographs of all component areas proven to have lead.

26. ✓ Recommendations for all components proven to have lead based paint or coatings.

27. ✓ Recommendations for Operation and Maintenance Plans.

28. ✓ Estimated quantities of Lead Containing Materials.

29. ✓ Cost estimations for abatement.

Signed: _____

Name: Michael Solomon

Title: Lead Inspector