



CITY OF HOUSTON

Public Works and Engineering
Department

Interoffice

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To: Bill Zod, P.E.
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Engineering Branch
Engineering and Construction
Division

From: Supervising Engineer
Geo-Environmental Services Branch
Engineering and Construction Division

Date: September 15, 2014

Attn: Tanu Hiremath, P.E.

Subject: **WILLOWBROOK WASTEWATER
TREATMENT PLANT IMPROVEMENTS
7101 W. Greens Road
WBS NO. R-000265-0104-3**

Attached are two copies of the asbestos and lead survey reports for the subject property, prepared by Environmental Consultants & Management Services, Inc. (ECMS), the City's consultant for the subject project. The consultant's findings and recommendations are summarized below:

ASBESTOS

Findings:

A total of eighteen (18) bulk material samples (**gaskets**) were taken with suspect Asbestos Containing Materials (ACM). The samples were collected from area within the subject property and analyzed for asbestos content by using Polarized Light Microscopy Method (PLM).

- Analytical results indicated that **no asbestos** content was detected above the regulatory level of one percent (>1%) from the valve gasket. (See Asbestos Survey Section Report).

Recommendations:

- During the renovation/demolition activities, if gasket materials are discovered and they are not rubber gasket materials, they shall be sampled or assumed to be asbestos materials.
- If the materials are assumed to be asbestos materials, the general contractor should coordinate with an abatement contractor to schedule abatement activities. (See Asbestos Survey Section Report).

LEAD

Findings:

A total of twenty (20) paint chip samples were collected and analyzed for lead content by using Flame AA Method. (See Lead Survey Section Report).

- Three (3) samples had lead contents less than **0.06% by weight**; and
- Seventeen (17) samples had **no lead detected**.

Recommendations:

- Recycle all metal components including those with lead containing paint. No abatement is required.

OSHA regulations apply to workers during demolition and/or renovation. For further details, refer to the lead survey report for detailed findings and recommendations (See Lead Survey Section Report).

If you have any questions, please call me at 832-395-2260 or T.C. Nguyen at 832-395-2258.



Maher Tanbouz, P.E.

TCN
MT:TCN:jc

H:\constr\A-ENV-SB\Environmental\Asbestos_&_Lead\A&L Assessments\2014\14-000265-0104-3_(Willowbrook_WWTP_Improv_at_7101_W_Greens_Rd).doc

Attachment: Two (2) Asbestos/Lead Survey Reports

ec: Daniel R. Menendez, P.E.
Ravi Kaleyatodi, P.E., CPM
Ebi Nassiri, P.E.
MP Mike Pezeshki, P.E.

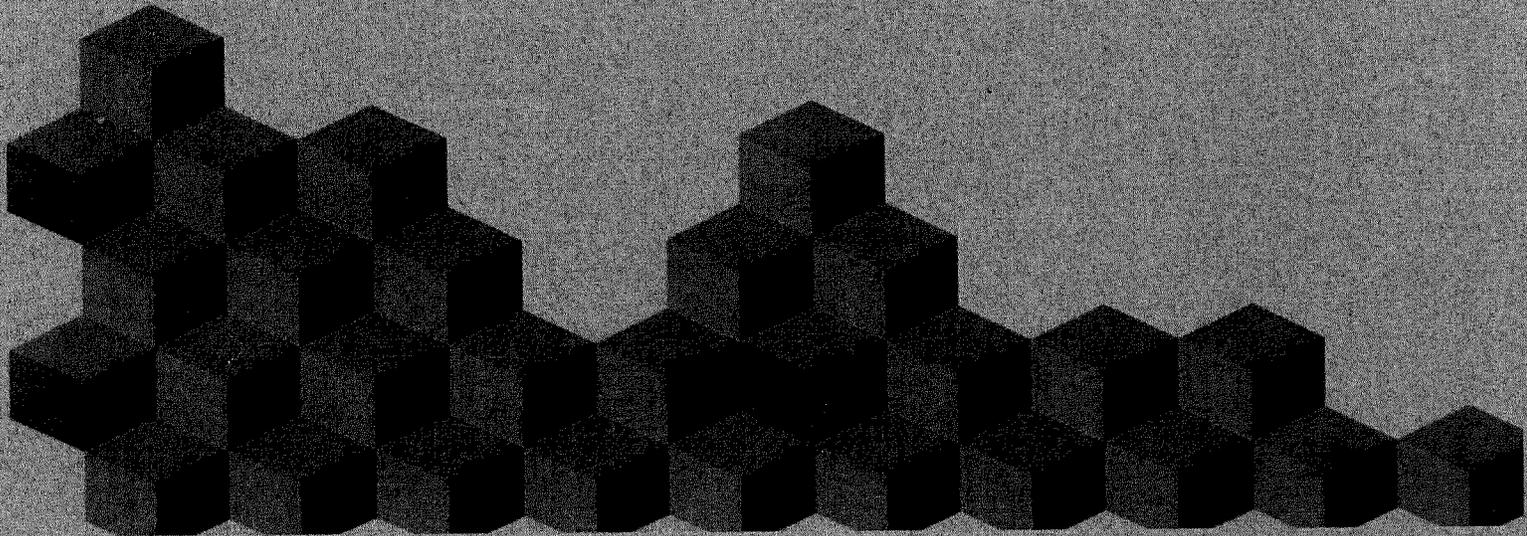
Environmental Consultants & Management Services

Asbestos and Lead Survey Report

***Willowbrook WWTP
7101 W. Greens Road
HOUSTON, TEXAS***

***WBS No. R-000265-0104-3
Task Number 14-04
ECMS Project Number: 3797***

***Prepared for:
City of Houston
611 Walker -14th Floor***



ASBESTOS AND LEAD SURVEY REPORT

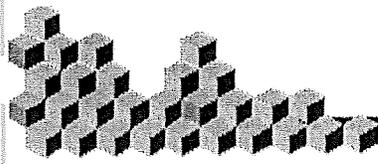
**Willowbrook Wastewater Treatment Plant Improvements
7101 W. Greens Rd.
HOUSTON, TX**

**WBS No. R-000265-0104-3
Task Number: 14-04
ECMS Project Number: 3797**

Prepared for:

**City of Houston
611 Walker -14th Floor
Houston, Texas 77002**

July 8, 2014



ECMS, Inc.

Engineering Management, Construction Support & Environmental Services

July 8, 2014

Geo-Environmental Services Branch
611 Walker Street, 14th Floor
Houston, Texas 77002

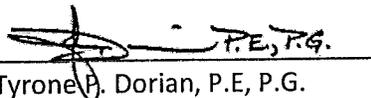
Re: Comprehensive Asbestos and Lead-Based Paint Survey
Willowbrook WWTP Improvements
7101 W. Greens Rd.
Houston TX
WBS No: R-000265-0104-3
Task Number: 14-04
ECMS Project Number: 3797

Environmental Consulting & Management Services, Inc. (ECMS) is pleased to present the results of the asbestos and lead-based paint survey conducted at the above referenced facility.

This report includes the results of our findings from visual reconnaissance, sampling and laboratory analysis. An assessment of the information was made to arrive at the conclusions stated and the recommendations presented.

We appreciate the opportunity to be of service to you and look forward to working on future assignments. Should you have any questions concerning this report or if we can assist you with any other matter, please feel free to contact us. ECMS personnel are available for your assistance around the clock.

Sincerely,
Environmental Consulting & Management Services, Inc. (ECMS)



Tyrone P. Dorian, P.E., P.G.
Individual Asbestos Consultant #10-5313
Lead Risk Assessor License #2070156

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Qualifications and Limitations

Our professional services have been performed, our findings obtained and our recommendations prepared in accordance with customary principles and practices in the fields of environmental science and engineering. This warranty is in lieu of all other warranties either expressed or implied. This company is not responsible for the independent conclusions, opinions or recommendations made by others based on the field exploration and laboratory test data presented in this report.

The conclusions and recommendations describe only the conditions present at the time of our assessment, in areas that were observed. Opinions and recommendations presented herein apply to facility conditions existing at the time of our investigation and those reasonably foreseeable.

This report is prepared for the sole and exclusive use of the City of Houston, its contractors or agents. It is designed to aid the building owner, architect, construction manager, general contractor, and potential abatement contractor in locating Asbestos-Containing Materials (ACM) and Lead-Based Paint (LBP).

Reasonable efforts were made to obtain representative samples of building materials and have those materials analyzed for asbestos or lead content. Should suspect materials be discovered during building renovation/demolition that have not been addressed, samples of the materials should be collected and analyzed for asbestos or lead content prior to renovation and/or demolition.

Notification to the Texas Department of State Health Services (DSHS) must be given prior to any renovations or demolition activities.

Executive Summary

Environmental Consultants & Management Services, Inc. (ECMS) conducted asbestos and lead surveys on June 30, 2014, at the **Willowbrook Wastewater Treatment Plant (WWTP)** located at 7101 W. Greens Rd., Houston, TX. The WWTP is an isolated above grade treatment system consisting of a Bar screen/grit removal system. The interior of the structure contains multiple systems with distribution piping, valves, sump pump, electrical control panels, and odor control system. Paint deterioration was noted on painted equipment including, pumps, pump stands, piping, pipe fittings, and pipe valves. Entry into the open WWTP was accessible throughout the area. (See diagram in appendix A)

Site inspections and bulk sample collections were conducted using standard protocols specified by the Texas Asbestos Health Protection Act (TAHPA) and the Texas Lead Reduction Rules. All accessible area of the facility was sampled. Inaccessible materials (drop gaskets, equipment gaskets, and buried piping) are assumed to be asbestos and/or lead containing materials until tested.

J3 Resources Inc. is a State of Texas Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP and ELLAP Accredited and performed all asbestos and lead analyses.

Asbestos Summary

Findings:

Eighteen (18) bulk material samples of valve gaskets were taken of suspect asbestos-containing materials. The samples collected tested negative for asbestos content. The samples were of a rubber texture in good condition, rust to dark pink color tone.

No other suspect asbestos – containing materials were identified.

Recommendations:

Based on the findings and site observation, we do not believe there should be any abatement activity required at this site. However, if non-rubber gaskets and/or valve packing's are uncovered during the demolition/renovation activities, they should be tested or assumed to be ACM and abated prior to or during the demolition/renovation activities.

Break all pipe flanges and abate the asbestos-containing gasket/packing's materials using standard wet methods and properly dispose of as asbestos-containing waste. The general contractor should coordinate with the abatement contractor to schedule abatement activities.

Cost Estimate:

Asbestos-Containing Building Materials:

Estimated cost for gasket/packing's abatement is \$75 - \$100 per flange (including disposal cost).

Lead Summary

Findings:

Twenty (20) paint chip samples were taken and analyzed for lead content. Analytical results indicated seventeen (17) samples were below reporting limits (BRL), and three (3) samples were below 600 part per millions (ppm).

Lead-Containing Paint:

Beige paint on a Vertical Centrifuge Pump at area 3 above grade contains lead levels at 223.7 ppm sample #L11. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.

Blue paint on pump motor of secondary clarifier at area 4 contains lead levels at 172.4 ppm sample #L15. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.

Light Grey paint on pump system at area 5 contains lead levels at 141.1 ppm sample #L18. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.

Recommendations:

Recycle all metal components including those with lead containing paint. No lead abatement is required.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) do 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.

Cost Estimate:

TCLP testing costs are estimated at \$200.00 per sample if required.

COMPREHENSIVE ASBESTOS SURVEY

Environmental Consulting Services, Inc. (ECMS) has completed a comprehensive asbestos survey at the Willowbrook WWTP located at 7101 W. Greens Rd. in Houston, Texas, and referred to as the "facility".

Scope of Services

This survey was performed to determine the presence, location, and condition of Asbestos-Containing Materials (ACM) at the referenced facilities. Site inspections and bulk sample collections were conducted using standard protocols for sampling and analysis specified by the Texas Asbestos Health Protection Act (TAHPA). All accessible areas of the facility were inspected and suspect materials sampled. Inaccessible materials were assumed to be asbestos-containing materials until available for testing (drop gaskets, equipment gaskets, and underground piping). No site records were available for use during the inspection.

Tyrone P. Dorian, an EPA-accredited/TDH-Licensed Asbestos Inspector with ECMS performed the facility inspection on June 30, 2014. The samples were collected in a manner that reduced potential for fiber and dust release and exposure using standard methods. All samples were deposited into secure containers and labeled for transport to the J3 resources, Inc. in Houston, Texas. J3 resources, Inc. are a State Licensed Asbestos Laboratory (PCM, PLM, TEM) and NVLAP Accredited.

Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

The inspection consisted of the following:

- Sampling of suspect Asbestos-Containing Materials (ACMs).
- Quantifying and qualifying ACM.
- Locating ACM samples on computer generated maps.
- Preparing an inspection report.

Facility Description

The Willowbrook WWTP facility primarily is situated on a large land tract adjacent to a HC drainage outlet system. The mechanical operational aspects of the facility is sectionalized in various areas consisting of a small lift station at gate entrance and four (4) operational systems at the south area of the property operating as a combined unit to treat waste water (see map in Appendix A). A bar screen / grit removal system exist on the west area of the facility (non-sampling area). Paint deterioration was noted on painted equipment including, piping, pipe fittings, and pumps & motors. ECMS sampled for potential acm & lead base paint for future renovations / demolition. The entire operating system of the WWTP is totally enclosed within perimeter fencing.

Sampling Techniques and Laboratory Methods

This section details the sampling and laboratory methods used in the comprehensive asbestos survey to quantify and assess the condition of the confirmed ACM.

Survey Methods

This section addresses the criteria necessary for identifying, evaluating and assessing suspect Asbestos-Containing Materials (ACMs).

- a. **Homogeneous Areas:** Prior to collecting bulk samples of suspect ACM, distinct homogeneous sampling areas and specific sampling sites were defined based on building construction dates. A homogeneous sample area can be defined as a material that is similar in appearance, color, and generally having the same episode of installation as surrounding "like" material. Attempts were made in all cases to obtain representative samples of like materials, as this is the most cost-effective method for determination of ACM. It should be assumed by the building owner, contractor, and the abatement contractors that the composition of like materials in a single homogeneous area is the same. Homogeneous areas sampled as part of this survey include materials which have been identified by ECMS as ACM and have been classified as friable (material containing more than one-percent asbestos that, when dry, can be crumbled, pulverized or reduced to powder by hand pressure) or non-friable (material containing more than one-percent asbestos that, when dry, cannot be crumbled, pulverized or reduced to powder by hand pressure). Friable materials are more likely to become airborne, thereby increasing the potential for health hazards.
- b. **Hazard Assessment:** According to AHERA (December 30, 1986), verified friable or assumed ACM uncovered in an inspection or re-inspection of a facility shall be accessed in view of past, present, or future likelihood of disturbance and may include the following:
 1. Location of material present.
 2. Condition of material: type of damage, severity of damage, and the extent or spread of damage.
 3. Accessibility of the materials.
 4. Potential for disturbance of the material.
 5. Known or suspected causes of damage (i.e., air erosion, vandalism, service or repair, vibration, and water).
 6. Preventive measures which might eliminate the likelihood of undamaged ACM from becoming significantly damaged.
 7. Actions to be taken to protect human health.

The above hazard assessment factors will be discussed according to classifications of verified ACM. The ACM is usually examined and prioritized according to hazard categories based on condition, location, potential for damage and potential for fiber release. The asbestos hazard categories as defined by the City of Houston are presented in Table 1 as follows:

| Table 1: HAZARD CATEGORY AND RESPONSE ACTION | |
|---|--|
| Hazard Category | Response Action |
| C-1: Asbestos Present | Serious health hazard, as defined by EPA, abatement should be a top priority |
| C-2: Asbestos Present | Health hazard, as defined by EPA, abatement should be planned |
| C-3: Asbestos Present | No action necessary unless renovation, remodeling, or demolition is planned |
| B-1: Asbestos Present | Contains 1% asbestos, or less, not regulated by TDH |
| B-2: Asbestos Present | Adequately enclosed |
| B-3: Asbestos Present | Adequately encapsulated |
| A: No asbestos found | N/A |
| A-1: Asbestos Abated | Once identified asbestos containing materials have been abated |

- c. Field Methods: All accessible areas of the facility were inspected for the presence of suspect ACM. Based on visual surveillance, no suspect materials were present at the facility at the time of our site visit.

Laboratory Methods

Four (4) homogenous areas of suspect asbestos containing materials were identified at the time of our observation. The materials sampled were analyzed using the Polarized Light Microscopy (PLM) methods with dispersion-staining techniques according to US EPA 600/R93/116. This type of analysis requires the microscopist to take a portion of the bulk sample and treat it with a special light-refractive oil emulsion stain. The prepared slide is then subjected to a variety of tests while being viewed under varying polarization of light.

Each type of asbestos displays unique characteristics when subjected to these tests. Percentages of the identified types of asbestos are determined by visual estimation. Even though this is estimation, any material that contains over one percent (> 1%) of any type of asbestos using the PLM Method is considered an ACM and must be handled according to OSHA, EPA, and State regulations if disturbed.

J3 resources, Inc. participates in the EPA Quality Assurance Program for Polarized Light Microscopy and is accredited by the EPA/NIST. This program helps ensure accurate repeatable results on the part of the analyst.

Asbestos-Containing Material (ACM) Verification and Assessment

Eighteen (18) samples collected within the WWTP facility located above grade were identified at the time of our site visit and sampling activities (City of Houston Hazard Category A) - No asbestos found.

Hazard Assessment Results

The exact hazard ratings as defined by the City of Houston Hazard Category and Response Action (Table 1) are referenced in Table 2.

TABLE 2: SUSPECT ACM ANALYTICAL RESULTS

| Homogenous Areas | Material | Location | Type* | Damaged* | Hazard Risk* | Asbestos Content (ND= None Detected) |
|------------------|-------------------|-----------------------------------|-------------|----------------|--------------|--------------------------------------|
| 4 | All Valve gaskets | within collection system assembly | Non-friable | Good Condition | A | ND |

Findings and Recommendations

Findings

ECMS has completed an asbestos survey at the Willowbrook Wastewater Treatment Plant in Houston, Texas. The scope of services was to inspect the facility for the presence of asbestos-containing materials. Only materials accessible at the time of the survey were inspected. Underground components and equipment were not accessible.

Eighteen (18) bulk material samples were taken of suspect asbestos-containing materials. The sample collected tested negative for asbestos content. Valve gasket samples (18) were of a rubber texture in good condition, rust to dark pink color tone.

Four homogenous areas of suspect asbestos containing materials were identified and accessible and sampled at the time of our site visit and sampling activities.

- a. Valve gaskets material appeared to be in good condition at the time of our site visit. **No asbestos present & no action necessary** (City of Houston Category A).

Recommendations

1. Based on the findings and site observation, we do not believe there should be any abatement activity is required at this site. However, if non-rubber gaskets are uncovered during the demolition/renovation activities, they should be tested or assumed to be ACM and abated prior to or during the demolition/renovation activities.
2. Break all pipe flanges and abate the asbestos-containing gasket/packing’s materials using standard wet methods and properly dispose of as asbestos-containing waste. The general contractor should coordinate with the City of Houston Environmental Consultant and an abatement contractor to schedule abatement activities.

CHECK LIST FOR ASBESTOS SURVEYS

NAME OF THE FACILITY: **Willowbrook WWTP**

FACILITY ADDRESS: **7101 W. Greens Rd., Houston, Texas**

DATE OF THE SURVEY: **06/30/ 2014**

CONSULTANT: **ECMS, Inc.**

INSPECTOR (S) NAME: **Tyrone P. Dorian**

Note: Items/information listed below must be included in the report. Use this checklist 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 survey reports 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 inspectors TDH license
4. ✓ Name and address of the facility
5. N/A Statement of building records were used in the inspection and if not, why?
6. N/A Date of construction and last renovation (if any) of the building.
7. ✓ Cover letter (in report) certain executive summary or executive summary begin the report format
8. ✓ List of areas that were not inspected. Explain.
9. ✓ Procedures and protocols used to collect bulk samples.
10. N/A List of measures taken to prevent potential fiber release form locations where samples were extracted
11. ✓ Drawings and/or photographs with sample locations marked to facilitate future location of materials sampled.
12. ✓ Statement...if an accredited (NVLAP) laboratory was used for Sample Analysis.
13. ✓ Copy of the laboratory accreditation certificate.
14. ✓ Copy of the laboratory analysis results of the bulk samples.
15. ✓ Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
16. ✓ Copy of the chain of custody form for the bulk samples.
17. ✓ 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. N/A 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 PLM was done as required by the city for the samples that show less than 5% asbestos.
- 21. ✓ Photographs of all Materials proven to be ACM are included.
- 22. ✓ All asbestos containing materials are classified as Friable or Non-Friable.
- 23. ✓ Recommendations are made for all Asbestos Containing Materials.
- 24. ✓ Reasonably accurate quantities of ACM's are estimated and given in the report.
- 25. ✓ Cost estimations are given for abatement.
- 26. N/A Operation and Maintenance Plans are recommended.

LEAD-BASED PAINT SURVEY

Environmental Consultants and Management Services, Inc. (ECMS) performed a Lead-Based Paint Survey at the Willowbrook WWTP located at 7101 W. Greens Rd., in Houston, Texas, and referred to as the "facility". Tyrone P. Dorian, an EPA/TDH-certified Lead Risk Assessor with ECMS, performed the facility inspection on June 30, 2014. The purpose of this assessment was to determine if Lead-Based Paint (LBP) was present at the facility.

Scope of Services

ECMS was contracted by the City of Houston to perform the following scope of services:

1. Collect paint samples at the facility;
2. Submit the paint samples to a laboratory for the analysis of lead content; and,
3. Prepare a report presenting the analytical results, including recommendations for abatement of any lead-based painted materials discovered.

Sampling and Analysis

Paint Samples Collection

Three (3) homogenous areas were identified. A total of twenty (20) material samples of suspect Lead-Based- Paint (LBP) were collected and analyzed. The paint chips were placed in re-closable plastic bags, labeled and shipped to J3 resources, Inc. for analysis. Description and location of the samples are included in Table 2. HUD sampling procedures and guidelines for evaluation and control of lead-based paint in housing were followed for this survey.

Lead containing paint hazard categories as defined by the City of Houston are presented in Table 1 as follows:

| Hazard Category | Response Action |
|--------------------------------|---|
| C-1: Lead Present | Health Hazard, as defined by applicable federal, state and city regulations. Abatement should be a top priority. (> 5,000 ppm or 0.5% by weight) |
| C-2: Lead Present | No action necessary when the material is adequately enclosed must be addressed prior to demolition or renovation. OSHA regulations apply to workers or the public.(> 600 ppm or 0.06% but< 5,000 ppm or 0.5% by weight) |
| A: Allowable Lead Level | < 600 ppm or 0.06% by weight |
| A-1: Lead Abated | Once identified; lead containing materials (LCM) have been abated |

| TABLE 2: SUSPECT LBP ANALYTICAL RESULTS | | | |
|---|--------------------------------|-----------------------|---|
| Sample No. | Location | Color / Hazard | Lead Concentration - ppm (BDL=Below Detectable Limits) |
| L11 | Area 3 Centrifuge Pump | Beige/Category A | 223.7 |
| L15 | Secondary Clarifier-pump motor | Blue/Category A | 172.4 |
| L18 | Area 5 Pump System | Light Grey/Category A | 141.1 |

Laboratory Analytical Results

J3 resources, Inc. is accredited by the American Industrial Hygiene Association for environmental lead analysis, and is recognized by the Environmental Protection Agency (EPA) under the National Lead Laboratory Accreditation Program. Flame AA method (SW-846, 3050A/7420) was utilized to detect the lead content in the paint materials sampled. Lead-based paint is defined as a paint chip with a lead content of 0.5% by weight or greater in a dry film of paint applied.

Findings and Recommendations

Findings

ECMS has completed a Lead-Based Paint Survey at the facility. This assessment was performed to determine the presence and location of lead-based paint

A total of twenty (20) material samples of suspect Lead-Based- Paint (LBP) materials were collected and analyzed for lead content. Three (3) homogenous areas were identified; three (3) samples contain lead based paint below 600 part per millions (ppm). This is a City of Houston Hazard Category A.

- a. Beige paint on a Vertical Centrifuge Pump at area 3 above grade contains lead levels at 223.7 ppm sample #L11. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.
- b. Blue paint on pump motor of secondary clarifier at area 4 contains lead levels at 172.4 ppm sample #L15. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.
- c. Light Grey paint on pump system at area 5 contains lead levels at 141.1 ppm sample #L18. This is a City of Houston Hazard Category A. Allowable Lead Level, paint material. OSHA regulations apply to workers during demolition or renovation.

Recommendations

Recycle all metal components including those with lead containing paint. No lead abatement is required.

OSHA Requirements: The U.S. Occupational Safety and Health Administration (OSHA) do 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.

CHECK LIST FOR LEAD SURVEYS

NAME OF THE FACILITY: Willowbrook WWTP
FACILITY ADDRESS: 7101 W. Greens Rd., Houston, Texas
DATE OF THE SURVEY: 06/30/14
CONSULTANT: ECMS, Inc.
INSPECTOR(S) NAME: Tyrone P. Dorian

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 were 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 facility.
6. N/A 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. N/A Date of construction and last renovation (if any) of the building.
9. ✓ List of areas that were not inspected. Explain.
10. N/A 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 Analyzer Used:

13. N/A Performance Characteristics Sheet (PCS) for the XRF equipment/s used. Calibration Check Test Results (Form 7.2, HUD Guidelines, or equivalent).
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. NA/ 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.

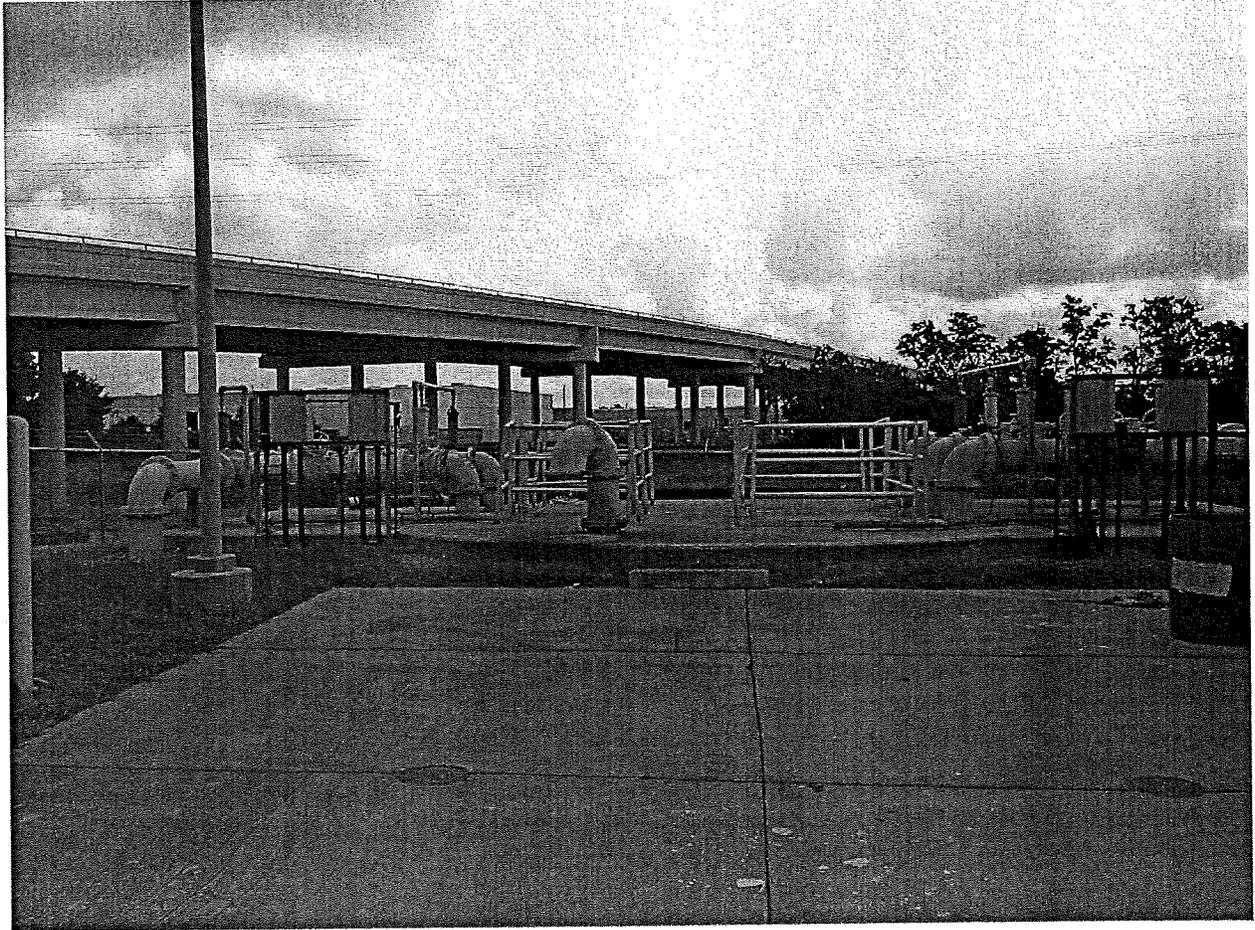
- 19. ✓ Copy of the chain of custody form for samples.
- 20. ✓ Statement...if an accredited (NLLAPIELLAP) laboratory was used for Sample Analysis.
- 21. ✓ Copy of the Laboratory accreditation certificate.
- 22. ✓ Copy of the laboratory analysis results of the paint chip samples.
- 23. ✓ Statement (by the laboratory) regarding Quality Assurance and Quality Control performed.
- 24. ✓ Photographs with sample locations marked to facilitate future location of coating materials sampled.

If Lead Found:

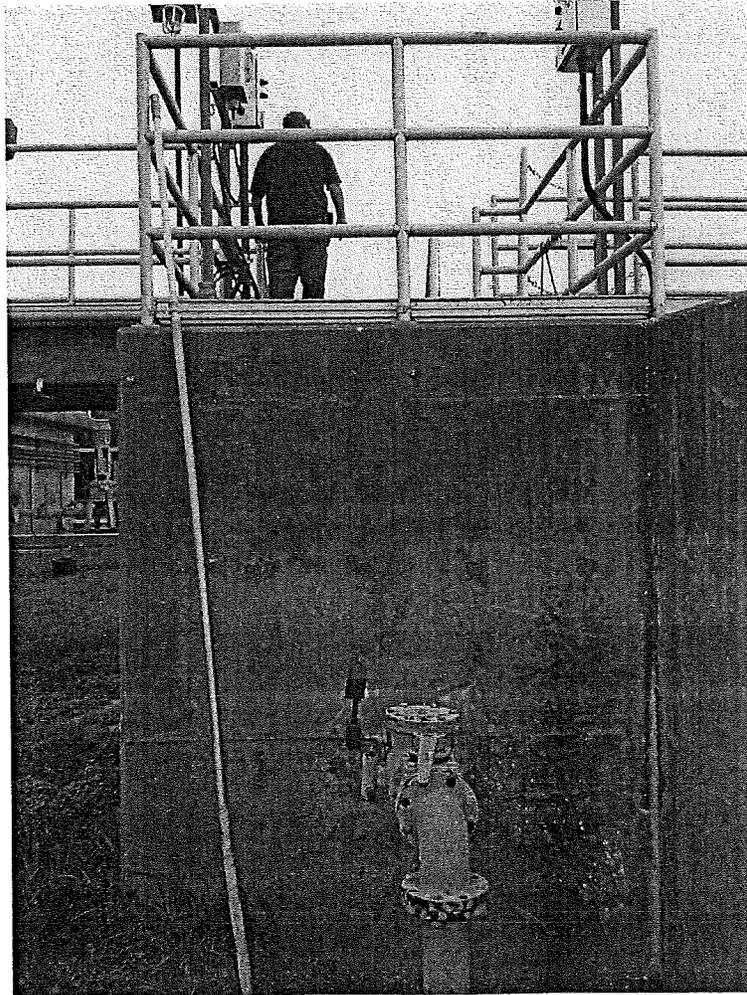
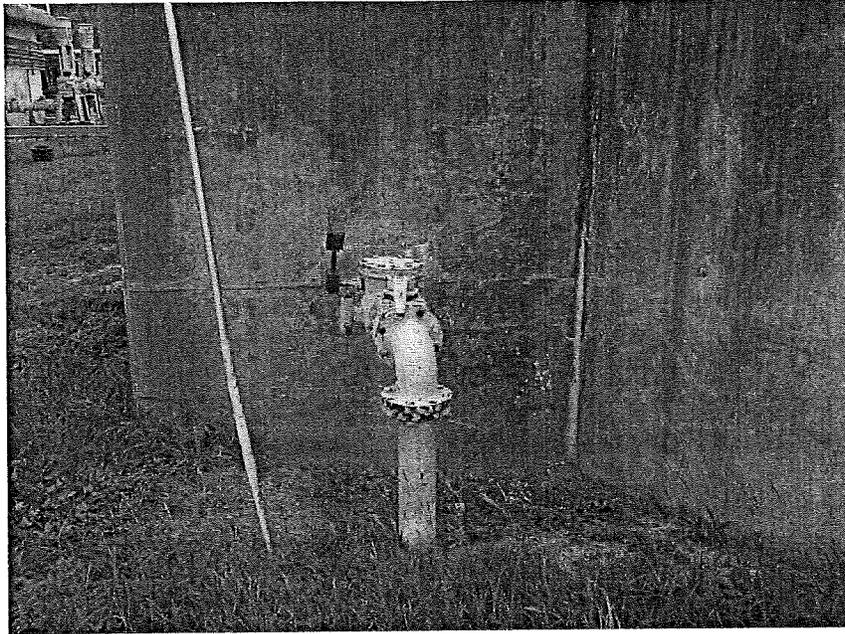
- 25. ✓ Photographs of all component areas proven to have lead.
- 26. ✓ Recommendations for all components proven to have lead based paint or coatings.
- 27. N/A Recommendations for Operation and Maintenance Plans.
- 28. N/A Estimated quantities of Lead Containing Materials.
- 29. ✓ Cost estimations for abatement.

APPENDIX A
FACILITY LOCATION

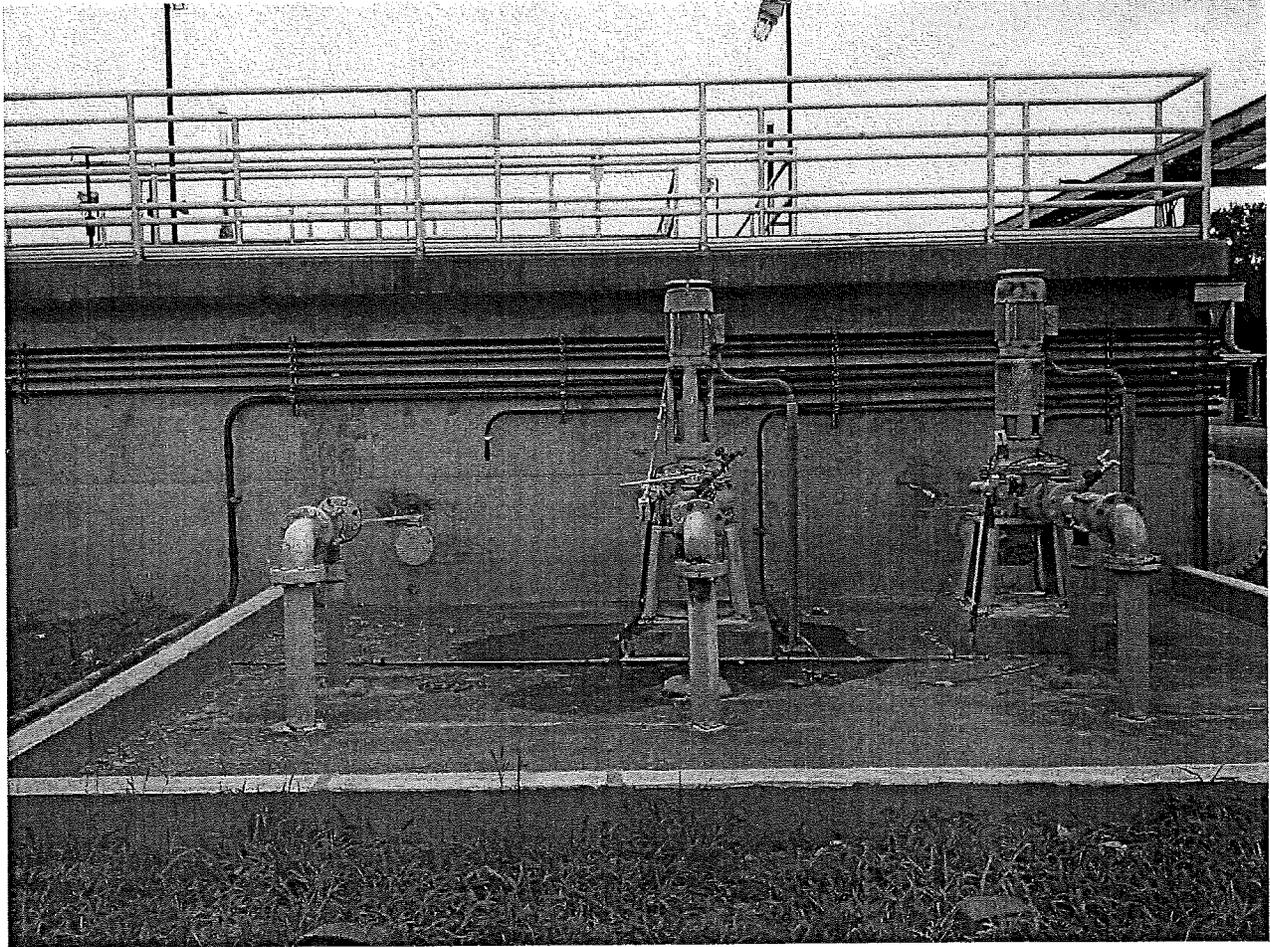
APPENDIX B
SITE PHOTOGRAPHS



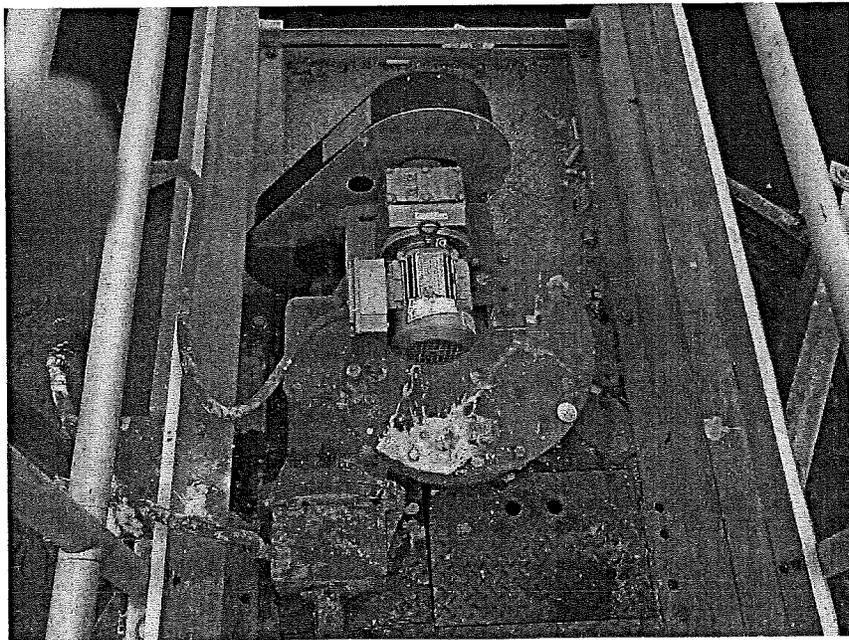
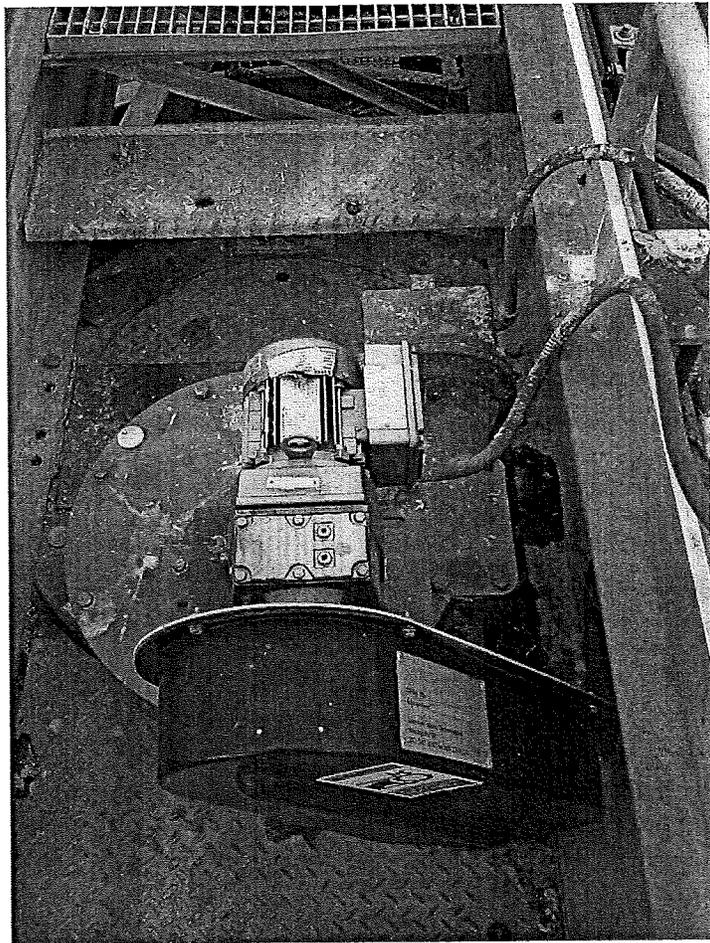
Area 1 Lift Station



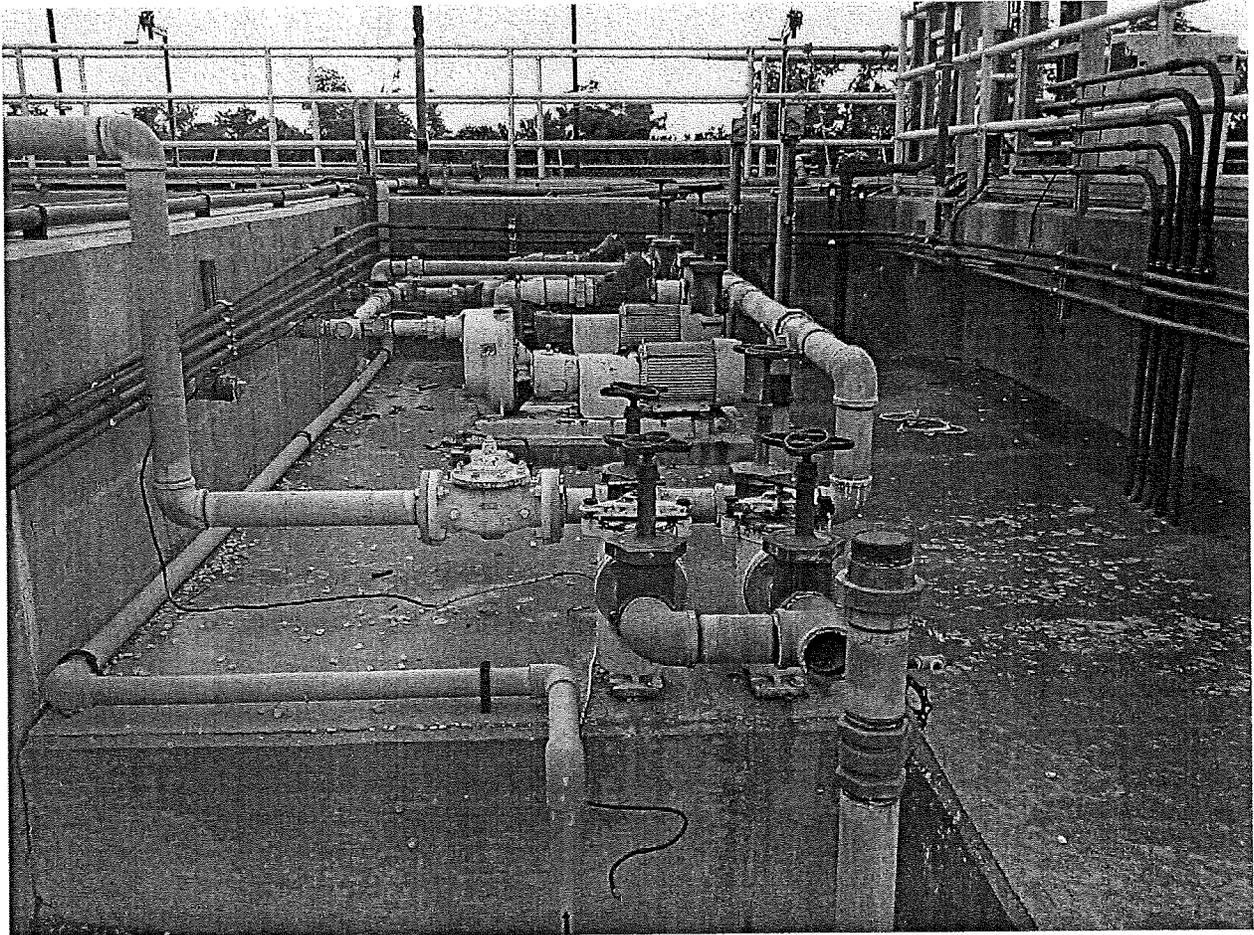
Area 2 Scum pump and discharge



Area 3 existing pumps and valves
Not in use.



Area 4 clarifier mechanism



Area 5 non-potable water pump station

APPENDIX C
ASBESTOS ANALYTICAL RESULTS
&
LEAD ANALYTICAL RESULTS

J3 Resources, Inc.
 6110 W. 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 - Fax: (713) 290-0248
 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

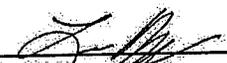
Tyrone Dorian
 ECMS, Inc.
 4911 Lyons Avenue
 Houston TX 77020

J3 Order #: JH1458756
 Project #: 3797A
 Date Received: 01-Jul-2014
 Date Analyzed: 07-Jul-2014
 Date Reported: 08-Jul-2014

Willowbrook WWTP

| Sample ID # | Sample Description | Asbestos Constituents | Non-Asbestos Constituents |
|-------------|---|-----------------------|--|
| A1 | Paint/ Caulk; Tan/ Black; Homogeneous | None Detected | Synthetic Fiber 15% Cellulose Fiber <1 Other Non-Fibrous Material 85% |
| A2 | Paint/ Caulk; Blue/ Red; Homogeneous | None Detected | Other Non-Fibrous Material 100% |
| A3 | Paint/ Caulk; Blue/ Black; Homogeneous | None Detected | Cellulose Fiber <1% Synthetic Fiber <1 Other Non-Fibrous Material 100% |
| A4 | Caulk; Tan; Homogeneous | None Detected | Other Non-Fibrous Material 100% |
| A5 | Paint/ Gasket; Gray/ Green; Homogeneous | None Detected | Cellulose Fiber 35% Synthetic Fiber 5% Other Non-Fibrous Material 60% |
| A6 | Paint/ Caulk; Blue/ Red; Homogeneous | None Detected | Other Non-Fibrous Material 100% |
| A7 | Paint/ Caulk; Tan/ Black; Homogeneous | None Detected | Synthetic Fiber 15% Cellulose Fiber <1 Other Non-Fibrous Material 85% |
| A8 | Paint/ Caulk; Tan/ Red; Homogeneous | None Detected | Cellulose Fiber <1% Other Non-Fibrous Material 100% |
| A9 | Paint/ Caulk; Tan/ Red; Homogeneous | None Detected | Cellulose Fiber <1% Other Non-Fibrous Material 100% |


 Duane Salinas Analyst


 Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed; matrix interference; sample preparation; fiber size; and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. J3 recommends TEM confirmation of soils, vermiculite, and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.

NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273 Page 1 of 3

J3 Resources, Inc.
 6110 W. 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 - Fax: (713) 290-0248
 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

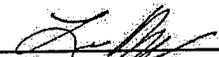
Tyrone Dorian
 ECMS, Inc.
 4911 Lyons Avenue
 Houston TX 77020

J3 Order #: JH1458756
 Project #: 3797A
 Date Received: 01-Jul-2014
 Date Analyzed: 07-Jul-2014
 Date Reported: 08-Jul-2014

Willowbrook WWTP

| Sample ID # | Sample Description | Asbestos Constituents | Non-Asbestos Constituents |
|-------------|--|-----------------------|---|
| A10 | Paint/ Caulk, Tan/ Red, Homogeneous | None Detected | Cellulose Fiber <1% Other Non-Fibrous Material 100% |
| A11 | Paint/ Caulk, Tan/ Black, Homogeneous | None Detected | Synthetic Fiber 20% Other Non-Fibrous Material 80% |
| A12 | Paint/ Caulk, Tan/ Black, Homogeneous | None Detected | Synthetic Fiber 20% Other Non-Fibrous Material 80% |
| A13 | Paint/ Felt, Blue/ Brown, Homogeneous | None Detected | Cellulose Fiber 90% Other Non-Fibrous Material 10% |
| A14 | LAYER 1 Paint/ Felt, Blue/ Brown, Homogeneous | None Detected | Cellulose Fiber 90% Other Non-Fibrous Material 10% |
| | LAYER 2 Caulk, Black, Homogeneous | None Detected | Other Non-Fibrous Material 100% |
| A15 | Caulk, Gray, Homogeneous | None Detected | Cellulose Fiber <1% Synthetic Fiber <1% Other Non-Fibrous Material 100% |
| A16 | Caulk, Gray, Homogeneous | None Detected | Cellulose Fiber <1% Synthetic Fiber <1% Other Non-Fibrous Material 100% |
| A17 | Caulk, Red, Homogeneous | None Detected | Other Non-Fibrous Material 100% |


 Duane Salinas Analyst


 Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. J3 recommends TEM confirmation of soils, vermiculite, and non-friable organically bound materials (NOB) reported as None Detected or <1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.
 NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273 Page 2 of 3

J3 Resources, Inc.
 6110 W. 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 - Fax: (713) 290-0248
 J3Resources.com



Bulk Asbestos Fiber Analysis by Polarized Light Microscopy (PLM)

EPA 600/M4-82-020; 600/R-93/116

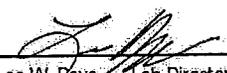
Tyrone Dorian
 ECMS, Inc.
 4911 Lyons Avenue
 Houston TX 77020

J3 Order #: JH1458756
 Project #: 3797A
 Date Received: 01-Jul-2014
 Date Analyzed: 07-Jul-2014
 Date Reported: 08-Jul-2014

Willowbrook WWTP

| Sample ID # | Sample Description | Asbestos Constituents | Non-Asbestos Constituents |
|-------------|-------------------------|-----------------------|---------------------------------|
| A18 | Caulk, Red, Homogeneous | None Detected | Other Non-Fibrous Material 100% |


 Duane Salinas Analyst


 Lee W. Poye Lab Director

This report relates only to the materials tested. This report is for the exclusive use of the addressed client and shall not be reproduced except in full, without written approval by J3 Resources, Inc. (J3). Samples are analyzed according to the methods listed above and are subject to the inherent limitations of PLM and interference of matrix components. Reporting limit for the above method is a function of the quantity of sample analyzed, matrix interference, sample preparation, fiber size, and distribution. Asbestos may be detected in concentrations of <1% by area if sufficient material is analyzed. J3 recommends TEM confirmation of soils, vermiculite, and non-friable organically bound materials (NOB) reported as None Detected or < 1% Asbestos by PLM. All samples received in good condition unless otherwise noted. This report shall not be used to claim product approval, certification, or endorsement by NVLAP, NIST, or any agency of the federal government.
NVLAP Lab Code: 200525-0; AIHA Lab ID: 157714; TDSHS License: 30-0273 Page 3 of 3

CHAIN OF CUSTODY

4756



| Your Name: <u>ECMS</u> | | Bill to: <u>ECMS</u> | |
|---|---|---|--|
| Company: _____ | | Address: _____ | |
| Address: _____ | | City/State: _____ Zip: _____ | |
| City/State: _____ Zip: _____ | | PO #: <u>3797A</u> | |
| Project Information | | | |
| Project #/Name: <u>Willowbrook WQTP</u> | | E-Mail: _____ | |
| Results To: _____ | | Tel: _____ | |
| Report Options: Verbal <input type="checkbox"/> <u>E-Mail</u> <input checked="" type="checkbox"/> Fax <input type="checkbox"/> USPS <input type="checkbox"/> Fax: _____ | | | |
| Requested Turnaround Time | | | |
| Emergency* <input type="checkbox"/> | 1 Day <input type="checkbox"/> | 2 Day <input type="checkbox"/> | 3 Day <input type="checkbox"/> |
| | | | 5 Day <input checked="" type="checkbox"/> |
| Media and Methodology | | | |
| TEM - AIR <input type="checkbox"/> AHERA <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> Level II | TEM - BULK <input type="checkbox"/> Qualitative +/- <input type="checkbox"/> NOB 198.4 / Chatfield <input type="checkbox"/> Gravimetric Reduction | PLM - BULK <input checked="" type="checkbox"/> <input checked="" type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> Point Count (400) <input type="checkbox"/> NOB 198.6 <input type="checkbox"/> Gravimetric Reduction | MOLD - AIR <input type="checkbox"/> Spore Traps: Non-Viable (Air-O-Cell / Allergenco) <input type="checkbox"/> Culture Plates: Viable |
| TEM - WATER <input type="checkbox"/> Drinking Water 100.2 / 198.2 <input type="checkbox"/> Wastewater | TEM - DUST (ASTM 5756) <input type="checkbox"/> Micro-Vac Quantitative <input type="checkbox"/> Micro-Vac Qualitative | PCM - AIR <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> OSHA: TWA | MOLD - BULK <input type="checkbox"/> Tape Lift/Bulk: ID Only <input type="checkbox"/> Culture Plates: ID Only |
| | | | LEAD - FAA <input type="checkbox"/> Paint (EPA 7420) <input type="checkbox"/> Dust/Wipes <input type="checkbox"/> Air (NIOSH 7082) <input type="checkbox"/> TCLP (EPA 1311) |
| | | | LEAD - GFAA <input type="checkbox"/> Water (EPA 7421) <input type="checkbox"/> Effluent <input type="checkbox"/> Air |
| Sample Information | | | |
| SAMPLE NUMBER | LOCATION | VOLUME | |
| <u>A1</u> | | | |
| <u>A2</u> | | | |
| <u>A3</u> | | | |
| <u>A4</u> | | | |
| <u>A5</u> | | | |
| Total Number of Samples Submitted: <u>10</u> | | | |
| Signatures | | | |
| Relinquished By: _____ | Date: <u>6/20/14</u> | Time: <u>2:45</u> | |
| Received By: _____ | Date: <u>07/01</u> | Time: _____ | |
| Relinquished By: _____ | Date: _____ | Time: _____ | |
| Received By: _____ | Date: _____ | Time: _____ | |

* Emergency TAT requires prior lab notification. All samples analyzed outside normal business hours are charged an Emergency rate.

1/2

SAMPLE IDENTIFICATION



Project Name/Number 3797A

Page 2 of 2

| SAMPLE NUMBER | LOCATION | VOLUME (If Applicable) |
|---------------|----------|------------------------|
| A6 | | |
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J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77092 • tel: 713/290-0221 • fax: 713/290-0248

J3 Resources, Inc.
 6110 West 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 – Fax: (713) 290-0248
 j3resources.com



Willowbrook WWTP

**Lead in Paint Performed by
 Flame AA – USEPA SW846 7420/3050B
 Laboratory Results**

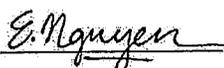
Attn: Tyrone Dorian
 ECMS
 4911 Lyons Avenue
 Houston, TX 77020

J3 Order #: JH1458755
 Date Received: 07/01/2014
 Date Analyzed: 07/08/2014
 Date Reported: 07/08/2014

Willowbrook WWTP

| SAMPLE ID | MATERIAL DESCRIPTION/LOCATION | LEAD CONCENTRATION (mg/kg) | LEAD CONCENTRATION (%) |
|-----------|-------------------------------|----------------------------|------------------------|
| L1 | Paint Chips | <RL | <RL |
| L2 | Paint Chips | <RL | <RL |
| L3 | Paint Chips | <RL | <RL |
| L4 | Paint Chips | <RL | <RL |
| L5 | Paint Chips | <RL | <RL |
| L6 | Paint Chips | <RL | <RL |
| L7 | Paint Chips | <RL | <RL |
| L8 | Paint Chips | <RL | <RL |
| L9 | Paint Chips | <RL | <RL |
| L10 | Paint Chips | <RL | <RL |
| L11 | Paint Chips | 223.7 | 0.0224 |
| L12 | Paint Chips | <RL | <RL |
| L13 | Paint Chips | <RL | <RL |
| L14 | Paint Chips | <RL | <RL |
| L15 | Paint Chips | 172.4 | 0.0172 |
| L16 | Paint Chips | <RL | <RL |
| L17 | Paint Chips | <RL | <RL |
| L18 | Paint Chips | 141.1 | 0.0141 |
| L19 | Paint Chips | <RL | <RL |
| L20 | Paint Chips | <RL | <RL |

<RL = Less than Reporting Limit


 Analyst


 Laboratory Supervisor

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by J3 Resources, Inc. (J3). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. Reporting Limit: 0.50ppm.

NVLAP 200525-0

TDSHS 30-0273

J3 Resources, Inc.
 6110 West 34th Street, Houston, Texas 77092
 Phone: (713) 290-0221 – Fax: (713) 290-0248
 j3resources.com



**Lead in Paint Performed by
 Flame AA – USEPA SW846 7420/3050B
 Laboratory QA/QC Results**

Attn: Tyrone Dorian
 ECMS
 4911 Lyons Avenue
 Houston, TX 77020

J3 Order #: JH1458755
 Date Received: 07/01/2014
 Date Analyzed: 07/08/2014
 Date Reported: 07/08/2014

Willowbrook WWTP

| | |
|-------------------------------------|--------------------|
| Correlation Coefficient | 0.9998 |
| Reporting Limit Verification | 0.4403ppm |
| Initial Calibration Verification | 101% |
| Initial Calibration Blank | < 0.50ppm |
| Continuing Calibration Verification | 102%, 104%, 102.4% |
| Continuing Calibration Blank | < 0.50ppm |
| Method Blank | < 12.5ppm |
| Laboratory Control Sample | 87.3% |
| Matrix Spike | 88.4% |
| Matrix Spike Duplicate | 89.2% |
| Relative Percent Difference | 0.8% |

E. Nguyen
 Analyst

[Signature]
 Laboratory Supervisor

This report relates only to the samples submitted. The analysis has been conducted according to the method(s) listed above. Blank corrections are not applied to data unless requested by the customer. This report is for the exclusive use of the addressed customer and shall not be reproduced except in full without written approval by J3 Resources, Inc. (J3). Unless otherwise noted, all quality control samples performed within specifications established by the laboratory. Reporting Limit: 0.50ppm.

NVLAP 200525-0

TDSHS 30-0273

8754



CHAIN OF CUSTODY

| Your Name: <u>ECMS</u> | | Bill to: <u>ECMS</u> | |
|--|---|--|--|
| Company: _____ | | Address: _____ | |
| Address: _____ | | City/State: _____ Zip: _____ | |
| City/State: _____ | Zip: _____ | PO #: <u>3797B</u> | |
| Project Information | | | |
| Project #/Name: <u>Willowbrook HWY</u> | | E-Mail: _____ | |
| Results To: _____ | | Tel: _____ | |
| Report Options: Verbal <input type="checkbox"/> <u>E-Mail</u> <input checked="" type="checkbox"/> Fax <input type="checkbox"/> USPS <input type="checkbox"/> Fax: <input type="checkbox"/> | | | |
| Requested Turnaround Time | | | |
| Emergency* <input type="checkbox"/> | 1 Day <input type="checkbox"/> | 2 Day <input type="checkbox"/> | 3 Day <input type="checkbox"/> 5 Day <input checked="" type="checkbox"/> |
| Media and Methodology | | | |
| TEM - AIR <input type="checkbox"/> AHERA <input type="checkbox"/> NIOSH 7402 <input type="checkbox"/> Level II | TEM - BULK <input type="checkbox"/> Qualitative +/- <input type="checkbox"/> NOB 198.4 / Chatfield <input type="checkbox"/> Gravimetric Reduction | PLM - BULK <input type="checkbox"/> EPA 600/R-93/116 <input type="checkbox"/> Point Count (400) <input type="checkbox"/> NOB 198.6 <input type="checkbox"/> Gravimetric Reduction | MOLD - AIR <input type="checkbox"/> Spore Traps: Non-Viable (Air-O-Cell / Allergenco) <input type="checkbox"/> Culture Plates: Viable |
| TEM - WATER <input type="checkbox"/> Drinking Water 100.2 / 198.2 <input type="checkbox"/> Wastewater | TEM - DUST (ASTM 5755) <input type="checkbox"/> Micro-Vac Quantitative <input type="checkbox"/> Micro-Vac Qualitative | PCM - AIR <input type="checkbox"/> NIOSH 7400 <input type="checkbox"/> OSHA: TWA | MOLD - BULK <input type="checkbox"/> Tape Lift/Bulk: ID Only <input type="checkbox"/> Culture Plates: ID Only |
| | | | LEAD - FAA <input type="checkbox"/> Paint (EPA 7420) <input type="checkbox"/> Dust/Wipes <input type="checkbox"/> Air (NIOSH 7082) <input type="checkbox"/> TCLP (EPA 1311) |
| | | | LEAD - GFAA <input type="checkbox"/> Water (EPA 7421) <input type="checkbox"/> Effluent <input type="checkbox"/> Air |
| Sample Information | | | |
| SAMPLE NUMBER | LOCATION | VOLUME | |
| <u>L1</u> | | | |
| <u>L2</u> | | | |
| <u>L3</u> | | | |
| <u>L4</u> | | | |
| <u>L5</u> | | | |
| Total Number of Samples Submitted: _____ | | | |
| Signatures | | | |
| Relinquished By: | Date: <u>6/30/14</u> | Time: <u>2:45</u> | |
| Received By: | Date: <u>7/01</u> | Time: _____ | |
| Relinquished By: _____ | Date: _____ | Time: _____ | |
| Received By: _____ | Date: _____ | Time: _____ | |

*Emergency TA: requires prior lab notification. All samples analyzed outside normal hours of operation at emergency rate.

J3 Resources, Inc. • 6110 West 34th Street • Houston, Texas 77097 • tel: 281.990.0021 • fax: 281.259.0248

**APPENDIX D
LICENSE AND CERTIFICATION**



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

ENVIRONMENTAL CONSULTANT AND MANAGEMENT SERVICES

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.

A handwritten signature in cursive script, appearing to read "David Lahey, M.D.".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 100476

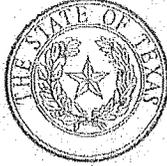
Control Number: 96664

Expiration Date: 1/11/2016

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE





TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

ECMS 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.

A handwritten signature in cursive script, appearing to read "David Lakey MD".

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

License Number: 2110605

Control Number 6635

Expiration Date: 6/18/2016

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE



Tyrone P. Dorian

Name
NPDR92113-7388

Certification #
Asbestos Project Designer Refresher

Approved Course
9/21/2013 9/21/2014 TX 10168136
Course Date Expiration Date DL#



Tyrone Dorian

Name
NR091913-7388

Certification #
Air Monitoring Technician Refresher

Approved Course
9/19/2013 9/19/2014 TX 10168136
Course Date Expiration Date DL#



Tyrone P. Dorian

Name
NMPR92213-7388

Certification #
Asbestos Management Planner Refresher

Approved Course
9/22/2013 9/22/2014 TX 10168136
Course Date Expiration Date DL#

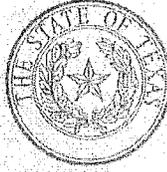


Tyrone P. Dorian

Name
NIR091913-7388

Certification #
Asbestos Inspector Refresher

Approved Course
9/19/2013 9/19/2014 TX 10168136
Course Date Expiration Date DL#



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

Be it known that

TYRONE P DORIAN

is certified to perform as a

Lead Risk Assessor

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.

A handwritten signature in cursive script, appearing to read "David L. Lakey, M.D.".

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

License Number: 2070156

Expiration Date: 3/29/2016

Void After Expiration Date

VOID IF ALTERED

Control Number 6970

NON-TRANSFERABLE

NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NLR030514-7388
Certification #
Lead Risk Assessor Refresher
Approved Course
3/5/2014 3/5/2016 TX 10168136
Course Date Expiration Date DL#

NATEC
OF TEXAS, INC.
www.natectx.com



Tyrone P. Dorian
Name
NLR030414-7388
Certification #
Lead Inspector Refresher
Approved Course
3/4/2014 3/4/2016 TX 10168136
Course Date Expiration Date DL#



CITY OF HOUSTON

Office of Business Opportunity



Annise D. Parker,
Mayor

J3 Resources, Inc.

is duly certified as a

Women Business Enterprise (WBE)

Certified Categories:

Certification Number: 12-07-8679

NAICS-238990: SPECIAL TRADE CONTRACTORS
NAICS-541380: LABORATORY TESTING (EXCEPT MEDICAL, VETERINARY) SERVICES

July 31, 2013

July 31, 2015

Carleen D. Wright

Anniversary Date

Expiration Date

Note: This certificate is the property of the City of Houston Office of Business Opportunity, and may be revoked should the above named firm graduate from the MWBE program. This certificate is renewed annually.



CITY OF HOUSTON

Office of Business Opportunity



Annise D. Parker,
Mayor

J3 Resources, Inc.

is duly certified as a

Disadvantaged Business Enterprise (DBE)

Certified Categories:

Certification Number: 13-7-8679

NAICS-238990: SPECIAL TRADE CONTRACTORS
NAICS-541380: LABORATORY TESTING (EXCEPT MEDICAL, VETERINARY) SERVICES

Anniversary Date:

July 31, 2014

Carleen D. Wright

Note: This certificate is the property of the City of Houston Office of Business Opportunity, and may be revoked should the above named firm graduate from the MWBE program. This certificate is renewed annually.

United States Department of Commerce
National Institute of Standards and Technology



Certificate of Accreditation to ISO/IEC 17025:2005

NVLAP LAB CODE: 200525-0

J3 Resources, Inc.
Houston, TX

is accredited by the National Voluntary Laboratory Accreditation Program for specific services,
listed on the Scope of Accreditation, for:

BULK ASBESTOS FIBER ANALYSIS

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005.
This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality
management system (refer to joint ISO-ILAC-IAF Communique dated January 2009).

2014-04-01 through 2015-03-31
Effective dates



For the National Institute of Standards and Technology

NVLAP-01C (REV. 2009-01-28)

AIHA Laboratory Accreditation Programs, LLC
acknowledges that:

J3 Resources, Inc.
6110 West 34th Street, Houston, TX 77092
Laboratory ID: 157714

along with all premises from which key activities are performed, as listed above, has fulfilled the requirements of the AIHA Laboratory Accreditation Programs (AIHA-LAP), LLC accreditation to the ISO/IEC 17025:2005 international standard, *General Requirements for the Competence of Testing and Calibration Laboratories* in the following:

LABORATORY ACCREDITATION PROGRAMS

| | |
|--|-----------------------------------|
| <input checked="" type="checkbox"/> INDUSTRIAL HYGIENE | Accreditation Expires: 05/01/2016 |
| <input type="checkbox"/> ENVIRONMENTAL LEAD | Accreditation Expires: |
| <input checked="" type="checkbox"/> ENVIRONMENTAL MICROBIOLOGY | Accreditation Expires: 05/01/2016 |
| <input type="checkbox"/> FOOD | Accreditation Expires: |
| <input type="checkbox"/> UNIQUE SCOPES | Accreditation Expires: |

Specific Field(s) of Testing (FoT)/Method(s) within each Accreditation Program for which the above named laboratory maintains accreditation is outlined on the attached Scope of Accreditation. Continued accreditation is contingent upon successful on-going compliance with ISO/IEC 17025:2005 and AIHA-LAP, LLC requirements. This certificate is not valid without the attached Scope of Accreditation. Please review the AIHA-LAP, LLC website (www.aihaaccreditedlabs.org) for the most current Scope.

Gerald Schultz, CIH
Chairperson, Analytical Accreditation Board

Cheryl O. Morton
Managing Director, AIHA Laboratory Accreditation Programs, LLC

Revision 14: 03/26/2014
Date Issued: 05/30/2014



TEXAS DEPARTMENT OF STATE HEALTH SERVICES

J3 RESOURCES INC

is certified to perform as a

**Asbestos Laboratory
PCM, PLM, TEM**

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.

A handwritten signature in cursive script that reads "David Lahey MD".

DAVID LAKEY, M.D.
COMMISSIONER OF HEALTH

License Number: 300273

Expiration Date: 3/15/2016

Control Number: 95940

(Void After Expiration Date)

VOID IF ALTERED NON-TRANSFERABLE