Local Development Finance Authority

Regular Meeting Agenda

Monday, June 8, 2015
4:00 p.m., Council Chambers
South Haven City Hall

City of South Haven

1. **Call to Order**

2. **Roll Call**

   Chairman Art Bolt, Tyler Dotson, Thomas Erdmann, Eugen Gawreliuk, Mike Henry, Robert Herrera, Stephanie Timmer, Andy Klavins, Doug Schaffer, Christine Valentine.

3. **Approval of Agenda**

4. **Approval of Minutes** – April 13, 2015 Regular Meeting

5. **Interested Citizens in the Audience Will be Heard on Items Not on the Agenda**

6. **Financial Report**

7. **Economic Development Report**

8. **Overton Building Acquisition**

9. **2nd Avenue Utility Incentive**

10. **General Comments**

11. **Adjourn**

RESPECTFULLY SUBMITTED,
Paul VandenBosch
Secretary, Local Development Finance Authority

SOUTH HAVEN CITY HALL IS BARRIER FREE AND THE CITY OF SOUTH HAVEN WILL PROVIDE THE NECESSARY REASONABLE AUXILIARY AIDS AND SERVICES FOR PERSONS WITH DISABILITIES, SUCH AS SIGNERS FOR THE HEARING IMPAIRED AND AUDIO TAPES OF PRINTED MATERIALS BEING CONSIDERED AT THE MEETING TO INDIVIDUALS WITH DISABILITIES AT THE MEETING UPON SEVEN (7) DAYS NOTICE TO THE SOUTH HAVEN CITY HALL.

Local Development Finance Authority

Regular Meeting Minutes

Monday, April 13, 2015
4:00 p.m., Council Chambers
South Haven City Hall

City of South Haven

1. **Call to Order by Bolt at 4:22 p. m.**

2. **Roll Call**

   Present: Dotson, Erdmann, Gawreliuk, Klavins, Schaffer, Valentine, Bolt
   Absent: Henry, Herrera, Timmer

3. **Approval of Agenda**

   Motion by Valentine, second by Klavins to approve the agenda as amended.

   All in favor. Motion carried.

4. **Approval of Minutes** – January 12, 2015 Regular Meeting

   Motion by Klavins, second by Dotson to approve the January 12, 2015 regular meeting minutes as written.

   All in favor. Motion carried.

5. **Interested Citizens in the Audience Will be Heard on Items Not on the Agenda**

   There were none.

6. **Financial Report**

   VandenBosch reviewed the Financial Report.

   Motion by Erdmann, second by Klavins to accept the financial report.

   All in favor. Motion carried.

7. **Economic Development Report**

   Jack McCloughan, Economic Development Director, reported on Economic Development activities.

8. 220 Aylworth Offer

Removed from Agenda.

9. Factory Condominium Memorandum of Understanding

VandenBosch noted that the reimbursement agreement was done in the late 1990s. The LDFA was party to the original agreement so needs to be included in the Memorandum of Understanding and Reimbursement Agreement.

Motion by Klavins, second by Erdmann to approve a resolution authorizing agreements and actions to enable environmental remediation at the Factory Condominium site.

Ayes: Dotson, Erdmann, Gawreliuk, Klavins, Schaffer, Bolt
Nays: None

Valentine abstained due to ownership in Factory Condominiums.

Motion carried.

10. Budget

VandenBosch reviewed the proposed budget and enumerated the uses of funds under Operating Transfers Out.

VandenBosch questioned some figures included in General Fund transfers and noted that he will request an explanation of the General Fund Transfers.

Motion by Valentine, second by Klavins to approve the budget pending an explanation of General Fund Transfers.

All in favor. Motion carried.

11. General Comments

There were none.

12. Adjourn

Motion by Klavins, second by Schaffer to adjourn at 4:40 p. m.

All in favor. Motion carried.

RESPECTFULLY SUBMITTED,

Marsha Ransom
Recording Secretary

City of South Haven
Local Development Finance Authority
For the period ended May 31, 2015

	LDFA #1	LDFA #2	LDFA #3
Revenues			
Property Tax Captures	165,327	27,177	57,045
Interest Income	5,202	264	4,043
Land Sales			-
Other Revenue State PPT reimb	34,943	2,435	369
Other Transfers In	-	-	-
Total Revenue	205,472	29,876	61,457
Expenditures			
Economic Liaison	13,235	14,461	16,421
Administrative Costs	-	-	-
Professional Fees	2,400	-	-
Contractual Services	1,845	-	-
Capital Projects	-	-	2,800
General Fund Administration	-	18,333	4,583
Transfer to Building Authority Debt Service	-	11,867	-
MEDC Loan Payments			20,406
Transfer to St. Joe Project Debt Service	110,000	-	-
Other Transfers Out	-	-	-
Total Expenditures	127,480	44,662	44,211
Year-to-Date Fund Gain/(Loss)	77,992	(14,786)	17,246
Cash and Investments			
Cash	299,620	47,911	72,115
Certificates of Deposit	262,661	-	
Other Financial Investments	213,707	129,901	502,573
Total	775,988	177,812	574,689

Land Assets - 345 Kalamazoo St	5.19 acres	$	46,710	Mkt Value per assessor
Land Assets - 1391 Kalamazoo St	1.54 acres	$	36,729	Mkt Value per assessor
220 Aylworth Ave	13.22 acres	$	118,980	Mkt Value per assessor
1280 Kalamazoo St.	3.48 acres	$	31,320	Mkt Value per assessor

LDFA Debt Obligations

St. Joe Projects Bonds - Final Maturity - May 2027	$120,000/Year		
DPW Relocation Bonds - Final Maturity - Nov. 2021		$13,990 Average/Year	
MEDC Loan -0% Interest - Final Payment - April 2016			$27,208/Year

May 29, 2015

TO: Local Development Finance Authority

FR: Paul VandenBosch

RE: Purchase of Overton Building

Due to nonpayment of property taxes, the 5.7 acre Overton property has been foreclosed upon by the County Treasurer.

The County Treasurer first offers any tax foreclosed properties to the City before sending the parcels to tax sale auction. To acquire the property, the City must pay the minimum bid plus administrative costs of $15. The cost of acquisition is $98,265.

South Haven City Council will consider whether to acquire the Overton Property on June 15. The proposal under consideration is to transfer the property to the LDFA for the cost of acquisition.

The proposed resolution for the LDFA would authorize transfer of the property from the City to the LDFA, with the LDFA paying the City the cost of acquisition.

Pros

Demolition of the dangerous building can start quickly.
No waiting for property to pass through tax reversion.
The LDFA would control the property.
The LDFA can request rezoning to an appropriate use (likely residential).
No need to use Dangerous Building Special Assessment process which would inhibit future development.
Demolition expenses can be recovered through a brownfield plan if development occurs.
Elimination of blight in a residential neighborhood.
Elimination of a public health and safety hazard.
Removal of last industrial ruin in a residential neighborhood will increase property values in area.

Cons

We do not have an intended use for the property, although residential development seems to be a likely highest and best use.
There have been concerns associated with residential development of brownfield sites.
While test results indicate only low levels of contamination, there may be unidentified sources.
There will be an ongoing mowing maintenance expense.

Process

If the LDFA purchases the property, an example of the process for purchase, demolition and redevelopment could be as follows:

Purchase through tax foreclosure process
Approve brownfield plan
Approve funding method (Brownfield Revolving Fund)
Demolish building
Restore site
Request Planning Commission review of best use of area
Rezone
Offer site for sale
Review development proposal
Sell property with conditions requiring development according to plan

LOCAL DEVELOPMENT FINANCE AUTHORITY
OF THE CITY OF SOUTH HAVEN
VAN BUREN AND ALLEGAN COUNTIES, MICHIGAN

RESOLUTION NO. 2015-___

A RESOLUTION TO ACQUIRE TAX FORECLOSURE PROPERTY
FROM THE CITY OF SOUTH HAVEN

Minutes of a regular meeting of the Local Development Finance Authority of the City of South Haven, Van Buren and Allegan Counties, Michigan, held in the City Hall, 539 Phoenix Street, South Haven, Michigan 49090 on June 8, 2015 at 4:00 p.m. local time.

PRESENT: _____

ABSENT: _____

The following preamble and resolution was offered by Member _____ and supported by Member _____.

WHEREAS, Section 78.m. of the General Property Tax Act of 1893, as amended, MCL 211.78m, allows a city to purchase tax foreclosed property within the city for a public purpose; and

WHEREAS, Van Buren County has tax foreclosed property located at 229 Elkenberg Street, South Haven, Michigan 49090, Parcel No. 80-53-260-006-00 (the "Overton Property"); and

WHEREAS, the City of South Haven (the "City") wishes to acquire the Overton Property and convey it to the Local Development Finance Authority of the City ("LDFA"), a public body corporate established by the City pursuant to the Local Development Financing Act of 1986, as amended, MCL 125.2151 *et seq*., to ensure demolition of the dangerous building on it and its subsequent redevelopment; and

WHEREAS, the LDFA wishes to acquire the Overton Property from the City to ensure destruction of the dangerous building on it and its subsequent redevelopment; and

WHEREAS, the acquisition costs for the Overton Property are estimated to be $98,265; and

WHEREAS, a LDFA has authority to acquire real property within its development district pursuant to Section 7 of PA 281, MCL 125.2157; and

WHEREAS, the Overton Property is located within the LDFA's development district.

NOW, THEREFORE, BE IT RESOLVED:

1. The acquisition of the Overton Property from the City for an amount not more than $98,265 is approved, subject to such terms and conditions as may be agreed upon by the LDFA.

2. The Secretary of the LDFA Board and other LDFA officials are authorized to execute the documents and take other actions reasonably necessary or appropriate to consummate these transactions.

3. All resolutions and parts of resolutions are, to the extent of any conflict with this resolution, are rescinded.

RECORD OF VOTE:

Yeas: _____

Nays: _____

RESOLUTION DECLARED ADOPTED.

_____
Arthur Bolt, Chair

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City of South Haven Local Development Finance Authority at a meeting held on the 8th day of June, 2015, at which meeting a quorum was present, and that this resolution was ordered to take immediate effect. Public notice of said meeting was given pursuant to and in compliance with the Open Meetings Act, Act No. 167 of the Public Acts of Michigan 1976 (MCL 15.261 *et seq*).

_____
Paul VandenBosch, Secretary

Office of the County Treasurer

Karen Makay, Treasurer
Tania Sheeley-Myers, Chief Deputy

219 E. Paw Paw St. Suite 101, Paw Paw, Michigan 49079-1499
(269) 657-8228 FAX (269) 657-8227
makayk@vbco.org

To: Local Units with Tax Reverted Property within their borders

From: Karen Makay

Date: May 15, 2015

Subject: Local Purchase

Attached is the listing of properties that the County has acquired via the tax reversion process. Your purchase price will be the Minimum Bid plus $15 for recording your deed. I have also enclosed an application to obtain real estate that must be returned to my office if you have interest in purchasing any of the enclosed properties.

I have sent this list to the State of Michigan, and they have until June 1 to notify us if they intend to purchase any of the parcels. If you are interested in any of these parcels, please let me know as soon as possible and I will let you know if the parcel is still available after I hear from the State.

I must have a written response (either yes or no) to this letter no later than June 30, 2015 as the Title Companies are looking for "proof" that the properties were offered and refused. Please respond as quickly as possible. All sales to local units must be completed during July. The Auction will be held September 9th at the Performing Arts Center of Paw Paw High School.

Once again, if any local unit purchases the property it must be for **a Public Purpose**. There will be a restriction on the deed that if this property is sold for any amount over the minimum bid plus the cost of improvements, demolitions etc., the excess amounts shall be returned to the County.

PLEASE REMEMBER THAT YOU CAN NOT ADD ANY SPECIAL ASSESSMENTS TO THESE PROPERTIES EITHER ON THE SUMMER OR WINTER BILLS FOR DELINQUENT UTILITIES OR DEMOLITIONS OR MOWING OR OTHER SIMILAR ISSUES THAT OCCUR PRIOR TO THE SALE AT AUCTION. All liens that were on the property as of March 31st have been cancelled by the Circuit Court. If there is an amount owing that you want me to add to the minimum bid, please let me know in writing. If the minimum bid is received for the property you will be reimbursed. If the minimum bid is not received, but the entire auction receives enough to pay all the minimum bids, then you will be reimbursed. If the sale does not make enough to pay the minimum bids, then all special assessments will be removed and charged back.

Please be advised that this list is NOT for public distribution at this point. (This is not "secret" just don't make copies and give out. If anyone wants to see the list it is fine.) The minimum bid amounts are still subject to change after the first right of refusal is over, as the costs of the auction will be spread over those parcels that actually go to auction. Also, there may still be some parcels that get pulled due to legal issues. We will have a list available for the public both on line and for purchase approximately July 1th.

I thank you for your cooperation in this and await your response.

FORECLOSURE LIST FOR VAN BUREN COUNTY
For 2015 Foreclosures of 2012 and prior taxes

Parcel number - Description - Address - Local Unit - School District & Class	EST MKT VALUE	CURRENT ASSESSED	MINIMUM BID
80-53-260-006-00	$ 116,400	$ 58,200	$ 98,250
A856 10-1-17 1049-664-666 1474-596 1490-583 1615-84 *** BEG 90' W OF THE E LINE & 33' N OF THE S LINE OF NW 1/4 OF SW 1/4 OF SEC 10, TH N 2.64', TH N 24 DEG 40'W 48.67', TH ALG CURVE TO RT WITH RAD 0F 861.41' & CHORD BEARING N 20 DEG 40' 30" W 119.3', TH ALG CURVE TO RT WITH RAD OF 708.17' & CHORD BEARING N 13 DEG 30' W 79. 26', TH ALG CURVE TO RT WITH RAD OF 822.55' & CHORD BEARING N 7 DEG W 80.87' TO PT 12.5' E OF CEN L MAIN TRACK OF RR, TH N PAR SD CEN L 230.2', TH N 5 DEG 50' E 10', TH N 9 DEG 21' E 37.9' TO PT 627' N OF S L OF NW1/4 SW1/4 OF SEC, TH S 89 DEG 52' E PAR SD S L 174' TO N & S 1/8 L OF SW1/4 OF SEC, TH N ALG SD 1/8 L 85.79', TH E TO A PT 160' W OF W L OF INDIANA AVE, THE S 93.88', TH E 160' TO SD W L OF INDIANA AVE, THE S ALG SD W L 50', TH W 122.58', TH S 150', TH E 122.58' TO SD W L, TH S 385.91', TH W TO BEG. BEING PART OF BLK 1 OF ELKENBURG ADD & UNPLATTED SECTION 10. Property Address: 229 ELKENBURG ST SOUTH HAVEN MI City of South Haven - South Haven Schools Class 201 - Commercial Improved			
The following lots will all be sold as one unit - with a deed restriction that they are not to be split until the property is devoped			total Min Bid $ 46,900
80-53-858-020-00	$ 34,600	$ 17,300	
C544C20 3-1-17 1567-792 1575-429 * UNIT 20 NORTH HAVEN VILLAGE CONDOMINIUM TOGETHER WITH RIGHTS IN THE COMMON ELEMENTS AS DESCRIBED IN THE MASTER DEED RECORDED IN LIBER 1422, PAGE 149 AND ANY AMENDMENTS TO SAME. *** SPLIT ON 23			

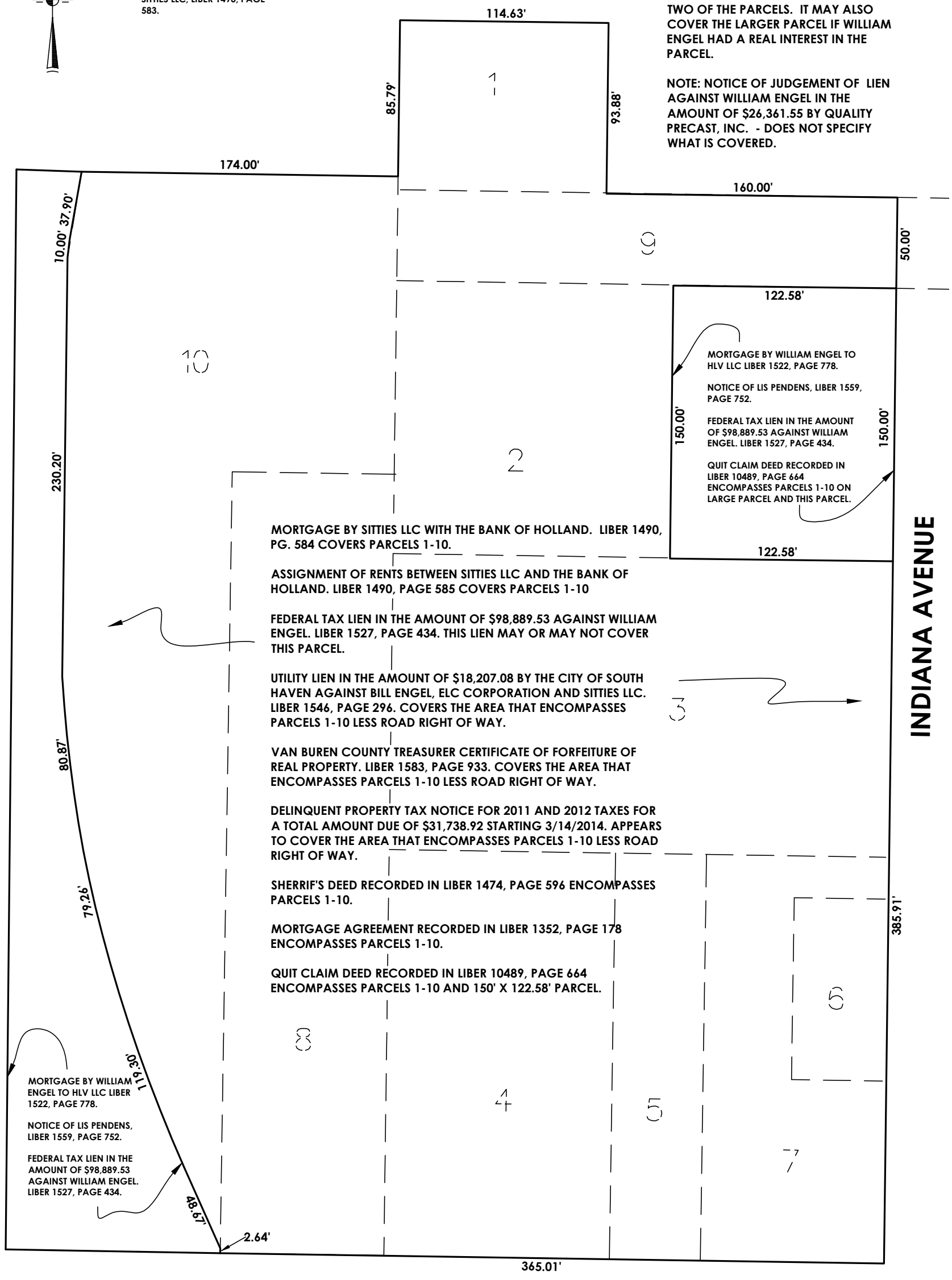
SKETCH

NOTE: DASHED LINES AND NUMBERS REPRESENT GENERAL CONFIGURATION AND LOCATION OF PARCELS IN THE COVENANT DEED TO SITTIES LLC, LIBER 1490, PAGE 583.

NOTE: THIS IS NOT A BOUNDARY SURVEY.

NOTE: TAX LIEN IN THE AMOUNT OF $98,889.53 AGAINST WILLIAM ENGEL IS SHOWN ON THE SKETCH AS COVERING TWO OF THE PARCELS. IT MAY ALSO COVER THE LARGER PARCEL IF WILLIAM ENGEL HAD A REAL INTEREST IN THE PARCEL.

NOTE: NOTICE OF JUDGEMENT OF LIEN AGAINST WILLIAM ENGEL IN THE AMOUNT OF $26,361.55 BY QUALITY PRECAST, INC. - DOES NOT SPECIFY WHAT IS COVERED.



NO.	REVISION DESCRIPTION:	BY:	DATE:

E:\CIVIL 3D\SURV PROJ\14-0142\14-0142.dwg, 11-17, 7/2/2014 3:32:45 PM, mfreehling, 1:1

SHEET TITLE: **INFORMATIONAL SKETCH**

PROJECT: **OVERTON BUILDING 229 ELKENBURG SOUTH HAVEN**

DRAWN BY: MAF
DESIGNED BY:
PM REVIEW:
QA/QC REVIEW:
DATE: 4/18/2014
SCALE: HORZ: 1"=60' VERT:
ACI JOB # 14-0142
SHEET NO. 1 of 1

ABONMARCHE
Confidence By Design
95 West Main Street
Benton Harbor, MI 49022
T 269.927.2295
F 269.927.1017
Manistee, MI
South Haven, MI
South Bend, IN
Portage, IN

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Overton Demolition Financing 6/19/2014

	Funding Sources
445,858.18	Brownfield Revolving Fund Balance
0.00	Grant
89,141.82	LDFA 1
535,000.00	Total

	Expenses
25,000.00	Fence
400,000.00	Demolition
60,000.00	Professional Services
50,000.00	Other
535,000.00	Total

586,364.76	Brownfield Revolving Fund 2013 Balance
140,506.58	Factory Condo Expenses from Revolving Fund (2014-06-19 Draft Plan)
445,858.18	Brownfield Revolving Fund Balance

First American Title

Commitment for Title Insurance

ISSUED BY

First American Title Insurance Company

Commitment

First American Title Insurance Company, a California corporation ("Company"), for a valuable consideration, commits to issue its policy or policies of title insurance, as identified in Schedule A, in favor of the Proposed Insured named in Schedule A, as owner or mortgagee of the estate or interest in the land described or referred to in Schedule A, upon payment of the premiums and charges and compliance with the Requirements; all subject to the provisions of Schedules A and B and to the Conditions of this Commitment.

This Commitment shall be effective only when the identity of the Proposed Insured and the amount of the policy or policies committed for have been inserted in Schedule A by the Company.

All liability and obligation under this Commitment shall cease and terminate 180 days after the Effective Date or when the policy or policies committed for shall issue, whichever first occurs, provided that the failure to issue the policy or policies is not the fault of the Company.

The Company will provide a sample of the policy form upon request.

In Witness Whereof, First American Title Insurance Company has caused its corporate name and seal to be affixed by its duly authorized officers on the date shown in Schedule A.

First American Title Insurance Company

FIRST AMERICAN TITLE INSURANCE COMPANY INCORPORATED SEPTEMBER 24, 1968 CALIFORNIA

Dennis J. Gilmore
President

Timothy Kemp
Secretary

(This Commitment is valid only when Schedules A and B are attached)

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CONDITIONS

1. The term mortgage, when used herein, shall include deed of trust, trust deed, or other security instrument.

2. If the proposed Insured has or acquired actual knowledge of any defect, lien, encumbrance, adverse claim or other matter affecting the estate or interest or mortgage thereon covered by this Commitment other than those shown in Schedule B hereof, and shall fail to disclose such knowledge to the Company in writing, the Company shall be relieved from liability for any loss or damage resulting from any act of reliance hereon to the extent the Company is prejudiced by failure to so disclose such knowledge. If the proposed Insured shall disclose such knowledge to the Company, or if the Company otherwise acquires actual knowledge of any such defect, lien, encumbrance, adverse claim or other matter, the Company at its option may amend Schedule B of this Commitment accordingly, but such amendment shall not relieve the Company from liability previously incurred pursuant to paragraph 3 of these Conditions.

3. Liability of the Company under this Commitment shall be only to the named proposed Insured and such parties included under the definition of Insured in the form of policy or policies committed for and only for actual loss incurred in reliance hereon in undertaking in good faith (a) to comply with the requirements hereof, or (b) to eliminate exceptions shown in Schedule B, or (c) to acquire or create the estate or interest or mortgage thereon covered by this Commitment. In no event shall such liability exceed the amount stated in Schedule A for the policy or policies committed for and such liability is subject to the insuring provisions and Conditions and the Exclusions from Coverage of the form of policy or policies committed for in favor of the proposed Insured which are hereby incorporated by reference and are made a part of this Commitment except as expressly modified herein.

4. This Commitment is a contract to issue one or more title insurance policies and is not an abstract of title or a report of the condition of title. Any action or actions or rights of action that the proposed Insured may have or may bring against the Company arising out of the status of the title to the estate or interest or the status of the mortgage thereon covered by this Commitment must be based on and are subject to the provisions of this Commitment.

5. *The policy to be issued contains an arbitration clause. All arbitrable matters when the Amount of Insurance is $2,000,000 or less shall be arbitrated at the option of either the Company or the Insured as the exclusive remedy of the parties. You may review a copy of the arbitration rules at <http://www.alta.org/>.*

Van Buren County Abstract Office

207 Paw Paw Street
Paw Paw, MI 49079
(269) 657-4250 Fax: (269) 657-3207
Email: vbcao@aol.com

Agent for: First American Title Insurance Company

ALTA Commitment **SCHEDULE A** **File Number: FI-162861**

1. **Commitment Date:** March 12, 2014 **at** 8:00 AM

2. **Policy (or policies) to be issued:**
   (a) **ALTA Owner's Policy (6/17/2006)** **Policy Amount:** To Be Furnished
   Proposed Insured:

   (b) **ALTA Loan Policy (6/17/2006)** **Policy Amount:**
   Proposed Insured:

3. **Fee Simple interest in the land described in this Commitment is owned, at the Commitment Date, by:**

   Sitties, LLC, a Michigan Limited Liability Company

4. **The land referred to in this Commitment is described as follows:**

   Situated in the City of South Haven, Van Buren County, Michigan,

   Beginning 90 feet West of the East line and 33 feet North of the South line of the Northwest Quarter of the Southwest Quarter of Section 10, Town 1 South, Range 17 West, according to the Government Survey thereof; thence North 2.64 feet; thence North 24°40' West 48.67 feet; thence along a curve to the right with a radius of 861.41 feet and a chord bearing North 20°40'30" West 119.3 feet; thence along a curve to the right with the radius of 708.17 feet and a chord bearing North 13°30' West 79.26 feet; thence along a curve to the right with a radius of 822.55 feet and a chord bearing North 7° West 80.87 feet to a point 12.5 feet East of the centerline of the main track of the Railroad; thence North, parallel with said centerline, 230.2 feet; thence North 5°50' East 10 feet; thence North 9°21' East 37.9 feet to a point 627 feet North of the South line of the Northwest Quarter of the Southwest Quarter of said Section; thence South 89°52' East, parallel with said South line, 174 feet to the North and South Eighth line of the Southwest Quarter of said Section; thence North, along said Eighth line, 85.79 feet; thence East to a point 160 feet West of the West line of Indiana Avenue; thence South 93.88 feet; thence East 160 feet to said West line of Indiana Avenue; thence South, along said West line, 50 feet; thence West 122.58 feet; thence South 150 feet; thence East 122.58 feet to said West line; thence South 385.91 feet; thence West to beginning.

(REQUIREMENTS)

The following requirements must be met:

(a) Pay the agreed amounts for the interest in the land and/or the mortgage to be insured.
(b) Pay us the premiums, fees and charges for the policy.
(c) Documents satisfactory to us creating the interest in the land and/or the mortgage to be insured must be signed, delivered and recorded:

1. Record Circuit Court Order(s) appointing receiver, approving sale of real estate and authorizing Amicus Management, Inc., a Michigan Corporation to execute proper conveyance.

2. Record proper conveyance from William Engel and spouse, if any, by Amicus Management, Inc., a Michigan Corporation, in its capacity as Court Appointed Receiver, to Sitties, LLC, a Michigan Limited Liability Company; free and clear of all liens and encumbrances, to extinguish any interest he may have in the captioned premises.

3. For Sitties, LLC, a Michigan Limited Liability Company, furnish the following:

   A. Articles of Organization;
   B. Certificate of Good Standing;
   C. Operating Agreement and all amendments; and
   D. Roster of Members.

4. Record proper conveyance from Sitties, LLC, a Michigan Limited Liability Company, to "To Be Determined."

5. Record partial discharge of mortgage recorded in Liber 1490 on Page 593, as to subject land. (See Exception #1)

6. Record partial discharge of Assignment of Rents recorded in Liber 1490 on Page 585, as to subject land. (See Exception #2)

7. Record partial discharge of mortgage recorded in Liber 1522 on Page 778, as to subject land. (See Exception #3)

8. Record partial release of Lis Pendens recorded in Liber 1559 on Page 752, as to subject land. (See Exception #4)

9. Record proper discharge of tax lien recorded in Liber 1527 on Page 434. (See Exception #5)

10. Record proper release of lien recorded in Liber 1546 on Page 296. (See Exception #6)

11. Record County Treasurer's Redemption Certificate for the Certificate of Forfeiture recorded in Liber 1583 on Page 933. (See Exception #7)

12. Record proper discharge of judgment lien recorded in Liber 1594 on Page 735. (See Exception #8)

13. Record County Treasurer's Redemption Certificate for the Certificate of Forfeiture for 2012 taxes that will be recorded. (See Exception #9)

14. Tax ID# 80-53-260-006-00
2013 SEV $57,900.00 / 2013 TAXABLE VALUE $55,397.00

Summer Taxes paid thru 2010;
2011 Summer Taxes FORFEITED; Base Amount $2,729.21, plus penalties and interest;
2012 Summer Taxes FORFEITED; Base Amount $3,619.06, plus penalties and interest;
2013 Summer Taxes UNPAID; Base Amount $4,776.88, plus penalties and interest.

Winter Taxes paid thru 2010;
2011 Winter Taxes FORFEITED; Base Amount $555.76, plus penalties and interest;
2012 Winter Taxes FORFEITED; Base Amount $17,535.44, plus penalties and interest;
2013 Winter Taxes UNPAID; Base Amount $8,249.14, plus penalties and interest.

Principal Residential Exemption Affidavit HAS NOT been filed.

Note: Principal Residence Exemption information is provided to the Company and is shown for informational purposes only. The accuracy of same in neither guaranteed nor insured. For clarification please contact the local taxing authority.

2013 Special Assessments in the amounts of $5,889.22 for Delinquent Utilities, $1,750.00 for Delinquent Mowing and $15.69 for Peterson Drain (year 2 of 5) as shown by the records at the Van Buren County Treasurer's Office. (NOTE: These amounts are included in the above stated winter base amount.)

REQUIREMENT: Payment of the above taxes.

15. You must tell us in writing the name of anyone not referred to in this Commitment who will get an interest in the land or who will make a loan on the land. We may make additional requirements or exceptions relating to the interest or the loan.

Any policy we issue will have the following exceptions unless they are taken care of to our satisfaction:

Any discrepancies or conflicts in boundary lines, any shortages in area, or any encroachment or overlapping of improvements.

Any facts, rights, interest or claims which are not shown by the public record but which could be ascertained by an accurate survey of the land or by making inquiry of persons in possession hereof.

Easements, liens or encumbrances or claims thereof, which are not shown by the public record.

Any lien or right to lien for services, labor or material imposed by law and not shown by the public record.

Any lien of taxes and assessments not due and payable at date of this commitment. Any additional taxes found due as a result of denial of a homestead exemption.

1. Mortgage given by Sitties, LLC, a Michigan Limited Liability Company, to The Bank of Holland dated September 21, 2007, and recorded October 3, 2007, in Liber 1490 on Page 584.
2. Assignment of Rents given by Sitties, LLC, a Michigan Limited Liability Company, to The Bank of Holland dated September 21, 2007, and recorded October 3, 2007, in Liber 1490 on Page 585.
3. Mortgage given by William Engel a/k/a William L. Engel, et. al., to HLV, LLC, a Michigan Limited Liability Company, dated August 13, 2009, and recorded August 14, 2009, in Liber 1522 on Page 778.
4. Notice of Lis Pendens dated December 19, 2011, and recorded December 20, 2011, in Liber 1559 on Page 752.
5. Federal Tax Lien in the amount of $98,889.53 against William L. Engel dated November 30, 2009, and recorded December 9, 2009, in Liber 1527 on Page 434.
6. Claim of Utility Lien against Bill Engel; E.L.C. Corporation; Sitties, LLC and others in favor of the City of South Haven dated February 13, 2011, and recorded February 23, 2011, in Liber 1546 on Page 296.
7. Van Buren County Treasurer Certificate of Forfeiture of Real Property dated March 1, 2013, and recorded April 16, 2013, in Liber 1583 on Page 933.
8. Notice of Judgment Lien against William Engel dated November 14, 2013, and recorded November 21, 2013, in Liber 1594 on Page 735.
9. Van Buren County Treasurer Certificate of Forfeiture of Real Property for 2012 taxes to be recorded.
10. Easement rights in favor of any and all utility companies, public or otherwise, over and across the land described in Schedule A for the location, servicing and maintenance of facilities located on, over or under the land, if any.
11. All rights of the Chesapeak and Ohio Railway Company.
12. Rights of others in and to the use of any drains and/or ditches located over, across, in or under the insured premises to maintain the same.
13. Rights of the public and any governmental unit in any part of the land taken, deeded or being used for highway or road purposes.
14. To schedule the closing, or for questions regarding our closing services, please call 269-657-4250.

This commitment is valid and binding for a period of 90 days from the effective date set forth above.

Mary Lou Hartwell

Authorized Signatory

Van Buren County Abstract Office

207 Paw Paw Street
Paw Paw, MI 49079
(269) 657-4250 Fax: (269) 657-3207
E-Mail: vbcao@aol.com

Invoice

File Number:	**FI-162861**
Invoice Number:	**4891**
Invoice Date:	03/14/2014

TO: Abonmarche
Attn: Michael S. Freehling, P.S.

Parties

Sitties, LLC,

Sitties, LLC,

RE: 229 Elkenburg Street
South Haven, MI 49090

Owners Coverage: $ 0.00
Lenders Coverage: $ 0.00

Description	Full Rate	Credit	Amount
3/14/14 Owners Premium to be Applied			775.97

Amount Billed:	775.97
Payments:	0.00
	0.00
Balance (Please remit this amount):	**$ 775.97**

Paul Vandenbosch

From: Nicholas Curcio <NCurcio@dickinson-wright.com>
Sent: Thursday, May 21, 2015 7:47 AM
To: Paul Vandenbosch
Cc: Scott G. Smith
Subject: RE: Use of Brownfield Redevelopment Authority Local Site Remediation Revolving Fund for Overton Demolition

Paul,

The BRA can use both the school and non-school portion of the revolving fund to conduct eligible activities on any eligible property in the City, without approval from the DEQ or MSF. But, the City would be unable to replenish the LSRRF with new school-tax revenues attributable to those activities unless the brownfield plan authorizing the activities was approved by the DEQ.

Please let us know if you have any further questions.

-Nick

Nicholas Curcio Attorney
200 Ottawa Ave., N.W.
Suite 1000
Grand Rapids MI 49503
Phone 616-336-1048
Fax 616-458-6753
Email NCurcio@dickinsonwright.com
Profile V-Card
DICKINSON WRIGHT PLLC
MICHIGAN ARIZONA KENTUCKY NEVADA OHIO TENNESSEE WASHINGTON D.C. TORONTO

Begin forwarded message:

> **From:** Paul Vandenbosch <pvandenbosch@south-haven.com>
> **Date:** May 20, 2015 at 1:33:23 PM EDT
> **To:** "Scott G. Smith (SGSmith@dickinson-wright.com)" <SGSmith@dickinson-wright.com>
> **Cc:** Brian Dissette <bdissette@south-haven.com>, "Nicholas Curcio (NCurcio@dickinson-wright.com)" <NCurcio@dickinson-wright.com>
> **Subject: Use of Brownfield Redevelopment Authority Local Site Remediation Revolving Fund for Overton Demolition**
>
> Scott;
>
> We have collected $586,365.57 in an Act 381 Local Site Remediation Revolving Fund. Of this amount, $565,662.91 came from school operating tax capture.
>
> Are we required to seek DEQ or MEDC approval to use LSRRF funds which came from school operating tax capture?
>
> The project would be the Overton demolition.
>
> Paul VandenBosch
> Assistant City Manager/Harbormaster

City of South Haven
pvandenbosch@south-haven.com
269-637-0775 Desk
269-637-5319 Fax
539 Phoenix Street
South Haven, MI 49090

The information contained in this e-mail, including any attachments, is confidential, intended only for the named recipient(s), and may be legally privileged. If you are not the intended recipient, please delete the e-mail and any attachments, destroy any printouts that you may have made and notify us immediately by return e-mail.

Neither this transmission nor any attachment shall be deemed for any purpose to be a "signature" or "signed" under any electronic transmission acts, unless otherwise specifically stated herein. Thank you.

Phase II ESA

1.0 Summary

Villa Environmental Consultants, Inc. contracted by the City of South Haven to conduct a Phase II Environmental Site Assessment (ESA) at 229 Elkenburg Street, South Haven, Michigan which is known as the Overton Building. This investigation was completed in response to the recognized environmental conditions outlined in the June 10, 2014 Phase I ESA report completed by Villa Environmental Consultants, Inc.

The Phase I ESA found eight (8) Recognized Environmental Conditions (RECs) that might impact the subject property.

1. There was historical use of stains, paints, thinners, etc. at this site. These chemicals contain Volatile and Semi-volatile organic compounds and may have contributed to a release.
2. A 20,000 gallon oil tank which leaked and was removed between 1965 and 1985. The removal of this underground storage tank was completed to the standards of that time period, but contamination may still exist and the levels may not meet the current cleanup criteria.
3. Historical use of a railroad spur on the property may have contaminated the site with heavy metals, creosote, or polynuclear aromatic hydrocarbons (PNA)s.
4. There was a coal bunker located within the building which may have contaminated the site with PNAs.
5. A foundry was located on the northern section of the subject property which may have lead to site contamination from heavy metals through distribution of foundry sand.
6. Based on interviews there was a historical filling station adjacent to the southeast of the subject property. Due to the proximity to the subject property this is a REC.
7. Belgravia is a state equivalent to CERCLIS site and is adjacent to the west portion of the subject property. Due to the proximity to the subject property this is a REC.
8. There are currently approximately 25 to 30 drums located within the building that are unlabeled and contain potentially hazardous or petroleum chemicals. These containers of unknown chemicals and their condition have the potential to cause a release.

To address the RECs identified in the Phase I ESA, a Phase II ESA was initiated which involved a subsurface investigation to determine if historic use of the subject property caused contamination that would need to be addressed during site development. This report summarizes the findings of this investigation.

A Site Location Map and Sampling Location Map are included in Appendix A.

2.0 Background Information

The City of South Haven (the City) is in the process of obtaining ownership of the subject property through tax foreclosure. The original Phase I ESA, a National Emissions Standard for Hazardous Air Pollutants (asbestos NESHAP) inspection, and this Phase II ESA have been initiated to develop a plan for removing the existing building and redeveloping the site.

Prior to tax foreclosure, control of the Overton Building was taken by the City to protect its residents. The City secured the doors and installed perimeter fencing around the Overton Building to restrict access. The building is currently condemned and is dangerous to human health and the environment because of the failing roof and walls, deteriorating asbestos-containing material (ACM), and hazardous materials contained in 55-gallon steel drums throughout the building. The building is in very poor condition and is expected to be demolished.

3.0 Subsurface Investigation

Villa Environmental Consultants, Inc. contracted with Geoserve, Inc. of Woodstock, Illinois to advance soil borings at the site. On February 9 and 10, 2015, soil borings were advanced utilizing a track-mounted, Geoprobe 6620 DT throughout the interior and exterior of the Overton Building. A total of twenty-four (24) soil borings were advanced during this investigation, generally ranging from eight (8) to sixteen (16) feet below ground surface (bgs), with the depth of each boring based on field observations.

3.1 Geology

Fill material was encountered directly below the building slab and near the ground surface surrounding the Overton Building. A black slag material was noted underneath the north portion of the building and the current location of the rail spur along the west side of the building, which was encountered approximately ten inches bgs. The slag material is poorly graded and is a mix of silt to course sand. A fine, well graded tan silty sand was noted underneath the southern half of the Overton Building where the original building was constructed. The tan sand is likely native soil and was encountered throughout the property.

Fill material and the building slab is underlain by native sand and clay. The clay that was encountered, was generally tan, moist and medium to hard in stiffness. Depth to clay ranged from directly below the building slab to 7.3' bgs. The depth to the bottom of the clay layer was not determined during this investigation. During the drilling operation, it was noted that the depth to groundwater ranged from 4 feet to 6 feet bgs. When no water bearing sand was present, depth to groundwater was 7 feet to 9 feet bgs. Based on the close proximity of this site to Lake Michigan (approximately 1,600 feet west of the site), groundwater likely flows west toward the lake.

3.2 Laboratory Analysis

Twenty (20) soil samples were collected for laboratory analysis during the subsurface investigation. Samples were collected at different depths based on field observations and the groundwater level. Field observations utilized were visual examination, olfactory observations, and the use of field instruments (a photo ionization detector) to determine the necessary sample analysis. The samples were analyzed for PNAs, unleaded gasoline parameters, and/or total metals based on observations.

In total, six (6) samples were analyzed for PNAs, three (3) samples were analyzed for unleaded gasoline parameters, and 20 samples were analyzed for total metals. Detailed sample results are outlined in Section 3.3. A complete laboratory report is included in the appendix of this report.

3.3 Sample Methodology

Samples were preserved in appropriate jars, placed into a cooler with ice, and chain of custody procedures were initiated. The samples were then shipped via a laboratory courier to ALS Environmental Laboratory (ALS), located in Holland, Michigan. As previously explained, sample analysis was based on observations, historic use of the property, and historic use of nearby properties. Samples were analyzed for:

- PNAs by Environmental Protection Agency (EPA) Method 8270,
- Unleaded gasoline parameters, which are part of Volatile Organic Compounds (VOCs), by EPA Method 8260B, and/or
- Michigan 10 Metals, which is a list of heavy metals, analyzed using EPA Method 6020A.

3.4 Sample Results

Of the six (6) samples analyzed for PNAs, one sample was reported to exceed Michigan Department of Environmental Quality (MDEQ) residential cleanup criteria:

- Sample SB-8, located the shipping and receiving area at the northeast corner of the building, was reported to have levels of: benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene above MDEQ residential cleanup criteria.

No unleaded gasoline constituents were identified above applicable residential criteria. Seven of the 20 samples analyzed for Michigan 10 Metals were reported to have results exceeding applicable criteria:

- Sample locations: SB-8, SB-14, SB-15, SB-16, SB-17, SB-19, and SB-22 were reported to have arsenic concentrations above residential drinking water protection criteria. Samples: SB-14, SB-15, SB-16 and SB-22 were also reported to exceed direct contact criteria.
- SB-22 was also reported to have levels of cadmium that exceed drinking water protection criteria.

Based on the levels of soils identified above and according to MDEQ Part 201 Section 324.20101, the site is considered a facility. Contamination at the site is likely a consequence of using foundry sand and/or slag material as fill during the construction of the building additions. The original building, which is the production area near the south property line, did not exhibit contamination in analytical results or field observations.

4.0 Environmental Due Diligence

Since the City is a non-liable party, no further investigation is required at this time. However, environmental due diligence is required when owning and/or operating a facility. The following sections identify the owner/operator responsibilities. These recommendations are based on the subject property being redeveloped (for example) into a condominium and/or apartment complex following demolition of the existing structure.

4.1 Due Care Plan

Based on the contaminates that exceed MDEQ Residential Cleanup Criteria outlined in Section 3.4, **the site is considered a facility**. The MDEQ does not require that their offices be notified of the presence of contamination in the soils because no formal release occurred at this site. The main focus of the MDEQ law regarding a facility is to:

1. Undertake measures as necessary to prevent exacerbation.
2. Undertake steps to mitigate exposure of unnecessary risks to human health.

Exacerbation is not a concern because no waste is being generated at the building. However, exacerbation could occur if materials are mishandled during site redevelopment. A due care plan is required for the site and will outline steps being taken to mitigate the risk of exposure and exacerbation during demolition and construction activities, and to protect future residents of a potential apartment and/or condominium development.

Villa Environmental Consultants, Inc. understands that the site is expected to be added to the City's brownfield program. Including the site in the current brownfield authority means that the due care plan will likely be submitted to the MDEQ for comments and approval.

4.2 Baseline Environmental Assessment (BEA)

There is no transfer of liability to a government entity that seizes property through tax foreclosure, based on MDEQ law. However, the subject property is being included in the City's brownfield program so a BEA must be completed and submitted to the MDEQ within 6 months of ownership to document the facility status of the site. It is likely that the City will want to submit the BEA sooner, based on the development activities expected to begin this year. A BEA establishes environmental conditions when a new owner or operator gains control of a site. The BEA documents site conditions to determine liability of each owner and/or operator.

4.3 Waste Characterization

During site investigation activities, several drums were opened by our subcontractor, Liquid Industrial of Grand Rapids, Michigan to characterize contents for disposal. The material inside the drums was frozen and unable to be sampled during this investigation. When warmer weather persists (likely in April 2015) and the drums are given time to thaw, the materials should be sampled to determine and plan proper disposal of the drum contents.

5.0 Conclusions

The following is a summary of the key conclusions identified from this investigation:

- The site is a facility based on concentrations of arsenic, cadmium, benzo(a)pyrene, benzo(b)fluoranthene, and dibenzo(a,h)anthracene.
- Within 6 months of becoming the owner or operator of the site, the City must submit a BEA to the MDEQ to document the facility status. This will also make the site eligible for brownfield redevelopment financing. More information is included in

Section 4.2.

- Within eight months of becoming the owner or operator of the site, a due care plan must be completed and remain on the site. The plan details methods to protect workers and occupants from contamination present on the site as described in Section 4.1.
- Drum characterization will be required prior to disposal and will need to be completed when the drums have thawed.
- We were requested to review the condition of the asbestos containing material. There were a few additional areas of damage that occurred since the asbestos inspection was completed. This pipe insulation damage will likely result in less than a $1,000 worth of additional clean up work.

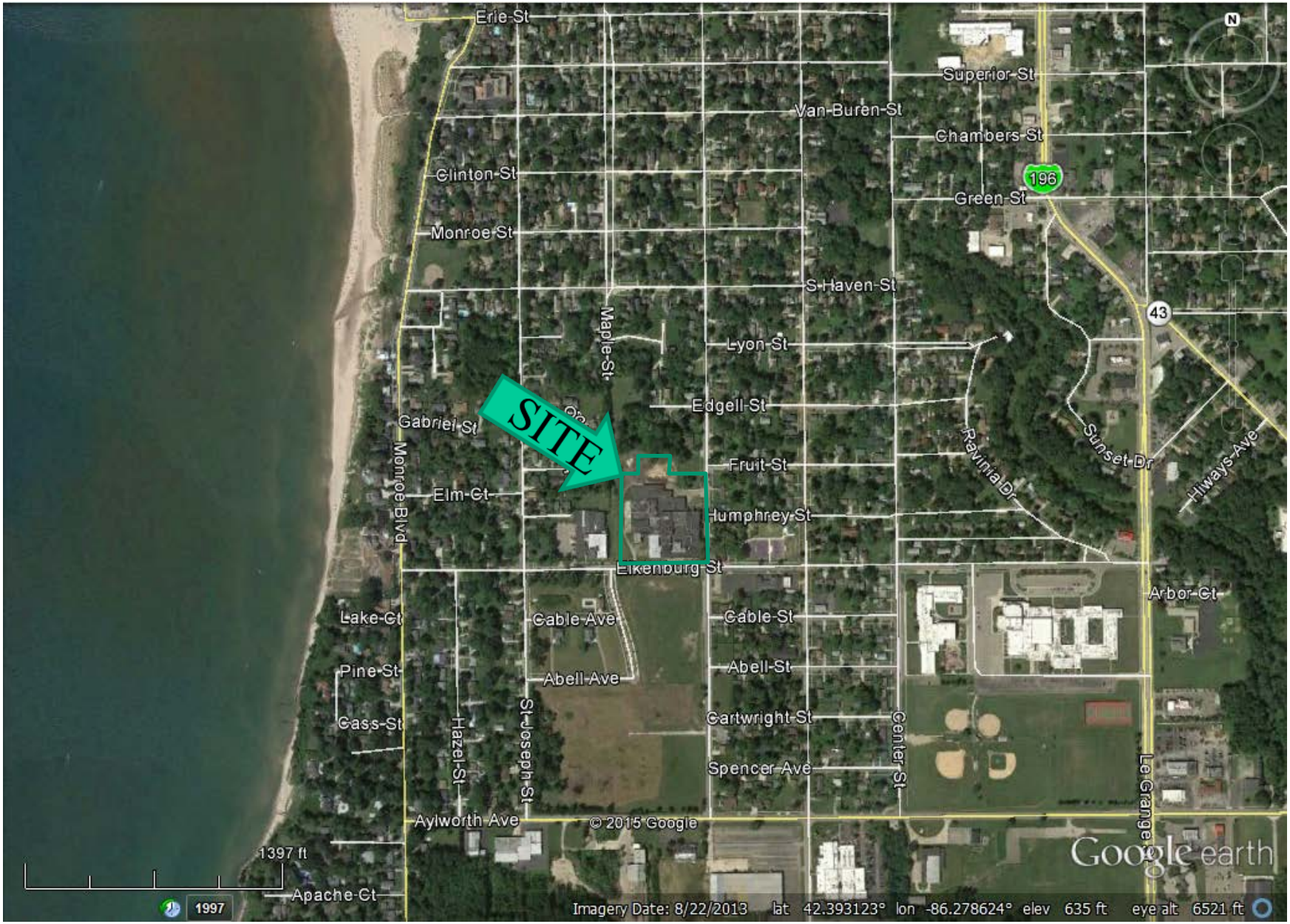
6.0 Signatures of Environmental Professionals

The following is a list of names, titles, and signatures of Villa Environmental Consultants, Inc., staff who contributed to this Phase II Environmental Site Assessment report.

Richard P. Villa, President

Stephen Dehring, Project Geologist

APPENDIX A
Site Location Map

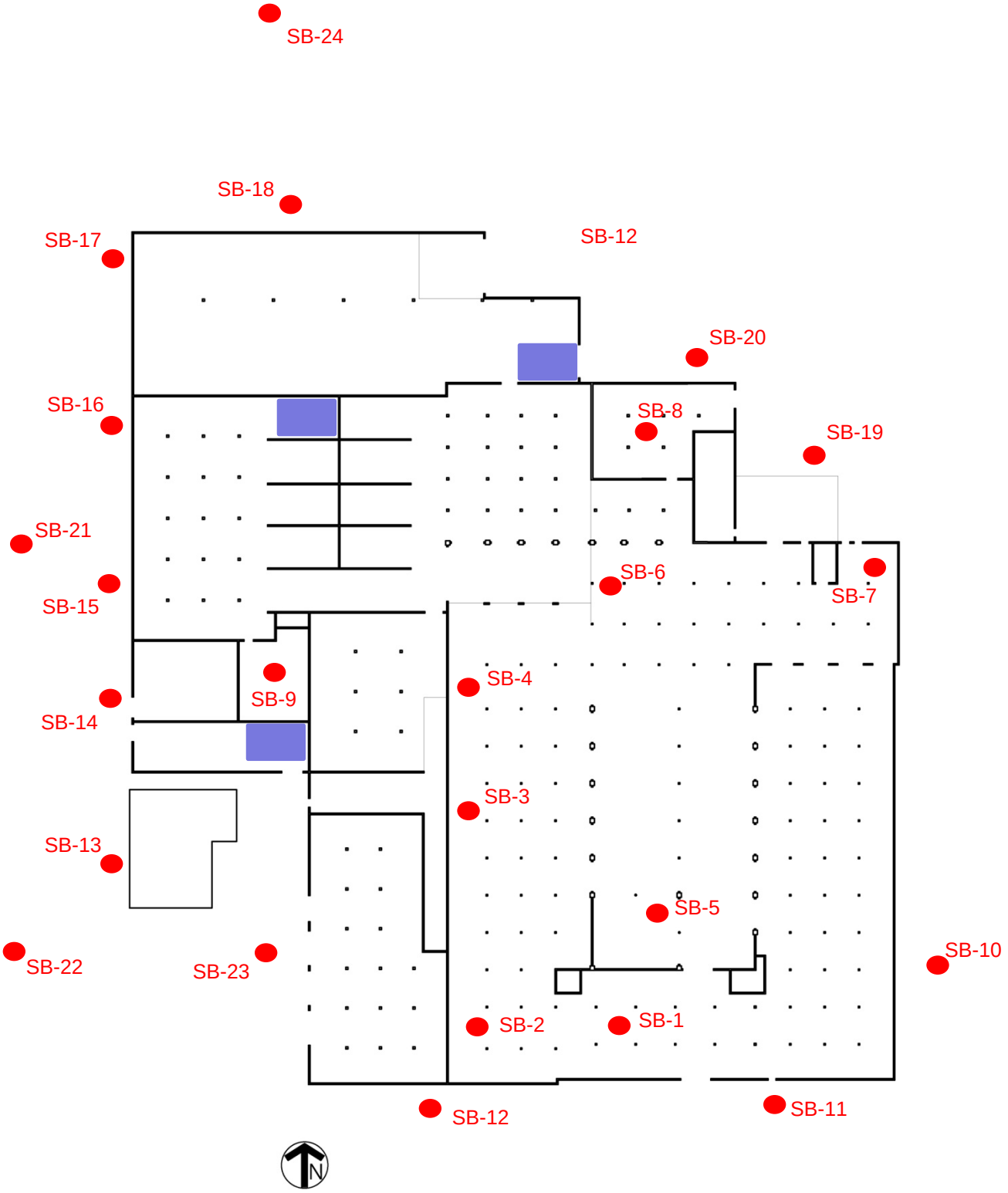


Villa Environmental Consultants, Inc.

Site Location Map

Project:	Overton Building 229 Elkenburg Street South Haven, MI 49090	Date:3/17/2015	Scale: See Above
		Project No: #13-373-02	Figure No: 1

APPENDIX B
Sample and Drum Location Map & Fill Location Map



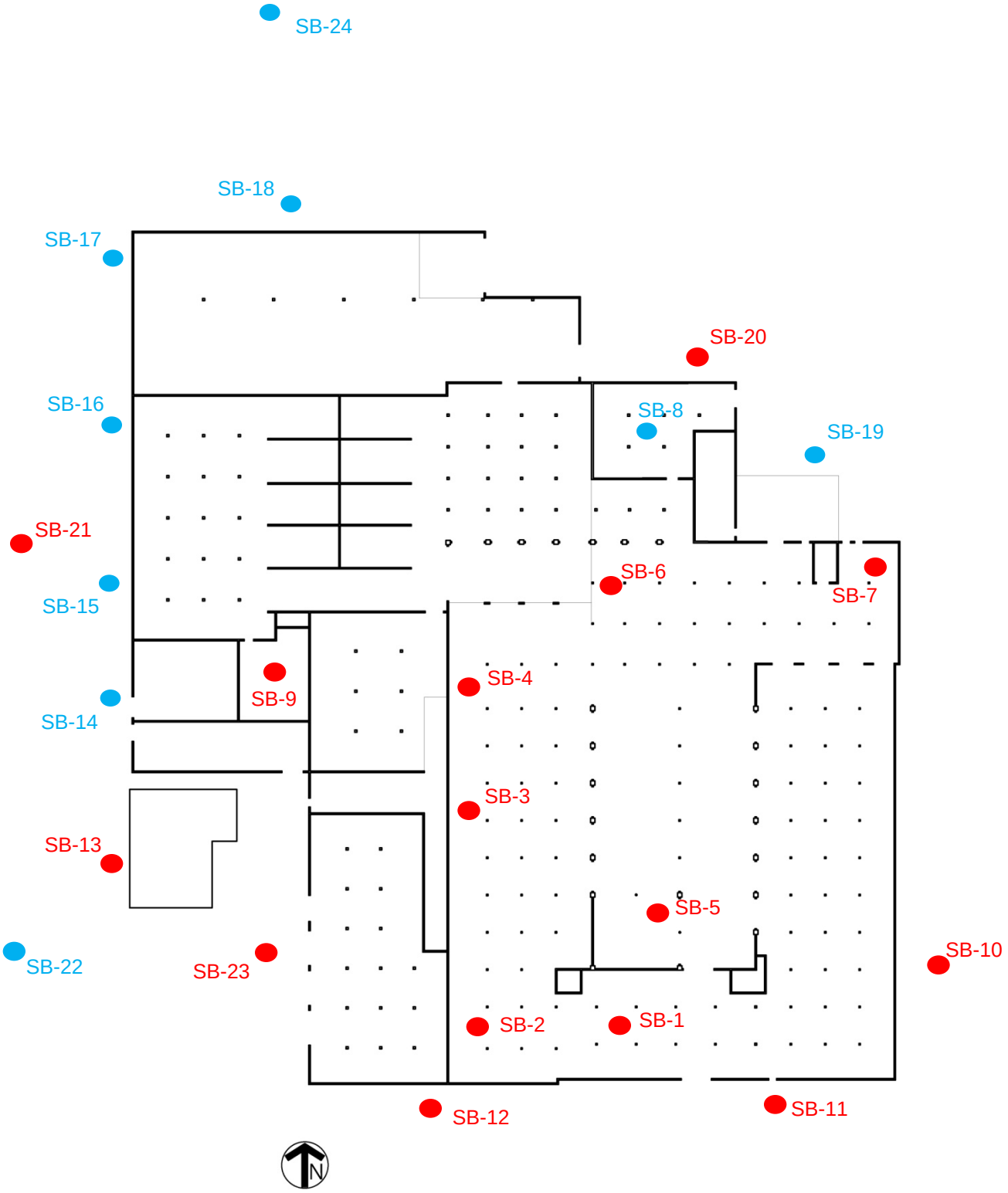
Soil Boring Location

Drum Staging Area

Villa Environmental Consultants, Inc.

Sample and Drum Location Map

Project:	Overton Building 229 Elkenburg Street South Haven, MI 49090	Date: 2/19/2015	Scale: 1" = 60'
		Project No: #13-373-02	Figure No: 2



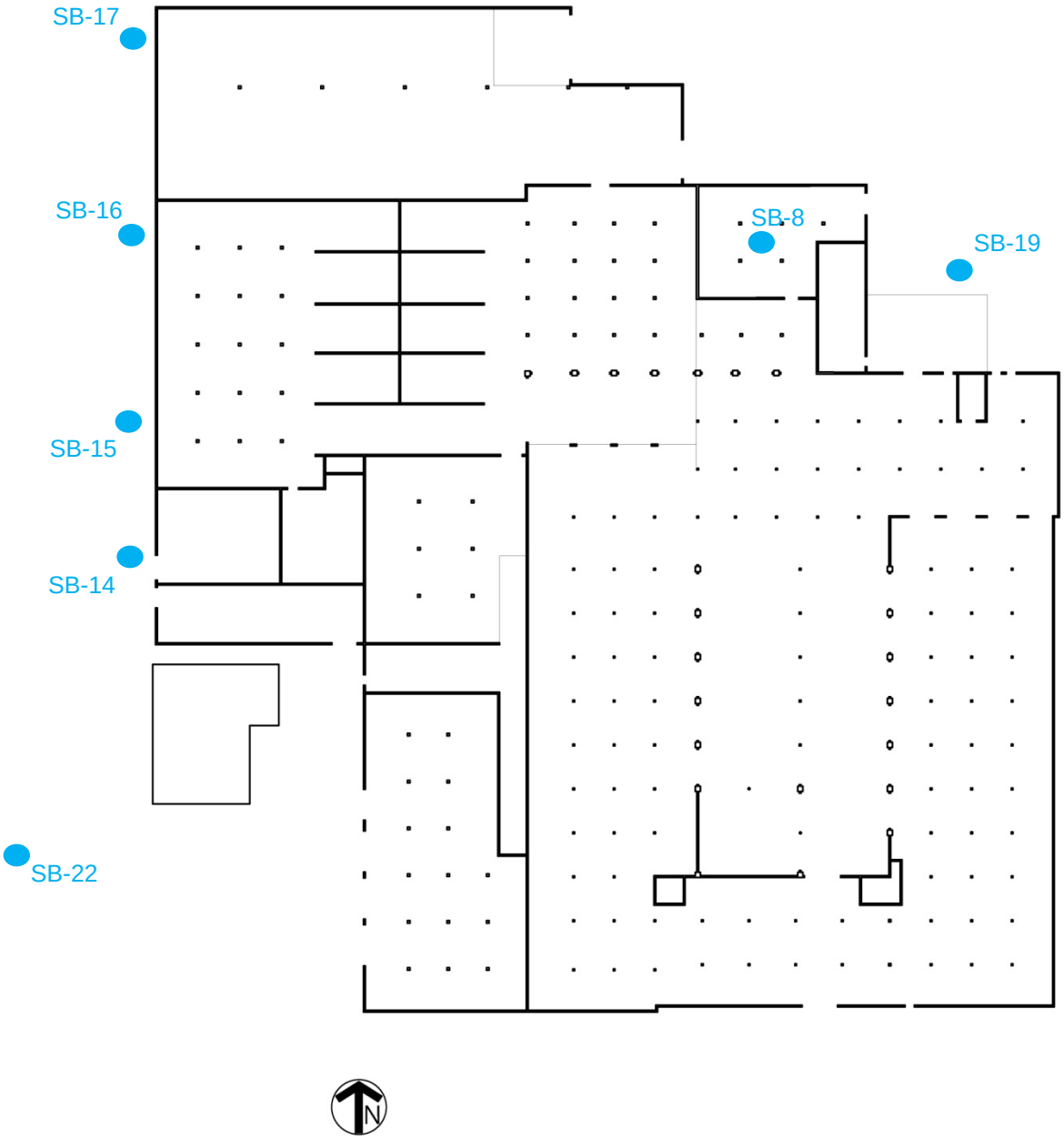
Native Soils

Fill Material Observed

Villa Environmental Consultants, Inc.

Fill Location Map

Project:	Overton Building 229 Elkenburg Street South Haven, MI 49090	Date: 2/19/2015	Scale: 1" = 60'
		Project No: #13-373-02	Figure No: 3



Villa Environmental Consultants, Inc.

Soil Impact Location Map

Project:	Overton Building 229 Elkenburg Street South Haven, MI 49090	Date: 2/19/2015	Scale: 1" = 60'
		Project No: #13-373-02	Figure No: 4

APPENDIX C
Analytical Tables & Laboratory Analytical Report

Villa Environmental Consultants, Inc.

				2-Chloronaphthalene	Acenaphthene	Acenaphthylene	Anthracene	Benzo(a) anthracene	Benzo(a)pyrene	Benzo(b) fluoranthene	Benzo(g,h,i) perylene	Benzo(k) fluoranthene	Chrysene	Dibenzo(a,h) anthracene	Fluoranthene	Fluorene	Indeno(1,2,3-cd) pyrene	Phenanthrene	Pyrene
		Direct Contact Criteria		**5.6E+07**	**4.1E+07**	**1.6E+06**	**2.3E+08**	**20,000**	**2,000**	**20,000**	**2.5E+06**	**2.0E+05**	**2.0E+06**	**2,000**	**4.6E+07**	**2.7E+07**	**20,000**	**1.6E+06**	**2.9E+07**
		Residential Drinking Water Criteria		**620,000**	**300,000**	**5,900**	**41,000**	**NLL**	**NLL**	**NLL**	**NLL**	**NLL**	**NLL**	**NLL**	**730,000**	**390,000**	**NLL**	**56,000**	**480,000**
Boring	**Date**	**PID**	**Depth**																
SB-1	2/9/15	0.0	.5'-1'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-2	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-3	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-4	2/9/15	0.2	0'-1'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-5	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-6	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-7	2/9/15	0.0	0'-1'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-8	2/9/15	0.0	0'-1'	< 330	1,300	1,800	5,000	19,000	**16,000**	**23,000**	11,000	7,100	19,000	**2,600**	45,000	1,900	13,000	20,000	43,000
SB-9	2/9/15	0.0	1.5'-2'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
SB-14	2/10/15	0.0	2'-3'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-15	2/10/15	0.0	1'-2'	< 330	< 330	< 330	< 330	1,200	1,400	1,900	1,100	750	1,200	< 330	2,200	< 330	1,400	1,200	1,800
SB-16	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-17	2/10/15	0.0	0'-1'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-18	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-19	2/10/15	0.2	1'-2'	< 330	400	< 330	830	1,600	1,600	2,100	1,100	790	1,400	< 330	3,400	580	1,600	3,000	2,700
SB-20	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-21	2/10/15	0.0	1'-2'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330
SB-22	2/10/15	0.6	0'-1'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-23	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
SB-24	2/10/15	0.0	3'-4'	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330	< 330

Notes: All samples are reported in parts per billion (ppb)
Bolded and shaded sample concrentrations exceed applicable MDEQ criteria
Criteria extracted from MDEQ Part 201 Table 2 Residential Soil Criteria, dated December 30, 2013
"NLL" means hazardous substance is not likely to leach under most soil conditions
"--" means no analysis was completed for this substance

				1,2,4-Trimethylbenzene	1,3,5-Trimethylbenzene	2-Methylnaphthalene	Benzene	Ethylbenzene	MTBE	Naphthalene	Toluene	Xylenes, Total
		Direct Contact Criteria		**3.2E+7 (C)**	**3.2E+7 (C)**	**8.1E+06**	**1.8E+5 (C)**	**2.2E+7 (C)**	**1.5E+6 (C)**	**1.6E+07**	**5.0E+7 (C)**	**4.1E+8 (C)**
		Residential Drinking Water Criteria		**2,100**	**1,800**	**57,000**	**100**	**1,500**	**800**	**35,000**	**16,000**	**5,600**
Boring	**Date**	**PID**	**Depth**									
SB-1	2/9/15	0.0	.5'-1'	--	--	--	--	--	--	--	--	--
SB-2	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-3	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-4	2/9/15	0.2	0'-1'	--	--	--	--	--	--	--	--	--
SB-5	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-6	2/9/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-7	2/9/15	0.0	0'-1'	--	--	--	--	--	--	--	--	--
SB-8	2/9/15	0.0	0'-1'	--	--	--	--	--	--	--	--	--
SB-9	2/9/15	0.0	1.5'-2'	--	--	--	--	--	--	--	--	--
SB-14	2/10/15	0.0	2'-3'	--	--	--	--	--	--	--	--	--
SB-15	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-16	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-17	2/10/15	0.0	0'-1'	--	--	--	--	--	--	--	--	--
SB-18	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-19	2/10/15	0.2	1'-2'	--	--	--	--	--	--	--	--	--
SB-20	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-21	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-22	2/10/15	0.6	0'-1'	< 100	< 100	< 330	< 50	< 50	< 250	< 330	< 100	150
SB-23	2/10/15	0.0	1'-2'	--	--	--	--	--	--	--	--	--
SB-24	2/10/15	0.0	3'-4'	--	--	--	--	--	--	--	--	--

Notes: All samples are reported in parts per billion (ppb)
Criteria extracted from MDEQ Part 201 Table 2 Residential Soil Criteria, dated December 30, 2013
"MTBE" Methyl tert butyl ether
"C" means the criterion developed under R 299.20 to R 299.26 exceeds the chemicalspecific soil saturation screening level (Csat). The
person proposing or implementing response activity shall document whether additional response activity is required to control

				Mercury	Arsenic	Barium	Cadmium	Chromium	Copper	Lead	Selenium	Silver	Zinc
		Direct Contact Criteria		**1.6E+05**	**7,600**	**3.7E+07**	**5.5E+05**	**7.9E+08**	**2.0E+07**	**4.0E+05**	**2.6E+06**	**2.5E+06**	**1.7E+08**
		Residential Drinking Water Criteria		**1700**	**4,600**	**1.3E+06**	**6,000**	**1.0E+09**	**5.8E+06**	**700,000**	**4,000**	**4,500**	**2.4E+06**
Boring	**Date**	**PID**	**Depth**										
SB-1	2/9/15	0.0	.5'-1'	< 50	3,600	40,000	< 680	11,000	11,000	24,000	750	< 640	53,000
SB-2	2/9/15	0.0	1'-2'	< 50	3,600	37,000	< 630	9,900	3,900	13,000	840	< 620	21,000
SB-3	2/9/15	0.0	1'-2'	< 50	3,700	61,000	< 710	14,000	8,400	7,100	840	< 360	40,000
SB-4	2/9/15	0.2	0'-1'	< 50	3,400	29,000	< 670	8,400	9,600	5,400	690	< 340	37,000
SB-5	2/9/15	0.0	1'-2'	< 50	< 1,600	26,000	< 640	4,000	2,900	54,000	< 640	< 320	95,000
SB-6	2/9/15	0.0	1'-2'	< 50	2,800	31,000	< 620	9,900	8,300	11,000	820	< 310	40,000
SB-7	2/9/15	0.0	0'-1'	< 50	< 1,400	10,000	< 550	< 2,000	< 1,400	2,800	< 550	< 270	6,200
SB-8	2/9/15	0.0	0'-1'	< 50	**5,100**	62,000	< 730	9,200	16,000	24,000	1,500	< 360	44,000
SB-9	2/9/15	0.0	1.5'-2'	< 50	< 1,800	11,000	< 700	3,200	2,100	3,300	< 700	< 350	10,000
SB-14	2/10/15	0.0	2'-3'	< 13	**24,000**	100,000	930	8,800	69,000	140,000	2,100	< 320	180,000
SB-15	2/10/15	0.0	1'-2'	< 11	**11,000**	84,000	640	12,000	48,000	44,000	950	< 320	140,000
SB-16	2/10/15	0.0	1'-2'	< 50	**9,200**	100,000	< 650	7,200	32,000	100,000	1,100	< 330	190,000
SB-17	2/10/15	0.0	0'-1'	130	**6,400**	120,000	2,200	8,700	120,000	140,000	1,600	< 340	180,000
SB-18	2/10/15	0.0	1'-2'	< 50	3,400	89,000	< 730	4,400	27,000	29,000	1,000	< 370	31,000
SB-19	2/10/15	0.2	1'-2'	< 64	**7,600**	43,000	1,700	6,500	140,000	49,000	770	< 340	88,000
SB-20	2/10/15	0.0	1'-2'	< 50	2,200	47,000	< 760	6,800	6,800	19,000	1,000	< 380	29,000
SB-21	2/10/15	0.0	1'-2'	< 50	< 1,700	20,000	< 690	2,800	4,800	13,000	< 690	< 340	38,000
SB-22	2/10/15	0.6	0'-1'	< 50	**23,000**	720,000	**16,000**	15,000	1,800,000	630,000	2,000	< 340	940,000
SB-23	2/10/15	0.0	1'-2'	< 50	2,200	22,000	< 790	3,300	25,000	16,000	< 790	< 400	24,000
SB-24	2/10/15	0.0	3'-4'	< 50	3,200	55,000	< 660	7,700	14,000	36,000	750	< 330	64,000

Notes: All samples are reported in parts per billion (ppb)
Bolded and shaded sample concrentrations exceed applicable MDEQ criteria
Criteria extracted from MDEQ Part 201 Table 2 Residential Soil Criteria, dated December 30, 2013

19-Feb-2015

Steve Dehring
Villa Environmental Consultants, Inc.
408 West Main St
Benton Harbor, MI 49022

Re: **Overton Phase II 13-373-02** Work Order: **1502466**

Dear Steve,

ALS Environmental received 20 samples on 11-Feb-2015 01:00 PM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested.

Sample results are compliant with NELAP standard requirements and QC results achieved laboratory specifications. Any exceptions are noted in the Case Narrative, or noted with qualifiers in the report or QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained from ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to contact me.

Sincerely,

Joseph Ribar

Electronically approved by: Joseph Ribar

Joseph Ribar
Project Manager

Certificate No: MI: 0022

ADDRESS 3352 128th Avenue Holland, Michigan 49424-9263 | PHONE (616) 399-6070 | FAX (616) 399-6185
ALS GROUP USA, CORP Part of the ALS Laboratory Group A Campbell Brothers Limited Company

Environmental www.alsglobal.com
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ALS Group USA, Corp

Date: 19-Feb-15

Client: Villa Environmental Consultants, Inc.
Project: Overton Phase II 13-373-02
Work Order: **1502466**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1502466-01	SB-1 (0.5'-1.5')	Soil		2/9/2015 11:30	2/11/2015 13:00	☐
1502466-02	SB-2 (1'-2')	Soil		2/9/2015 12:15	2/11/2015 13:00	☐
1502466-03	SB-3 (1'-2')	Soil		2/9/2015 11:50	2/11/2015 13:00	☐
1502466-04	SB-4 (0'-1')	Soil		2/9/2015 12:50	2/11/2015 13:00	☐
1502466-05	SB-5 (1'-2')	Soil		2/9/2015 13:10	2/11/2015 13:00	☐
1502466-06	SB-6 (1'-2')	Soil		2/9/2015 13:30	2/11/2015 13:00	☐
1502466-07	SB-7 (0'-1')	Soil		2/9/2015 14:00	2/11/2015 13:00	☐
1502466-08	SB-8 (0'-1')	Soil		2/9/2015 14:10	2/11/2015 13:00	☐
1502466-09	SB-9 (1.5'-2')	Soil		2/9/2015	2/11/2015 13:00	☐
1502466-10	SB-18 (1'-2')	Soil		2/10/2015 09:50	2/11/2015 13:00	☐
1502466-11	SB-19 (1'-2')	Soil		2/10/2015 09:15	2/11/2015 13:00	☐
1502466-12	SB-20 (1'-2')	Soil		2/10/2015 10:10	2/11/2015 13:00	☐
1502466-13	SB-21 (1'-2')	Soil		2/10/2015 10:40	2/11/2015 13:00	☐
1502466-14	SB-22 (0'-1')	Soil		2/10/2015 10:55	2/11/2015 13:00	☐
1502466-15	SB-23 (1'-2')	Soil		2/10/2015 11:20	2/11/2015 13:00	☐
1502466-16	SB-24 (3'-4')	Soil		2/10/2015 11:30	2/11/2015 13:00	☐
1502466-17	SB-14 (2'-3')	Soil		2/10/2015 16:35	2/11/2015 13:00	☐
1502466-18	SB-15 (1'-2')	Soil		2/10/2015 16:55	2/11/2015 13:00	☐
1502466-19	SB-16 (1'-2')	Soil		2/10/2015 16:45	2/11/2015 13:00	☐
1502466-20	SB-17 (0'-1')	Soil		2/10/2015 17:00	2/11/2015 13:00	☐

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-1 (0.5'-1.5')
Work Order:	1502466	**Collection Date:**	2/9/2015 11:30:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-01	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**3.6**	**1.7**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**40**	**6.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.68	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**11**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**11**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**24**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.75**	**0.68**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**53**	**3.4**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**13**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-2 (1'-2')
Work Order:	1502466	**Collection Date:**	2/9/2015 12:15:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-02	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**3.6**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**37**	**6.3**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.63	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**9.9**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**3.9**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**13**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.84**	**0.63**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.32	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**21**	**3.2**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**7.5**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-3 (1'-2')
Work Order:	1502466	**Collection Date:**	2/9/2015 11:50:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-03	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**3.7**	**1.8**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**61**	**7.1**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.71	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**14**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**8.4**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**7.1**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.84**	**0.71**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.36	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**40**	**3.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**15**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-4 (0'-1')
Work Order:	1502466	**Collection Date:**	2/9/2015 12:50:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-04	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**3.4**	**1.7**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**29**	**6.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.67	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**8.4**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**9.6**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**5.4**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.69**	**0.67**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**37**	**3.4**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**12**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-5 (1'-2')
Work Order:	1502466	**Collection Date:**	2/9/2015 1:10:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-05	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	ND	1.6	0.10		mg/Kg-dry	4	2/13/2015
Barium	**26**	**6.4**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.64	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**4.0**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**2.9**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**54**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	ND	0.64	0.20		mg/Kg-dry	4	2/13/2015
Silver	ND	0.32	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**95**	**3.2**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**8.8**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-6 (1'-2')
Work Order:	1502466	**Collection Date:**	2/9/2015 1:30:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-06	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/16/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/16/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**2.8**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**31**	**6.2**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.62	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**9.9**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**8.3**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**11**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.82**	**0.62**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.31	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**40**	**3.1**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**13**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-7 (0'-1')
Work Order:	1502466	**Collection Date:**	2/9/2015 2:00:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-07	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	ND	1.4	0.10		mg/Kg-dry	4	2/13/2015
Barium	**9.6**	**5.5**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.55	0.20		mg/Kg-dry	4	2/13/2015
Chromium	ND	2.0	2.0		mg/Kg-dry	4	2/13/2015
Copper	ND	1.4	1.0		mg/Kg-dry	4	2/13/2015
Lead	**2.8**	**1.4**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	ND	0.55	0.20		mg/Kg-dry	4	2/13/2015
Silver	ND	0.27	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**6.2**	**2.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**2.4**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-8 (0'-1')
Work Order:	1502466	**Collection Date:**	2/9/2015 2:10:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-08	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**5.1**	**1.8**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**62**	**7.3**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.73	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**9.2**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**16**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**24**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**1.5**	**0.73**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.36	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**44**	**3.6**	**1.0**		**mg/Kg-dry**	4	2/13/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	10	2/16/2015
2-Methylnaphthalene	**450**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Acenaphthene	**1,300**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Acenaphthylene	**1,800**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Anthracene	**5,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(a)anthracene	**19,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(a)pyrene	**16,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(b)fluoranthene	**23,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(g,h,i)perylene	**11,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(k)fluoranthene	**7,100**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Chrysene	**19,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Dibenzo(a,h)anthracene	**2,600**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Fluoranthene	**45,000**	**390**	**330**		**µg/Kg-dry**	50	2/18/2015
Fluorene	**1,900**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Indeno(1,2,3-cd)pyrene	**13,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Naphthalene	**640**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Phenanthrene	**20,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Pyrene	**43,000**	**390**	**330**		**µg/Kg-dry**	50	2/18/2015
Surr: 2,4,6-Tribromophenol	*74.4*	*34-140*			*%REC*	10	2/16/2015
Surr: 2-Fluorobiphenyl	*67.8*	*12-100*			*%REC*	10	2/16/2015
Surr: 2-Fluorophenol	*70.2*	*33-117*			*%REC*	10	2/16/2015
Surr: 4-Terphenyl-d14	*88.4*	*25-137*			*%REC*	10	2/16/2015
Surr: Nitrobenzene-d5	*64.8*	*37-107*			*%REC*	10	2/16/2015
Surr: Phenol-d6	*63.4*	*40-106*			*%REC*	10	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**15**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-9 (1.5'-2')
Work Order:	1502466	**Collection Date:**	2/9/2015
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-09	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	ND	1.8	0.10		mg/Kg-dry	4	2/13/2015
Barium	**11**	**7.0**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.70	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**3.2**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**2.1**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**3.3**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	ND	0.70	0.20		mg/Kg-dry	4	2/13/2015
Silver	ND	0.35	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**10**	**3.5**	**1.0**		**mg/Kg-dry**	4	2/13/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Chrysene	ND	330	330		µg/Kg-dry	1	2/16/2015
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluorene	ND	330	330		µg/Kg-dry	1	2/16/2015
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Naphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Phenanthrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Surr: 2,4,6-Tribromophenol	*69.6*	*34-140*			*%REC*	1	2/16/2015
Surr: 2-Fluorobiphenyl	*65.2*	*12-100*			*%REC*	1	2/16/2015
Surr: 2-Fluorophenol	*73.1*	*33-117*			*%REC*	1	2/16/2015
Surr: 4-Terphenyl-d14	*87.8*	*25-137*			*%REC*	1	2/16/2015
Surr: Nitrobenzene-d5	*62.0*	*37-107*			*%REC*	1	2/16/2015
Surr: Phenol-d6	*67.8*	*40-106*			*%REC*	1	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**14**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-18 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 9:50:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-10	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**3.4**	**1.8**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**89**	**7.3**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	ND	0.73	0.20		mg/Kg-dry	4	2/13/2015
Chromium	**4.4**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**27**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**29**	**1.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**1.0**	**0.73**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.37	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**31**	**3.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**19**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-19 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 9:15:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-11	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	**0.064**	**0.050**	**0.050**		**mg/Kg-dry**	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/12/2015**	Analyst: **ML**
Arsenic	**7.6**	**1.7**	**0.10**		**mg/Kg-dry**	4	2/13/2015
Barium	**43**	**6.8**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Cadmium	**1.7**	**0.68**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Chromium	**6.5**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/13/2015
Copper	**140**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Lead	**49**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/13/2015
Selenium	**0.77**	**0.68**	**0.20**		**mg/Kg-dry**	4	2/13/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/13/2015
Zinc	**88**	**3.4**	**1.0**		**mg/Kg-dry**	4	2/13/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	10	2/16/2015
2-Methylnaphthalene	**360**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Acenaphthene	**400**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Acenaphthylene	ND	330	330		µg/Kg-dry	10	2/16/2015
Anthracene	**830**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(a)anthracene	**1,600**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(a)pyrene	**1,600**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(b)fluoranthene	**2,100**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(g,h,i)perylene	**1,100**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(k)fluoranthene	**790**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Chrysene	**1,400**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	10	2/16/2015
Fluoranthene	**3,400**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Fluorene	**580**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Indeno(1,2,3-cd)pyrene	**1,600**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Naphthalene	**860**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Phenanthrene	**3,000**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Pyrene	**2,700**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Surr: 2,4,6-Tribromophenol	*77.0*	*34-140*			*%REC*	10	2/16/2015
Surr: 2-Fluorobiphenyl	*64.8*	*12-100*			*%REC*	10	2/16/2015
Surr: 2-Fluorophenol	*66.0*	*33-117*			*%REC*	10	2/16/2015
Surr: 4-Terphenyl-d14	*88.6*	*25-137*			*%REC*	10	2/16/2015
Surr: Nitrobenzene-d5	*57.6*	*37-107*			*%REC*	10	2/16/2015
Surr: Phenol-d6	*62.6*	*40-106*			*%REC*	10	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**17**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-20 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 10:10:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-12	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**2.2**	**1.9**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**47**	**1.9**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	ND	0.76	0.20		mg/Kg-dry	4	2/16/2015
Chromium	**6.8**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**6.8**	**1.9**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**19**	**1.9**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**1.0**	**0.76**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.38	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**29**	**3.8**	**1.0**		**mg/Kg-dry**	4	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**19**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-21 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 10:40:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-13	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	ND	1.7	0.10		mg/Kg-dry	4	2/16/2015
Barium	**20**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	ND	0.69	0.20		mg/Kg-dry	4	2/16/2015
Chromium	**2.8**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**4.8**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**13**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	ND	0.69	0.20		mg/Kg-dry	4	2/16/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**38**	**3.4**	**1.0**		**mg/Kg-dry**	4	2/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Chrysene	ND	330	330		µg/Kg-dry	1	2/16/2015
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluorene	ND	330	330		µg/Kg-dry	1	2/16/2015
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Naphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Phenanthrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Surr: 2,4,6-Tribromophenol	*82.3*	*34-140*			*%REC*	1	2/16/2015
Surr: 2-Fluorobiphenyl	*61.3*	*12-100*			*%REC*	1	2/16/2015
Surr: 2-Fluorophenol	*64.1*	*33-117*			*%REC*	1	2/16/2015
Surr: 4-Terphenyl-d14	*93.4*	*25-137*			*%REC*	1	2/16/2015
Surr: Nitrobenzene-d5	*55.1*	*37-107*			*%REC*	1	2/16/2015
Surr: Phenol-d6	*56.2*	*40-106*			*%REC*	1	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**15**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-22 (0'-1')
Work Order:	1502466	**Collection Date:**	2/10/2015 10:55:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-14	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**23**	**1.7**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**720**	**17**	**1.0**		**mg/Kg-dry**	40	2/17/2015
Cadmium	**16**	**0.69**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Chromium	**15**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**1,800**	**17**	**1.0**		**mg/Kg-dry**	40	2/17/2015
Lead	**630**	**17**	**1.0**		**mg/Kg-dry**	40	2/17/2015
Selenium	**2.0**	**0.69**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**940**	**34**	**1.0**		**mg/Kg-dry**	40	2/17/2015
VOLATILE ORGANIC COMPOUNDS			**SW8260B**		Prep Date:	**2/13/2015**	Analyst: **BG**
1,2,4-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	2/13/2015
1,3,5-Trimethylbenzene	ND	100	100		µg/Kg-dry	1	2/13/2015
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	2/13/2015
Benzene	ND	50	50		µg/Kg-dry	1	2/13/2015
Ethylbenzene	ND	50	50		µg/Kg-dry	1	2/13/2015
m,p-Xylene	ND	100	100		µg/Kg-dry	1	2/13/2015
Methyl tert-butyl ether	ND	250	250		µg/Kg-dry	1	2/13/2015
Naphthalene	ND	330	330		µg/Kg-dry	1	2/13/2015
o-Xylene	**72**	**50**	**50**		**µg/Kg-dry**	1	2/13/2015
Toluene	ND	100	100		µg/Kg-dry	1	2/13/2015
Xylenes, Total	**150**	**150**	**150**		**µg/Kg-dry**	1	2/13/2015
Surr: 1,2-Dichloroethane-d4	*100*	*70-130*			*%REC*	1	2/13/2015
Surr: 4-Bromofluorobenzene	*97.8*	*70-130*			*%REC*	1	2/13/2015
Surr: Dibromofluoromethane	*98.6*	*70-130*			*%REC*	1	2/13/2015
Surr: Toluene-d8	*96.5*	*70-130*			*%REC*	1	2/13/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**17**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-23 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 11:20:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-15	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**2.2**	**2.0**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**22**	**2.0**	**1.0**		**mg/Kg-dry**	4	2/17/2015
Cadmium	ND	0.79	0.20		mg/Kg-dry	4	2/16/2015
Chromium	**3.3**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**25**	**2.0**	**1.0**		**mg/Kg-dry**	4	2/17/2015
Lead	**16**	**2.0**	**1.0**		**mg/Kg-dry**	4	2/17/2015
Selenium	ND	0.79	0.20		mg/Kg-dry	4	2/16/2015
Silver	ND	0.40	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**24**	**4.0**	**1.0**		**mg/Kg-dry**	4	2/17/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**21**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-24 (3'-4')
Work Order:	1502466	**Collection Date:**	2/10/2015 11:30:00 AM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-16	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**3.2**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**55**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	ND	0.66	0.20		mg/Kg-dry	4	2/16/2015
Chromium	**7.7**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**14**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**36**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**0.75**	**0.66**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.33	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**64**	**3.3**	**1.0**		**mg/Kg-dry**	4	2/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Acenaphthylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(a)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(b)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(g,h,i)perylene	ND	330	330		µg/Kg-dry	1	2/16/2015
Benzo(k)fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Chrysene	ND	330	330		µg/Kg-dry	1	2/16/2015
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluoranthene	ND	330	330		µg/Kg-dry	1	2/16/2015
Fluorene	ND	330	330		µg/Kg-dry	1	2/16/2015
Indeno(1,2,3-cd)pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Naphthalene	ND	330	330		µg/Kg-dry	1	2/16/2015
Phenanthrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Pyrene	ND	330	330		µg/Kg-dry	1	2/16/2015
Surr: 2,4,6-Tribromophenol	*76.6*	*34-140*			*%REC*	1	2/16/2015
Surr: 2-Fluorobiphenyl	*61.0*	*12-100*			*%REC*	1	2/16/2015
Surr: 2-Fluorophenol	*60.8*	*33-117*			*%REC*	1	2/16/2015
Surr: 4-Terphenyl-d14	*89.4*	*25-137*			*%REC*	1	2/16/2015
Surr: Nitrobenzene-d5	*57.1*	*37-107*			*%REC*	1	2/16/2015
Surr: Phenol-d6	*58.8*	*40-106*			*%REC*	1	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**17**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-14 (2'-3')
Work Order:	1502466	**Collection Date:**	2/10/2015 4:35:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-17	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	**0.13**	**0.050**	**0.050**		**mg/Kg-dry**	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**24**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**100**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	**0.93**	**0.65**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Chromium	**8.8**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**69**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**140**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**2.1**	**0.65**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.32	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**180**	**3.2**	**1.0**		**mg/Kg-dry**	4	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**17**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-15 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 4:55:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-18	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	**0.11**	**0.050**	**0.050**		**mg/Kg-dry**	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**11**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**84**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	**0.64**	**0.63**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Chromium	**12**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**48**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**44**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**0.95**	**0.63**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.32	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**140**	**3.2**	**1.0**		**mg/Kg-dry**	4	2/16/2015
SEMI-VOLATILE ORGANIC COMPOUNDS			**SW846 8270D**		Prep Date:	**2/13/2015**	Analyst: **RS**
2-Chloronaphthalene	ND	330	330		µg/Kg-dry	10	2/16/2015
2-Methylnaphthalene	ND	330	330		µg/Kg-dry	10	2/16/2015
Acenaphthene	ND	330	330		µg/Kg-dry	10	2/16/2015
Acenaphthylene	ND	330	330		µg/Kg-dry	10	2/16/2015
Anthracene	ND	330	330		µg/Kg-dry	10	2/16/2015
Benzo(a)anthracene	**1,200**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(a)pyrene	**1,400**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(b)fluoranthene	**1,900**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(g,h,i)perylene	**1,100**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Benzo(k)fluoranthene	**750**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Chrysene	**1,200**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Dibenzo(a,h)anthracene	ND	330	330		µg/Kg-dry	10	2/16/2015
Fluoranthene	**2,200**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Fluorene	ND	330	330		µg/Kg-dry	10	2/16/2015
Indeno(1,2,3-cd)pyrene	**1,400**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Naphthalene	ND	330	330		µg/Kg-dry	10	2/16/2015
Phenanthrene	**1,200**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Pyrene	**1,800**	**330**	**330**		**µg/Kg-dry**	10	2/16/2015
Surr: 2,4,6-Tribromophenol	*89.8*	*34-140*			*%REC*	10	2/16/2015
Surr: 2-Fluorobiphenyl	*72.2*	*12-100*			*%REC*	10	2/16/2015
Surr: 2-Fluorophenol	*73.6*	*33-117*			*%REC*	10	2/16/2015
Surr: 4-Terphenyl-d14	*97.6*	*25-137*			*%REC*	10	2/16/2015
Surr: Nitrobenzene-d5	*66.0*	*37-107*			*%REC*	10	2/16/2015
Surr: Phenol-d6	*67.0*	*40-106*			*%REC*	10	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**16**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-16 (1'-2')
Work Order:	1502466	**Collection Date:**	2/10/2015 4:45:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-19	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	ND	0.050	0.050		mg/Kg-dry	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**9.2**	**1.6**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**100**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	ND	0.65	0.20		mg/Kg-dry	4	2/16/2015
Chromium	**7.2**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**32**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**100**	**1.6**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**1.1**	**0.65**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.33	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**190**	**3.3**	**1.0**		**mg/Kg-dry**	4	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**15**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: *19-Feb-15*

Client:	Villa Environmental Consultants, Inc.	**Client Sample ID:**	SB-17 (0'-1')
Work Order:	1502466	**Collection Date:**	2/10/2015 5:00:00 PM
Project:	Overton Phase II 13-373-02		
Lab ID:	1502466-20	**Matrix:**	SOIL

Analyses	Result	Report Limit	MDEQ OP Memo 2 TDL	Qual	Units	Dilution Factor	Date Analyzed
MERCURY BY CVAA			**SW7471**		Prep Date:	**2/17/2015**	Analyst: **LR**
Mercury	**0.13**	**0.050**	**0.050**		**mg/Kg-dry**	1	2/17/2015
METALS BY ICP-MS			**SW6020A**		Prep Date:	**2/13/2015**	Analyst: **ML**
Arsenic	**6.4**	**1.7**	**0.10**		**mg/Kg-dry**	4	2/16/2015
Barium	**120**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Cadmium	**2.2**	**0.69**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Chromium	**8.7**	**2.0**	**2.0**		**mg/Kg-dry**	4	2/16/2015
Copper	**120**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Lead	**140**	**1.7**	**1.0**		**mg/Kg-dry**	4	2/16/2015
Selenium	**1.6**	**0.69**	**0.20**		**mg/Kg-dry**	4	2/16/2015
Silver	ND	0.34	0.10		mg/Kg-dry	4	2/16/2015
Zinc	**180**	**3.4**	**1.0**		**mg/Kg-dry**	4	2/16/2015
MOISTURE			**E160.3M**				Analyst: **EVB**
Moisture	**16**	**0.050**	**0**		**% of sample**	1	2/13/2015

Note: See Qualifiers page for a list of qualifiers and their definitions.

ALS Group USA, Corp

Date: 19-Feb-15

Client: Villa Environmental Consultants, Inc.
Project: Overton Phase II 13-373-02
WorkOrder: **1502466**

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte is present at an estimated concentration between the MDL and Report Limit
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
LOD	Limit of Detection (see MDL)
LOQ	Limit of Quantitation (see PQL)
MBLK	Method Blank
MDL	Method Detection Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
TDL	Target Detection Limit
TNTC	Too Numerous To Count
A	APHA Standard Methods
D	ASTM
E	EPA
SW	SW-846 Update III

Units Reported	Description
% of sample	Percent of Sample
µg/Kg-dry	Micrograms per Kilogram Dry Weight
mg/Kg-dry	Milligrams per Kilogram Dry Weight

ALS Group USA, Corp

Date: 19-Feb-15

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67705** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-67705-67705** Units: **mg/Kg** Analysis Date: **2/16/2015 01:31 PM**
Client ID: Run ID: **HG1_150216A** SeqNo: **3144434** Prep Date: **2/16/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS Sample ID: **LCS-67705-67705** Units: **mg/Kg** Analysis Date: **2/16/2015 01:33 PM**
Client ID: Run ID: **HG1_150216A** SeqNo: **3144435** Prep Date: **2/16/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1757	0.020	0.1665	0	106	80-120	0			

MS Sample ID: **15011096-01BMS** Units: **mg/Kg** Analysis Date: **2/16/2015 01:37 PM**
Client ID: Run ID: **HG1_150216A** SeqNo: **3144437** Prep Date: **2/16/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1438	0.016	0.1294	-0.0005148	112	75-125	0			

MSD Sample ID: **15011096-01BMSD** Units: **mg/Kg** Analysis Date: **2/16/2015 01:40 PM**
Client ID: Run ID: **HG1_150216A** SeqNo: **3144438** Prep Date: **2/16/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1411	0.015	0.1276	-0.0005148	111	75-125	0.1438	1.96	35	

The following samples were analyzed in this batch:

1502466-01A	1502466-02A	1502466-03A
1502466-04A	1502466-05A	1502466-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67775** Instrument ID **HG1** Method: **SW7471**

MBLK Sample ID: **MBLK-67775-67775** Units: **mg/Kg** Analysis Date: **2/17/2015 03:14 PM**
Client ID: Run ID: **HG1_150217A** SeqNo: **3146374** Prep Date: **2/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	ND	0.020								

LCS Sample ID: **LCS-67775-67775** Units: **mg/Kg** Analysis Date: **2/17/2015 03:16 PM**
Client ID: Run ID: **HG1_150217A** SeqNo: **3146375** Prep Date: **2/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1723	0.020	0.1665	0	104	80-120	0			

MS Sample ID: **1502495-10BMS** Units: **mg/Kg** Analysis Date: **2/17/2015 03:21 PM**
Client ID: Run ID: **HG1_150217A** SeqNo: **3146377** Prep Date: **2/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1251	0.012	0.1014	0.08381	40.7	75-125	0			S

MSD Sample ID: **1502495-10BMSD** Units: **mg/Kg** Analysis Date: **2/17/2015 03:23 PM**
Client ID: Run ID: **HG1_150217A** SeqNo: **3146378** Prep Date: **2/17/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Mercury	0.1284	0.012	0.1001	0.08381	44.5	75-125	0.1251	2.59	35	S

The following samples were analyzed in this batch:

1502466-07A	1502466-08A	1502466-09A
1502466-10A	1502466-11A	1502466-12A
1502466-13A	1502466-14A	1502466-15A
1502466-16A	1502466-17A	1502466-18A
1502466-19A	1502466-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67660** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-67660-67660** Units: **mg/Kg** Analysis Date: **2/13/2015 02:06 AM**
Client ID: Run ID: **ICPMS1_150212A** SeqNo: **3142354** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	ND	0.25								
Zinc	ND	0.50								

MBLK Sample ID: **MBLK-67660-67660** Units: **mg/Kg** Analysis Date: **2/13/2015 07:32 PM**
Client ID: Run ID: **ICPMS1_150213A** SeqNo: **3143406** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Barium	ND	0.25								

LCS Sample ID: **LCS-67660-67660** Units: **mg/Kg** Analysis Date: **2/13/2015 02:43 AM**
Client ID: Run ID: **ICPMS1_150212A** SeqNo: **3142359** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.416	0.25	5	0	88.3	80-120	0			
Barium	4.705	0.25	5	0	94.1	80-120	0			B
Cadmium	4.773	0.10	5	0	95.5	80-120	0			
Chromium	4.788	0.25	5	0	95.8	80-120	0			
Copper	4.685	0.25	5	0	93.7	80-120	0			
Lead	4.686	0.25	5	0	93.7	80-120	0			
Zinc	4.668	0.50	5	0	93.4	80-120	0			

LCS Sample ID: **LCS-67660-67660** Units: **mg/Kg** Analysis Date: **2/13/2015 07:56 PM**
Client ID: Run ID: **ICPMS1_150213A** SeqNo: **3143417** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	4.112	0.25	5	0	82.2	80-120	0			

LCS Sample ID: **LCS-67660-67660** Units: **mg/Kg** Analysis Date: **2/16/2015 04:51 PM**
Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3144986** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	5.17	0.25	5	0	103	80-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67660** Instrument ID **ICPMS1** Method: **SW6020A**

MS Sample ID: **1502475-02AMS** Units: **mg/Kg** Analysis Date: **2/13/2015 03:01 AM**
Client ID: Run ID: **ICPMS1_150212A** SeqNo: **3142363** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.889	0.33	6.596	1.347	99.2	75-125	0			
Barium	18.88	0.33	6.596	7.754	169	75-125	0			BS
Cadmium	6.689	0.13	6.596	0.05642	101	75-125	0			
Chromium	9.136	0.33	6.596	4.576	69.1	75-125	0			S
Copper	6.867	0.33	6.596	1.794	76.9	75-125	0			
Lead	7.731	0.33	6.596	1.723	91.1	75-125	0			
Zinc	31.39	0.66	6.596	27.36	60.9	75-125	0			SO

MS Sample ID: **1502475-02AMS** Units: **mg/Kg** Analysis Date: **2/13/2015 08:08 PM**
Client ID: Run ID: **ICPMS1_150213A** SeqNo: **3143422** Prep Date: **2/12/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	7.289	3.3	6.596	0.4694	103	75-125	0			

MS Sample ID: **1502475-02AMS** Units: **mg/Kg** Analysis Date: **2/16/2015 06:34 PM**
Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3145465** Prep Date: **2/12/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	6.788	3.3	6.596	0.02818	102	75-125	0			

MSD Sample ID: **1502475-02AMSD** Units: **mg/Kg** Analysis Date: **2/13/2015 03:08 AM**
Client ID: Run ID: **ICPMS1_150212A** SeqNo: **3142365** Prep Date: **2/12/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	7.042	0.33	6.588	1.347	86.5	75-125	7.889	11.3	25	
Barium	15.45	0.33	6.588	7.754	117	75-125	18.88	20	25	B
Cadmium	6.204	0.13	6.588	0.05642	93.3	75-125	6.689	7.51	25	
Chromium	10.28	0.33	6.588	4.576	86.6	75-125	9.136	11.8	25	
Copper	6.792	0.33	6.588	1.794	75.9	75-125	6.867	1.1	25	
Lead	7.213	0.33	6.588	1.723	83.3	75-125	7.731	6.92	25	
Zinc	31.54	0.66	6.588	27.36	63.4	75-125	31.39	0.497	25	SO

MSD Sample ID: **1502475-02AMSD** Units: **mg/Kg** Analysis Date: **2/13/2015 08:14 PM**
Client ID: Run ID: **ICPMS1_150213A** SeqNo: **3143424** Prep Date: **2/12/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Selenium	6.891	3.3	6.588	0.4694	97.5	75-125	7.289	5.62	25	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67660** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1502475-02AMSD** Units: **mg/Kg** Analysis Date: **2/16/2015 06:40 PM**

Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3145467** Prep Date: **2/12/2015** DF: **10**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Silver	6.22	3.3	6.588	0.02818	94	75-125	6.788	8.73	25	

The following samples were analyzed in this batch:

1502466-01A	1502466-02A	1502466-03A
1502466-04A	1502466-05A	1502466-06A
1502466-07A	1502466-08A	1502466-09A
1502466-10A	1502466-11A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67695** Instrument ID **ICPMS1** Method: **SW6020A**

MBLK Sample ID: **MBLK-67695-67695** Units: **mg/Kg** Analysis Date: **2/16/2015 01:55 PM**

Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3144761** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	ND	0.25								
Barium	ND	0.25								
Cadmium	ND	0.10								
Chromium	ND	0.25								
Copper	ND	0.25								
Lead	ND	0.25								
Selenium	ND	0.25								
Silver	0.004301	0.25								J
Zinc	ND	0.50								

LCS Sample ID: **LCS-67695-67695** Units: **mg/Kg** Analysis Date: **2/16/2015 02:01 PM**

Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3144771** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	4.476	0.25	5	0	89.5	80-120	0			
Barium	4.568	0.25	5	0	91.4	80-120	0			
Cadmium	4.686	0.10	5	0	93.7	80-120	0			
Chromium	4.973	0.25	5	0	99.5	80-120	0			
Copper	4.916	0.25	5	0	98.3	80-120	0			
Lead	4.694	0.25	5	0	93.9	80-120	0			
Selenium	4.878	0.25	5	0	97.6	80-120	0			
Silver	4.814	0.25	5	0	96.3	80-120	0			
Zinc	4.808	0.50	5	0	96.2	80-120	0			

MS Sample ID: **1502468-01AMS** Units: **mg/Kg** Analysis Date: **2/16/2015 02:49 PM**

Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3144788** Prep Date: **2/13/2015** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	240.5	1.3	6.623	227.9	190	75-125	0			SO
Barium	173.4	1.3	6.623	160.6	192	75-125	0			SO
Cadmium	19.7	0.53	6.623	13.08	99.8	75-125	0			
Chromium	62.17	1.3	6.623	62.03	2.08	75-125	0			SO
Copper	192.6	1.3	6.623	206.4	-208	75-125	0			SO
Lead	462	1.3	6.623	451.3	162	75-125	0			SO
Selenium	6.477	1.3	6.623	1.306	78.1	75-125	0			
Silver	10.01	1.3	6.623	5.575	66.9	75-125	0			S
Zinc	3460	2.6	6.623	3876	-6280	75-125	0			SEO

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67695** Instrument ID **ICPMS1** Method: **SW6020A**

MSD Sample ID: **1502468-01AMSD** Units: **mg/Kg** Analysis Date: **2/16/2015 02:55 PM**

Client ID: Run ID: **ICPMS1_150216A** SeqNo: **3144789** Prep Date: **2/13/2015** DF: **4**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Arsenic	237.3	1.3	6.562	227.9	144	75-125	240.5	1.32	25	SO
Barium	170.6	1.3	6.562	160.6	152	75-125	173.4	1.6	25	SO
Cadmium	19.48	0.52	6.562	13.08	97.5	75-125	19.7	1.1	25	
Chromium	65.17	1.3	6.562	62.03	47.8	75-125	62.17	4.71	25	SO
Copper	202.3	1.3	6.562	206.4	-62.6	75-125	192.6	4.89	25	SO
Lead	458.8	1.3	6.562	451.3	115	75-125	462	0.694	25	O
Selenium	7.472	1.3	6.562	1.306	94	75-125	6.477	14.3	25	
Silver	10.52	1.3	6.562	5.575	75.3	75-125	10.01	4.96	25	
Zinc	3667	2.6	6.562	3876	-3190	75-125	3460	5.81	25	SEO

The following samples were analyzed in this batch:

1502466-12A	1502466-13A	1502466-14A
1502466-15A	1502466-16A	1502466-17A
1502466-18A	1502466-19A	1502466-20A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67688** Instrument ID **SVMS4** Method: **SW846 8270D**

MBLK Sample ID: **SBLKS1-67688-67688** Units: **µg/Kg** Analysis Date: **2/16/2015 01:30 PM**

Client ID: Run ID: **SVMS4_150216A** SeqNo: **3146116** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	ND	6.7								
2-Methylnaphthalene	ND	6.7								
Acenaphthene	ND	6.7								
Acenaphthylene	ND	6.7								
Anthracene	ND	6.7								
Benzo(a)anthracene	ND	6.7								
Benzo(a)pyrene	ND	6.7								
Benzo(b)fluoranthene	ND	6.7								
Benzo(g,h,i)perylene	ND	6.7								
Benzo(k)fluoranthene	ND	6.7								
Chrysene	ND	6.7								
Dibenzo(a,h)anthracene	ND	6.7								
Fluoranthene	ND	6.7								
Fluorene	ND	6.7								
Indeno(1,2,3-cd)pyrene	ND	6.7								
Naphthalene	ND	6.7								
Phenanthrene	ND	6.7								
Pyrene	ND	6.7								
Surr: 2,4,6-Tribromophenol	*914.7*	0	*1667*	0	*54.9*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*954.3*	0	*1667*	0	*57.3*	*12-100*	0			
Surr: 2-Fluorophenol	*1034*	0	*1667*	0	*62.1*	*33-117*	0			
Surr: 4-Terphenyl-d14	*1696*	0	*1667*	0	*102*	*25-137*	0			
Surr: Nitrobenzene-d5	*966.7*	0	*1667*	0	*58*	*37-107*	0			
Surr: Phenol-d6	*986.7*	0	*1667*	0	*59.2*	*40-106*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67688** Instrument ID **SVMS4** Method: **SW846 8270D**

LCS Sample ID: **SLCSS1-67688-67688** Units: **µg/Kg** Analysis Date: **2/16/2015 01:56 PM**

Client ID: Run ID: **SVMS4_150216A** SeqNo: **3146119** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	537	6.7	666.7	0	80.5	45-105	0			
2-Methylnaphthalene	530	6.7	666.7	0	79.5	45-105	0			
Acenaphthene	503.3	6.7	666.7	0	75.5	45-110	0			
Acenaphthylene	512	6.7	666.7	0	76.8	45-105	0			
Anthracene	627.3	6.7	666.7	0	94.1	55-105	0			
Benzo(a)anthracene	571.3	6.7	666.7	0	85.7	50-110	0			
Benzo(a)pyrene	581	6.7	666.7	0	87.1	50-110	0			
Benzo(b)fluoranthene	594.7	6.7	666.7	0	89.2	45-115	0			
Benzo(g,h,i)perylene	656.3	6.7	666.7	0	98.4	40-125	0			
Benzo(k)fluoranthene	600.7	6.7	666.7	0	90.1	45-115	0			
Chrysene	628.3	6.7	666.7	0	94.2	55-110	0			
Dibenzo(a,h)anthracene	666	6.7	666.7	0	99.9	40-125	0			
Fluoranthene	585	6.7	666.7	0	87.7	55-115	0			
Fluorene	557.7	6.7	666.7	0	83.6	50-110	0			
Indeno(1,2,3-cd)pyrene	668.3	6.7	666.7	0	100	40-120	0			
Naphthalene	492.7	6.7	666.7	0	73.9	40-105	0			
Phenanthrene	559	6.7	666.7	0	83.8	50-110	0			
Pyrene	636.3	6.7	666.7	0	95.4	45-125	0			
Surr: 2,4,6-Tribromophenol	*1388*	0	*1667*	0	*83.3*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*1228*	0	*1667*	0	*73.7*	*12-100*	0			
Surr: 2-Fluorophenol	*1324*	0	*1667*	0	*79.4*	*33-117*	0			
Surr: 4-Terphenyl-d14	*1710*	0	*1667*	0	*103*	*25-137*	0			
Surr: Nitrobenzene-d5	*1192*	0	*1667*	0	*71.5*	*37-107*	0			
Surr: Phenol-d6	*1259*	0	*1667*	0	*75.5*	*40-106*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67688** Instrument ID **SVMS4** Method: **SW846 8270D**

MS Sample ID: **1502466-13A MS** Units: **µg/Kg** Analysis Date: **2/16/2015 04:18 PM**

Client ID: **SB-21 (1'-2')** Run ID: **SVMS4_150216A** SeqNo: **3146121** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	950.5	13	1293	0	73.5	45-105	0			
2-Methylnaphthalene	951.1	13	1293	14.38	72.4	45-105	0			
Acenaphthene	912.3	13	1293	0	70.5	45-110	0			
Acenaphthylene	918.1	13	1293	26.14	69	45-105	0			
Anthracene	1183	13	1293	11.44	90.6	55-105	0			
Benzo(a)anthracene	1138	13	1293	55.55	83.7	50-110	0			
Benzo(a)pyrene	1166	13	1293	80.06	84	50-110	0			
Benzo(b)fluoranthene	1168	13	1293	82.02	84	45-115	0			
Benzo(g,h,i)perylene	1223	13	1293	58.82	90	40-125	0			
Benzo(k)fluoranthene	1118	13	1293	45.09	83	45-115	0			
Chrysene	1187	13	1293	45.09	88.3	55-110	0			
Dibenzo(a,h)anthracene	1177	13	1293	0	91	40-125	0			
Fluoranthene	1200	13	1293	85.61	86.2	55-115	0			
Fluorene	1024	13	1293	0	79.2	50-110	0			
Indeno(1,2,3-cd)pyrene	1260	13	1293	84.31	90.9	40-120	0			
Naphthalene	856.1	13	1293	0	66.2	40-105	0			
Phenanthrene	1102	13	1293	46.73	81.6	50-110	0			
Pyrene	1234	13	1293	76.14	89.5	45-125	0			
Surr: 2,4,6-Tribromophenol	*2879*	0	*3233*	0	*89.1*	*34-140*	0			
Surr: 2-Fluorobiphenyl	*2139*	0	*3233*	0	*66.2*	*12-100*	0			
Surr: 2-Fluorophenol	*2276*	0	*3233*	0	*70.4*	*33-117*	0			
Surr: 4-Terphenyl-d14	*3032*	0	*3233*	0	*93.8*	*25-137*	0			
Surr: Nitrobenzene-d5	*2127*	0	*3233*	0	*65.8*	*37-107*	0			
Surr: Phenol-d6	*2092*	0	*3233*	0	*64.7*	*40-106*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67688** Instrument ID **SVMS4** Method: **SW846 8270D**

MSD Sample ID: **1502466-13A MSD** Units: **µg/Kg** Analysis Date: **2/16/2015 04:44 PM**

Client ID: **SB-21 (1'-2')** Run ID: **SVMS4_150216A** SeqNo: **3146122** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
2-Chloronaphthalene	856.4	13	1290	0	66.4	45-105	950.5	10.4	30	
2-Methylnaphthalene	897.1	13	1290	14.38	68.4	45-105	951.1	5.85	30	
Acenaphthene	897.1	13	1290	0	69.5	45-110	912.3	1.69	30	
Acenaphthylene	899	13	1290	26.14	67.7	45-105	918.1	2.11	30	
Anthracene	1161	13	1290	11.44	89.2	55-105	1183	1.86	30	
Benzo(a)anthracene	1014	13	1290	55.55	74.3	50-110	1138	11.5	30	
Benzo(a)pyrene	999	13	1290	80.06	71.2	50-110	1166	15.4	30	
Benzo(b)fluoranthene	1029	13	1290	82.02	73.4	45-115	1168	12.7	30	
Benzo(g,h,i)perylene	1020	13	1290	58.82	74.5	40-125	1223	18.1	30	
Benzo(k)fluoranthene	933.8	13	1290	45.09	68.9	45-115	1118	17.9	30	
Chrysene	1055	13	1290	45.09	78.3	55-110	1187	11.8	30	
Dibenzo(a,h)anthracene	986.1	13	1290	0	76.4	40-125	1177	17.6	30	
Fluoranthene	1097	13	1290	85.61	78.4	55-115	1200	8.97	30	
Fluorene	991.9	13	1290	0	76.9	50-110	1024	3.21	30	
Indeno(1,2,3-cd)pyrene	1061	13	1290	84.31	75.7	40-120	1260	17.2	30	
Naphthalene	831.9	13	1290	0	64.5	40-105	856.1	2.86	30	
Phenanthrene	1070	13	1290	46.73	79.3	50-110	1102	2.93	30	
Pyrene	1105	13	1290	76.14	79.8	45-125	1234	11	30	
Surr: 2,4,6-Tribromophenol	*2673*	0	*3225*	0	*82.9*	*34-140*	2879	*7.45*	*40*	
Surr: 2-Fluorobiphenyl	*2002*	0	*3225*	0	*62.1*	*12-100*	2139	*6.62*	*40*	
Surr: 2-Fluorophenol	*2140*	0	*3225*	0	*66.4*	*33-117*	2276	*6.14*	*40*	
Surr: 4-Terphenyl-d14	*2843*	0	*3225*	0	*88.2*	*25-137*	3032	*6.46*	*40*	
Surr: Nitrobenzene-d5	*2032*	0	*3225*	0	*63*	*37-107*	2127	*4.57*	*40*	
Surr: Phenol-d6	*2019*	0	*3225*	0	*62.6*	*40-106*	2092	*3.53*	*40*	

The following samples were analyzed in this batch:

1502466-08A	1502466-09A	1502466-11A
1502466-13A	1502466-16A	1502466-18A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67694** Instrument ID **VMS7** Method: **SW8260B**

MBLK Sample ID: **MBLK-67694-67694** Units: **µg/Kg** Analysis Date: **2/13/2015 01:24 PM**

Client ID: Run ID: **VMS7_150213A** SeqNo: **3143936** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	ND	30								
1,3,5-Trimethylbenzene	ND	30								
2-Methylnaphthalene	ND	100								
Benzene	ND	30								
Ethylbenzene	ND	30								
m,p-Xylene	ND	60								
Methyl tert-butyl ether	ND	30								
Naphthalene	ND	100								
o-Xylene	ND	30								
Toluene	ND	30								
Xylenes, Total	ND	90								
Surr: 1,2-Dichloroethane-d4	*961*	0	*1000*	0	*96.1*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*990.5*	0	*1000*	0	*99*	*70-130*	0			
Surr: Dibromofluoromethane	*974.5*	0	*1000*	0	*97.4*	*70-130*	0			
Surr: Toluene-d8	*961.5*	0	*1000*	0	*96.2*	*70-130*	0			

LCS Sample ID: **LCS-67694-67694** Units: **µg/Kg** Analysis Date: **2/13/2015 11:43 AM**

Client ID: Run ID: **VMS7_150213A** SeqNo: **3143933** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	876.5	30	1000	0	87.6	65-135	0			
1,3,5-Trimethylbenzene	974.5	30	1000	0	97.4	65-135	0			
Benzene	947.5	30	1000	0	94.8	75-125	0			
Ethylbenzene	958.5	30	1000	0	95.8	75-125	0			
m,p-Xylene	1898	60	2000	0	94.9	80-125	0			
Methyl tert-butyl ether	994	30	1000	0	99.4	75-125	0			
Naphthalene	977	100	1000	0	97.7	40-140	0			
o-Xylene	956.5	30	1000	0	95.6	75-125	0			
Toluene	937	30	1000	0	93.7	70-125	0			
Xylenes, Total	2855	90	3000	0	95.2	75-125	0			
Surr: 1,2-Dichloroethane-d4	*946.5*	0	*1000*	0	*94.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*967*	0	*1000*	0	*96.7*	*70-130*	0			
Surr: Dibromofluoromethane	*1004*	0	*1000*	0	*100*	*70-130*	0			
Surr: Toluene-d8	*963*	0	*1000*	0	*96.3*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **67694** Instrument ID **VMS7** Method: **SW8260B**

MS Sample ID: **1502495-27A MS** Units: **µg/Kg** Analysis Date: **2/14/2015 09:19 AM**

Client ID: Run ID: **VMS6_150213A** SeqNo: **3144221** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	1018	30	1000	0	102	65-135	0			
1,3,5-Trimethylbenzene	994	30	1000	0	99.4	65-135	0			
Benzene	1065	30	1000	0	106	75-125	0			
Ethylbenzene	1116	30	1000	0	112	75-125	0			
m,p-Xylene	2181	60	2000	0	109	80-125	0			
Methyl tert-butyl ether	939	30	1000	0	93.9	75-125	0			
Naphthalene	1220	100	1000	0	122	40-140	0			
o-Xylene	1058	30	1000	0	106	75-125	0			
Toluene	1072	30	1000	0	107	70-125	0			
Xylenes, Total	3240	90	3000	0	108	75-125	0			
Surr: 1,2-Dichloroethane-d4	*946.5*	0	*1000*	0	*94.6*	*70-130*	0			
Surr: 4-Bromofluorobenzene	*976*	0	*1000*	0	*97.6*	*70-130*	0			
Surr: Dibromofluoromethane	*1047*	0	*1000*	0	*105*	*70-130*	0			
Surr: Toluene-d8	*982.5*	0	*1000*	0	*98.2*	*70-130*	0			

MSD Sample ID: **1502495-27A MSD** Units: **µg/Kg** Analysis Date: **2/14/2015 09:45 AM**

Client ID: Run ID: **VMS6_150213A** SeqNo: **3144223** Prep Date: **2/13/2015** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1,2,4-Trimethylbenzene	933	30	1000	0	93.3	65-135	1018	8.71	30	
1,3,5-Trimethylbenzene	960.5	30	1000	0	96	65-135	994	3.43	30	
Benzene	992.5	30	1000	0	99.2	75-125	1065	7.05	30	
Ethylbenzene	1030	30	1000	0	103	75-125	1116	8.01	30	
m,p-Xylene	2050	60	2000	0	102	80-125	2181	6.22	30	
Methyl tert-butyl ether	967.5	30	1000	0	96.8	75-125	939	2.99	30	
Naphthalene	1147	100	1000	0	115	40-140	1220	6.13	30	
o-Xylene	998	30	1000	0	99.8	75-125	1058	5.88	30	
Toluene	1001	30	1000	0	100	70-125	1072	6.8	30	
Xylenes, Total	3048	90	3000	0	102	75-125	3240	6.11	30	
Surr: 1,2-Dichloroethane-d4	*950.5*	0	*1000*	0	*95*	*70-130*	946.5	*0.422*	*30*	
Surr: 4-Bromofluorobenzene	*973.5*	0	*1000*	0	*97.4*	*70-130*	976	*0.256*	*30*	
Surr: Dibromofluoromethane	*1046*	0	*1000*	0	*105*	*70-130*	1047	*0.0956*	*30*	
Surr: Toluene-d8	*983*	0	*1000*	0	*98.3*	*70-130*	982.5	*0.0509*	*30*	

The following samples were analyzed in this batch: 1502466-14B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Villa Environmental Consultants, Inc.
Work Order: 1502466
Project: Overton Phase II 13-373-02

QC BATCH REPORT

Batch ID: **R157550** Instrument ID **MOIST** Method: **E160.3M**

MBLK Sample ID: **WBLKS-R157550** Units: **% of sample** Analysis Date: **2/13/2015 03:45 PM**

Client ID: Run ID: **MOIST_150213B** SeqNo: **3144182** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	0.03	0.050								J

LCS Sample ID: **LCS-R157550** Units: **% of sample** Analysis Date: **2/13/2015 03:45 PM**

Client ID: Run ID: **MOIST_150213B** SeqNo: **3144181** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	100	0.050	100	0	100	99.5-100.5	0			

DUP Sample ID: **1502466-01A DUP** Units: **% of sample** Analysis Date: **2/13/2015 03:45 PM**

Client ID: **SB-1 (0.5'-1.5')** Run ID: **MOIST_150213B** SeqNo: **3144160** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	12.85	0.050	0	0	0		13.34	3.74	20	

DUP Sample ID: **1502466-11A DUP** Units: **% of sample** Analysis Date: **2/13/2015 03:45 PM**

Client ID: **SB-19 (1'-2')** Run ID: **MOIST_150213B** SeqNo: **3144171** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Moisture	17.9	0.050	0	0	0		17.22	3.87	20	

The following samples were analyzed in this batch:

1502466-01A	1502466-02A	1502466-03A
1502466-04A	1502466-05A	1502466-06A
1502466-07A	1502466-08A	1502466-09A
1502466-10A	1502466-11A	1502466-12A
1502466-13A	1502466-14A	1502466-15A
1502466-16A	1502466-17A	1502466-18A
1502466-19A	1502466-20A	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

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Chain of Custody Form

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COC ID: 20113

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ALS Project Manager: | ALS Work Order #: 1502466

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Overton PhII	A	MI 10 Metals
Work Order		Project Number	13-373-02	B	PNAs
Company Name		Bill To Company	Ville	C	
Send Report To		Invoice Attn	Steve Dehring	D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone	269-927-2434	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	SB-1 (0.5'-1.5')	2-9-15	1130	SO	None	1	X										
2	SB-2 (1'-2')		1215			1	X										
3	SB-3 (1'-2')		1150			1	X										
4	SB-4 (0'-1')		1250			1	X										
5	SB-5 (1'-2')		1310			1	X										
6	SB-6 (1'-2')		1330			1	X										
7	SB-7 (0'-1')		1400			1	X										
8	SB-8 (0'-1')		1410			1	X	X									
9	SB-9 (1.5'-2')					1	X	X									
10	~~SB-10~~ SB-18 (1'-2')	2/10/15	0950				X										

Sampler(s) Please Print & Sign: Stephen Dehring

Shipment Method: Courier

Required Turnaround Time: (Check Box) ☐ Other ____ ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date: 2-11-15	Time: 1155	Received by:
Relinquished by:	Date: 2-11-15	Time: 1300	Received by (Laboratory):
Logged by (Laboratory): KW	Date: 2/12/15	Time: 0800	Checked by (Laboratory):

Notes:

Cooler ID	Cooler Temp
	4.0°C

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other ____

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Chain of Custody Form

Page 2 of 2

COC ID: 20114

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ALS Project Manager:

ALS Work Order #: 1502466

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Overton Ph. II	A	MI 10 Metals
Work Order		Project Number	13-373-02	B	PNAs
Company Name		Bill To Company	Villa	C	Unleaded Gasoline Parameters
Send Report To		Invoice Attn	Steve Dehring	D	
Address		Address		E	
				F	
City/State/Zip		City/State/Zip		G	
Phone		Phone	269-927-2434	H	
Fax		Fax		I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
11	SB-19 (1'-2')	2/10/15	0915	SO	None	1	X	X									
12	SB-20 (1'-2')	↓	1010	↓	↓	1	X										
13	SB-21 (1'-2')		1040		9	2	X	X	X								
14	SB-22 (0'-1')		1055		None	1	X		X								
15	SB-23 (1'-2')		1120		↓	1	X										
16	SB-24 (3'-4')	↓	1130	↓	↓	1	X	X									
17	SB-14 (2'-3')	2/10/15	1635	SO	NONE	1	X										
18	SB-15 (1'-2')	↓	1655	↓	↓	1	X	X									
19	SB-16 (1'-2')		1645			1	X										
20	SB-17 (0'-1')		1700			1	X										

Sampler(s) Please Print & Sign: Stephen Dehring

Shipment Method: Courier

Required Turnaround Time: (Check Box) ☐ Other ☐ STD 10 Wk Days ☒ 5 Wk Days ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

	Date	Time		
Relinquished by:	2-11-15	1155	Received by:	
Relinquished by:	2-11-15	1300	Received by (Laboratory):	
Logged by (Laboratory):	2/12/15	0800	Checked by (Laboratory):	

Notes:

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
☐ Level II Std QC ☐ TRRP Checklist
☐ Level III Std QC/Raw Date ☐ TRRP Level IV
☐ Level IV SW846/CLP
☐ Other

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Environmental.
2. Unless otherwise agreed in a formal contract, services provided by ALS Environmental are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

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Sample Receipt Checklist

Client Name: **VILLAENV** Date/Time Received: **11-Feb-15 13:00**

Work Order: **1502466** Received by: **KRW**

Checklist completed by Keith Wierenga (eSignature) 12-Feb-15 (Date) Reviewed by: Joseph Ribar (eSignature) 13-Feb-15 (Date)

Matrices: Soil
Carrier name: ALSHN

	Yes	No	Not Present
Shipping container/cooler in good condition?	☑	☐	☐
Custody seals intact on shipping container/cooler?	☐	☐	☑
Custody seals intact on sample bottles?	☐	☐	☑
Chain of custody present?	☑	☐	
Chain of custody signed when relinquished and received?	☑	☐	
Chain of custody agrees with sample labels?	☑	☐	
Samples in proper container/bottle?	☑	☐	
Sample containers intact?	☑	☐	
Sufficient sample volume for indicated test?	☑	☐	
All samples received within holding time?	☑	☐	
Container/Temp Blank temperature in compliance?	☑	☐	
Sample(s) received on ice?	☑	☐	

Temperature(s)/Thermometer(s): 4.0 C SR2

Cooler(s)/Kit(s):

Date/Time sample(s) sent to storage: 2/12/2015 8:28:38 AM

	Yes	No		
Water - VOA vials have zero headspace?	☐	☐	No VOA vials submitted	☑
Water - pH acceptable upon receipt?	☐	☐	N/A	☑
pH adjusted?	☐	☐	N/A	☑

pH adjusted by: -

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

APPENDIX D
Soil Boring Logs

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 7'	BORING NO.: SB-1 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.1'	Concrete				0						
0.1'	7'	"CL-ML" Brown moist, medium silty clay with trace fine sand				0						Hard @ 2'
7'	9'	"SP" Brown moist, poorly graded fine silty sand. Trace medium to coarse sand.				0						
9'	9.1'	2" gravel seam				0						
9.1'	12'	"CL-ML" Brown moist, hard silty clay with trace fine to medium sand				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 8'	BORING NO.: SB-2 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.1'	Concrete				0						
0.1'	8'	"CL-ML" Brown moist, hard silty clay. Trace fine sand. Orange and brown mottling.			1-2	0						Sampled 1'-2' Medium stiffness 4'-8'
8'	9'	"SP" Brown moist, poorly graded fine silty sand. Trace medium sand.				0						
9'	12'	"CL-ML" Brown moist, hard silty clay. Trace fine sand. Orange and brown mottling.				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 6.7'	BORING NO.: SB-3 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	1'	Concrete - 2 layers with a small amount of fill sand between				0						
1'	1.3'	"SP" Brown moist, poorly graded fine silty sand. Trace medium sand.			1'-2'	0						
1.3'	6.7'	"CL-ML" Brown moist, hard silty clay. Trace fine sand. Orange and brown mottling.				0						
6.7'	8.5'	"CL-ML" Same As Above with intermittent seams of "SP" Brown moist, poorly sorted fine silty sand. .				0						
8.5'	10.4'	"CL-ML" Brown, moist to wet, very soft silty clay. Some fine sand.				0						
10.4'	12'	"CL-ML" Brown, hard, moist silty clay. Trace fine to medium gravel. Orange mottling.				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 6.7'	BORING NO.: SB-4 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.1'	Concrete			0.1'-1'	0.2						
0.1'	0.3'	"FILL" Dark grey sandy silt. Moist, trace fine gravel				0						
0.3'	6.7	"CL-ML" Brown moist, stiff silty clay. Trace fine to medium sand. Light and dark grey mottling				0						
6.7'	7'	"SP" Brown moist, poorly graded fine silty sand. Some clay				0						
7'	12'	"CL-ML" Brown, moist, hard silty clay. Occasional light grey mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 6.6'	BORING NO.: SB-5 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.1'	Concrete				0						
0.1'	4.1'	"SP" Brown moist, poorly graded fine silty sand. Dark grey mottling			1'-2'	0						
4.1'	12'	"CL-ML" Brown moist, hard silty clay. Grey mottling				0						soft to medium at 6.6' to 7.5'

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 6.3'	BORING NO.: SB-6 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.1'	Concrete				0						
0.1'	5'	"CL-ML" Grayish brown moist, medium to stiff silty clay. Grey mottling			1'-2'	0						
5'	6.3'	Same as above, hard stiffness				0						
6.3'	12'	Same as above, medium stiffness				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

Y:\Projects\Geotechnical\2015 GE\South Haven, City of - PH II - 229 Elkenburg #13-373-02\Soil Borings\SB-6.wpd

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/9/15 PAGE 1 OF 1
TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 6.9'	BORING NO.: SB-7 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	6.9'	"SP" Light brown, moist, poorly graded fine silty sand			0'-1'	0						
6.9'	12'	"CL-ML" Brown moist, medium to soft silty clay. Grey and orange mottling.				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

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TOTAL DEPTH: 12 feet GROUNDWATER LEVEL: 10'	BORING NO.: SB-8 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	6'	"FILL" Tan, dry, poorly graded fine silty sand				0						
6'	7.3'	"FILL" Dark grey, moist, well graded fine to coarse silty sand			6'-7'	0						
7.3'	11'	"CL-ML" Grey moist, medium silty clay.				0						
11'	12'	"CL-ML" Brown, moist, hard silty clay. Grey mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 12 feet GROUNDWATER LEVEL:	BORING NO.: SB-9 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	0.5'	Concrete				0						
0.5'	2'	"SP" Light to reddish brown, moist, poorly graded fine silty sand				0						
2'	12'	"CL-ML" Brown, moist, hard silty clay. Grey mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 12 feet GROUNDWATER LEVEL:	BORING NO.: SB-10 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	1.5'	Dark brown loose organics. Loamy				0						
1.5'	12'	"CL-ML" Brown, moist, silty clay. Some fine gravel and pebbles. Grey and reddish mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-11 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	1'	Very dark brown to black loose organics. Loamy				0						
1'	8'	"CL-ML" Brown, moist, silty clay. Some fine gravel and pebbles. Grey and reddish mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-12 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	1'	Very dark brown to black loose organics. Loamy				0						
1'	8'	"CL-ML" Brown, moist, silty clay. Some fine gravel and pebbles. Grey and reddish mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-13 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	8'	Grayish brown fine silty sand, very moist				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 12 feet GROUNDWATER LEVEL:	BORING NO.: SB-14 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	2'	Dark brown to black loose organics. Loamy				0						
2'	3'	Black gritty coarse sand. Angular				0						
3'	5'	Sand, grades to light brown, silty clay. Gray-black zone leached from above				0						
5'	12'	Light brown hard silty clay. Grey and red mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-15 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	1'	Brown sand with loose organics. Loamy				0						
1'	3'	Brown to black gritty coarse sand. Angular				0						
3'	5'	Grayish black fine silty sand				0						
5'	8'	Light brown, moist, hard silty clay. Grey and red mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-16 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	1'	Brown sand with loose organics. Loamy				0						
1'	3'	Brown to black gritty coarse sand. Angular				0						
3'	5'	Grayish black fine silty sand				0						
5'	8'	Light brown, moist, hard silty clay. Grey and red mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-17 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	3'	Brown to black gritty coarse sand. Angular				0						
3'	4'	Grayish black fine silty sand				0						
4'	8'	Light brown, moist, hard silty clay. Grey and red mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-18 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	4'	"FILL" Brown to black gritty coarse silty sand. Angular			1'-2'	0						
4'	6.2'	"SP" Brown, moist, poorly graded fine silty sand. Black fill material has leached into this sand.				0						
6.2'	8'	"CL-ML" Brown, moist, stiff silty clay. Trace fine sand.				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL: 6 feet	BORING NO.: SB-19 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	2.8'	"FILL" Brown to black gritty coarse silty sand. Angular			1'-2'	0						
2.8'	3.2'	"SP" Brown, moist, poorly graded fine silty sand. Black fill material has leached into this sand.				0						
3.2'	8'	"CL-ML" Brown, moist, medium silty clay. Light grey mottling				0						Soft @ 6'-7' Hard @ 7'-8'

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/10/15 PAGE 1 OF 1
TOTAL DEPTH: 8 feet GROUNDWATER LEVEL: 4 feet	BORING NO.: SB-20 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	4'	"SP" Grey, moist, poorly graded fine silty sand.			1'-2'	0						
4'	6'	"CL-ML" Brown, moist to wet, soft to medium silty clay. Some fine sand.				0						
6'	8'	"CL-ML" Same as above. Stiff to hard, trace fine sand				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL: 4 feet	BORING NO.: SB-21 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	4'	"SP" Tan, moist, poorly graded fine silty sand.			1'-2'	0						
4'	6'	"CL-ML" Brown, moist to wet, soft to medium silty clay. Some fine sand.				0						
6'	8'	"CL-ML" Same as above. Stiff to hard, trace fine sand				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL: 4 feet	BORING NO.: SB-22 BORING TYPE: Direct Push

DEPTH		SOIL CLASSIFICATION	SAMPLE			PID (PPM)	MOISTURE	BLOW COUNT				MISC. NOTES
FROM	TO		TYPE	NUMBER	DEPTH			6"	6"	6"	6"	
0'	4'	"FILL" Brown to black gritty coarse silty sand. Angular			0'-1'	0						
4'	6'	"CL-ML" Brown, moist to wet, soft to medium silty clay. Some fine sand.				0						
6'	8'	"CL-ML" Same as above. Stiff to hard, trace fine sand				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

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TOTAL DEPTH: 8 feet GROUNDWATER LEVEL:	BORING NO.: SB-23 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	4'	"SP" Reddish brown fine silty sand with organics. Transitions to tan sand at 3.8'			0'-1'	0						
4'	8'	"CL-ML" Brown, moist to wet, soft to medium silty clay. Light grey mottling				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

VILLA ENVIRONMENTAL CONSULTANTS, INC. 408 W. MAIN STREET BENTON HARBOR, MI 49022 (269) 927-2434 (269) 927-2435 FAX	SITE: Overton Building LOCATION: 229 Elkenburg St., South Haven, MI PROJECT NO.: 13-373-02 DATE: 2/10/15 PAGE 1 OF 1
TOTAL DEPTH: 16 feet GROUNDWATER LEVEL: 6 feet	BORING NO.: SB-24 BORING TYPE: Direct Push

DEPTH FROM	DEPTH TO	SOIL CLASSIFICATION	SAMPLE TYPE	SAMPLE NUMBER	SAMPLE DEPTH	PID (PPM)	MOISTURE	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	BLOW COUNT 6"	MISC. NOTES
0'	3.2'	"FILL" Silty sand with little fine to medium gravel			0'-1'	0						
3.2'	3.5'	"FILL" Brown to black gritty coarse silty sand. Angular				0						
3.5'	7.5'	"CL-ML" Brown, moist, medium silty clay.				0						
7.5'	9'	"SP" Tan, wet, poorly graded fine silty sand				0						
9'	16'	"CL-ML" Brown, moist, hard silty clay				0						

GROUNDWATER DATA	SILTS AND CLAYS	SANDY SOILS	KEY	MOISTURE
	"N" CONSISTENCY 0-2 VERY SOFT 2-4 SOFT 4-8 MEDIUM STIFF 8-15 STIFF 15-30 VERY STIFF 30+ HARD	"N" RELATIVE DENSITY 0-3 VERY LOOSE 4-10 LOOSE 10-30 MEDIUM DENSE 30-50 DENSE 50 VERY DENSE	BG = BACKGROUND ND = NOT DETECTED Z = NONE S = SOIL A = WATER	D = DRY S = SLIGHTLY MOIST M = MOIST W = WET

ADVANCED BY: Geoserve, Inc

LOGGED BY: Steve Dehring

REMARKS:

Y:\Projects\Geotechnical\2015 GE\South Haven, City of - PH II - 229 Elkenburg #13-373-02\Soil Borings\SB-24.wpd

APPENDIX E
Resumes of Environmental Professionals

President
Villa Environmental Consultants, Inc.

EDUCATION Michigan State University
B.S. in Civil Engineering

PROFESSIONAL CERTIFICATIONS

- State of Michigan/AHERA: Asbestos: Inspector -Management Planner - Project Designer
- Certified Industrial Storm Water Operator
- Indoor Air Quality Updates and Seminars
- State of Indiana: Licensed Asbestos: Inspector

MEMBERSHIPS

- Michigan Minority Supplier Development Council (MMSDC)
- National Institute of Building Sciences
- Michigan School Business Officials: Associate Member
- Environmental Assessment Association
- Air & Waste Management Association
- National Institute of Building Sciences

EXPERIENCE (1979 to present)

Mr. Villa is responsible for managing and designing: asbestos removal projects, asbestos assessment, asbestos design according to AHERA, energy conservation construction, Phase I, II environmental site assessments, energy auditing and fuel storage tank removal and installation design projects. Developed in-depth energy analysis, Technical Assistance Energy Reports for buildings owned by schools, local units of government, industrial facilities, and commercial businesses.

Typical duties include preparing bid documents, specifications, project coordination, on-site review and administration for all types of environmental projects. Mr. Villa has developed and administered many asbestos-containing material surveys, assessments, abatement contract documents and procedures before and after the development of AHERA regulatory requirements.

Other environmental project implementation and management experience includes: indoor air quality assessments, Phase I surveys, Phase II investigation and reports, Phase III implementation and other regulatory investigations. Since 1979-1980, Mr. Villa has also been providing on-site investigations, developed detailed project specifications, new installation and remedial activities for underground and above ground storage tanks according to the applicable MDEQ regulations.

A brief overview of other environmental services Mr. Villa has managed include, but not limited to the following: Baseline Environmental Assessments, Storage tank compliance, feasibility, design, assessment, and management, Lead-based paint surveys and assessments (non-destructive/on-site), Clean Air Act assessment/testing, Storm water Permitting, Solid and hazardous waste management (PIPP, SWPPP), Industrial hygiene (noise, dust, emissions, etc.) and Process Safety Management of Highly Hazardous Chemicals

Project Geologist
Villa Environmental Consultants, Inc.

EDUCATION

- Albion College BA- 2006 - Major: Earth Science; Minor: Philosophy

PROFESSIONAL CERTIFICATIONS

- 40 hour OSHA HAZWOPER
- MDEQ Industrial Water Treatment Operator
- OSHA Site Supervisor

ADDITIONAL EDUCATION, TRAINING, AND SEMINARS

- 30 hour OSHA Construction Safety
- OSHA Confined Space
- Transportation Worker Identification Credential
- Asbestos Awareness and 6-Month Periodic Inspection Training (In House)
- Asbestos inspector initial training-EPA accredited

EXPERIENCE (2006-PRESENT)

- Conduct and oversee groundwater investigation and monitoring programs.
- Groundwater monitor well drilling, installation, development, and repairs.
- Oversight of drilling crews for hollow stem, direct push, and sonic drilling technologies.
- Perform environmental subsurface soil investigations and delineations. Also completed geotechnical soil investigations for an energy company for substation and high tension power line foundation design.
- Classify soils using the Unified Soil Classification System (USCS).
- Conduct hazardous waste inventories on several large manufacturing facilities.
- Phase I environmental site assessment investigation and report assistance.
- Oversee facility and equipment decommissioning.
- Perform air monitoring for a major manufactured gas plant (MGP) site remediation project.
- Operate groundwater remediation treatment systems including air sparge, soil vapor extraction, pump and treat systems, and free product recovery systems. Also performed maintenance and repairs on systems and oversight of major system repairs and changes.
- Waste characterization, manifesting, and disposal.
- Leaking underground storage tank (LUST) investigation and reporting.
- Contaminated soil excavation oversight, air monitoring, waste manifesting, and soil sampling.
- PCB investigation activities, which includes initial investigation, delineation, and remediation of impacted areas. Also conducted oversight of decontamination of PCB impacted manufacturing and electrical equipment.
- Six month asbestos periodic surveillance
- Assist in developing asbestos NESHAP reports

VOLUNTEER

- Habitat for Humanity
- March of Dimes event participant

Phase I
Environmental Site Assessment

City of South Haven
229 Elkenburg Street
South Haven, MI 49090

June 6, 2014

Project #13-373-01

Villa Environmental Consultants, INC

408 West Main Street
Benton Harbor, MI 49022
Phone: (269) 927-2434
Fax: (269) 927-2435
www.villaenv.com

Villa Environmental Consultants, INC

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June 6, 2014

Paul Vandenbosch, Assistant City Manager
City of South Haven
539 Phoenix Road
South Haven, MI 49090

RE: Phase I Environmental Site Assessment
229 Elkenburg Street, MI 49090
Project #13-373-01

Dear Mr. Vandenbosch:

Enclosed is the Phase I Environmental Site Assessment report and recommendations for the above referenced property. Our Phase I Environmental Site Assessment services follow the industry guidelines as outlined by the ASTM E 1527-13.

The content of this report includes standard Phase I Environmental Site Assessment information and backup data. The information requested is provided either in the context of the report, or in the form of an Appendix.

If you should have any questions or wish to further discuss this project, please contact me at (269) 927-2434 at your convenience.

Yours truly,

Richard P. Villa

Richard P. Villa, President
rvilla@villaenv.com

RPV:ldl

Enc.

Health & Safety Services • Property Transactions • Clean Air Act • Indoor Air • Asbestos and Lead • Site Remediation

PHASE I ESA

1.0 Summary

Villa Environmental Consultants, Inc. was contracted by the City of South Haven to complete this Phase I Environmental Site Assessment for the property located at 229 Elkenburg Street, South Haven, Van Buren County, Michigan which will be referred to as the subject property.

1.1 Recognized Environmental Conditions (REC)

This investigation found eight (8) Recognized Environmental Condition that might impact the subject property.

1. There was historical use of stains, paints, thinners, etc. at this site. These chemicals contain Volatile and Semi-volatile organic compounds and may have contributed to a release.
2. A 20,000 gallon oil tank which leaked and was removed between 1965 and 1985. The removal of this underground storage tank was completed to the standards of that time period, but contamination may still exist and the levels may not meet the current clean-up criteria.
3. Historical use of a railroad spur on the property may have contaminated the site with heavy metals, creosote, or PNAs.
4. There was a coal bunker located within the building which may have contaminated the site with PNAs.
5. A foundry was located on the northern section of the subject property which may have lead to site contamination from heavy metals through distribution of foundry sand.
6. Based on interviews there was a historical filling station adjacent to the southeast of the subject property. Due to the proximity to the subject property this is a REC.
7. Belgravia is a state equivalent to CERCLIS site and is adjacent to the west portion of the subject property. Due to the proximity to the subject property this is a REC.
8. There are currently approximately 25 to 30 drums located within the building that are unlabeled and contain potentially hazardous or petroleum chemicals. These containers of unknown chemicals and their condition have the potential to cause a release.

1.2 Historical Recognized Environmental Conditions (HREC)

This investigation found no Historical Recognized Environmental Condition.

1.3 Controlled Recognized Environmental Conditions (CREC)

This investigation found no Controlled Recognized Environmental Conditions that might impact the subject property.

2.0 Introduction

Environmental due diligence has primarily been driven by property purchasers, owners, and lenders fearful of being held liable for clean-up of hazardous waste and associated soil and groundwater contamination, as a result of being an owner. The liability has stemmed from the enactment of the

Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and subsequent enactment of state laws and regulations, as well as state and federal court decisions applying and interpreting such statutes.

In January 2002, the Small Business Liability Relief and Brownfield Revitalization Act was signed into law ordering the USEPA to define due diligence. In December 2013, the All Appropriate Inquiry final rules were updates. The USEPA establishes that the revised ASTM E 1527-13 standard is consistent with the requirements of the final rule for all appropriate inquiries and may be used to comply with the provisions of the rule.

This Phase I Environmental Site Assessment follows the industry accepted general and current guidelines as developed by the American Society for Testing Materials (ASTM) E 1527-13 to satisfy all appropriate inquiries.

2.1 Purpose

The Purpose of this Phase I Environmental Site Assessment was to satisfy the due diligence by identifying the immediate and most recognizable environmental concerns at the subject property by focusing on the following work items:

- Current and Prior Use Review
- Records Review
- Surrounding Properties Review
- Site Reconnaissance
- Interviews

2.2 Detailed Scope of Service

Villa Environmental Consultants, Inc. was contracted by the City of South Haven to complete this Phase I Environmental Site Assessment for the property located at 229 Elkenburg Street, South Haven, Van Buren County, Michigan. Site location maps and aerial photographs are included in the appendices of this report.

2.3 Significant Assumptions, Limitations, and Exceptions

This Phase I Environmental Assessment, including the attached exhibits, describes the results of the investigation performed by Villa Environmental Consultants, Inc. to identify the potential presence of a significant contamination problem affecting the property.

The conclusions and recommendations described in this report are based on the request for services that were agreed upon, and not on scientific tasks or procedures beyond the scope of services and the time and budgeting constraints imposed by the type of service the client requested.

The conclusions and recommendations presented in this report represent the application of a variety of technical disciplines to determine the facts and conditions associated with the subject property. Many of these conditions, conclusions, and recommendations will change with regard to the site over a period of time. In addition, the recommendations and conclusions identified in this report must be viewed within the parameters and context of these assumptions and limitations.

During the development of this Phase I Environmental Site Assessment, some general and specific assumptions were made by Villa Environmental Consultants, Inc. throughout phases of the investigation, which include:

- Villa Environmental Consultants, Inc. is not responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time the evaluation was performed.
- Villa Environmental Consultants, Inc. assumes our requests for information from various regulatory agencies was given complete and thorough consideration.
- Villa Environmental Consultants, Inc. assumes any previous environmental data relied on was completed in a competent and professional manner.

2.4 Special Terms and Conditions

No environmental site assessment can wholly eliminate uncertainty regarding the potential for Recognized Environmental Conditions in connection with a property. Similarly, no environmental professional can be expected to visually observe every detail within a property or every record concerning a property. Therefore, the completion of this investigation in conjunction with ASTM E 1527-13 guidelines and the professional judgement of the contributors to this report is intended to reduce, but not eliminate, uncertainty regarding the potential for Recognized Environmental Conditions in connection with the subject property.

2.5 User Reliance

This Phase I Environmental Site Assessment was prepared at the request of City of South Haven. Any information contained herein, including the attached exhibits, may not be used by any other party without expressed written consent of Villa Environmental Consultants, Inc. and City of South Haven.

3.0 Site Description

3.1 Location and Legal Description

The legal description for this property can be found in the appendix material of this report. The tax identification numbers associated with the site are 80-53-260-006-00 and 80-53-260-007-00.

3.2 Site and Vicinity General Characteristics

The subject property is located in a mixed use area that consists of residential housing, commercial, and industrial properties. The subject property is approximately 6.30 acres and flat.

3.3 Current Use of the Property

The subject property is currently used as a vacant warehouse. The site is boarded and locked up to prevent unauthorized entry.

3.4 Description of Structures, Roads, Other Improvements on Site (including heating system, cooling system, sewage disposal, and source of potable water)

Old deteriorating roads/parking lots, a warehouse on a concrete slab foundation with wood and concrete floors are the only improvements to this site.

3.5 Current Use of Adjoining Properties

North: Residential single family housing is located to the north of the subject property.

East: Indiana Avenue is adjacent to the east of the subject property. East of Indiana Avenue are additional residential and commercial properties.

South: Elkenburg Street is adjacent to the south of the subject property. South of Elkenburg Road are residential houses and vacant land.

West: A former railroad is adjacent to the west of the property. This railroad has become part of a trail system. Additional industrial and residential properties to the west.

4.0 User Provided Information

4.1 Title Records

Title records for the subject property were not provided to Villa Environmental Consultants, Inc. by City of South Haven. The user should review the records to determine if the site has any environmental restrictions.

4.2 Environmental Liens or Activity Use Limitations

This section provides information concerning legal or physical restrictions, which may include institutional and/or engineering controls, that are intended to prevent adverse impacts to individuals that may by exposed to hazardous substances in the soil or groundwater. No information was supplied to Villa Environmental Consultants, Inc., regarding environmental liens or activity use limitations. The user should review land title records/deeds, that are typically outlined in a title commitment and for the State of Michigan, to determine if use restrictions exist on the property.

4.3 Specialized Knowledge
The user has no specialized knowledge regarding the environmental condition of the site.

4.4 Commonly Known or Reasonably Ascertainable Information
The subject property is currently owned by Sitties LLC. Mr. Jimmy Karrip is currently the operator of the company. This site is commonly known and referred to as S.E. Overton. This building was constructed circa 1905.

4.5 Valuation Reduction for Environmental Issues
Based on our interviews with the user, there is no reduction of property value for issues related to known environmental concerns.

4.6 Owner, Property Manager, and Occupant Information
Sitties LLC. is the owner of this site and is operated by Mr. Jimmy Karrip. The caretaker of the property is Mr. Benno Trinkle. Permission to access the subject property was granted by the City of South Haven under the police power granted to local municipalities.

4.7 Reason for Performing the Phase I
The City of South Haven contracted with Villa Environmental Consultants, Inc., to determine if any Recognized Environmental Conditions exist or have previously existed on the site or nearby properties.

5.0 RECORDS REVIEW
5.1 Standard Environmental Record Sources
All Appropriate Inquiry (AAI) requires a governmental records review to determine if the subject property or surrounding properties are listed on specific databases. Villa Environmental Consultants Inc., conducted its own database search by using government databases over the internet including the Michigan Department of Environmental Quality (MDEQ) *Michigan Mapper* which identifies underground storage tanks, leaking underground storage tanks, and listed state contaminated sites including brownfields (brownfields that are contaminated). The Environmental Protection Agency website (Envirofacts) and Cleanups in My Community Map are used to track CERCLIS sites, National Priority List sites, hazardous waste sites, and RCRA information. The RTK website and US Coast Guard NRC Query were used to review the ERNS list.

National Priority List (1 mile search distance) and de-listed sites (½ mile search distance)
There are no National Priority List sites within the required search distance using the NPL fact sheets for Michigan.

Federal CERCLIS including the No Further Remedial Action Proposed (NFRAP) (½ mile search distance)

There are no CERCLIS sites listed within the required search distance using the EPA Enviromapper.

RCRA CORRACT (1 mile search radius)
No RCRA corrective action sites were identified within one mile of the site using the EPA Cleanups in My Community Map.

RCRA Non-CORRACTS Treatment, Storage and Disposal (TSD) Sites (½ mile search distance)
No sites were identified within the required search distance using EPA Enviromapper and rtknet.org.

RCRA Generator List (Property and adjoining properties only)
No RCRA generators were identified within the required search distance using the EPA Enviromapper.

Federal Institutional control/Engineering control sites (Property only)
Neither the EPA Enviromapper or Cleanups in My Community Map listed the site.

Federal ERNS List (Property only)
The rtknet.org website was used to search the ERNS list. The site was not identified in the search.

State hazardous waste sites for investigation or clean up state NPL (1 mile search distance)
The DEQ State Owned Sites Cleanup Program list was used to track these sites. There were no state priority clean up sites within the search distance.

State equivalent to CERCLIS (½ mile search distance)
The 201 list tracks contaminated sites in Michigan. These sites are tracked using the DEQ Environmental Mapper which identified six (6) sites within the search radius.

Belgravia, located at 125 Elkenburg Street, South Haven, Michigan is adjoining to the west of the subject property and is listed as a Part 201 Site (Site ID# 80000010). Based on the proximity to the subject property, it is possible that the site could adversely impact the subject property.

Everett Piano, located at 900 Indiana Avenue, is adjacent to the subject property to the southeast and is listed as a Part 201 Site (Site ID# 80000195). Based on the proximity to the subject property and the groundwater flow direction, it is possible that the that the site could adversely impact the subject property.

National Motor Castings, located at Indiana Avenue and Aylworth Avenue, is approximately 0.26 miles south of the subject property and is listed as a Part 201 Site (Site ID# 80000195). This site is unlikely to impact the subject property based on groundwater flow direction in the area.

Trelleborg-YSH, located at 400 Aylworth Avenue, is approximately 0.34 miles southeast of the subject property and is listed as a Part 201 Site (Site ID# 80000194). This site is unlikely to impact the subject property based on groundwater flow direction in the area.

220 Aylworth Avenue is located approximately 0.25 miles south of the subject property and is listed as a Part 201 Site (Site ID# 80000196). This site is unlikely to impact the subject property based on groundwater flow direction in the area.

Scott Aviation, located at 1201 Kalamazoo Street, is approximately 0.34 miles south of the subject property and is listed as a Part 201 Site (Site ID# 80000207). This site is unlikely to impact the subject property based on groundwater flow direction in the area.

State landfill or solid waste disposal site (½ mile search distance)
State landfill sites were researched using the State of Michigan DEQ database. No landfill is located within ½ mile of the subject property.

State Leaking Underground Storage Tank sites (½ mile search distance)
There are one open and six closed leaking underground storage tank system located within the required search distance using the DEQ Environmental Mapper.

Application Engineering Inc., located at 1310 Kalamazoo Street, is approximately 0.45 miles south of the subject property and is listed as an open leaking underground storage tank site with one gasoline release. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

South Haven Public Schools, located at 554 Green Street, is approximately 0.46 miles northeast of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

TCI Cablevision, located at 807 Lagrange Street, is approximately 0.50 miles east of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

Movie Outpost, located at 855 Lagrange Street, is approximately 0.50 miles east of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

Yale-South Haven Inc., located at 400 Aylworth Avenue, is approximately 0.33 miles southeast of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

Quality Disposal, located at 200 Aylworth Avenue, is approximately 0.27 miles south of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

National Motor Casting Site, located at 1070 Indiana, is approximately 0.16 miles south of the subject property and is listed as a closed leaking underground storage tank site. Based on the assumed groundwater flow direction, it is unlikely that this site will have an adverse environmental impact to the subject property.

Registered UST sites (Property and adjoining properties)
There were no registered underground storage tank systems located within the required search distance using the DEQ Environmental Mapper.

State Institutional Control and Engineering control sites (Property Only)
The State of Michigan tracks the environmental institutional controls and engineering controls through either 201 sites or leaking UST sites. The property is not listed on either database.

State Voluntary Clean Up Sites (½ mile search distance)
The State of Michigan uses the 201 list to identify voluntary clean-up sites and no sites were identified within the search distance.

State Brownfield Sites (½ mile search distance)
One (1) Brownfield (ACRES) site was identified within the required search distance using the EPA EnviroMapper and Cleanups in My Community Map.

201 Elkenburg Street, which adjoins to the subject property to the southwest, is listed as a Brownfield site. The property reportedly has contamination in the soils and groundwater and has not yet reached the phases of the redevelopment. Based on the proximity to the subject property, it is possible this site could adversely affect the subject property.

5.2 Additional Environmental Record Sources

A historical Phase I environmental site assessment from 2010 conducted by Branscot Consulting was reviewed but not relied upon for this investigation.

A FOIA review was made to the Kalamazoo District Office. On June 4, 2014 the districts files on Everett Piano and National Motor Castings (900 Indiana / 1070 Indiana) and Belgrava (125 Elkenburg) were reviewed. After the review of this documentation there was sufficient evidence to conclude that the Everett Piano site is not a Recognized Environmental Condition. However, the reports in the Belgrava file shows contamination in excess of the MDEQ standards migrating onto the subject property.

5.3 Physical Setting Source(s)

Review of a United States Geological Survey (USGS) topographical map indicates that the closest major body of water is Lake Michigan, located approximately 0.30 miles west of the site. The subject property is approximately 630 feet above mean sea level. Based on the influence of Lake Michigan groundwater on the subject property is likely to flow west to northwest.

5.4 Historical Use Information on the Property

Villa Environmental Consultants, Inc. conducted an investigation to determine the prior use of the property. Particular attention was given to past operations which may have involved the generation, storage, or disposal of hazardous materials.

Current ASTM standards require the review of a minimum of one standard source to at least 1940, or when the property was first developed, whichever is earlier. Historical information regarding the subject property was obtained from the following entities:

- Paw Paw District Library
- MDEQ FOIA File Review
- City of South Haven Assessor Records
- Google Earth - Aerial Photographs
- USGS - Aerial Photographs, Topographic Map

The listed sources allowed the investigator to trace the use of the subject property to circa 1860.

Aerial photographs were reviewed through the USGS, and Google Earth. Photographs from years 2010, 2005, 1997, 1993, 1986, 1981, 1969, and 1956 were reviewed and located in appendix A.

2010: This aerial shows the subject property as it is today. Surrounding properties remain the same.

2005: The residential development to the southwest is wooded and no construction has started.

1997: The vacant property to the south contains a large industrial style building in this aerial.

1993: There is no significant change from the 1997 aerial.

1986: There is no significant change from the 1997 aerial.

1981: There is no significant change from the 1997 aerial.

1969: There appears to be a filling station on the southeast corner of the Elkenburg and Indiana intersection.

1956: There is no significant change from the 1969 aerial.

Historical Plat Maps were reviewed at the Paw Paw District Library. The following table highlights the information contained in the Plat Maps.

Table 1.0 Polk City Directories.

Year	Information
1860	I. Allen
1870	W.J. Long (House) 1 acres, S. Rogers 1 acres, Mrs. S. Mallory 2 acres, and acreage without ownership.
1895	Shows the railroad to the west of the property, property part of the Elkenburg Addition and (Michigan State Experimental Grounds)
1933	Small Tracts

Sanborn Fire Insurance Maps were reviewed from 1896, 1902, 1908, 1916, and 1927. Table 2.0 summarizes the findings of information found using the Sanborn Fire Insurance Maps.

Table 2.0 Sanborn Fire Insurance Maps

Year	Information
1896	This Sanborn shows the railroad to the west of the property but no buildings on the subject property.
1902	Shows the property and surrounding areas similar to 1896

1908	This map shows a foundry on the subject property along with a wood working building. Owned by S.E. Overton Company
1916	In addition to the information found in 1908 there is not a Machine shop to the east of the main building.
1927	There is a railroad spur that stops at the factory and a Coal Bunker in addition to the other buildings previously shown. To the east of the building on Indiana this Sanborn shows a filling station.

5.5 Historical Use Information on Adjoining Properties

A review of the history of the surrounding properties was conducted by reviewing aerial photographs Sanborn Fire Insurance Maps, and Plat Maps. Development of the area for residential properties began circa 1860 with the industrial developments starting circa 1900.

6.0 Site Reconnaissance

6.1 Methodology and Limiting Conditions

A site inspection was conducted on May 20 2014, to obtain information and identify potential Recognized Environmental Conditions in connection with the subject property. During the site visit, Villa Environmental Consultants, Inc., performed visual and physical observations of the subject and adjacent properties. Lawrence Leonardi of Villa Environmental Consultants, Inc. conducted the site reconnaissance.

6.2 General Site Setting

The subject property is located in a mixed use area which consists of Industrial, commercial, and, single family residential housing.

6.3 Exterior Observations

6.3.1 Description of Structures

The site consists of a vacant two story brick and metal warehouse. This warehouse is constructed of different sections which indicates multiple ages of construction.

6.3.2 Roads/Parking Lots

Access to the site is provided by Elkenburg Street to the south and Indiana Ave to the east.

6.3.3 Potable Water Source

No potable water system was observed.

6.3.4 Sewage Disposal System

No sewage system was observed.

6.3.5 Possible Hazardous Substances

No hazardous substances were observed on the exterior of the building.

6.3.6 Storage Tanks

There is no evidence on site of an underground or aboveground storage tank..

6.3.7 Pools of Liquid

No pools of liquid were noticed on the subject property.

6.3.8 Odors

No unusual odors were noted on the subject property.

6.3.9 Drums/Other Containers

No drums or other containers were observed on the exterior of the subject property.

6.3.10 Stained Surfaces

No stained surfaces were observed on the subject property.

6.3.11 Stressed Vegetation

No stressed vegetation was observed on the subject property.

6.3.12 Solid Waste

Pallets, roofing debris, and other miscellaneous building materials were found scattered around the south west portion of the property.

6.3.13 Waste Water

No waste water was observed on the subject property.

6.3.14 Ditches, Pits, Ponds, Lagoons, or Mounds

One small mound is located near the northwest corner of the warehouse. There is also a dirt ramp that has recently been built up along the southwest section of the warehouse that extends up to the garage doors.

6.3.15 PCB Equipment Identification

Polychlorinated Biphenyl (PCB) is the most common name for a class of chemicals called chlorinated hydrocarbons. The chemical PCB can be found in electrical transformers that were commonly manufactured between 1929 and 1977.

In 1986, the United States Environmental Protection Agency (USEPA) estimated that approximately 77,000 PCB transformers were still in use. Only about 18,000 of that total amount of transformers

were owned and operated by utility companies, with the majority of the transformers belonging to private building owners.

No transformers were observed at the site.

6.4 Interior Observations

6.4.1 Heating/Cooling System

No heating source was observed on the property.

6.4.2 Drains/Sumps

Floor drains were observed only in bathrooms. It is likely these drains were used in the process of cleaning and overflow. These drains are not a concern.

6.4.3 Possible Hazardous Substances

There are about 25 drums throughout the facility. Most of these drums are about 55-gallons and smell as if they contain petroleum product.

6.4.4 Other Interior Observations

In many places the building is structurally unsound which is evidenced by the ceiling and 2nd floor collapse in the northeast section of the warehouse as well as multiple other areas where the sky can be seen through the roof and second floor. There was standing water on the main level of the warehouse which is also likely due to the deteriorated roof condition. The wooden floors and appear to be stained, however the discoloration is likely due to the floors being exposed to the elements for an extended amount of time. The northwest hallway on route to the coal pit was obviously black which may have been the result of a release.

7.0 Interviews

7.1 Interview with Owner

The owner of the subject property is Sitties LLC. Mr. Jimmy Karrip the owner of Sitties LLC, was interviewed by phone on June 2, 2014. Mr. Karrip stated that the barrels found inside the building had been moved there from an old warehouse that had been demolished previously. Mr. Karrip also stated that there was a previous Phase I and Phase II completed prior to his purchase of the property. These documents were suppose to have been made available to the City of South Haven to be included in this report. Any Phase II work that has been completed has not been reviewed for this report.

7.2 Interview with Site Manager

Refer to section 7.1

7.3 Interviews with Occupants

Refer to section 7.1

7.4 Interview with Government Officials

The South Haven Deputy Assessor, Connie Phillips, was interviewed on May 20, 2014. Ms. Phillips provided assessor records for the subject property. Ms. Phillips knows of no environmental related conditions associated with the property but introduced our staff to Mr. Jack McCloughan.

Jack McCloughan, Economic Development Liaison for the City of South Haven and previous plant manager at S.E. Overton from circa 1965 through 1985 was interviewed on May 20, 2014. Mr. McCloughan stated that during his time at the plant they used multiple fuels in the boilers to heat the plant. These fuels included coal, saw dust, wood, heating oil, and natural gas. He also stated that there was once an underground storage tank at the southwest corner of the building which was removed during his tenure at the plant. It was removed because the tank was leaking and all known contaminated soils were excavated and the hole backfilled with clean sand. This tank was located outside the southwest corner of the warehouse. Mr. McCloughan stated they also had a machine shop within the building that manufactured tools that the plant used to create the wood products and these operations may have involved lubricants or cutting oils.

7.5 Interviews with Others

Villa Environmental Consultants, Inc. requested FOIA information from the Michigan Department of Environmental Quality (MDEQ) for the adjacent sites which are listed as State equivalent to CERCLIS. These files were reviewed June 4, 2014.

8.0 Findings

There is a two-story warehouse built from with multiple materials and consists of multiple ages of construction.

Historically paints, stains, solvents, and other chemical have been used at this site.

A 20,000 gallon oil tank underground storage tank was removed from this site between 1965 and 1985 because it was leaking. This tank was cleaned up to the standards of that time period, but contamination may remain and may not meet current clean-up criteria.

Historically there was a railroad spur on the property which may have lead to contamination of the soils from multiple chemicals and metals.

There is a coal bunker located within the warehouse. This bunker was used to store coal and other solid fuels.

The Sanborn maps indicates a foundry was located to the north of the main warehouse. It is possible that this building may have polluted the ground with heavy metals.

There are multiple properties, located west, and southeast respectively that have or potentially have contamination that may impact the subject property

9.0 Opinion

9.1 Additional Investigation

Based on interviews, site reconnaissance, and historic reviews, subsurface investigation is warranted for the subject property. Eight (8) Recognized Environmental Conditions were identified during the investigation of the subject property.

Based upon the findings of potential adverse impact due to the multitude of Recognized Environmental Conditions associated with this site it is the opinion of Villa Environmental Consultants, Inc. that the site's subsurface be tested for volatile and semi-volatile organic compounds (VOCs, SVOCs) which may be from the chemicals previously used in the manufacturing operations or migrating on-site from an off-site source. Heavy metals which may be associated with the historical railroad spur on the subject property. Polynuclear Aromatic Hydrocarbons (PNAs) which many have been the result of contamination from underground storage of heating oil, the historical railroad spur, or from coal stored and used onsite.

The approximately 25 drums located within the building that are unlabeled and contain chemicals believed to be oil are a real threat to cause a release and should be disposed of properly.

9.2 Data Gaps

No significant data gaps exist that would affect the ability to identify Recognized Environmental Conditions. Minor data gaps in historical review occur, but based on the research and use of the property, the gaps are considered insignificant.

9.3 Vapor Intrusion

Recent trends in the brownfield redevelopment and the property transaction process include the potential for contamination to migrate either from the subject property, or onto the subject property, and volatilize from the ground water or soil into the building. To develop industry wide guidelines, ASTM published a *Standard Guide for Vapor Encroachment Screening on Property Involved in Real Estate Transactions E2600-10*. The screening process was completed for the subject property as part of the Phase I ESA process.

Vapors may exist only with certain types of hazardous substances that have a high vapor pressure. Metals, motor oil, and hydraulic oil typically do not generate enough vapors to be an issue. Gasoline, methane (from old landfills), and solvents have a high vapor pressure and can generate vapors that may

penetrate the building foundation and enter a building. At high enough levels, certain vapors can create an explosive atmosphere. Lower vapor levels present a long term health issue for building occupants.

The regional ground water flow direction in the Midwestern United States typically flows toward surface water. Lake Michigan is located 0.30 miles west of the subject property and is likely to influence ground water flow direction. For contamination to flow on site from another site, it would be expected that, given the expected ground water flow direction, a contaminated source east of the site would have the most probability of reaching the site. Based on the government databases researched and discussed previously in the report, on site and off site contamination is a potential source of vapors at the subject property and should be investigated further.

10.0 Conclusions

Villa Environmental Consultants, Inc., completed this Phase I Environmental Site Assessment (ESA) in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Practice E 1527-13, for the property located at 229 Elkenburg Street, South Haven, Van Buren County, Michigan. Any exceptions or deletions from this practice is described in section 2.3 of this report. Further subsurface investigation is warranted, as eight (8) Recognized Environmental Condition was revealed during this investigation.

1. This site historically used stains, paints, thinners, and other chemicalswhich may have resulted in the release of hazardous substances.
2. There was a 20,000 gallon oil tank which leaked and was removed to the standards at the time, however contamination may exist at levels that do not satisfy current MDEQ regulations.
3. Although long removed railroad spurs are known to contaminate sites with heavy metals, creosote, and/or PNAs.
4. The coal bunker used to store coal at this site may be a source of contamination.
5. Foundries are known to cause heavy metal contamination from their waste fill and there was one located on the northern portion of this site.
6. Based on interviews and historical reviews there were historical filling stations adjacent to the southeast of the subject property. These sites are hydraulically upgradient and a potential source of contamination.
7. Belgravia is a property that is a state equivalent to a CERCLIS site and is adjacent to the west of the subject property.
8. There are currently approximately 25 drums located within the building that are unlabeled and contain chemicals. These are a real threat to cause a release. These drums need to be characterized, properly packed, shipped, and disposed.

11.0 Deviations

This assessment has not deviated from the purpose of Section 2.1 and detailed scope of services.

12.0 Additional Services

ASTM standards indicate that some environmental issues are not standard scope of work for a Phase I ESA and include, but are not limited to: asbestos, mold, regulatory compliance, radon, lead-based paint, wetlands, and lead in drinking water. Villa Environmental Consultants, Inc., is experienced in the non-scope considerations and these investigations can be completed upon request.

13.0 References

- ASTM E 1527-13
- ASTM E 2600-10
- South Haven Assessor Records
- Sanborn Maps
- Aerial Photographs
- USGS Topographic Map
- Paw Paw District Library
- MDEQ FOIA Review (Kalamazoo District Office)

14.0 Report Contributors

The following is a list of names, titles, and signatures of Villa Environmental Consultants, Inc. staff who contributed to this Phase I Environmental Assessment report.

Richard P. Villa, President

Lawrence D. Leonardi Jr., Geologist

15.0 Signature of Environmental Professional

I declare that, to the best of my knowledge and belief, I meet the definition of Environmental Professional as defined in 312.10 of 40 CFR 312. I have the specific qualifications based on education, training, and expertise to assess a property of the nature, history, and setting of the subject property. I have developed and performed all the appropriate inquiries in conformance with the standards and practices set fourth in 40 CFR part 312.

Richard P. Villa, President

APPENDIX A
Site Location Maps, Sandborn Maps, Assessor Records, Photoplate

Villa Environmental Consultants, Inc.

SITE LOCATION MAP

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014 Project No: #13-373-01	Scale: NA Figure No: 1

Villa Environmental Consultants, Inc.

1956 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 2

Villa Environmental Consultants, Inc.

1969 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 3

Villa Environmental Consultants, Inc.

1981 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 4

Villa Environmental Consultants, Inc.

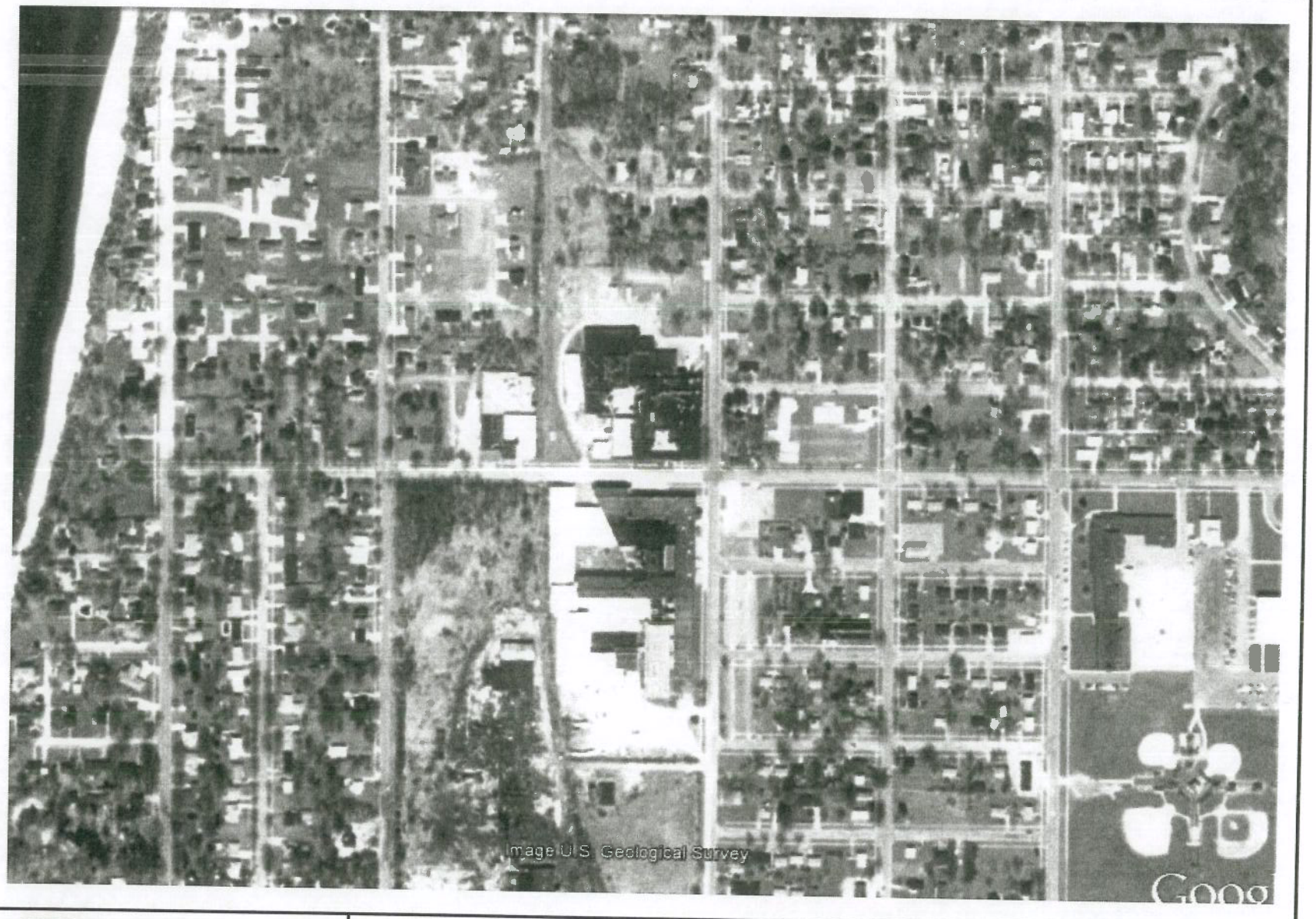
1986 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 5

Villa Environmental Consultants, Inc.

1993 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 6



Villa Environmental Consultants, Inc.

1997 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 7

Villa Environmental Consultants, Inc.

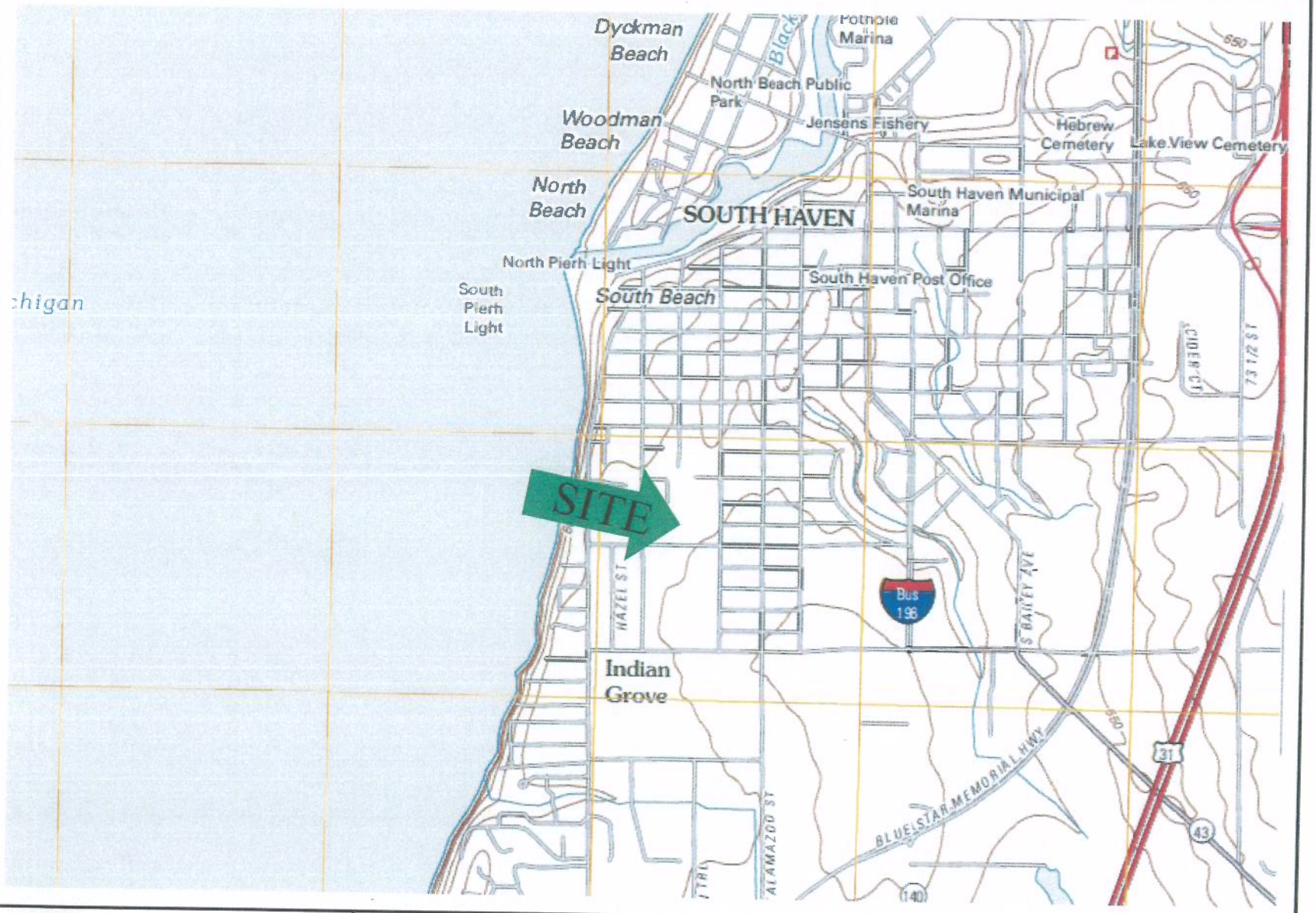
2005 Aerial Photo

Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 8

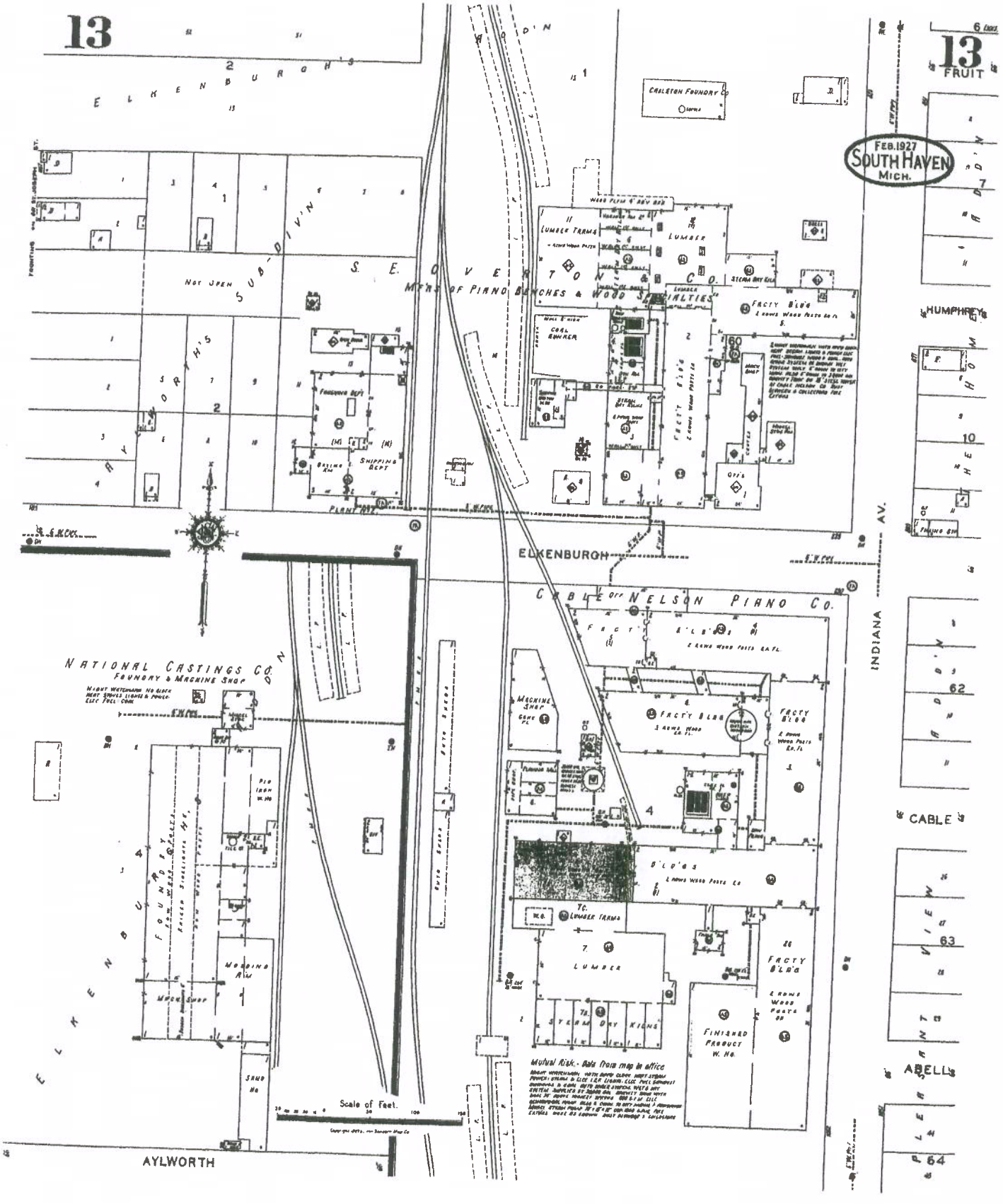
Villa Environmental Consultants, Inc.

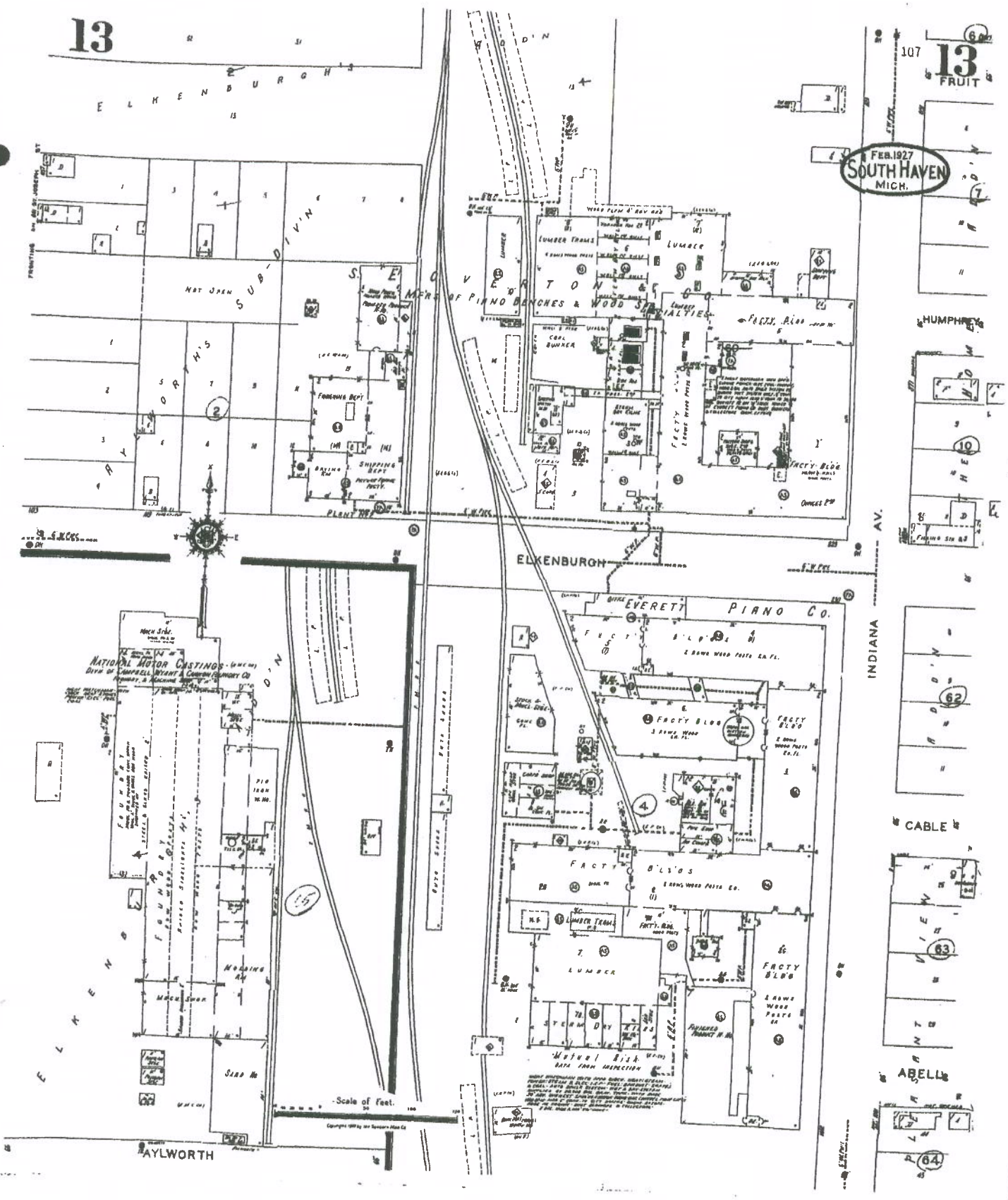
2010 Aerial Photo

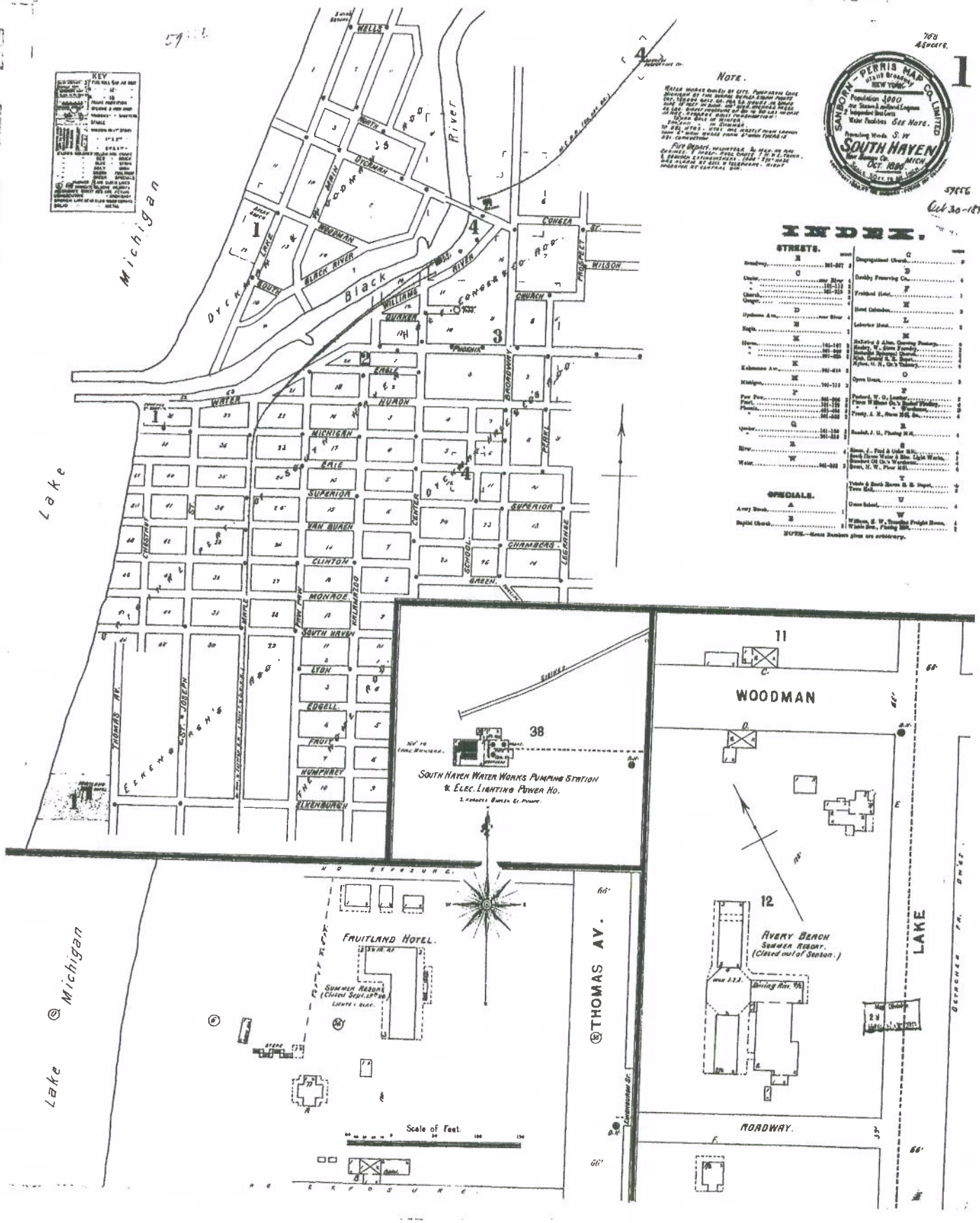
Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014	Scale: NA
		Project No: #13-373-01	Figure No: 9

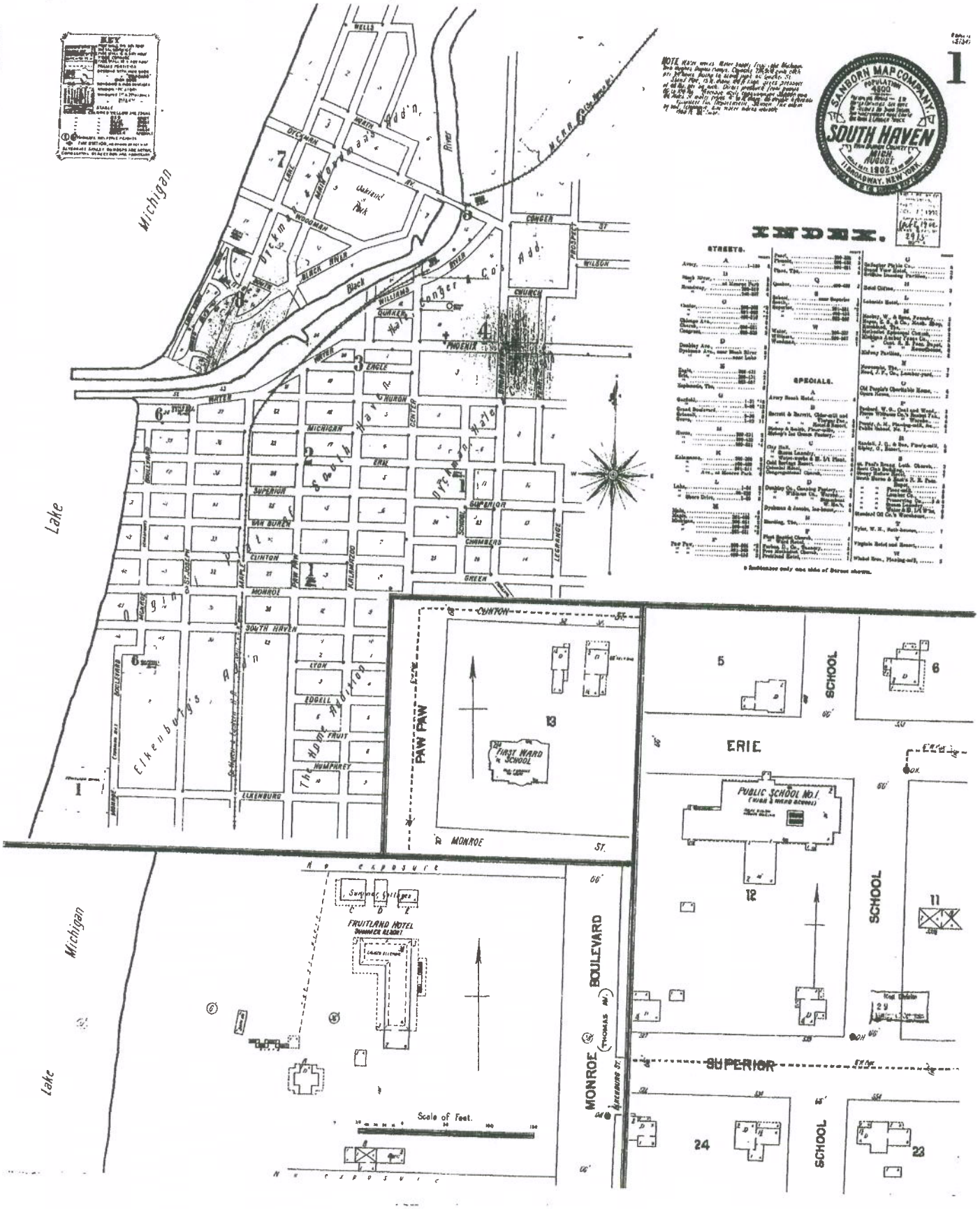


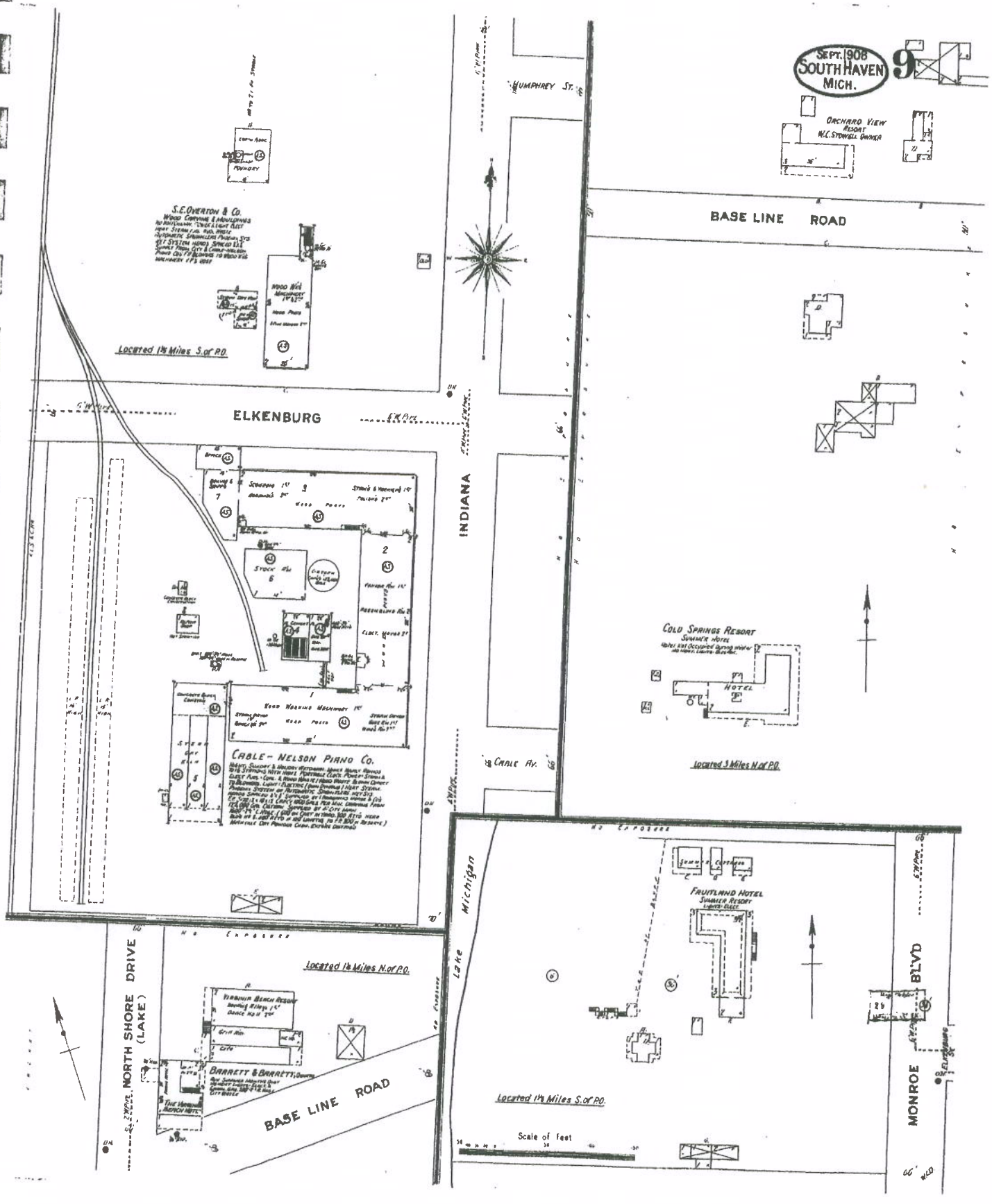
VEC Villa Environmental Consultants, Inc.	US TOPOGRAPHICAL MAP		
Project:	229 Elkenburg Street South Haven, MI 49090	Date:05/13/2014 Project No: #13-373-01	Scale: NA Figure No: 10

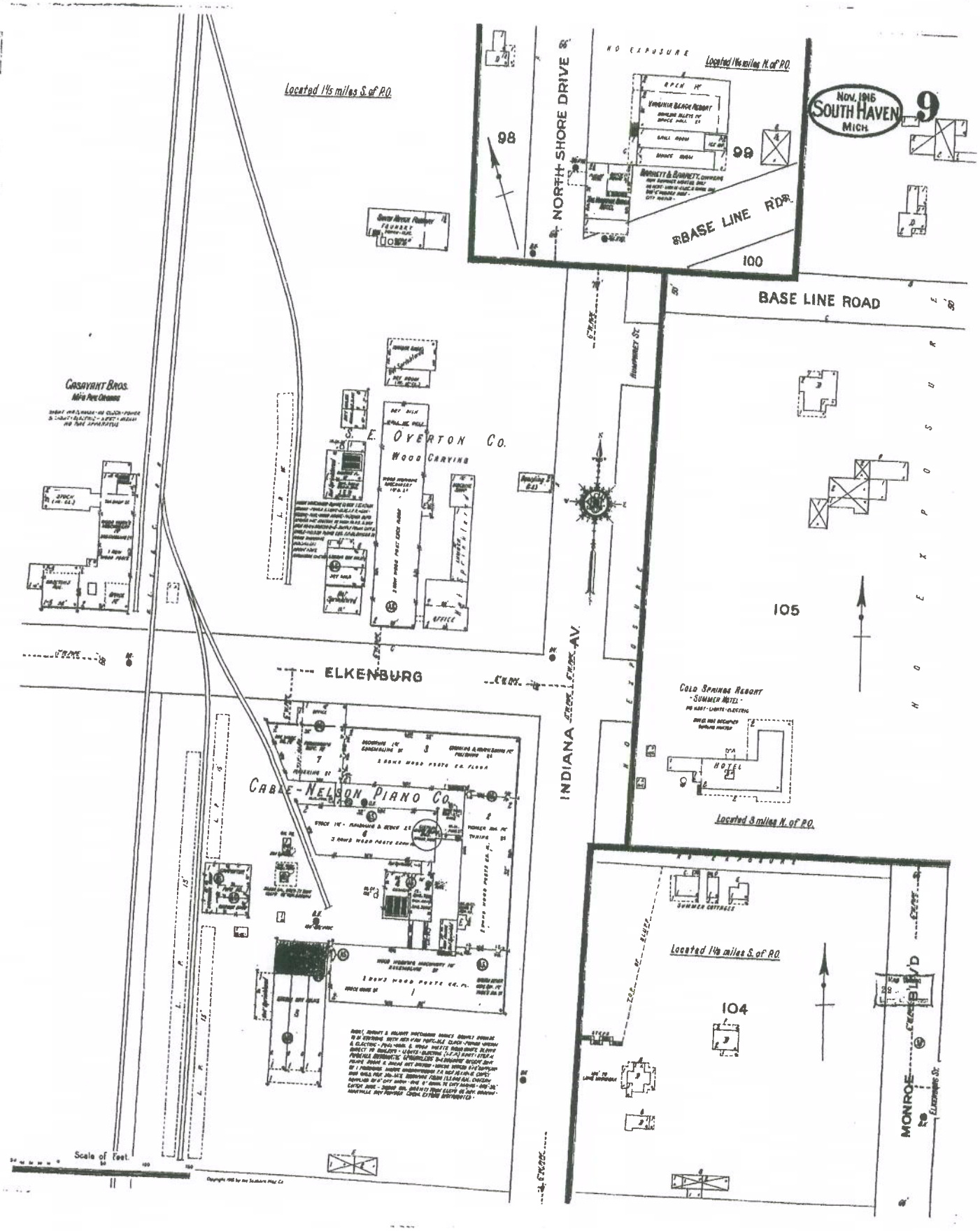

13
ELKENBURGH'S
SUB-DIV'N
AYLWORTH'S
NOT OPEN
S. E. OVERTON CO.
MFRS OF PIANO BENCHES & WOOD SPECIALTIES
LUMBER FRAMES
LUMBER
STEAM DRY KILN
FACTY BLDG
COAL BUNKER
FOUNDRY DEPT
SHIPPING DEPT
PLANT RY.
ELKENBURGH
CABLE OFF NELSON PIANO CO.
NATIONAL CASTINGS CO.
FOUNDRY & MACHINE SHOP
MACHINE SHOP
FACTY BLDG
B'LD'GS
LUMBER FRAMES
LUMBER
STEAM DRY KILNS
FINISHED PRODUCT W. HO.
PIG IRON W. HO.
FOUNDRY
MOULDING RM
MACH SHOP
SAND HO.
AUTO SHEDS
Scale of Feet.
AYLWORTH
CARLETON FOUNDRY CO.
FEB. 1927
SOUTH HAVEN
MICH.
6 Lots
13
FRUIT
HUMPHREY
INDIANA AV.
CABLE
ABELL'S
PLEASANT VIEW
62
63
64


13
ELKENBURGH
NOT OPEN
SUB'DIVN
AYLWORTH'S
S. E. EVERETT & CO.
MFRS OF PIANO BENCHES & WOOD SPECIALTIES
LUMBER
LUMBER TRAMS
COAL BUNKER
FACTY. BLDG.
FOREMAN DEPT
SHIPPING DEPT
PLANT RR
ELKENBURGH
EVERETT PIANO CO.
FACTY BLDG
FACTY BLDGS
NATIONAL MOTOR CASTINGS
FOUNDRY
MOULDING AV
SAND HO
PIG IRON
STEAM DRY
Mutual Risk
DATA FROM INSPECTION
Scale of Feet.
AYLWORTH
INDIANA AV.
107
13
FRUIT
HUMPHREY
CABLE
ABELL
FEB. 1927
SOUTH HAVEN
MICH.


SANBORN-PERRIS MAP CO. LIMITED
NEW YORK
SOUTH HAVEN
VAN BUREN Co.
MICH.
Oct. 1896
Oct 30-1896
Lake Michigan
Black River
Dyckman Lake
KEY
NOTE.
INDEX.
STREETS.
OFFICIALS.
WELLS
WOODMAN
DICKMAN
BLACK RIVER
WILLIAMS
QUAKER
PHOENIX
EAGLE
HURON
MICHIGAN
ERIE
SUPERIOR
VAN BUREN
CLINTON
MONROE
SOUTH HAVEN
LYON
EDGELL
FRUIT
HUMPHREY
ELKENBURGH
WATER
CONGRESS
CHURCH
WILSON
PROSPECT
BROADWAY
PARK
CENTER
SCHOOL
CHAMBERS
GREEN
LEGHRAE
CHESTNUT
MAPLE
THOMAS
ST. JOSEPH
ELKENBURGH'S
SOUTH HAVEN WATER WORKS PUMPING STATION & ELEC. LIGHTING POWER HO.
FRUITLAND HOTEL.
SUMMER RESORT (CLOSED SEPT. 15TH '96)
AVERY BEACH SUMMER RESORT. (Closed out of Season.)
WOODMAN
THOMAS AV.
LAKE
ROADWAY.
Scale of Feet.


1
SANBORN MAP COMPANY
SOUTH HAVEN
MICH.
AUGUST
1902
BROADWAY, NEW YORK.
INDEX.
STREETS.
SPECIALS.
Lake Michigan
Black River
Dickman's Add.
Conger & Co's Add.
Elkenburg's Add.
South Haven
Dickman Park
Wells
Dickman
Main
Woodman
Black River
Williams
Conger
Church
Wilson
Phoenix
Eagle
Water
Huron
Center
Michigan
Erie
Superior
Van Buren
Clinton
Chambers
Green
Monroe
South Haven
Lyon
Edgell
Fruit
Humphrey
Elkenburg
Superior
Paw Paw
Kalamazoo
Maple
St. Joseph
Boulevard
Lechange
Clinton
Paw Paw
First Ward School
Monroe St.
Erie
Public School No. 1
School
Superior
Monroe Boulevard
Fruitland Hotel
Summer Cottages
Scale of Feet.


SEPT. 1908
SOUTH HAVEN
MICH.
9
ORCHARD VIEW RESORT
W.C. STOWELL OWNER
BASE LINE ROAD
HUMPHREY ST.
S.E. OVERTON & CO.
Located 1½ Miles S. of P.O.
ELKENBURG
INDIANA
CABLE AV.
CABLE-NELSON PIANO CO.
COLD SPRINGS RESORT
HOTEL
Located 3 Miles N. of P.O.
Located 1½ Miles N. of P.O.
NORTH SHORE DRIVE (LAKE)
BARRETT & BARRETT
BASE LINE ROAD
Lake Michigan
FRUITLAND HOTEL
SUMMER RESORT
Located 1½ Miles S. of P.O.
Scale of Feet
MONROE BLVD


Nov. 1916
SOUTH HAVEN
MICH.
9
Located 1½ miles S. of P.O.
Located 1½ miles N. of P.O.
NO EXPOSURE
NORTH SHORE DRIVE
BASE LINE RD.
BASE LINE ROAD
98
99
100
105
104
Virginia Beach Resort
Ball Room
Dance Room
Barnett & Barnett, Contractors
Casavant Bros.
Makers Pipe Organs
S. E. Overton Co.
Wood Carving
Office
ELKENBURG
Cable-Nelson Piano Co.
INDIANA AV.
Cold Springs Resort
Summer Hotel
Hotel
Summer Cottages
MONROE
BLVD
Scale of Feet.

SON FOR ECON. OR FUNC. DEPR.

TOTAL

FOUNDATION	
crete Walls	
. Blk. Walls	
k Walls	
e Walls	
Walls	

BASEMENT AREA		
½	¾	F

EXTERIOR WALLS	
Com. Brick	
Br. on Tile, or C.B.	
Br. on Com. Br.	
Br. on Tile or C.B.	
Br. Ven.	
Br. Ven.	
rete Blk.	
. Concrete	
Stone Facing	
Cotta Facing	
e or T.C. Trim	
o on Tile or C.B.	
co on Frame	
g or Shingles	
Glass Front	

ROOF TYPE	
or Gable	
String	

ROOFING	
Gravel	
osition	
Conc.	
ation	

FLOORS	B	1	2	3	4	5	6
Concrete							
Earth							
Pine							
Hardwood							
Single Fl.							
Wood Joist							
Hardwood on Concr.							
Rein. Concrete							
Conc. on O.T.J.							
Terazzo							
Tile							
Rooms							

INTERIOR FINISH ON EXTERIOR WALLS							
Pine							
Hardwood							
Lath and Plaster							
Wallboard							
Unfin. Int.							

CEILING FINISH							
Lath and Plas.							
No Ceiling							

PARTITIONS							
L. & P.							
Plast. Bd.							
Tile or C.B.							

HEATING							
Steam							
Air Cond.							
Hot Water or Vapor.							
Hot Air							
Pipeless							
No Heating							
Oil Burner							
Coal Stoker							

PLUMBING	
Bathrooms	
Toilet Rooms	
Water Closet	
Lavatory	
Sink	
Urinals	
No Plumbing	

TILING	
Bath Rm. Fl. & Wains.	
Toilet Rm. Fl. & Wains.	
Bath Room Flr.	
Toilet Room Flr.	

LIGHTING	
Higrade	
Ave.	
Poor	

STRUCTURAL	
Fire-Proof Const.	
Rein. Conc. Beams & Col's.	
Steel Beams & Col's.	
Timber Beams & Col's.	
Steel Trusses	

MECHANICAL	
Sprinkler Syst.	
Passenger Elev.	
Freight Elev.	
Dumb Waiter	

MISCELLANEOUS	
Steel Frame Sash	
Wood Frame Sash	
Fire Escapes	
Vaults	
Skylights	
Remodeled	

10'
10'
10'
10'
12'
8.5'

FLAT EXPENSE ITEMS	
Land	
Vacancy	
Heating	
Water	
Electricity	
Janitor	
Management	

PERCENTAGE ITEMS	
Taxes	
Insurance	
Maintenance	
Depr. Allowance	
Contingencies	
Total Cap. Rate	
Ratio Expense to Income	

Total Flat Expenses	
Gross Annual Income	
Less Flat Expenses	
Balance For Cap.	
Cap. Rate	
Reflected Cap. Value of Bldg.	

BUILDING COMPUTATION	
Verticals	
Horizontals	
Flats	
Replace Val.	

Location

Excel. Good Fair Poor

VERTICALS

ALLS

	L.F.	@	
	L.F.	@	
T.-	L.F.	@	
	L.F.	@	
.. GL.-	L.F.	@	
	L.F.	@	
	L.F.	@	

TOTAL

HORIZONTALS

	ADD	DED
BASE		
BSM.		
FLOOR		
CEILING		
PAR. UP		
PAR. DWN		
HEAT		
LIGHTS		
TOTALS		

FLATS

PLUMBING

CARD # 6-26

COMMERCIAL REAL ESTATE RECORD CARD

NO. OF CARDS CARD NO.

OWNERSHIP RECORD AND DESCRIPTION

A856

OF C & O MAIN TRACK, TH N PAR WITH SAID CEN L 230.2', TH N 5°-50'E 10' TH N 9°-21'E 37.9' TO A PT 627', TH N OF THE S L OF NW1/4 SW1/4, TH E 174' TO 1/8 L, TH N 84.46', TH E

A856

112.58', TH S 92.56', TH E 160', TH S 50', TH W 122.56', TH S 150', TH E 122.56', TH S 385.9' TO BEG.

148

BUILDING PERMIT RECORD

DATE	AMOUNT		PURPOSE

OWNERSHIP RECORD

	DATE	VOL.	PAGE	CONSIDERATION

EXPLANATION FOR LAND ADJUSTMENT

APPRAISAL SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

ASSESSMENT SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

APPRAISAL SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

ASSESSMENT SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

APPRAISAL SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

ASSESSMENT SUMMARY	
YEAR	
LAND	
BLDGS.	
TOTAL	

LAND RECORD AND COMPUTATION OF VALUE

FRONT	REAR	FRONT FIGURED	DEPTH AVE.	F. F. PRICE	DEPTH PER CENT	ACTUAL F. F. PRICE	SUB TOTAL	CORNER INFL.	$ ADJUSTMENT	TOTAL

TRICT TREND IMPROVING STATIC DECLINING WARD ZONE

VEWAY RIBBON SLAB GRAVEL STONE

AD PAVED GRAVEL DIRT SIDEWALK

ILITIES NO GAS NO WATER NO ELECTRIC NO SEWER NO TELEPHONE

POGRAPHY LOW HIGH ROUGH BRUSH LANDSCAPING POOR AVE. GOOD

GEM SURVEYS — ST. CLAIR, MICHIGAN

3														
4														
5														

EASON FOR ECON. OR FUNC. DEPR.

TOTAL

FLAT EXPENSE ITEMS

Land	
Vacancy	
Heating	
Water	
Electricity	
Janitor	
Management	

FOUNDATION

- oncrete Walls
- on. Blk. Walls
- rick Walls
- tone Walls
- ile Walls

BASEMENT AREA

	½	¾	F

EXTERIOR WALLS

- olid Com. Brick
- m. Br. on Tile, or C.B.
- ice Br. on Com. Br.
- e. Br. on Tile or C.B.
- ce Br. Ven.
- m. Br. Ven.
- ncrete Blk.
- in. Concrete
- t Stone Facing
- rra Cotta Facing
- one or T.C. Trim
- cco on Tile or C.B.
- ucco on Frame
- ling or Shingles
- tal
- te Glass Front

ROOF TYPE

- t
- or Gable
- v String

ROOFING

- & Gravel
- position
- al
- . Conc.
- lation

FLOORS

	B	1	2	3	4	5	6
Concrete							
Earth							
Pine							
Hardwood							
Single Fl.							
Wood Joist							
Hardwood on Concr.							
Rein. Concrete							
Conc. on O.T.J.							
Terazzo							
Tile							
Rooms							

INTERIOR FINISH ON EXTERIOR WALLS

- Pine
- Hardwood
- Lath and Plaster
- Wallboard
- Unfin. Int.

CEILING FINISH

- Lath and Plas.
- No Ceiling

PARTITIONS

- L. & P.
- Plast. Bd.
- Tile or C.B.

HEATING

- Steam
- Air Cond.
- Hot Water or Vapor.
- Hot Air
- Pipeless
- No Heating
- Oil Burner
- Coal Stoker

PLUMBING

- Bathrooms
- Toilet Rooms
- Water Closet
- Lavatory
- Sink
- Urinals
- No Plumbing

TILING

- Bath Rm. Fl. & Wains.
- Toilet Rm. Fl. & Wains.
- Bath Room Flr.
- Toilet Room Flr.

LIGHTING

- Higrade
- Ave.
- Poor

STRUCTURAL

- Fire-Proof Const.
- Rein. Conc. Beams & Col's.
- Steel Beams & Col's.
- Timber Beams & Col's.
- Steel Trusses

MECHANICAL

- Sprinkler Syst.
- Passenger Elev.
- Freight Elev.
- Dumb Waiter

MISCELLANEOUS

- Steel Frame Sash
- Wood Frame Sash
- Fire Escapes
- Vaults
- Skylights
- Remodeled

10' 10' 10' 10' 12' 8.5'

PERCENTAGE ITEMS

Taxes	
Insurance	
Maintenance	
Depr. Allowance	
Contingencies	
Total Cap. Rate	
Ratio Expense to Income	
Total Flat Expenses	
Gross Annual Income	
Less Flat Expenses	
Balance For Cap.	
Cap. Rate	
Reflected Cap. Value of Bldg.	

BUILDING COMPUTATION

Verticals	
Horizontals	
Flats	
Replace Val.	

Location

Excel. Good Fair Poor

VERTICALS

WALLS

:-	L.F.	@	
R-	L.F.	@	
RT.-	L.F.	@	
-	L.F.	@	
L. GL.-	L.F.	@	
	L.F.	@	
	L.F.	@	

TOTAL

HORIZONTALS

	ADD	DED
BASE		
BSM.		
FLOOR		
CEILING		
PAR. UP		
PAR. DWN		
HEAT		
LIGHTS		
TOTALS		

FLATS

PLUMBING

sured by Listed by Priced by Checked

146

CARD # 6-26

COMMERCIAL REAL ESTATE RECORD CARD

NO. OF CARDS CARD NO. 1

OWNERSHIP RECORD AND DESCRIPTION

IND.

A856 S. E. OVERTON CO.
10-1-17 ELKENBURG ST.
SOUTH HAVEN, MICH.
49090

COM AT THE NW COR ELKENBURG ST & INDIANA AVE, TH W 362.58', TH N 2.64', TH N 24°-40'W 48.67', TH RT CURVE RADIUS 861.41' TO FAR END OF CHORD RUNNING N 20°-40½'W 119.3',

A856

TH RT CURVE RADIUS 708.17' TO FAR END OF CHORD RUNNING N 13°-30'W 79.26', TH RT CURVE RADIUS 822.55' TO FAR END OF CHORD RUNNING N 7°-0'W 80.87' TO A PT 12.5' E OF CEN LINE

APPROX 5.59 A

7700

Plat #1

BUILDING PERMIT RECORD

DATE	AMOUNT	PURPOSE

OWNERSHIP RECORD

	DATE	VOL	PAGE	CONSIDERATION

EXPLANATION FOR LAND ADJUSTMENT

S.E. Overton Co.

APPRAISAL SUMMARY

YEAR	1974
LAND	11,180
BLDGS.	1,079,880
TOTAL	1,091,060

ASSESSMENT SUMMARY

YEAR	1974
LAND	
BLDGS.	545,500
TOTAL	~~551,100~~

APPRAISAL SUMMARY

YEAR	1977
LAND	
BLDGS.	
TOTAL	345,000

ASSESSMENT SUMMARY

YEAR	1982
LAND	
BLDGS.	
TOTAL	370,300

APPRAISAL SUMMARY

YEAR	1983-1984
LAND	
BLDGS.	
TOTAL	370,300

ASSESSMENT SUMMARY

YEAR	1985
LAND	
BLDGS.	
TOTAL	370,300

LAND RECORD AND COMPUTATION OF VALUE

FRONT	REAR	FRONT FIGURED	DEPTH AVE.	F. F. PRICE	DEPTH PER CENT	ACTUAL F. F. PRICE	SUB TOTAL	CORNER INFL.	$ ADJUSTMENT	TOTAL
	approx	5.59	acres	@ 2000	per acre		22,360			11,180

STRICT TREND	IMPROVING	STATIC	DECLINING	WARD	ZONE	
IVEWAY	RIBBON	SLAB	GRAVEL	STONE		
AD	PAVED	GRAVEL	DIRT	SIDEWALK		
ILITIES	NO GAS	NO WATER	NO ELECTRIC	NO SEWER	NO TELEPHONE	
POGRAPHY	LOW	HIGH	ROUGH	BRUSH	LANDSCAPING	POOR / AVE. / GOOD

TRIM

CONC HARDENER
TILE

INCANDESCENT
MERCURY VAPOR
BUS DUCT
PANEL BOARDS
DISTRIBUTION CEN.
TRANSFORMERS

24. INT. FOUND

PILING
DRILLED CAISSONS
REINF. CONC.

30. CEILING FINISH

ACOUSTIC TILE
GYPSUM BOARD
PLASTER
PAINT
WOOD

25. FRAMING

WOOD FRAME
CONC. BLOCK
BRICK
STEEL/OPEN
STEEL/FIREPROOF
REINF. CONC.
PRECAST CONC
PRE-ENGINEERED

35. FIRE PROTECTION

SPRINKLER SYSTEM
CITY WATER SUPPLY
PRIVATE SYSTEM

31. PARTITIONS

MASONRY
STUD FRAMING
MOVABLE
PLASTER
DRYWALL
FURRING
MARBLE
HARDBOARD
PAINT

36. MISCELLANEOUS

ELEVATORS
ESCALATORS
STAIRS
LOADING DOCKS
DOCK LEVELERS
INCINERATORS
CRANES

26. SLAB ON GROUND

CONCRETE
REINF. CONC.

REMARKS: A-856

CD 2 OF 2

37. CONSTRUCTION

GOOD | AVERAGE
POOR | CHEAP

38. YEAR BUILT

39. YEAR REMODELED

40. PERCENT CONDITION

PERSON INTERVIEWED

EXAMINED BY

DATE

BUILDING VALUE COMPUTATIONS

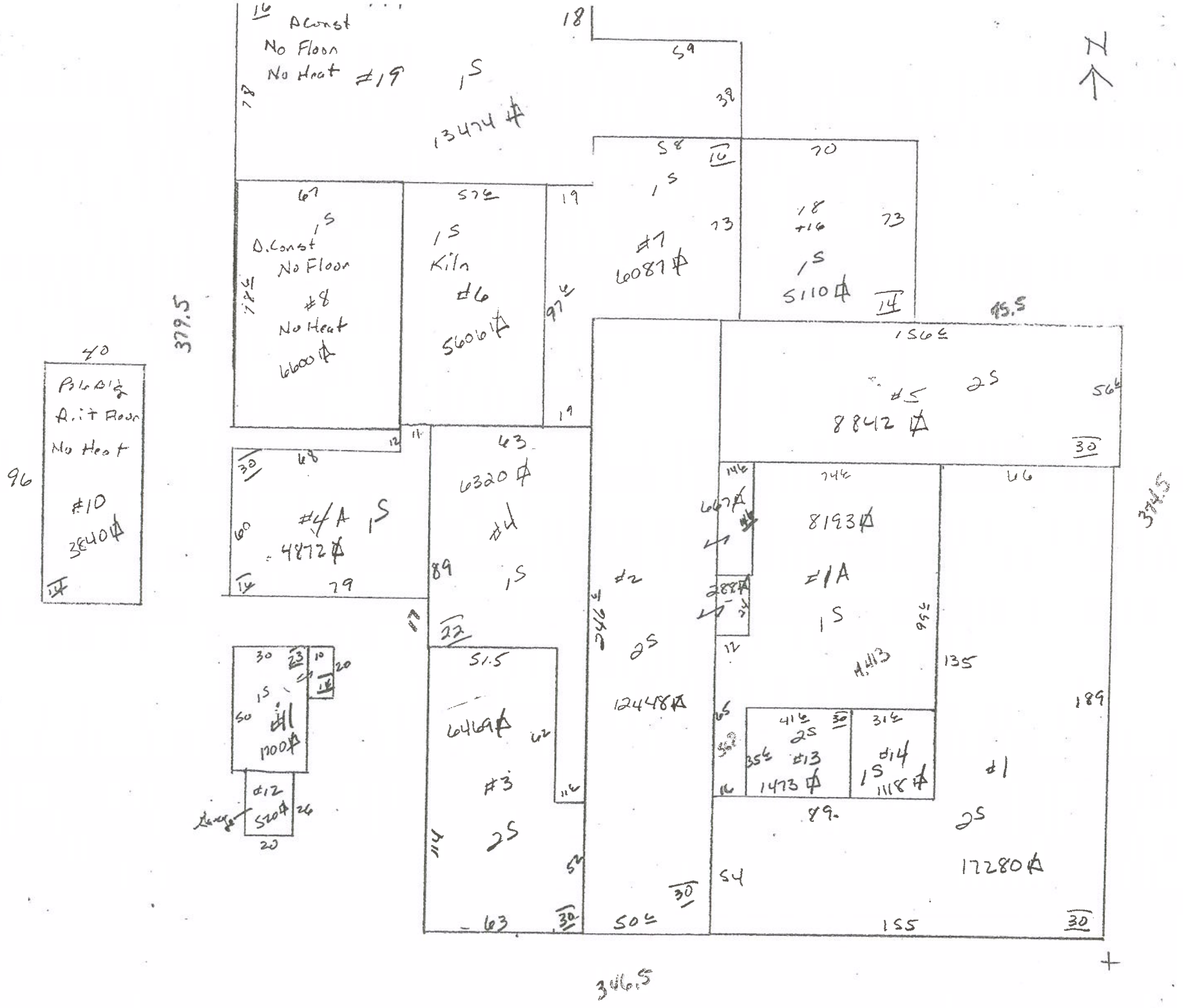
TYPE OF BUILDING	NO. STYS	SQ. FT.	UNIT COST	BASE VALUE	ADDITIONS AND DEDUCTIONS ITEM	ADDITIONS AND DEDUCTIONS AMOUNT	REPRODUCTION COST NEW	PHYS. DEP. % COND.	REPRODUCTION COST DEP'D	ECONOMIC COND. %	COST MOD.	COMP. MULT.	TRUE CASH VALUE
#4 A	1	4872	$30.65	$149327	Sprinklers @ .94	$4580	$153907	36/75	$41,555	73			$30335
#5	2	17624	25.68	454125	"	16623	470748	36/25	42,367	73			30928
#6	1	5606	21.92	122884	"	5270	128154	36/75	34,602	73			25259
#7	1	6087	21.92	133427	"	5722	139149	36/75	37,570	73			27426
#8	1	6600	3.99	26334	"	6204	32538	36/75	8,785	73			6413

BUILDING VALUE COMPUTATIONS

TYPE OF BUILDING	NO. STYS	SQ. FT.	UNIT COST	BASE VALUE	ADDITIONS AND DEDUCTIONS ITEM	ADDITIONS AND DEDUCTIONS AMOUNT	REPRODUCTION COST NEW	PHYS. DEP. % COND.	REPRODUCTION COST DEP'D	ECONOMIC COND. %	COST MOD.	COMP. MULT.	TRUE CASH VALUE
#10	1	3840	$3.86	$14822	"	$3610	$18432	36/75	$4,977	73			$3633
#11+12	1	1720	17.76	30547	"	1617	32164	36/75	8,684	73			6339
#13	2	2946	25.68	75653	"	2769	78422	36/25	20,058	73			5152
#14	1	1118	21.49	24026	"	1051	25077	36/75	6,771	73			4943
#18+16	1	5110	21.07	107668	"	4803	112471	36/75	30,367	73			22168

BUILDING VALUE COMPUTATIONS

TYPE OF BUILDING	NO. STYS	SQ. FT.	UNIT COST	BASE VALUE	ADDITIONS AND DEDUCTIONS ITEM	ADDITIONS AND DEDUCTIONS AMOUNT	REPRODUCTION COST NEW	PHYS. DEP. % COND.	REPRODUCTION COST DEP'D	ECONOMIC COND. %	COST MOD.	COMP. MULT.	TRUE CASH VALUE
#19	1	13424	$2.99	$53761	"	$12666	$66427	36/75	$17,935	73			$13093
									240,680				
									+ 271,815				
									[illegible]				[illegible]


A Const
No Floor
No Heat
#19
1S
13474
D. Const
No Floor
#8
No Heat
6600
1S
Kiln
#6
5606
#7
6087
18
+16
5110
#5
8842
2S
#4A
4872
6320
#4
#2
12448
#1A
8193
4413
#1
17280
#11
1100
#12
520
#3
6469
#13
1473
#14
1118
Pole Bldg
Dirt Floor
No Heat
#10
3840
379.5
374.5
346.5
45.5

TYPE

21. EXT. WALLS

- [ ] CONC. BLOCK
- [x] COMMON BRICK
- [ ] FACE BRICK
- [ ] BRICK/BLOCK
- [ ] SANDWICH PANEL
- [ ] REINF. CONC.
- [ ] PRECAST CONC. PANEL
- [ ] WINDOW CURTAIN
- [x] SIDING Rear

22. FOUNDATION WALL

- [ ] POST
- [x] CONCRETE
- [x] BRICK
- [ ] CONC. BLOCK
- [ ] STONE
- [ ] PILING

23. PARAPET WALL

- [ ] REINF. CONC.
- [ ] COMMON BRICK
- [x] FACE BRICK
- [ ] TRIM:

24. INT. FOUND

- [ ] PILING
- [ ] DRILLED CAISSONS
- [ ] REINF. CONC.

25. FRAMING

- [x] WOOD FRAME
- [ ] CONC. BLOCK
- [x] BRICK
- [x] STEEL/OPEN
- [ ] STEEL/FIREPROOF
- [ ] REINF. CONC.
- [ ] PRECAST CONC.
- [ ] PRE-ENGINEERED

26. SLAB ON GROUND

- [ ] CONCRETE
- [x] REINF. CONC.

27. STRUCTURAL FLOORS

- [x] WOOD
- [ ] STEEL AND CONC.
- [ ] METAL DECK
- [ ] CONC. BEAM & SLAB
- [ ] CONC. FLAT SLAB
- [ ] PRECAST CONC. SLAB

28. ROOF & DRAINAGE

- [ ] METAL DECK
- [ ] METAL DECK & CONC.
- [ ] REINF. CONC.
- [ ] CONC. PLANK
- [x] WOOD
- [x] INSUL. Sound
- [ ] ASPHALT SHINGLE
- [x] BUILT-UP T & G
- [ ] ASPHALT ROLL
- [x] DOWNSPOUTS
- [x] GUTTERS
- [ ] ROOF DRAINS
- [ ] BAR JOIST

29. FLOOR FINISH

- [ ] HARDWOOD
- [x] SOFTWOOD
- [ ] LINOLEUM
- [ ] TERRAZZO
- [x] CARPETING O&C
- [ ] WOOD BLOCK
- [ ] CONC. HARDENER
- [x] TILE O&C

30. CEILING FINISH

- [x] ACOUSTIC TILE Suspended
- [ ] GYPSUM BOARD
- [ ] PLASTER
- [ ] PAINT
- [ ] WOOD

31. PARTITIONS

- [ ] MASONRY
- [x] STUD FRAMING
- [ ] MOVABLE
- [ ] PLASTER
- [x] DRYWALL
- [ ] FURRING
- [ ] MARBLE
- [ ] HARDBOARD
- [ ] PAINT

32. PLUMBING

- [ ] NONE
- [ ] BATH
- [ ] TILE FLOORS
- [ ] TILE WALLS
- [ ] SHOWER STALL
- [x] LAVATORY 2 PC.
- [ ] WATER CLOSET
- [ ] WASH BOWL
- [ ] URINALS
- [ ] WASHFOUNTAINS
- [ ] WATER HEATERS
- [ ] WATER SOFTENERS

33. HEATING & A.C.

- [x] GAS
- [ ] OIL
- [ ] ELECTRIC
- [x] STEAM-CENTRAL
- [x] UNIT HEATERS
- [ ] FORCED WARM AIR
- [ ] WALL HEATERS
- [ ] AIR CONDITIONING

34. ELECTRICAL

- [ ] ROMEX
- [x] CONDUIT
- [x] FLUORESCENT
- [ ] INCANDESCENT
- [ ] MERCURY VAPOR
- [ ] BUS DUCT
- [ ] PANEL BOARDS
- [ ] DISTRIBUTION CEN.
- [ ] TRANSFORMERS

35. FIRE PROTECTION

- [x] SPRINKLER SYSTEM
- [ ] CITY WATER SUPPLY
- [ ] PRIVATE SYSTEM

36. MISCELLANEOUS

- [x] ELEVATORS
- [ ] ESCALATORS
- [ ] STAIRS
- [ ] LOADING DOCKS
- [ ] DOCK LEVELERS
- [ ] INCINERATORS
- [ ] CRANES

41. PLAN OF BUILDING 1 SPACE =

Seg. 1

P 1,580

GFA 104,000

S 2

REMARKS: See attached

271,815
240,680
512,495

EFFAg 40 yrs 36%

1988 SAR:
510,495 after phy. dep.
X 53.43% func. obsol.
X 65% ECF
168,000 B.O.R.'89
78,000 BLDG.
22,000 LAND
200,000 TCV
100,000 NV

37. CONSTRUCTION

- [ ] GOOD
- [ ] POOR
- [ ] AVERAGE
- [ ] CHEAP

38. YEAR BUILT

39. YEAR REMODELED

40. PERCENT CONDITION

PERSON INTERVIEWED: Frank Overton

EXAMINED BY: RO

DATE: 8/26/85

BUILDING VALUE COMPUTATIONS

TYPE OF BUILDING	NO. STYS.	SQ. FT.	UNIT COST	BASE VALUE	ADDITIONS AND DEDUCTIONS ITEM	ADDITIONS AND DEDUCTIONS AMOUNT	REPRODUCTION COST NEW	PHYS. DEP. % COND.	REPRODUCTION COST DEP'D	ECONOMIC COND. %	COST MOD.	COMP. MULT.	TRUE CASH VALUE
#1	2	34560	$25.68	$887501	Sprinklers @.94	$32486	$919927	36/25	$82799	73			$60443
#2	2	26806	25.68	688378	Sprinklers 0.94	-5198	713576	36/25	64222	73			46872
#1A	1	8193	21.49	176068	"	7701	183769	36/25	49618	73			[illegible]
#3	2	12938	25.68	332248	"	12162	344410	36/25	30997	73			22,2[illegible]
#4	1	6320	24.95	157684	"	5941	[illegible]	36/25	[illegible]	73			[illegible]

INDUSTRIAL

S E OVERTON CO
561 Monroe Blvd
~~ELKENBURG ST~~
SOUTH HAVEN MI 49090

MAIL TO:

See A-857
156,000 *

1042

Map No.	Book No.	Page No	Parcel Code No
T 1			A 856

Property Address 229 Elkenburg St Ave.

Building or Alteration Permit	Date	Amount
		$

Date of Transfer	Grantee's Name	Address	Revenue Stamp	Verified Sale Price

A856 10-1-17

* 1988 BOR: furniture about. See back of card.

BEG AT NW COR OF ELKENBURG ST & INDIANA AVE, TH N 89 DEG 52' W ALG N L OF ELKENBURG ST 362.58', TH N 2.64', TH N 24 DEG 40' W 48.67', TH ALG CURVE TO RT WITH RAD OF 861.41' & CHORD BEARING N 20 DEG 40' 30" W 119.3', TH ALG CURVE TO RT WITH RAD OF 708.17' & CHORD BEARING N 13 DEG 30' W 79.26', TH ALG CURVE TO RT WITH RAD OF 822.55' & CHORD BEARING N 7 DEG W 80.87' TO PT 12.5' E OF CEN L MAIN TRACK OF RR, TH N PAR SD CEN L 230.2', TH N 5 DEG 50' E 10', TH N 9 DEG 21' E 37.9' TO PT 627' N OF S L OF NW1/4 SW1/4 OF SEC, TH S 89 DEG 52' E PAR SD S L 174' TO N & S 1/8 L OF SW1/4 OF SEC, TH N ALG SD 1/8 L 85.79', TH E 112.58', TH S CONTINUED

LAND SKETCH

22,000

167,924

189,924

1995 62,250
1994 59,800
1993 60,000
1992 [illegible]

Dirt		Sidewalk	Gas
Gravel		Water	Electric
Paved		Sewer	Fence
Curb			

LAND IMPROVEMENTS

LAND VALUE COMPUTATIONS 1986

Lot Size	Depth Factor	Equiv. Front	Rate	Base Value
5.5 Ac		900 Ac	$	$ 22,000

TOTAL LAND	$ 22,000
TOTAL LAND IMPROVEMENTS	$ —
TOTAL BUILDING 168,000 BOR '89 — BOR 1988 178,000 ~~333,114~~	$ 374,114
TOTAL APPRAISED VALUE 190,000 BOR '89 — BOR 200,000 ~~355,114~~	$ 396,114
	396,100

Year	Assessed Valuation	Board of Review	Tax Commission
1986	$ 192,100	$	$
1987	198,100		
1988	177,550	*100,000	
1989	100,000	95,000	
1990	95,150		
1991	94,950		

3													
4													
5													

REASON FOR ECON. OR FUNC. DEPR.

TOTAL

Vacancy	
Heating	
Water	
Electricity	
Janitor	
Management	

FOUNDATION

- Concrete Walls
- Con. Blk. Walls
- Brick Walls
- Stone Walls
- Tile Walls

BASEMENT AREA

¼ | ½ | ¾ | F

EXTERIOR WALLS

- Solid Com. Brick
- Com. Br. on Tile, or C.B.
- Face Br. on Com. Br.
- Face. Br. on Tile, or C.B.
- Face Br. Ven.
- Com. Br. Ven.
- Concrete Blk.
- Rein. Concrete
- Cut Stone Facing
- Terra Cotta Facing
- Stone or T.C. Trim
- Stucco on Tile or C.B.
- Stucco on Frame
- Siding or Shingles
- Metal
- Plate Glass Front

ROOF TYPE

- Flat
- Slip or Gable
- Low String

ROOFING

- Tar & Gravel
- Composition
- Metal
- Rein. Conc.
- Insulation

FLOORS

	B	1	2	3	4	5	6
Concrete							
Earth							
Pine							
Hardwood							
Single Fl.							
Wood Joist							
Hardwood on Concr.							
Rein. Concrete							
Conc. on O.T.J.							
Terazzo							
Tile							
Rooms							

INTERIOR FINISH ON EXTERIOR WALLS

- Pine
- Hardwood
- Lath and Plaster
- Wallboard
- Unfin. Int.

CEILING FINISH

- Lath and Plas.
- No Ceiling

PARTITIONS

- L. & P.
- Plast. Bd.
- Tile or C.B.

HEATING

- Steam
- Air Cond.
- Hot Water or Vapor.
- Hot Air
- Pipeless
- No Heating
- Oil Burner
- Coal Stoker

PLUMBING

- Bathrooms
- Toilet Rooms
- Water Closet
- Lavatory
- Sink
- Urinals
- No Plumbing

TILING

- Bath Rm. Fl. & Wains.
- Toilet Rm. Fl. & Wains.
- Bath Room Flr.
- Toilet Room Flr.

LIGHTING

- Higrade
- Ave.
- Poor

STRUCTURAL

- Fire-Proof Const.
- Rein. Conc. Beams & Col's.
- Steel Beams & Col's.
- Timber Beams & Col's.
- Steel Trusses

MECHANICAL

- Sprinkler Syst.
- Passenger Elev.
- Freight Elev.
- Dumb Waiter

MISCELLANEOUS

- Steel Frame Sash
- Wood Frame Sash
- Fire Escapes
- Vaults
- Skylights
- Remodeled

10' 10' 10' 10' 12' 0.5'

PERCENTAGE ITEMS

Taxes	
Insurance	
Maintenance	
Depr. Allowance	
Contingencies	
Total Cap. Rate	
Ratio Expense to Income	
Total Flat Expenses	
Gross Annual Income	
Less Flat Expenses	
Balance For Cap.	
Cap. Rate	
Reflected Cap. Value of Bldg.	

BUILDING COMPUTATION

Verticals	
Horizontals	
Flats	
Replace Val.	

Location

Excel. Good Fair Poor

VERTICALS

WALLS

F-	L.F.	@	
R-	L.F.	@	
RT.-	L.F.	@	
L-	L.F.	@	
PL. GL.-	L.F.	@	
	L.F.	@	
	L.F.	@	

TOTAL

HORIZONTALS ADD DED

BASE			
BSM.			
FLOOR			
CEILING			
PAR. UP			
PAR. DWN			
HEAT			
LIGHTS			
TOTALS			

S.F. @

FLATS

PLUMBING

TOTAL

Measured by Listed by Priced by Checked by Final by

CARD # 0-27

COMMERCIAL REAL ESTATE RECORD CARD

NO. OF CARDS | CARD NO.

OWNERSHIP RECORD AND DESCRIPTION

Res.

A857 S. E. OVERTON CO.
10-1-17 ELKENBURG ST.
SOUTH HAVEN, MICH.
49090

COM 386' N OF NW COR OF ELKENBURG ST & INDIANA AVE, TH W 122.58', TH N 150', TH E 122.58', TH S 150' TO BEG.

Joe

BUILDING PERMIT RECORD

DATE	AMOUNT		PURPOSE

OWNERSHIP RECORD

	DATE	VOL	PAGE	CONSIDERATION

EXPLANATION FOR LAND ADJUSTMENT

APPRAISAL SUMMARY

YEAR	
LAND	4990
BLDGS.	—
TOTAL	499[illegible]

ASSESSMENT SUMMARY

YEAR	1974
LAND	
BLDGS.	
TOTAL	2450

APPRAISAL SUMMARY

YEAR	1982
LAND	
BLDGS.	
TOTAL	280[illegible]

ASSESSMENT SUMMARY

YEAR	1983-1984
LAND	
BLDGS.	
TOTAL	2800

APPRAISAL SUMMARY

YEAR	[illegible]
LAND	
BLDGS.	
TOTAL	[illegible]

ASSESSMENT SUMMARY

YEAR	
LAND	
BLDGS.	
TOTAL	

LAND RECORD AND COMPUTATION OF VALUE

FRONT	REAR	FRONT FIGURED	DEPTH AVE.	F. F. PRICE	DEPTH PER CENT	ACTUAL F. F. PRICE	SUB TOTAL	CORNER INFL.	$ ADJUSTMENT	TOTAL
		150	122	35	95	33.25	4987			4987

ISTRICT TREND	IMPROVING	STATIC	DECLINING	WARD	ZONE	
RIVEWAY	RIBBON	SLAB	GRAVEL	STONE		
OAD	PAVED	GRAVEL	DIRT	SIDEWALK		
TILITIES	NO GAS	NO WATER	NO ELECTRIC	NO SEWER	NO TELEPHONE	
OPOGRAPHY	LOW	HIGH	ROUGH	BRUSH	LANDSCAPING	POOR / AVE. / GOOD

GEM SURVEYS — ST. CLAIR MICHIGAN

21. EXT. WALLS

- CONC. BLOCK
- COMMON BRICK
- FACE BRICK
- BRICK/BLOCK
- SANDWICH PANEL
- REINF. CONC.
- PRECAST CONC. PANEL
- WINDOW CURTAIN
- SIDING

22. FOUNDATION WALL

- POST
- CONCRETE
- BRICK
- CONC. BLOCK
- STONE
- PILING

23. PARAPET WALL

- REINF. CONC.
- COMMON BRICK
- FACE BRICK
- TRIM:

24. INT. FOUND

- PILING
- DRILLED CAISSONS
- REINF. CONC.

25. FRAMING

- WOOD FRAME
- CONC. BLOCK
- BRICK
- STEEL/OPEN
- STEEL/FIREPROOF
- REINF. CONC.
- PRECAST CONC.
- PRE-ENGINEERED

26. SLAB ON GROUND

- CONCRETE
- REINF. CONC.

27. STRUCTURAL FLOORS

- WOOD
- STEEL AND CONC.
- METAL DECK
- CONC. BEAM & SLAB
- CONC. FLAT SLAB
- PRECAST CONC. SLAB

28. ROOF & DRAINAGE

- METAL DECK
- METAL DECK & CONC.
- REINF. CONC.
- CONC. PLANK
- WOOD
- INSUL.
- ASPHALT SHINGLE
- BUILT-UP T & G
- ASPHALT ROLL
- DOWNSPOUTS
- GUTTERS
- ROOF DRAINS
- BAR JOIST

29. FLOOR FINISH

- HARDWOOD
- SOFTWOOD
- LINOLEUM
- TERRAZZO
- CARPETING
- WOOD BLOCK
- CONC. HARDENER
- TILE

30. CEILING FINISH

- ACOUSTIC TILE
- GYPSUM BOARD
- PLASTER
- PAINT
- WOOD

31. PARTITIONS

- MASONRY
- STUD FRAMING
- MOVABLE
- PLASTER
- DRYWALL
- FURRING
- MARBLE
- HARDBOARD
- PAINT

32. PLUMBING

- NONE
- BATH
- TILE FLOORS
- TILE WALLS
- SHOWER STALL
- LAVATORY 2 PC.
- WATER CLOSET
- WASH BOWL
- URINALS
- WASHFOUNTAINS
- WATER HEATERS
- WATER SOFTENERS

33. HEATING & A.C.

- GAS
- OIL
- ELECTRIC
- STEAM-CENTRAL
- UNIT HEATERS
- FORCED WARM AIR
- WALL HEATERS
- AIR CONDITIONING

34. ELECTRICAL

- ROMEX
- CONDUIT
- FLUORESCENT
- INCANDESCENT
- MERCURY VAPOR
- BUS DUCT
- PANEL BOARDS
- DISTRIBUTION CEN.
- TRANSFORMERS

35. FIRE PROTECTION

- SPRINKLER SYSTEM
- CITY WATER SUPPLY
- PRIVATE SYSTEM

36. MISCELLANEOUS

- ELEVATORS
- ESCALATORS
- STAIRS
- LOADING DOCKS
- DOCK LEVELERS
- INCINERATORS
- CRANES

41. PLAN OF BUILDING 1 SPACE =

REMARKS:

37. CONSTRUCTION

- GOOD
- AVERAGE
- POOR
- CHEAP

38. YEAR BUILT

39. YEAR REMODELED

40. PERCENT CONDITION

PERSON INTERVIEWED: Frank Durrton

EXAMINED BY: RS

DATE: 8/26/85

BUILDING VALUE COMPUTATIONS

TYPE OF BUILDING	NO. STYS.	SQ. FT.	UNIT COST	BASE VALUE	ADDITIONS AND DEDUCTIONS ITEM	ADDITIONS AND DEDUCTIONS AMOUNT	REPRODUCTION COST NEW	PHYS. DEP. % COND.	REPRODUCTION COST DEP'D	ECONOMIC COND. %	COST MOD.	COMP. MULT.	TRUE CASH VALUE
			$	$		$	$		$				$

S E OVERTON CO
561 Monroe Blvd
~~ELKENBURG ST~~
SOUTH HAVEN MI 49090

MAIL TO: See A-85A

Date of Transfer	Grantee's Name	Address	Revenue Stamp	Verified Sale Price

A857 10-1-17
BEG AT PT 751.09' S OF E & W 1/4 L & 150' E OF W 1/8 L OF SEC, TH E 122.58', TH S 150', TH S 122.58', TH N 150' TO BEG.
SECTION 10

6,750

6,750

1995	3,400
1994	3,350
1993	3,350
1992:	3,350

~~Map No.~~	Book No.	Page No.	Parcel Code No
I-1			A857

Property Address Part of 229 Elkenburg St Ave.

Building or Alteration Permit	Date	Amount
		$

LAND IMPROVEMENTS

	Dirt	✓	Sidewalk	✓	Gas
	Gravel	✓	Water	✓	Electric
✓	Paved	✓	Sewer		Fence
✓	Curb				

LAND VALUE COMPUTATIONS

Lot Size	Depth Factor	Equiv. Front	Rate	Base Value
0.42 Ac			$	$
150 x 122.8	90	135	50	6750

TOTAL LAND	$ 6750
TOTAL LAND IMPROVEMENTS	$
TOTAL BUILDING	$
TOTAL APPRAISED VALUE	$ 6750
	6700

Year	Assessed Valuation	Board of Review	Tax Commission
1986	$ 3,400	$	$
1987	3,400		
1988	3,400		
1989	3,400		
1990	3,400		
1991	3,350		

Form L-4189

Pool
Pool House
Blding
A.i.t Floor
No Heat
#10
Blding
No Floor
No Heat
#9
Blding
No Floor
No Heat
#8
Blding
A.i.t Floor
No Heat
#7
Blding
A.i.t Floor
No Heat
#6
Blding
A.i.t Floor
No Heat
#5
Blding
A.i.t Floor
No Heat
#4
Blding
A.i.t Floor
No Heat
#3
Blding
A.i.t Floor
No Heat
#2
Blding
A.i.t Floor
No Heat
#1

SKETCH/AREA TABLE ADDENDUM

File No 80-53-260-006-00

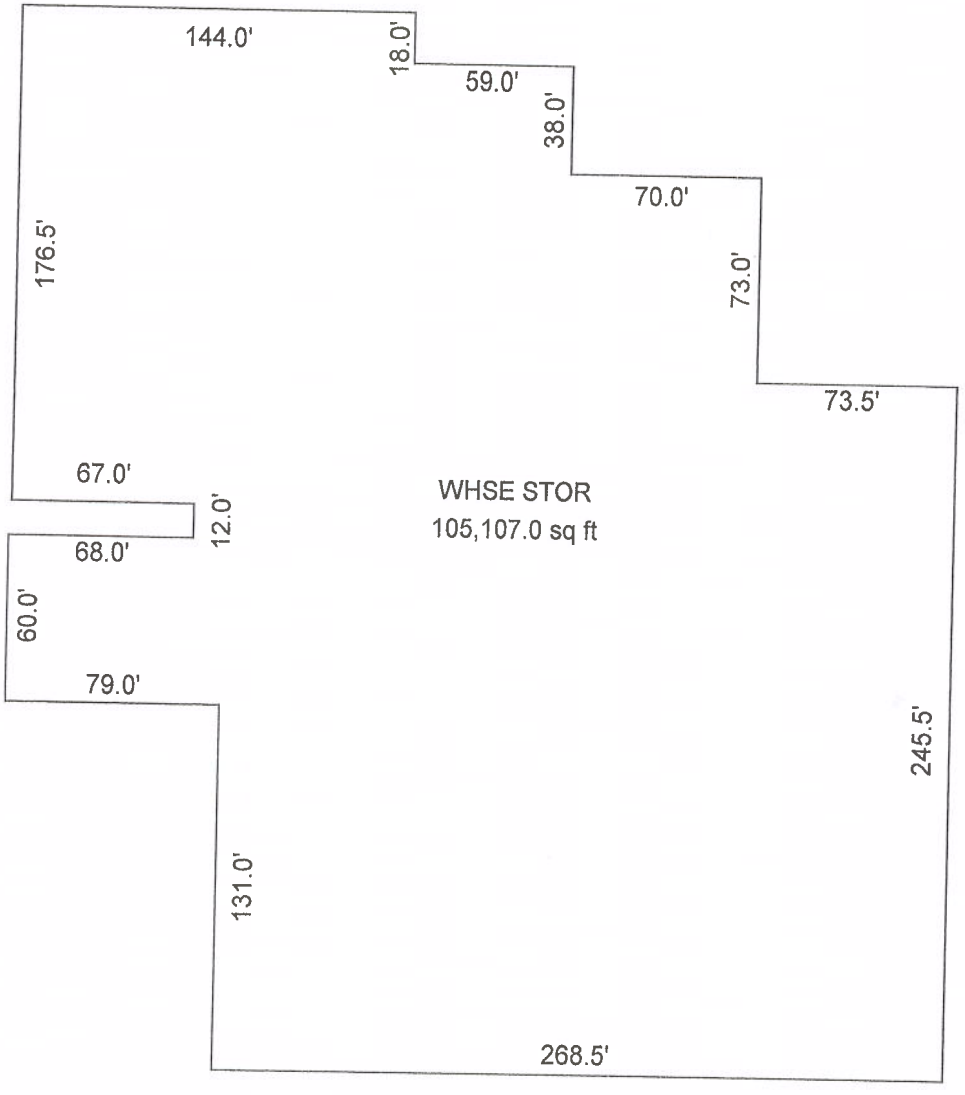
Property Address 229 ELKENBURG ST

City SOUTH HAVEN County VAN BUREN State MI Zip 49090

Owner ELC CORP

Client

Appraiser Name

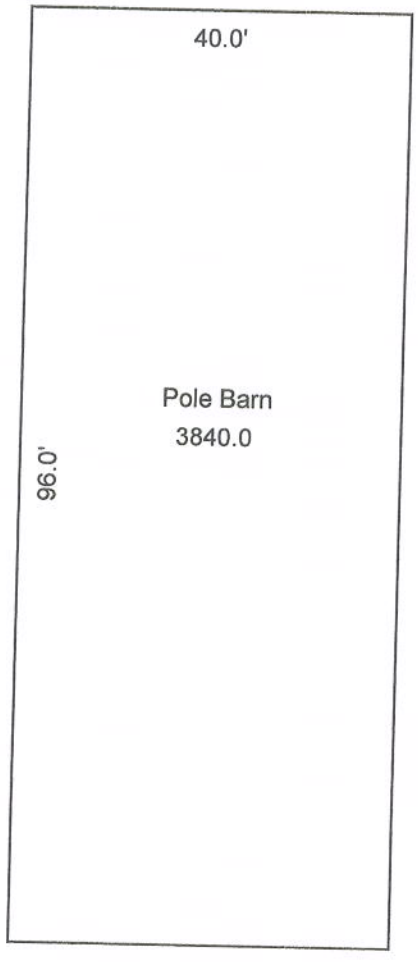


Scale: 1 = 70

SKETCH/AREA TABLE ADDENDUM

File No 80-53-260-006-00

Property Address 229 ELKENBURG ST			
City SOUTH HAVEN	County VAN BUREN	State MI	Zip 49090
Owner ELC CORP			
Client			
Appraiser Name			



Scale: 1 = 20

SKETCH/AREA TABLE ADDENDUM

File No 80-53-260-006-00

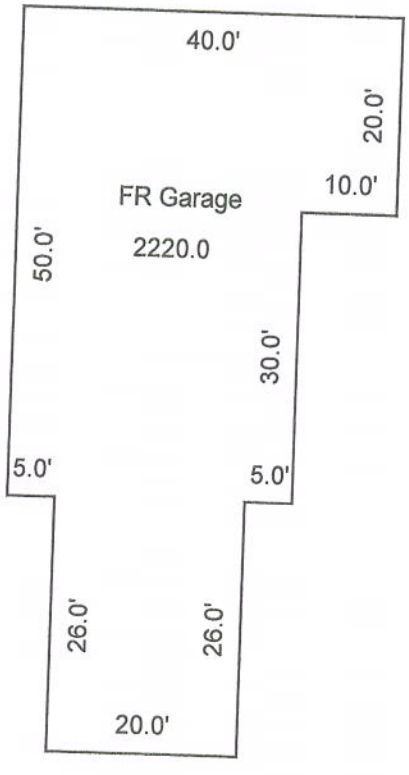
Property Address 229 ELKENBURG ST

City SOUTH HAVEN County VAN BUREN State MI Zip 49090

Owner ELC CORP

Client

Appraiser Name



Scale: 1 = 20

Old boiler remnants.

Polarine motor oil.

Central elevator.

Northeast elevator.

Stacks of wooden spools.

Three 55-gallon drums with an unknown substance.

55-gallon drums labeled flammable.

Debris from plumbing materials.

APPENDIX A PHOTOPLATE - TAKEN BY LAWRENCE LEONARDI
229 ELKENBURG, SOUTH HAVEN, MICHIGAN

Date: 5/22/14

Approximately 20 drums of unknown chemicals.

Additional chemcials on shelving.

Mold castings stored on the second floor.

Roof deck to the 2nd floor apartment.

Bathroom Under renovation.

Main living area on second floor under renovation.

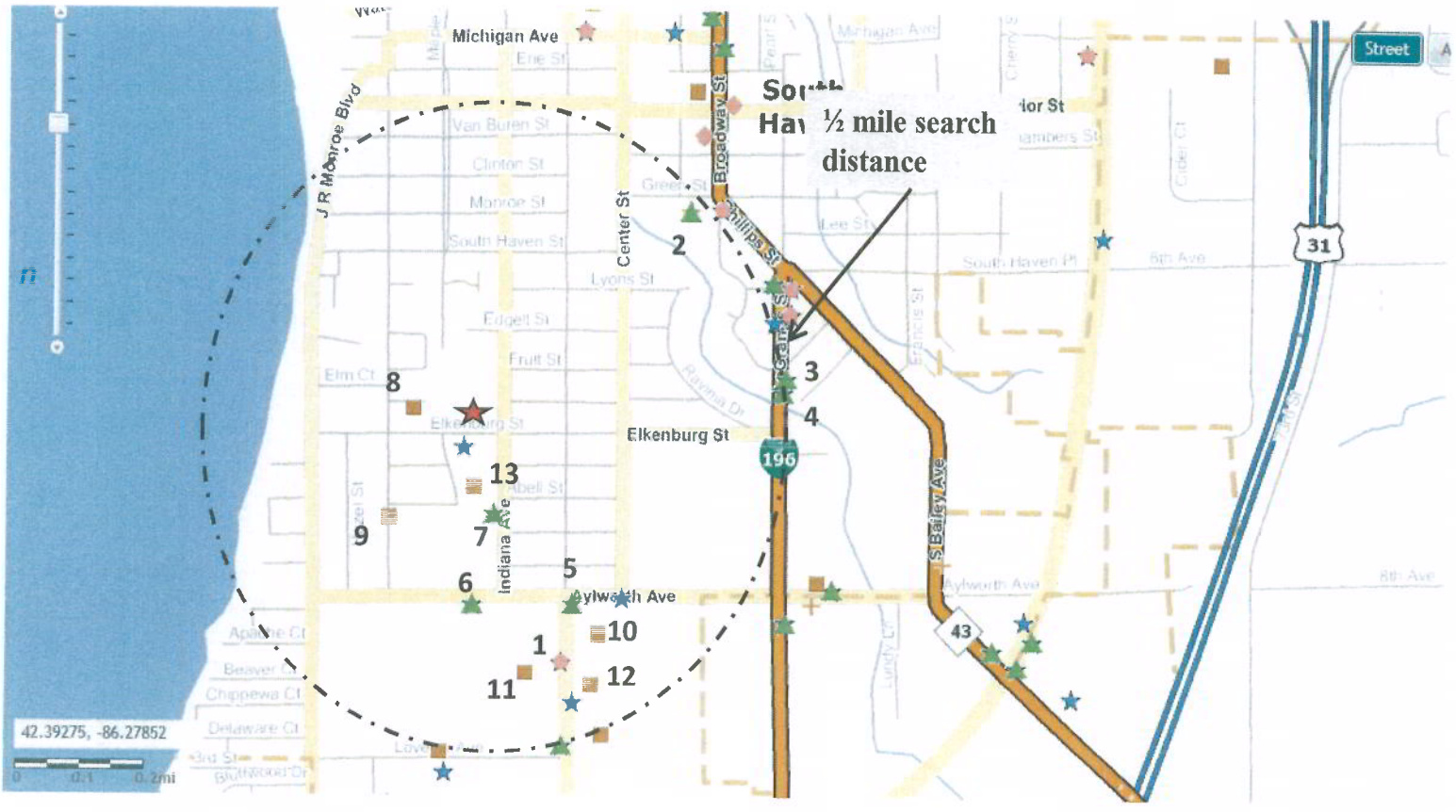
Stacks of wood.

Water on floors of warehouse due to deterorating roof and 2nd floor.

APPENDIX B
Environmental Database Search

DEQ Environmental Mapper

March 10, 2014



★ 229 Elkenburg Street, South Haven, MI

● Open Leaking Underground Storage Tank System

1. Application Engineering, Inc. – 1310 Kalamazoo Street, South Haven, MI

▲ Closed Leaking Underground Storage Tank System

2. South Haven Public Schools – 554 Green Street, South Haven, MI
3. TCI Cablevision - 807 Lagrange Street, South Haven, MI
4. Movie Outpost – 855 Lagrange Street, South Haven, MI
5. Yale-South Haven Inc. – 400 Aylworth Avenue, South Haven, MI
6. Quality Disposal – 200 Aylworth Avenue, South Haven, MI
7. National Motor Casting Site – 1070 Indiana, South Haven, MI

■ Part 201 Site

8. Belgravia - 125 Elkenburg Street, South Haven, MI (Site ID#80000010)
9. National Motor Castings - Indiana and Aylworth, South Haven, MI (Site ID# 80000195)
10. Trelleborg-YSH – 400 Aylworth Avenue, South Haven, MI (Site ID# 80000194)
11. 220 Aylworth Avenue, South Haven, MI (Site ID# 80000196)
12. Scott Aviation – 1201 Kalamazoo Street, South Haven, MI (Site ID# 80000207)
13. Everett Piano – 900 Indiana Avenue, South Haven, MI (Site ID# 80000227)

Disclaimers: The information is based in part on forms provided to the Michigan Department of Environmental Quality (MDEQ) by the owner and/or his/her consultant. The information may not be reflective of actual site and tank data due to various reasons, such as the owner's failure to report changes, an error in reporting ownership changes, and data entry errors. The locations on the maps have been identified by address matching and the use of global positioning system (GPS) instruments. The MDEQ does not make any representations regarding the accuracy of the information nor does it accept any responsibility for errors or omissions contained therein.

Click and Add Title Here

Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00012926
E.l.c Corp
229 Elkenburg St, South Haven, MI 49090
Phone# : (616) 637-1194

Owner Information:
E.L.C Corp
33338 22nd St, Kalamazoo, MI 49009
Phone# : (616) 375-4560

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	10000	4/21/1968 12:00:00 AM	Heating Oil			Bare Steel		Asphalt Coated or Bare Steel	No
2	Removed from Ground	3800	4/21/1968 12:00:00 AM	Heating Oil			Bare Steel		Asphalt Coated or Bare Steel	No
3	Removed from Ground	3800	4/21/1968 12:00:00 AM	Heating Oil			Bare Steel		Asphalt Coated or Bare Steel	No

Release Information

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Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00019076
Application Engineering Inc
1310 Kalamazoo St, South Haven, MI 49090
Phone# : 616-983-7229 x 25

Owner Information:
Pp Mosher Llc
2303 S State St, St Joseph, MI 49085
Phone# : 616-983-4940

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	2000	5/2/1983 12:00:00 AM	Gasoline						No
2	Removed from Ground	20000	5/1/1985 12:00:00 AM	Diesel						No
3	Removed from Ground	2000	5/2/1979 12:00:00 AM	Used Oil			Galvanized Steel		Fiberglass Reinforced plastic,Lined Interier	No
4	Removed from Ground	550	5/1/1976 12:00:00 AM	Gasoline			Galvanized Steel		Fiberglass Reinforced plastic,Lined Interier	No

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Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-0070-02	Application Engineering Inc	02/11/2002	Gasoline	Open			NONE

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00006663
South Haven Public Schools
554 Green St, South Haven, MI 49090
Phone# : (269) 637-0592

Owner Information:
South Haven Public Schools
554 Green St, South Haven, MI 49090
Phone# : (616) 637-0520

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Currently In Use	4000	2/21/1985 12:00:00 AM	Gasoline	Automatic Tank Gauging	Automatic Line Leak Detectors,Line Tightness Testing	Double Walled	Suction: Valve at Tank	Cathodically Protected Steel	No
2	Currently In Use	10000	2/22/1983 12:00:00 AM	Diesel	Automatic Tank Gauging	Automatic Line Leak Detectors,Line Tightness Testing	APT,Double Walled	Suction: Valve at Tank	Cathodically Protected Steel	No
3	Removed from Ground	1000	2/21/1966 12:00:00 AM	Gasoline			Unknown		Asphalt Coated or Bare Steel	No
4	Removed from Ground	1000	2/21/1966 12:00:00 AM	Gasoline			Unknown		Asphalt Coated or Bare Steel	No
5	Removed from Ground	2000	2/21/1986 12:00:00 AM	Gasoline			Bare Steel,Galvanized Steel	Suction: Valve at Tank	Asphalt Coated or Bare Steel,STIP3	No

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Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-0627-98	South Haven Public Schools	05/26/1998	Gasoline	Closed	11/21/2001	Tier II Evaluation	Deed Restrictions

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00037926
Tci Cablevision
807 Lagrange St, South Haven, MI 49090
Phone# : (616) 637-5523

Owner Information:
Arthur Niffenegger
79 N SHORE DR, SOUTH HAVEN, MI 49090
Phone# : (616) 637-5523

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	500		Gasoline			Unknown	Suction: No Valve At Tank	Cathodically Protected Steel	No
2	Removed from Ground			Gasoline			Unknown	Suction: No Valve At Tank	Cathodically Protected Steel	No

Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
170-0189-94	Tci Cablevision	02/23/1994	Gasoline	Closed	06/29/1994	Type A Evaluation	NONE

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00036826
Movie Outpost
855 Lagrange St, South Haven, MI 49090
Phone# : (616) 427-8100

Owner Information:
Jeffrey Sauer
133 W MONROE, GRAND JUNCTION, MI 49013
Phone# : (616) 434-6272

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	275	1/1/1967 12:00:00 AM	Used Oil			Bare Steel	Suction: No Valve At Tank	Asphalt Coated or Bare Steel	No
2	Removed from Ground	275	1/1/1967 12:00:00 AM	Gasoline			Bare Steel	Suction: No Valve At Tank	Asphalt Coated or Bare Steel	No

Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-1583-92	Movie Outpost	09/15/1992	Unknown	Closed	09/20/1993	Type B Evaluation	NONE

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00014687
Yale-south Haven, Inc
400 Aylworth Ave, South Haven, MI 49090
Phone# : (616) 637-2116

Owner Information:
Yale-South Haven, Inc
400 Aylworth Ave, South Haven, MI 49090
Phone# : (616) 637-2116

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	12000	6/1/1965 12:00:00 AM	PROCESS OIL			Bare Steel	Suction: Valve at Tank	Asphalt Coated or Bare Steel	No

Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-1306-92	South Haven Rubber/Yale	08/03/1992	Unknown	Closed	09/10/1992	Type A Evaluation	NONE

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:00037551
Quality Disposal
200 Aylworth Ave, South Haven, MI 49090
Phone# : (616) 637-1591

Owner Information:
Reliable Disposal
Po Box 67, South Haven, MI 49090
Phone# : (616) 637-1591

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	500	1/1/1985 12:00:00 AM	Gasoline			Bare Steel,Galvanized Steel		Asphalt Coated or Bare Steel	No
2	Removed from Ground	1000	1/1/1985 12:00:00 AM	Diesel			Galvanized Steel		Asphalt Coated or Bare Steel	No

Release Information

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Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-0191-95	Quality Refuse Service	02/20/1995	Gasoline,Diesel	Closed	05/01/1996		NONE

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Storage Tank Facilities List

Facility and Tank Details

Facility Information:
Facility ID:50005111
National Motor Casting Site
1070 INDIANA, South Haven, MI 49090
Phone# : 616-567-3522

Owner Information:
MDNR - Office of Property Management (Tax Reverted)
PO Box 30448, Lansing, MI 48909
Phone# : (517) 373-1252

Tank ID	Tank Status	Capacity (in gallons)	Installation Date	Substance Stored	Tank Release Detection	Piping Release Detection	Piping Material	Piping Type	Construction Material	Impressed Device
1	Removed from Ground	1000	1/1/1986 12:00:00 AM	Gasoline			Bare Steel,Unknown	Suction: No Valve At Tank	Asphalt Coated or Bare Steel,Unknown	No
2	Removed from Ground	250	1/1/1986 12:00:00 AM	FUEL/OIL			Bare Steel,Unknown		Asphalt Coated or Bare Steel,Unknown	No

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Release Information

Leak ID	LUST Site Name	Discovery Date	Substance Released	Release Status	Closed Date	Evaluation	Land Use Restrictions
C-1258-01	National Motor Casting Foundry	09/10/2001	Gasoline	Closed	04/09/2002	Tier I Evaluation	Notice of Corrective Action

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EPA United States Environmental Protection Agency

Envirofacts

FRS Facility Detail Report

FRS

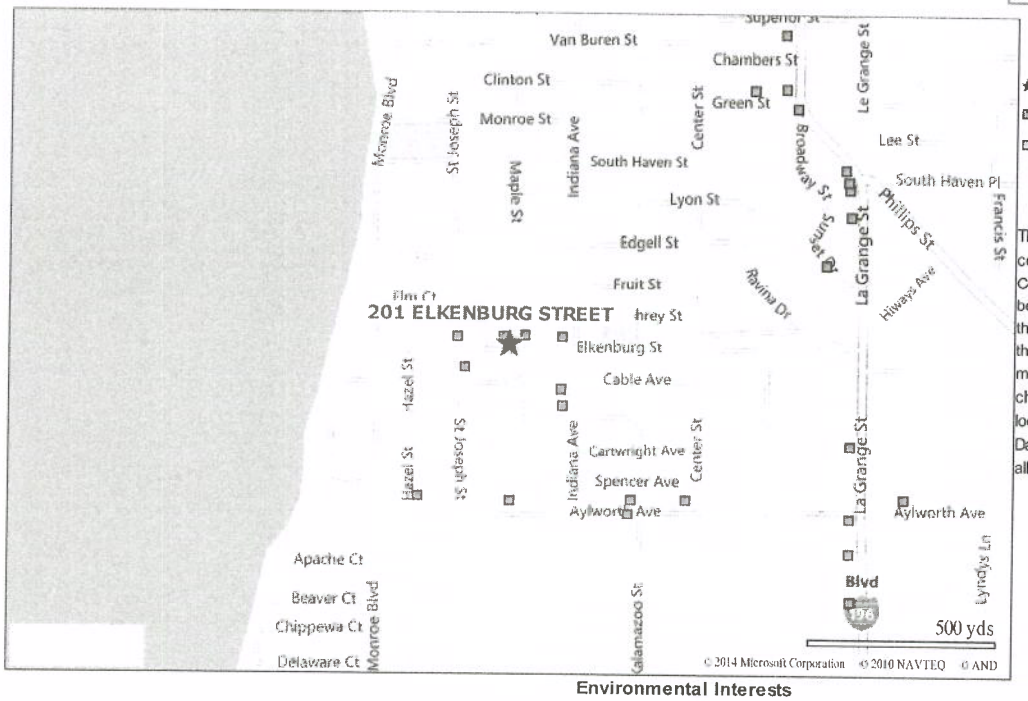
201 ELKENBURG STREET

201 ELKENBURG STREET
SOUTH HAVEN, MI 49090
EPA Registry Id: 110042111675

Facility Registry Service Links

- Search
  - FRS Facility Query
  - FRS EZ Search
  - Organization Search
- FRS Physical Data Model
- FRS Geospatial Model
- Contact Us
- Facility Registry Service (FRS) Home

Report an Error



Legend

- ★ Selected Facility
- EPA Facility of Interest
- State/Tribe Facility of Interest

The facility locations displayed come from the FRS Spatial Coordinates tables. They are the best representative locations for the displayed facilities based on the accuracy of the collection method and quality assurance checks performed against each location. The North American Datum of 1983 is used to display all coordinates.

Environmental Interests

Information System	Information System ID	Environmental Interest Type	Data Source	Last Updated Date	Supplemental Environmental Interests:
ASSESSMENT, CLEANUP AND REDEVELOPMENT EXCHANGE SYSTEM	111301	BROWNFIELDS PROPERTY	ACRES	08/13/2010	

Additional EPA Reports: MyEnvironment Cleanups in My Community Site Demographics Facility Coordinates Viewer Environmental Justice Map Viewer Watershed Report

Standard Industrial Classification Codes (SIC)

No SIC Codes returned.

National Industry Classification System Codes (NAICS)

No NAICS Codes returned.

Facility Codes and Flags

EPA Region:	05
Duns Number:	
Congressional District Number:	06
Legislative District Number:	
HUC Code/Watershed:	04050002 / BLACK-MACATAWA
US Mexico Border Indicator:	
Federal Facility:	
Tribal Land:	NO

Facility Mailing Addresses

No Facility Mailing Addresses returned.

Alternative Names

No Alternative Names returned.

Contacts

No Contacts returned.

Organizations

Affiliation Type	Name	DUNS Number	Information System	Mailing Address
PROPERTY OWNER	ELC CORPORATION		ACRES	

Query executed on: MAY-09-2014

http://www.epa.gov/reg5sfun/npl/michigan/index.html
Last updated on 4/28/2014

Region 5 Superfund (SF)

You are here: EPA Home About Region 5 Superfund National Priority List (NPL) Fact Sheets Michigan

NPL Fact Sheets for Michigan

Legend

CIC The Community Information icon appears when a community site is in place. You will find news and documents by following its link

New! icon which appears for 30 days to indicate new or updated information

	SITE NAME	CITY NAME	SITE EPA ID	MORE INFO
1.	ADAM'S PLATING	LANSING	MID006522791	CIC
2.	AIRCRAFT COMPONENTS (D & L SALES)	BENTON HARBOR	MI0001119106	
3.	ALBION-SHERIDAN TOWNSHIP LANDFILL	ALBION	MID980504450	
4.	ALLIED PAPER, INC./PORTAGE CREEK/KALAMAZOO RIVER	KALAMAZOO	MID006007306	CIC
5.	AMERICAN ANODCO, INC.	IONIA	MID006029102	
6.	ANDERSON DEVELOPMENT CO.	ADRIAN	MID002931228	
7.	AUTO ION CHEMICALS, INC.	KALAMAZOO	MID980794382	CIC
8.	AVENUE "E" GROUND WATER CONTAMINATION	TRAVERSE CITY	MID980791461	
9.	BARRELS, INC.	LANSING	MID017188673	
10.	BAY CITY MIDDLEGROUNDS	BAY CITY	MID981092935	
11.	BENDIX CORP./ALLIED AUTOMOTIVE	ST. JOSEPH	MID005107222	CIC
12.	BERLIN & FARRO	SWARTZ CREEK	MID000605717	
13.	BOFORS NOBEL, INC.	MUSKEGON	MID006030373	
14.	BURROWS SANITATION	HARTFORD	MID980410617	
15.	BUTTERWORTH #2 LANDFILL	GRAND RAPIDS	MID062222997	
16.	CANNELTON INDUSTRIES, INC.	SAULT STE MARIE	MID980678627	
17.	CARTER INDUSTRIALS, INC.	DETROIT	MID980274179	
18.	CEMETERY DUMP	ROSE CENTER	MID980794663	
19.	CHARLEVOIX MUNICIPAL WELL	CHARLEVOIX	MID980794390	
20.	CHEM CENTRAL	WYOMING TOWNSHIP	MID980477079	CIC

21. CLARE WATER SUPPLY	CLARE	MID980002273	CIC
22. CLIFF/DOW DUMP	MARQUETTE	MID980608970	
23. DUELL & GARDNER LANDFILL	DALTON TOWNSHIP	MID980504716	
24. ELECTROVOICE	BUCHANAN	MID005068143	CIC
25. FOLKERTSMA REFUSE	GRAND RAPIDS	MID980609366	
26. FOREST WASTE PRODUCTS	OTISVILLE	MID980410740	CIC
27. G&H LANDFILL	UTICA	MID980410823	CIC
28. GRAND TRAVERSE OVERALL SUPPLY CO.	GREILICKVILLE	MID017418559	CIC
29. GRATIOT COUNTY GOLF COURSE	ST. LOUIS	MID980794531	
30. GRATIOT COUNTY LANDFILL	ST. LOUIS	MID980506281	
31. H & K SALES	BELDING	MI0001271535	
32. H. BROWN CO., INC.	GRAND RAPIDS	MID017075136	
33. HEDBLUM INDUSTRIES	OSCODA	MID980794408	
34. HI-MILL MANUFACTURING CO.	HIGHLAND	MID005341714	
35. IONIA CITY LANDFILL	IONIA	MID980794416	CIC
36. J & L LANDFILL	ROCHESTER HILLS	MID980609440	CIC
37. K&L AVENUE LANDFILL	OSHTEMO TOWNSHIP	MID980506463	CIC
38. KAYDON CORP.	MUSKEGON	MID006016703	
39. KENT CITY MOBILE HOME PARK	KENT CITY	MID981089915	
40. KENTWOOD LANDFILL	KENTWOOD	MID000260281	
41. KYSOR INDUSTRIAL CORP.	CADILLAC	MID043681840	
42. LIQUID DISPOSAL, INC.	UTICA	MID067340711	CIC
43. LOWER ECORSE CREEK DUMP	WYANDOTTE	MID985574227	CIC
44. MASON COUNTY LANDFILL	PERE MARQUETTE TWP	MID980794465	CIC
45. MCGRAW EDISON CORP.	ALBION	MID005339676	
46. METAL WORKING SHOP	LAKE ANN	MID980992952	
47. METAMORA LANDFILL	METAMORA	MID980506562	
48. MICHIGAN DISPOSAL SERVICE (CORK STREET LANDFILL)	KALAMAZOO	MID000775957	
49. MOTOR WHEEL, INC.	LANSING TOWNSHIP	MID980702989	
50. MUSKEGON CHEMICAL CO.	WHITEHALL	MID072569510	CIC
51. NORTH BRONSON INDUSTRIAL AREA	BRONSON	MID005480900	CIC
52. NORTHERNAIRE PLATING	CADILLAC	MID020883609	
53. NOVACO INDUSTRIES	TEMPERANCE	MID084566900	
54. ORGANIC CHEMICALS, INC.	GRANDVILLE	MID990858003	
55. OSSINEKE GROUND WATER CONTAMINATION	OSSINEKE	MID980794440	
56. OTT/STORY/CORDOVA CHEMICAL CO.	DALTON TOWNSHIP	MID060174240	

57. PACKAGING CORP. OF AMERICA	FILER CITY	MID980794747	
58. PARSONS CHEMICAL WORKS, INC.	GRAND LEDGE	MID980476907	
59. PEERLESS PLATING CO.	MUSKEGON	MID006031348	CIC
60. PMC GROUNDWATER	PETOSKEY	MID006013049	
61. RASMUSSEN'S DUMP	BRIGHTON	MID095402210	
62. ROCKWELL INTERNATIONAL CORP. (ALLEGAN PLANT)	ALLEGAN	MID006028062	CIC
63. ROSE TOWNSHIP DUMP	ROSE TOWNSHIP	MID980499842	CIC
64. ROTO-FINISH CO., INC.	KALAMAZOO	MID005340088	
65. SCA INDEPENDENT LANDFILL	MUSKEGON HEIGHTS	MID000724930	
66. SHIAWASSEE RIVER	HOWELL	MID980794473	CIC
67. SOUTH MACOMB DISPOSAL AUTHORITY (LANDFILLS #9 AND #9A)	MACOMB TOWNSHIP	MID069826170	
68. SOUTHWEST OTTAWA COUNTY LANDFILL	PARK TOWNSHIP	MID980608780	
69. SPARTA LANDFILL	SPARTA TOWNSHIP	MID000268136	
70. SPARTAN CHEMICAL CO.	WYOMING	MID079300125	
71. SPIEGELBERG LANDFILL	GREEN OAK TOWNSHIP	MID980794481	
72. SPRINGFIELD TOWNSHIP DUMP	DAVISBURG	MID980499966	
73. STATE DISPOSAL LANDFILL, INC.	GRAND RAPIDS	MID980609341	
74. STURGIS MUNICIPAL WELLS	STURGIS	MID980703011	
75. TAR LAKE	MANCELONA TOWNSHIP	MID980794655	CIC
76. TEN-MILE DRAIN	ST. CLAIR SHORES	MIN000510063	CIC
77. THERMO-CHEM, INC.	MUSKEGON	MID044567162	
78. TORCH LAKE	HOUGHTON COUNTY	MID980901946	CIC
79. U.S. AVIEX	HOWARD TOWNSHIP	MID980794556	
80. VELSICOL BURN PIT	ST. LOUIS	MIN000510389	CIC
81. VELSICOL CHEMICAL CORP. (MICHIGAN)	ST. LOUIS	MID000722439	CIC
82. VERONA WELL FIELD	BATTLE CREEK	MID980793806	
83. WASH KING LAUNDRY	PLEASANT PLAINS TWP	MID980701247	CIC
84. WASTE MANAGEMENT OF MICHIGAN (HOLLAND LAGOONS)	HOLLAND	MID060179587	CIC
85. WHITEHALL MUNICIPAL WELLS	WHITEHALL	MID980701254	
86. WURTSMITH AIR FORCE BASE	OSCODA	MI5570024278	

RTKNET.ORG

PROTECTING ACCESS TO ENVIRONMENTAL INFORMATION

Search ERNS by Name GO

Search ERNS by City, State GO

ERNS

RELATED ARTICLES

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Chlorine Gas Is a Major Risk across the Country, but Needn't Be

President Obama Signs Executive Order on Improving Chemical Facility Safety & Security

ERNS Incidents in Michigan (1982-2012)

Search Criteria Used (More)

Reporting Year ALL GO

Level of Detail Low GO

Type of Report Output Text (HTML) GO

List of incidents for 2012

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
1009660	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n

Total incidents for reporting year 2012: 1

List of incidents for 2010

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
952516	SOUTH HAVEN	MI	Responsible Co Left Blank	VESSEL	y
939045	SOUTH HAVEN	MI	ALBEMARLE CORPORATION	FIXED	n
935821	SOUTH HAVEN	MI	HAMELTON AGRONOMY	MOBILE	n

Total incidents for reporting year 2010: 3

List of incidents for 2009

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
911539	SOUTH HAVEN	MI	USCG - STATION ST. JOSEPH	VESSEL	n
904458	SOUTH HAVEN	MI	Responsible Co Left Blank	VESSEL	n

Total incidents for reporting year 2009: 2

List of incidents for 2008

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
886243	SOUTH HAVEN	MI	Responsible Co Left Blank	VESSEL	y
886227	SOUTH HAVEN	MI	Responsible Co Left Blank	VESSEL	n
872212	SOUTH HAVEN	MI	LOVE JOY	FIXED	n

Total incidents for reporting year 2008: 3

List of incidents for 2007

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
852570	SOUTH HAVEN	MI	VESSEL "DRUM SET"	VESSEL	n
845286	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n
846269	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n
824303	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n

Total incidents for reporting year 2007: 4

List of incidents for 2006

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
811134	SOUTH HAVEN	MI	Responsible Co Left Blank	VESSEL	n
806328	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n
803929	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n

Total incidents for reporting year 2006: 3

List of incidents for 2005

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
768372	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n
758960	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n

Total incidents for reporting year 2005: 2

List of incidents for 2004

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
730193	SOUTH HAVEN	MI	Responsible Co Left Blank	FIXED	n

Total incidents for reporting year 2004: 1

List of incidents for 2002

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
623977	SOUTH HAVEN	MI	DSM PHARMACUETICALS	CONTINUOUS	n

Total incidents for reporting year 2002: 1

List of incidents for 2001

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
568174	SOUTH HAVEN	MI	Responsible Co Left Blank	UNKNOWN SHEEN	n

Total incidents for reporting year 2001: 1

List of incidents for 2000

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
547778	SOUTH HAVEN	MI	Responsible Co Left Blank	FIXED	n
523864	SOUTH HAVEN	MI	7TH DISTRICT COURT- SOUTH HAVEN	FIXED	n

Total incidents for reporting year 2000: 2

List of incidents for 1998

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
449794	SOUTH HAVEN	MI	PRIMAR PETROLEUM INC	VESSEL	n

Total incidents for reporting year 1998: 1

List of incidents for 1996

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages

[illegible]	SOUTH HAVEN MI	SUPER AMERICA	FIXED	n

Total incidents for reporting year 1996: 1

List of incidents for 1994

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
[illegible]	SOUTH HAVEN MI		Responsible Co Left Blank	FIXED	n
[illegible]	SOUTH HAVEN MI		Responsible Co Left Blank	UNKNOWN SHEEN	n
[illegible]	SOUTH HAVEN MI		Responsible Co Left Blank	FIXED	n

Total incidents for reporting year 1994: 3

List of incidents for 1993

Click on the column headers below to re-sort the search. Click on incident ID for extended detail on that incident.

Incident ID	City	State	Resp. Company	Incident Type	Damages
[illegible]	SOUTH HAVEN MI		DON MARTINS COATING	FIXED	n
[illegible]	SOUTH HAVEN MI		DOCTOR LUBE	FIXED	n

Total incidents for reporting year 1993: 2

END OF REPORT

This search was done on May 9, 2014. It was compiled from government data last released on January 16, 2013. The data were obtained from the U.S. Coast Guard's Emergency Response Notification System database (ERNS).

Search Criteria Used

Incident Location City	south haven
Incident Location State	Michigan
Reporting Year	ALL ▼ GO
Level of Detail	Low ▼ GO
Type of Report Output	Text (HTML) ▼ GO

APPENDIX C
Resumes of Environmental Professionals

Geologist
Villa Environmental Consultants, Inc.

EDUCATION

- Western Michigan University BS- 2006 - Major: Geology; Minor: Biology; Group Sciences

PROFESSIONAL CERTIFICATIONS

- 40 hour HAZWOPER
- NIOSH 582
- A and B Underground Storage Tank Operator
- Asbestos Inspector

ADDITIONAL EDUCATION, TRAINING, AND SEMINARS

- DOT Hazardous Waste
- 40 hour Asbestos Supervisor
- 24 hour Asbestos Inspector

EXPERIENCE (2006-PRESENT)

- Ground water investigations of contaminated aquifers.
- Contaminated soil and ground water remediation.
- Conduct Phase I Environmental Site Assessments, Baseline Environmental Assessments.
- Coordinate leaking underground storage tank sites.
- Supervise drilling and well installation at groundwater contamination sites.
- Monitor well testing and assessment.
- Soil vapor extraction and Carbon filter system design.
- Free product recovery system design.
- Indoor air quality investigations including mold surveys, and resolving indoor air complaints.
- Mold remediation in high risk environments.
- Monitor well installation, testing, and assessment.
- Contingency Plans.
- Process Safety Management and Risk Management Plan.
- Clean Air Act.
- Green space conservation.
- Erosion control.
- Waste characterization and disposal.
- Hazardous Waste Transportation and disposal.
- Underground Storage Tank training and quarterly monitoring.
- Baseline Environmental Assessments (BEA)
- Section 7a Document of Due Care (Due Care Plan)

VOLUNTEER

- Disaster Relief 2006 Biloxi, MS
- Morrisville, NC Parks and Rec Committee 2009-2010 (Vice Chair 2010)
- Habitat for Humanity Crew Leader

President
Villa Environmental Consultants, Inc.

EDUCATION Michigan State University
B.S. in Civil Engineering

PROFESSIONAL CERTIFICATIONS

- State of Michigan/AHERA: Asbestos: Inspector -Management Planner - Project Designer
- Certified Industrial Storm Water Operator
- Indoor Air Quality Updates and Seminars
- State of Indiana: Licensed Asbestos: Inspector

MEMBERSHIPS

- Michigan Minority Supplier Development Council (MMSDC)
- National Institute of Building Sciences
- Michigan School Business Officials: Associate Member
- Environmental Assessment Association
- Air & Waste Management Association
- National Institute of Building Sciences

EXPERIENCE (1979 to present)

Mr. Villa is responsible for managing and designing: asbestos removal projects, asbestos assessment, asbestos design according to AHERA, energy conservation construction, Phase I, II environmental site assessments, energy auditing and fuel storage tank removal and installation design projects. Developed in-depth energy analysis, Technical Assistance Energy Reports for buildings owned by schools, local units of government, industrial facilities, and commercial businesses.

Typical duties include preparing bid documents, specifications, project coordination, on-site review and administration for all types of environmental projects. Mr. Villa has developed and administered many asbestos-containing material surveys, assessments, abatement contract documents and procedures before and after the development of AHERA regulatory requirements.

Other environmental project implementation and management experience includes: indoor air quality assessments, Phase I surveys, Phase II investigation and reports, Phase III implementation and other regulatory investigations. Since 1979-1980, Mr. Villa has also been providing on-site investigations, developed detailed project specifications, new installation and remedial activities for underground and above ground storage tanks according to the applicable MDEQ regulations.

A brief overview of other environmental services Mr. Villa has managed include, but not limited to the following: Baseline Environmental Assessments, Storage tank compliance, feasibility, design, assessment, and management, Lead-based paint surveys and assessments (non-destructive/on-site), Clean Air Act assessment/testing, Storm water Permitting, Solid and hazardous waste management (PIPP, SWPPP), Industrial hygiene (noise, dust, emissions, etc.) and Process Safety Management of Highly Hazardous Chemicals

Paul Vandenbosch

From: Stephen Dehring <sdehring@villaenv.com>
Sent: Friday, March 20, 2015 3:29 PM
To: Paul Vandenbosch
Subject: RE: Overton Phase II Report

Paul,

I have addressed your questions in red below:

What type of material are Benzo(a)pyrene, Benzo(b)fluoranthene and Dibenzo(a,h)anthracene?
Those contaminates are from a group called polynuclear aromatic hydrocarbons. They are organic compounds found in coal tar and other fossil fuels
Are those solvents? What type of product did they come from?
They are often found in diesel fuel/heating oil. In your case, they could be residual contamination from the use and storage of coal at the facility. More likely though, is that they are from the fill material that we observed on site. The material on site appeared to be a slag material, which a product of the manufacturing of steel in a blast furnace. Those blast furnaces require coke to reach the correct temperature, which is a refined coal product.

If you are concerned about the solvent issue to the west, they are unrelated. TCE is a volatile organic compound, which is from a different family of contaminates.
Also, 5.5E+05 means 550,000, correct? And that would be ppb or 550,000/1,000,000,000?
Yes that is correct. The levels of the contaminates are elevated when compared to MDEQ criteria, but I wouldn't be overly concerned with the levels in any of this. If this is a property you *want* in your brownfield program, this is actually positive. The site is a facility, but the contamination doesn't care a high concern for human health. Most contamination could be managed on site with due care (capping or otherwise) if desired.
Thanks

Paul VandenBosch
Assistant City Manager/Harbormaster

City of South Haven
pvandenbosch@south-haven.com
269-637-0775 Desk
269-637-5319 Fax
539 Phoenix Street
South Haven, MI 49090

From: Stephen Dehring [mailto:sdehring@villaenv.com]
Sent: Friday, March 20, 2015 1:39 PM
To: Paul Vandenbosch
Subject: Overton Phase II Report

Paul,

Attached is a PDF version of the Overton Phase II Report. Take a look and let me know if you have any questions or concerns. Would you also like a receive a hard copy of the report by mail?

Steve Dehring

Project Geologist

408 W. Main Street
Benton Harbor, MI 49022
Office: 269.927.2434
Cell: 248.633.3735
Fax: 269.927.2435
sdehring@villaenv.com I www.villaenv.com

Paul Vandenbosch

From: Stephen Dehring <sdehring@villaenv.com>
Sent: Friday, March 20, 2015 3:42 PM
To: Paul Vandenbosch
Cc: 'Rick Villa'
Subject: RE: Overton Phase II Report

One more question:

We often see a lot of arsenic in samples. Is there a typical base level of arsenic that occurs naturally in this area? Or is the arsenic from some human activity?

Yes, that number is represented in the MDEQ Statewide Default Background levels and is 5,800 ppb. The fact that the arsenic exceeds the state levels coupled with the observed presence of fill material on site helped us to determine that it is from human activity.

We know there is often arsenic in the ground on orchards from pesticides. Do you think that might be where this arsenic originates?

No I doubt this is from orchards. There is a lot of fill on site and arsenic is very common in non native fill materials. I also looked at the history of lead arsenate pesticides and it appears use began in 1892. Based on the Phase I conducted in 2014, development of the property began in 1902 at the latest. I find it unlikely that is the case with all of the fill noted during drilling.

Thanks

Paul VandenBosch
Assistant City Manager/Harbormaster

City of South Haven
pvandenbosch@south-haven.com
269-637-0775 Desk
269-637-5319 Fax
539 Phoenix Street
South Haven, MI 49090

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Sent: Friday, March 20, 2015 1:39 PM
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Steve Dehring
Project Geologist

Villa Environmental Consultants, Inc.
408 W. Main Street
Benton Harbor, MI 49022
Office: 269.927.2434
Cell: 248.633.3735
Fax: 269.927.2435
sdehring@villaenv.com I www.villaenv.com

June 1, 2015

TO: Local Development Finance Authority

FR: Paul VandenBosch

RE: MBG Freezer Storage Development, Incentive

MBG purchased the land on 2nd Avenue from the LDFA for development of a freezer storage facility. MBG has brought partners to the table and proposes to sell part of the land to its partners for development of a freezer storage facility. The partners are Hanson Cold Storage and Dole. The intent is that Dole would package and process food products, and Hanson would operate the freezer storage facility. MBG will consider adding its own processing facility directly adjacent to the partner's freezer storage facility in the future.

The purchase agreement included an Economic Development Incentive of $150,000 for tap fees, meter fees, connection fees and system fees for City water and sanitary sewer utility services at the property (Section 8.C. of the purchase agreement). The incentive was contingent upon MBG completing phase I of its proposed development within 36 months from May 8, 2012, which means the deadline was May 9, 2015.

In order to encourage development of the freezer storage facility, the Local Development Finance Authority is requested to consider extending the economic development incentive offer for the site as outlined in the attached resolution.

The funds for the $150,000 economic development incentive were transferred to the water and sanitary fund in 2012. No payment from the LDFA will be required if the incentive is made.

Recommendation:

Approve Resolution 2015-03, a Resolution Authorizing a Development Incentive for a Development at 1600 and 1800 2nd Avenue.

LOCAL DEVELOPMENT FINANCE AUTHORITY
OF THE CITY OF SOUTH HAVEN
VAN BUREN AND ALLEGAN COUNTIES, MICHIGAN

RESOLUTION NO. 2015-___

A RESOLUTION AUTHORIZING A DEVELOPMENT INCENTIVE
FOR A DEVELOPMENT AT 1600 AND 1800 2ND AVENUE

Minutes of a regular meeting of the Local Development Finance Authority of the City of South Haven, Van Buren and Allegan Counties, Michigan, held in the City Hall, 539 Phoenix Street, South Haven, Michigan 49090 on June 8, 2015 at 4:00 p.m. local time.

PRESENT: _____

ABSENT: _____

The following preamble and resolution was offered by Member _____ and supported by Member _____.

WHEREAS, the LDFA sold property to MBG at 1600 and 1800 2nd Avenue under the terms of a purchase agreement; and,

WHEREAS, the purchase agreement included a development incentive for water and sanitary utility connection fees in the amount of $150,000 which terminated on May 9, 2015; and,

WHEREAS, MBG proposes to sell part of the property to a developer for development of a freezer storage building; and,

WHEREAS, the water and sewer connection fees are expected to exceed $150,000; and

WHEREAS, development of the site will create jobs, increase property value, will enhance the ability of the local fruit industry to market its product and will create processing capability to add value to local products; and,

WHEREAS, the Local Development Finance Authority desires to authorize a development incentive for the property at 1600 and 1800 2nd Avenue.

NOW THEREFORE BE IT RESOLVED, that the LDFA hereby offers a development incentive for the property at 1600 and 1800 2nd Avenue as a one time credit toward City of South Haven water and sanitary utility tap fees, meter fees, connection fees and system fees; and,

BE IT FURTHER RESOLVED, that the amount of the development incentive credit is not to exceed $150,000; and,

BE IT FURTHER RESOLVED, that the development incentive credit will be credited to the first City of South Haven municipal water and sanitary utility account created for development on the site; and,

BE IT FURTHER RESOLVED, that the development incentive credit is contingent upon beginning construction of the development within six months of the date of this resolution.

RECORD OF VOTE:

Yeas: _____

Nays: _____

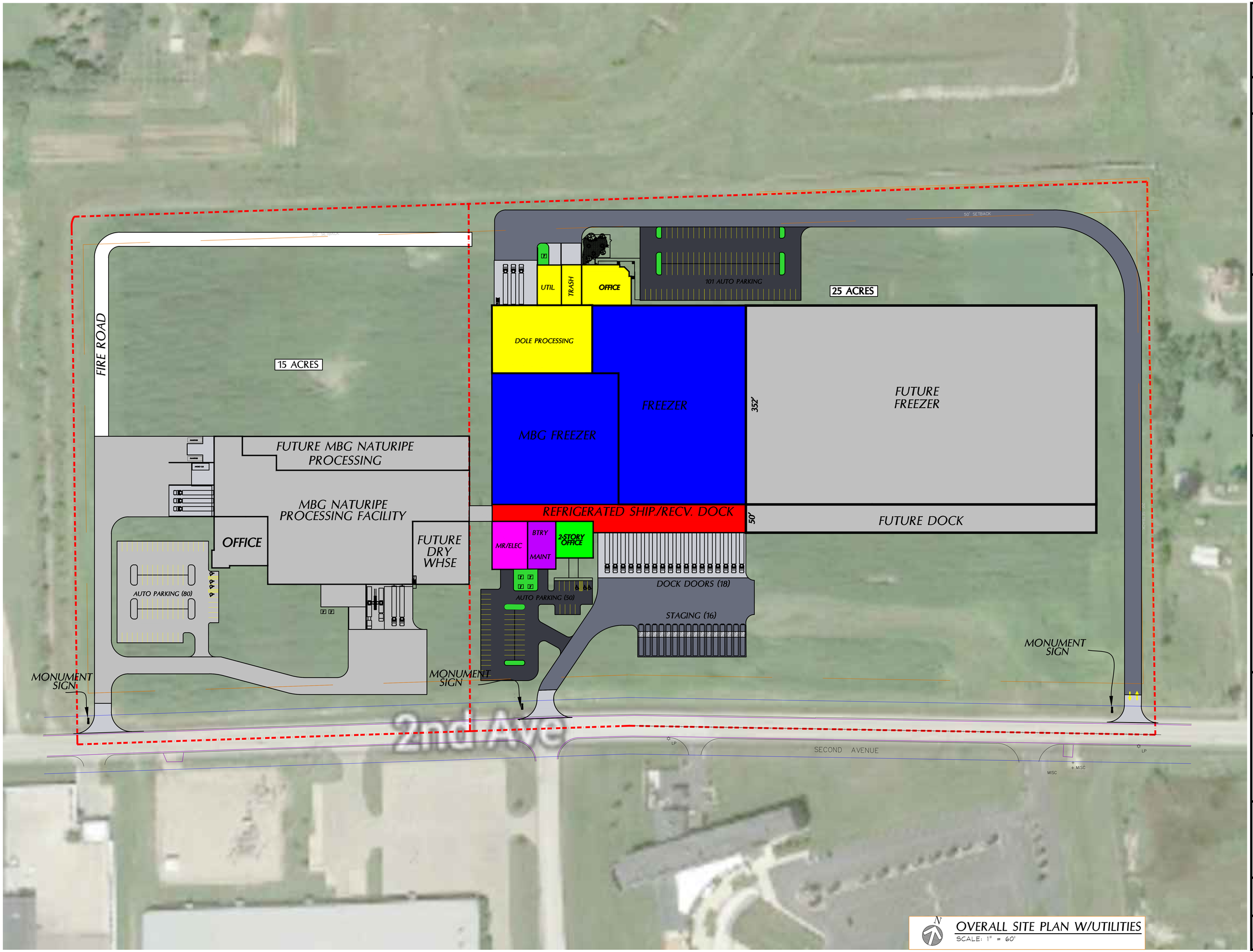
RESOLUTION DECLARED ADOPTED.

_____
Arthur Bolt, Chair

CERTIFICATION

I hereby certify that the foregoing is a true and complete copy of a resolution adopted by the City of South Haven Local Development Finance Authority at a meeting held on the 8th day of June, 2015, at which meeting a quorum was present, and that this resolution was ordered to take immediate effect. Public notice of said meeting was given pursuant to and in compliance with the Open Meetings Act, Act No. 167 of the Public Acts of Michigan 1976 (MCL 15.261 *et seq*).

_____
Paul VandenBosch, Secretary



OVERALL SITE PLAN W/UTILITIES
SCALE: 1" = 60'

CERTIFICATION:

TIPPMANN CONSTRUCTION
a Tippmann Group Company
3809 COLDWATER ROAD • FORT WAYNE, INDIANA 46805
PHONE: (260) 490-3000 • FAX: (260) 490-8705

PROPOSAL DOCUMENTS
DATE:

HANON LOGISTICS

PROJECT
PROPOSED FACILITY FOR:
2ND AVENUE
SOUTH HAVEN, MI

SHEET TITLE
OVERALL STIE PLAN W/ UTILITIES

REVISIONS:

DRAWN BY: TC-TB
DATE: 00-00-2014
JOB NO. -
CAD FILE: -

SHEET
C1.0

HANSON
LOGISTICS
TIPPMANN GROUP

Dole
TIPPMANN GROUP

Paul Vandenbosch

From: Brian Dissette
Sent: Friday, May 08, 2015 4:28 PM
To: Paul Vandenbosch; Jack McCloughan; Robert Burr
Subject: FW: Extension of Economic development Incentives

FYI

From: Moorer, Brad [mailto:bmoorer@BLUEBERRIES.com]
Sent: Friday, May 08, 2015 1:28 PM
To: Brian Dissette
Cc: Andy Janson
Subject: [EmailDefender SPAM suspect] Extension of Economic development Incentives

Brian –

It has come to my attention that certain of the economic development incentives previously offered to MBG Marketing to help develop the 2nd Avenue property are close to expiring.

I would humbly ask the City to consider an extension of these incentives while MBG and it's Partners continue to develop project plans for the site.

We very much appreciate the City's stance on economic development and continue to be excited about the our future in South Haven.

Kindest regards,

Brad Moorer
Chief Financial Officer
269-512-2302 (cell)
269-434-8030 (office)

REAL ESTATE PURCHASE AND DEVELOPMENT AGREEMENT

This Real Estate Purchase and Development Agreement is made as of May 8, 2012, by the South Haven Local Development Finance Authority, a public body corporate, whose principal business address is 539 Phoenix Street, South Haven, MI 49090 (the "**LDFA**"), MBG Real Estate-South Haven, LLC, a Michigan limited liability company , whose principal business address is 04726 County Road 215, Grand Junction, MI 49056 ("**MBG**"), and the City of South Haven, a Michigan municipal corporation, whose principal business address is 539 Phoenix Street, South Haven, MI 49090 (the "**City**").

RECITALS

A. The LDFA owns the real property located at 1600 2nd Avenue (PPN 80-53-869-002-65) and 1800 2nd Avenue (PPN 80-53-867-003-10), South Haven, MI 49090, which is legally described and depicted on the attached Exhibit A (the "**Property**").

B. MBG wishes to develop, construct and operate a fruit processing facility on the Property.

C. The LDFA desires to sell the Property to MBG, and MBG desires to purchase the Property from the LDFA.

D. The City wishes to encourage the development and use of the Property as provided in this Agreement.

TERMS AND CONDITIONS

In exchange for the consideration in and referred to by this Agreement, the parties agree:

1. Purchase and Sale.

   A. Purchase. The LDFA agrees to sell and convey to MBG, and MBG agrees to purchase from the LDFA, the Property in accordance with the terms and conditions of this Agreement.

   B. Consideration. MBG shall pay to the LDFA $206,500.00 as the purchase price for the Property (the "**Purchase Price**").

   C. Title. The LDFA shall convey marketable title to the Property to MBG, with all available land divisions, by warranty deed, subject to easements, restrictive covenants, restrictions, reservations, or encumbrances of record to the extent acceptable to MBG.

   D. Payment of Purchase Price. MBG will pay the Purchase Price in full at Closing.

2. Taxes and Utilities.

   A. Taxes and Assessments. Because it is owned by a public body, there are no real property taxes levied against the property and there are no outstanding special assessments levied against the property.

   B. Utilities. The Property is vacant so there are no charges for utility services to the property. There will, however, be fees for connecting to the utilities which are addressed elsewhere in this Agreement.

3. Title Insurance and Survey.

   A. Title Insurance. Within 30 days after this Agreement is signed MBG shall, without expense to the LDFA, obtain a commitment for issuance of a standard A.L.T.A. owner's policy of title insurance in the amount of the Purchase Price (the "**Title Commitment**"). If the Title Commitment discloses any conditions not acceptable to MBG, MBG shall, within 5 business days

of its receipt of both the Title Commitment and the Survey, give written notice of those objections to the LDFA. If the LDFA is unable to cure prior to closing, or if the LDFA elects not to cure or obtain necessary insurance over those exceptions to which MBG has objected, this Agreement shall terminate, and neither party shall be obligated further to the other. In the alternative, MBG may elect to accept such title to the Property as the LDFA is able to provide, without reducing or abating the Purchase Price or crediting or allowing any sum against the Purchase Price, and without creating any liability in the LDFA. MBG agrees that the "Declaration of Restrictive Covenants" attached to the I-196 Industrial Park, a copy of which has been provided to MBG, shall be an acceptable condition to the Title Commitment.

B. Survey. The LDFA has provided a boundary line sketch of the Property performed by Mitchell & Morse Land Surveying, dated 10-31-11, Job No. 11-1025. MBG has ordered from the same surveyor a new ALTA survey at its expense (the **"Survey")**. If the Survey discloses any conditions not acceptable to MBG, MBG shall, within 5 business days of its receipt of both the Survey and the Title Commitment, give written notice of its objections to the LDFA. If the LDFA is unable to cure prior to closing, or if the LDFA elects not to cure or obtain necessary insurance over those conditions to which MBG has objected, this Agreement shall terminate, and neither party shall be obligated further to the other. In the alternative, MBG may elect to accept such title to the Property as the LDFA is able to provide, without reducing or abating the Purchase Price or crediting or allowing any sum against the Purchase Price, and without creating any liability in the LDFA. At closing, the LDFA shall reimburse MBG for the cost of the Survey in an amount not to exceed $400.

4. Environmental Issues.

A. Site Assessment. Within 90 days after this Agreement is signed, MBG may, at MBG's expense, perform any environmental site assessments and investigations of the Property that it deems appropriate.

B. Reports/Information. Each party shall provide the other party a copy of any information that party may have regarding the environmental condition of the Property and shall provide the other party copies of any information it receives from or transmits to any governmental agency or official related to the environmental condition of the Property.

C. Phase I Environmental Site Assessment. The parties acknowledge that a Phase I Environmental Site Assessment was performed on neighboring properties in 1995. Such assessment revealed no evidence of recognizable environmental conditions which may present an environmental liability. A copy of such Phase I Environmental Site Assessment has been provided to MBG.

D. Environmental Condition. If due to the environmental condition of any of the Property, MBG, in its reasonable discretion, deems the Property unfit for the uses MBG intends to make of it, MBG may, upon written notification to the LDFA, refuse to accept the conveyance of the Property.

5. Inspection. After this Agreement is signed but prior to Closing, MBG may enter the Property to make any tests, inspections, examinations or studies that MBG deems necessary, including, without limitation, soil borings and other soil analysis to determine whether the site is reasonably suitable for MBG's intended uses of it. MBG shall be solely responsible for all costs and expenses incurred in doing so and, if this transaction does not close, it will reasonably restore the affected property to the condition it was in prior to its entry on the Property.

6. Farming Lease. An existing farming lease on the Property will continue through the 2012 planting and harvesting season. Provided closing occurs by June 30, 2012, any revenue derived from the 2012 planting and harvesting season under the farming lease shall be split equally between the parties. The parties acknowledge that the farming lease contains a provision requiring reimbursement for crop damage. Although it is not anticipated that MBG will begin any construction at the Property prior to the completion of the 2012 planting and harvesting season, if MBG does begin construction, and if crop damage does occur, the parties agree to split equally the reimbursement costs required by the farming lease.

7. Representations and Warranties.

A. Condition. MBG is not relying on any representation or statement made by the LDFA (whether made intentionally or negligently) regarding any aspect of the Property, except as may be expressly set forth in this Agreement, a written amendment to this Agreement, or a disclosure statement separately signed by the LDFA. The Property is being conveyed and MBG agrees to accept the Property "AS IS" and "WITH ALL FAULTS," except as otherwise expressly provided in this Agreement.

B. LDFA's Representations and Warranties. The LDFA represents and warrants to MBG that the LDFA has authority to enter into this Agreement and to consummate the transactions contemplated by this Agreement. The LDFA board has approved this Agreement and the LDFA has duly executed and delivered this Agreement as its lawful, valid, and legally binding obligation, and this Agreement is enforceable in accordance with its terms. The LDFA is not a party to any contract, settlement, judicial order, or other agreement of any kind which would prohibit or otherwise restrict the ability of the LDFA to sell the Property to MBG pursuant to this Agreement.

C. MBG's Representations and Warranties. MBG represents and warrants to the LDFA that MBG has authority to enter into this Agreement and to consummate the transactions contemplated by this Agreement. MBG has duly executed and delivered this Agreement as its lawful, valid, and legally binding obligation, and this Agreement is enforceable in accordance with its terms. MBG is not a party to any contract, settlement, judicial order, or other agreement of any kind which would prohibit or otherwise restrict its ability to purchase any of the Property from the LDFA pursuant to this Agreement.

8. Economic Development Incentives. The LDFA and the City of South Haven intend to provide, as applicable, the following economic development incentives to MBG for its development of the Property in accordance with Section 9 below. All needed official actions confirming the availability of these incentives shall be a precondition of any obligation MBG has to close on its purchase of the Property. However, nothing in this section requires the approval of any discretionary actions by the City Council of the City, the LDFA's board or by any other official or body who shall retain the ability and obligation to reasonably exercise the discretion provided them by applicable law. The LDFA and the City agree that the following economic development incentives will be provided after, and shall survive, the closing.

A. Tax abatements. If applicable and available, a tax exemption on personal property in accordance with 1998 PA 328, as amended, MCL 211.9f ("**PA 328**") shall be provided. Additionally, a tax abatement on real property and, if a PA 328 abatement is inapplicable, on personal property, shall be provided in accordance with 1974 PA 198, as amended, MCL 207.551 *et seq.*, equivalent to 50% of the taxable value for a period of 12 years.

B. Agricultural Processing Renaissance Zone ("**APRZ**"). Recognizing that the APRZ has a number of eligibility conditions and that final approval must be given by the State of Michigan, the City and the LDFA will support the State's approval of any available APRZ for MBG's development of the Property.

C. Utility Connection Assistance. The LDFA and the City shall assist MBG's development of the Property by paying up to $150,000.00 for initial tap fees, meter fees, connection fees and system fees for City water and sanitary sewer utility services at the Property. Upon closing, the LDFA shall issue to the City such payment on behalf of MBG. Additionally, the City will rebate electric transformer, meter and line extension fees in an amount equal to 50% of the energy charge revenues received, as outlined in the South Haven Utility Policy, a copy of which has been provided to MBG.

9. Development and Use of the Property.

A. Anticipated Development. If it closes on the purchase of the Property, MBG shall, within 36 months of the date of this Agreement complete phase 1 of its planned use of the Property which shall include the construction of approximately $4 million in improvements on the Property which shall result in approximately 2 to 4 full-time equivalent professional or management jobs and up to 20 seasonal jobs. Within an additional 24 months , MBG may complete subsequent phases of the planned development that are expected to include between $10 and $20 million of total improvements in the Property and a total of 7 to 10 full-time equivalent professional or management jobs and up to 40 seasonal jobs.

B. Incentives Conditional. The incentives provided in the preceding Section 8 of this Agreement may be conditional upon MBG's completion of certain improvements and/or creating certain levels of employment. Those provided by the City and LDFA shall only be conditional upon timely completion of only the first phase of the development.

C. Limitations on Resale of Property. Within the 60 month period provided by Section 9 A above, if MBG sells, conveys or transfers any unimproved portion of the Property to any third party, other than the City of South Haven, for consideration that exceeds the Purchase Price, MBG shall pay to the LDFA an amount equal to the difference between the consideration received and the Purchase Price pro-rated for the portion of the Property conveyed by MBG. Such payment shall be made to the LDFA within 30 days after such sale, conveyance or transfer.

10. Closing Conditions.

A. The LDFA's Conditions. The LDFA's obligation to close the transaction contemplated by this Agreement is subject to the satisfaction of each of the following conditions on or prior to the Closing Date:

(1) No Default. MBG will not be in default of this Agreement.

(2) Representations and Warranties. Each of MBG's representations and warranties contained in Section 7 C will be true and accurate on the Closing Date.

If the Closing does not occur because of the failure of any of the conditions contained in this Section 10 A, this Agreement will terminate, and the LDFA will not have any further obligation or liability to MBG under this Agreement.

B. MBG's Conditions. MBG's obligations to close the transactions contemplated by this Agreement are subject to the satisfaction of each of the following conditions on or prior to the Closing Date:

(1) No Default. The LDFA will not be in default under this Agreement.

(2) Representations and Warranties. Each of the LDFA's representations and warranties contained in Section 7 B will be true and accurate on the Closing Date.

If the Closing does not occur because of the failure of any of the conditions contained in this Section 10 B, this Agreement will terminate, and MBG will not have any further obligation or liability to the LDFA under this Agreement.

11. Default.

A. By the LDFA. The LDFA shall be in default under this Agreement if it fails to comply with any term of this Agreement. The remedy shall be to seek specific performance or to terminate this Agreement upon written notice in which case neither party shall have any further obligation under this Agreement.

B. By MBG. MBG shall be in default under this agreement if it fails to comply with any term of this Agreement or if any of the following occurs prior to closing:

(1) MBG makes a general assignment for the benefit of creditors;

(2) MBG files a voluntary petition in bankruptcy or for reorganization;

(3) MBG attempts to effect a plan or other arrangement with creditors or files an answer or other document in response to any creditor's petition admitting the material allegations of such petition;

(4) MBG is the subject of an involuntary bankruptcy petition;

(5) MBG applies for or permits the appointment of a receiver, trustee, or custodian;

(6) MBG applies for or permits the entry of an order by any court of competent jurisdiction consenting to an involuntary bankruptcy petition; or

(7) MBG is unable to meet its obligations as they mature.

The remedy shall be to seek specific performance or to terminate this Agreement upon written notice in which case neither party shall have any further obligation under this Agreement.

12. Closing.

A. Date, Time, and Place. The Closing will take place as soon as possible following the satisfaction of all contingencies specified in this Agreement, and in no event later than June 30, 2012. The Closing will occur at the South Haven City Hall at a time during regular business hours mutually agreed upon by MBG and the LDFA, or at another location as mutually agreed upon by the parties.

B. Documents for Closing. At Closing, the parties agree to execute and deliver all documents which may be necessary or appropriate to consummate the transactions contemplated by this Agreement and for the issuance of a title insurance policy pursuant to the Title Commitment, including, but not limited to, a warranty deed from the LDFA for the Property, reasonably acceptable to MBG, including all available land divisions.

C. Possession. The LDFA will deliver possession of the Property to MBG at Closing.

D. Costs of Closing. Upon delivery of the warranty deed to the Property, the LDFA shall pay for the county and state transfer taxes on the deed and for the recording of the deed. The LDFA and MBG shall each pay for ½ of any fee charged by a title company for closing the sale portion of the transaction.

13. Miscellaneous.

A. Brokerage Fees. Each party represents and warrants that there are no brokers', finders' or similar fees in connection with this transaction.

B. Notices. All notices, requests, and demands to or upon any party will be in writing and may be hand-delivered, sent by facsimile, or mailed by certified mail, return receipt requested and postage prepaid, addressed to such party at the address initially stated within this Agreement. Notice will be deemed effective on the day the notice is placed in the United States mail, upon completion of transmission if sent by facsimile, or on the date of delivery if personally served.

C. Waiver. No provision of this Agreement may be waived except in a writing signed by the waiving party. No oral statements, course of conduct, or course of dealing will be deemed to constitute a waiver. No waiver by any party of any breach of this Agreement will be deemed or construed to constitute a waiver of any other breach or as a continuing waiver of any breach.

D. Assignment Prohibited. Neither party may assign this Agreement, or its rights, privileges, duties or obligations, without the others prior written consent.

E. Applicable Law. This Agreement will be interpreted, construed, and governed according to the laws of the state of Michigan.

F. Captions. The captions or headings to the various paragraphs and sections contained in this Agreement are for convenience only and will to no extent affect the meaning, scope, or interpretation of this Agreement or any of its provisions.

G. Binding Effect. This Agreement will be binding upon and inure to the benefit of the parties as well as their respective successors and permitted assigns.

H. Merger and Modification. This Agreement constitutes the entire agreement between the parties with respect to its subject matter, and all prior discussions, negotiations, and agreements between the parties with respect to such subject matter are deemed merged into this Agreement. No amendment or modification of this Agreement will be enforceable except if in writing and signed by the party against whom enforcement is sought.

SOUTH HAVEN LOCAL DEVELOPMENT FINANCE AUTHORITY

By:_____
Art Bolt, Chairperson

By:_____
Paul VandenBosch, Secretary

Date signed: May 8, 2012

CITY OF SOUTH HAVEN

By:_____
Robert Burr, Mayor

By:_____
Amanda Morgan, Clerk

Date signed: May 8, 2012

MBG REAL ESTATE-SOUTH HAVEN, LLC, a Michigan limited liability company

By: Michigan Blueberry Grower's Association, a Michigan nonprofit corporation
Its: Manager

By:_____
Its:_____

By:_____
Its:_____

Date signed: _____, 2012

SOUTH HAVEN LOCAL DEVELOPMENT FINANCE AUTHORITY

By:_____
Art Bolt, Chairperson

By:_____
Paul VandenBosch, Secretary

Date signed: _____, 2012

CITY OF SOUTH HAVEN

By:_____
Robert Burr, Mayor

By:_____
Amanda Morgan, Clerk

Date signed: _____, 2012

MBG REAL ESTATE-SOUTH HAVEN, LLC, a Michigan limited liability company

By: Michigan Blueberry Grower's Association, a Michigan nonprofit corporation
Its: Manager

By:_____
Its: Asst. Treasurer / CFO

By:_____
Its:_____

Date signed: _____, 2012

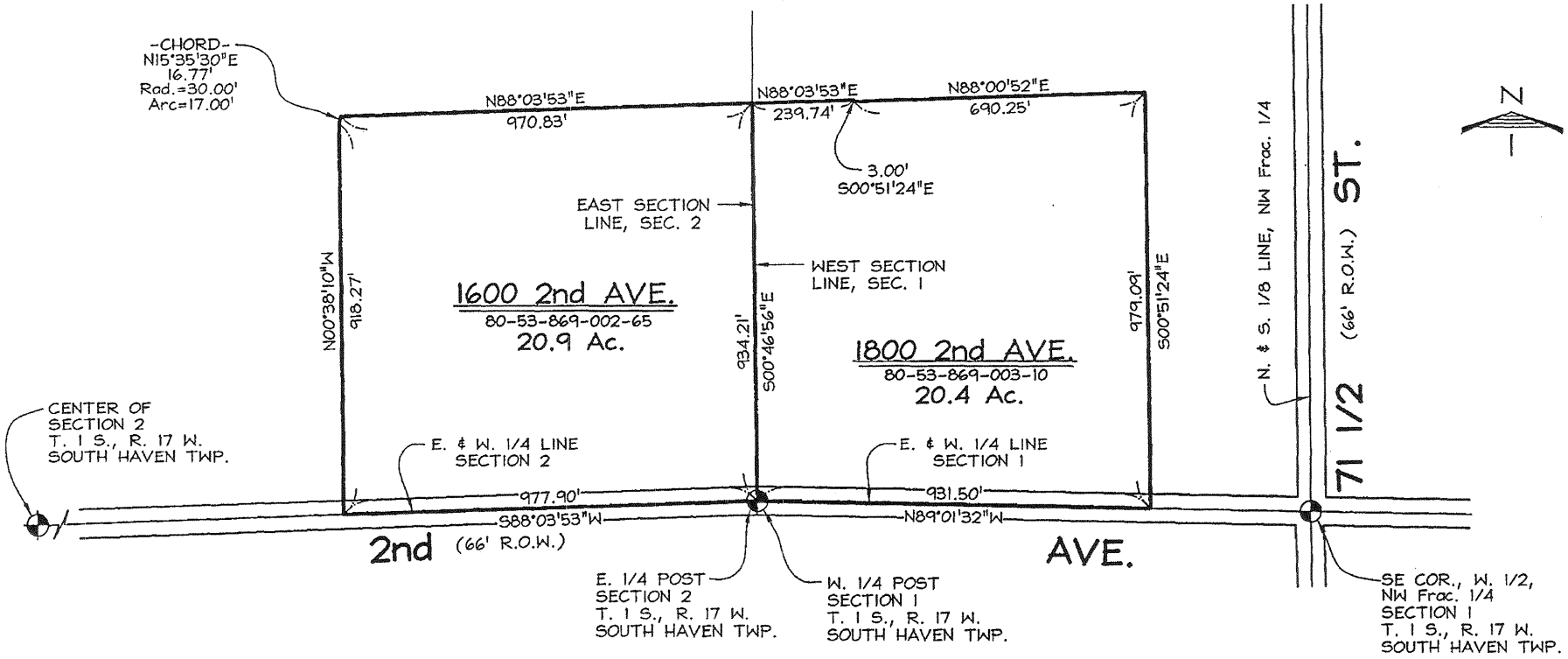
EXHIBIT A

Legal Description

#269511 v5

SKETCH OF DESCRIPTIONS

SEE SHEET 2 FOR DESCRIPTIONS



DWN. BY J. MITCHELL SCALE 1"=300'

CK. BY ____ DESC. BY ____ CK. BY ____

BOOK FILE PAGE FILE REV. ____

MITCHELL & MORSE LAND SURVEYING

A DIVISION OF MITCHELL SURVEYS, INC.

234 VETERANS BLVD.
SOUTH HAVEN, MICHIGAN 49090
OFFICE: (269) 637-1107
FAX: (269) 637-1907

CLIENT CITY OF SOUTH HAVEN

DATE 10-31-11 JOB NO. 11-1025 SHEET 1 OF 2

BEING IN THE N. 1/2 SEC. 1 & 2 T. 1 S. R. 17 W.

SOUTH HAVEN TWP. VAN BUREN CO., MICHIGAN

Descriptions: Situated in the City of South Haven, Van Buren County, Michigan

80-53-869-002-65
Beginning at the East quarter post of Section 2, Town 1 South, Range 17 West; thence South 88° 03' 53" West on the East and West quarter line 977.90 feet; thence North 00° 38' 10" West 918.27 feet; thence 17.00 feet along a curve to the right with a radius of 30.00 feet and a chord that bears North 15° 35' 30" East 16.77 feet; thence North 88° 03' 53" East parallel with the East and West quarter line 970.83 feet to the East section line; thence South 00° 46' 56" East on same 934.21 feet to the place of beginning.

80-53-869-003-10
Beginning at the West quarter post of Section 1, Town 1 South, Range 17 West; thence North 00° 46' 56" West on the West section line 934.21 feet; thence North 88° 03' 53" East parallel with the East and West quarter line in Section 2 a distance of 239.74 feet; thence South 00° 51' 24" East 3.00 feet; thence North 88° 00' 52" East 690.25 feet; thence South 00° 51' 24" East 979.09 feet to the East and West quarter line; thence North 89° 01' 32" West on same 931.50 feet to the place of beginning.

MITCHELL & MORSE LAND SURVEYING
A DIVISION OF MITCHELL SURVEYS, INC.

234 VETERANS BLVD.
SOUTH HAVEN, MICHIGAN 49090
OFFICE: (269) 637-1107
FAX: (269) 637-1907

CLIENT CITY OF SOUTH HAVEN
DATE 10-31-11 JOB NO. 11-1025 SHEET 2 OF 2
DWG. BY J. MITCHELL DWG. CK ____ DESC. BY ____ DESC. CK ____
BEING IN THE N. 1/2 SECTION 1 & 2 ,T 1 S. ,R 17 W.
SOUTH HAVEN TWP. VAN BUREN CO., MICHIGAN
SCALE 1"=300' BOOK FILE PAGE FILE REVISION ____

EDWARD C. MORSE
PROFESSIONAL
SURVEYOR

GEORGE J. MITCHELL
PROFESSIONAL
SURVEYOR

of its receipt of both the Title Commitment and the Survey, give written notice of those objections to the LDFA. If the LDFA is unable to cure prior to closing, or if the LDFA elects not to cure or obtain necessary insurance over those exceptions to which MBG has objected, this Agreement shall terminate, and neither party shall be obligated further to the other. In the alternative, MBG may elect to accept such title to the Property as the LDFA is able to provide, without reducing or abating the Purchase Price or crediting or allowing any sum against the Purchase Price, and without creating any liability in the LDFA. MBG agrees that the "Declaration of Restrictive Covenants" attached to the I-196 Industrial Park, a copy of which has been provided to MBG, shall be an acceptable condition to the Title Commitment.

B. Survey. The LDFA has provided a boundary line sketch of the Property performed by Mitchell & Morse Land Surveying, dated 10-31-11, Job No. 11-1025. MBG has ordered from the same surveyor a new ALTA survey at its expense (the **"Survey"**). If the Survey discloses any conditions not acceptable to MBG, MBG shall, within 5 business days of its receipt of both the Survey and the Title Commitment, give written notice of its objections to the LDFA. If the LDFA is unable to cure prior to closing, or if the LDFA elects not to cure or obtain necessary insurance over those conditions to which MBG has objected, this Agreement shall terminate, and neither party shall be obligated further to the other. In the alternative, MBG may elect to accept such title to the Property as the LDFA is able to provide, without reducing or abating the Purchase Price or crediting or allowing any sum against the Purchase Price, and without creating any liability in the LDFA. At closing, the LDFA shall reimburse MBG for the cost of the Survey in an amount not to exceed $400.

4. Environmental Issues.

A. Site Assessment. Within 90 days after this Agreement is signed, MBG may, at MBG's expense, perform any environmental site assessments and investigations of the Property that it deems appropriate.

B. Reports/Information. Each party shall provide the other party a copy of any information that party may have regarding the environmental condition of the Property and shall provide the other party copies of any information it receives from or transmits to any governmental agency or official related to the environmental condition of the Property.

C. Phase I Environmental Site Assessment. The parties acknowledge that a Phase I Environmental Site Assessment was performed on neighboring properties in 1995. Such assessment revealed no evidence of recognizable environmental conditions which may present an environmental liability. A copy of such Phase I Environmental Site Assessment has been provided to MBG.

D. Environmental Condition. If due to the environmental condition of any of the Property, MBG, in its reasonable discretion, deems the Property unfit for the uses MBG intends to make of it, MBG may, upon written notification to the LDFA, refuse to accept the conveyance of the Property.

5. Inspection. After this Agreement is signed but prior to Closing, MBG may enter the Property to make any tests, inspections, examinations or studies that MBG deems necessary, including, without limitation, soil borings and other soil analysis to determine whether the site is reasonably suitable for MBG's intended uses of it. MBG shall be solely responsible for all costs and expenses incurred in doing so and, if this transaction does not close, it will reasonably restore the affected property to the condition it was in prior to its entry on the Property.