ROCHESTER HILLS BROWNFIELD REDEVELOPMENT AUTHORITY

BROWNFIELD PLAN

Parcels 15-29-101-022 and 15-29-101-023, Northeast Corner of Hamlin and Adams Roads, Rochester Hills, Michigan

PREPARED BY Rochester Hills Brownfield Redevelopment Authority

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PROJECT # 3679f6

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BRA APPROVAL

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PROJECT SUMMARY

PROJECT NAME Legacy Rochester Hills - Redevelopment and Reuse of

Properties Located at the northeast corner of Hamlin

and Adams Roads, Rochester Hills, Michigan

DEVELOPER Goldberg Companies, Inc.

c/o Mr. Eric Bell

25101 Chagrin Boulevard, Suite 300

Beachwood, Ohio 44122

ELIGIBLE PROPERTY LOCATION The Eligible Property is located at the northeast corner

of Hamlin and Adams Roads, Rochester Hills, Michigan. Parcel ID Numbers 15-29-101-022 and 15-29-101-023.

TYPE OF ELIGIBLE PROPERTY Facility

SUBJECT PROJECT Legacy Rochester Hills (Project) consists of the redevelopment of the subject property, which

redevelopment of the subject property, which is located at the northeast corner of Hamlin and Adams Roads in

the City of Rochester Hills. The final plans for the redevelopment have not been completed. However, this Project will include remediation of contaminated soils and construction of a new residential apartment complex with up to 400 units, an amenity, and with onsite surface parking. This Project will ultimately put

an underutilized property into productive use and return it to the City's tax rolls.

In addition to the economic benefits of this

development to Rochester Hills, environmental activities are anticipated that would provide a safer and

healthier community to the public.

The Project is seeking approval of Tax Increment

Financing (TIF). Construction is expected to begin in late

2017.

ELIGIBLE ACTIVITIES Department Specific Activities and preparation of a

Brownfield Plan and Act 381 Work Plan

DEVELOPER'S REIMBURSABLE \$ 9,619,587 (Est. Eligible Activities & Contingency)

COSTS \$ 4,581,988 (Interest)

\$14,201,575

PROJECTED DURATION OF 24 years (Local capture ends in Year 21, followed by 3

CAPTURE years of revolving fund capture)

ESTIMATED TOTAL CAPITAL

INVESTMENT \$50 million

INITIAL TAXABLE VALUE \$37,440

LIST OF ACRONYMS AND DEFINITIONS

BEA Baseline Environmental Assessment (Michigan process

to provide new property owners and/or operators with

exemptions from environmental liability)

BFP OR PLAN Brownfield Plan

DEVELOPER Goldberg Companies, Inc. or other entity as approved

by the Rochester Hills Brownfield Redevelopment

Authority.

ELIGIBLE PROPERTY Property for which eligible activities are identified under

a Brownfield Plan, referred to herein as "the subject

property".

ESA Environmental Site Assessment

LBRF Local Site Remediation Revolving Fund

MDEQ Michigan Department of Environmental Quality
MEDC Michigan Economic Development Corporation

MSF Michigan Strategic Fund

PHASE I ESA An environmental historical review and site inspection

(no soil and/or groundwater sampling and analysis)

PHASE II ESA Environmental subsurface investigation (includes soil,

soil gas, and/or groundwater sampling and analysis)

RCC Residential Cleanup Criteria

RHBRA Rochester Hills Brownfield Redevelopment Authority

SUBJECT PROPERTY The Eligible Property, located at the northeast corner of

Hamlin and Adams Roads, in Rochester Hills, Michigan.

It comprises 2 parcels.

TIF Tax Increment Financing (TIF describes the process of

using TIR—i.e., TIF is the use of TIR to provide financial

support to a project)

TIR Tax Increment Revenue (new property tax revenue,

usually due to redevelopment and improvement that is generated by a property after approval of a Brownfield

Plan)

BROWNFIELD PLAN

Northeast Corner of Hamlin and Adams Roads Rochester Hills, Michigan 48309

1.0 Introduction

The City of Rochester Hills, Michigan (the "City"), established the Rochester Hills Brownfield Redevelopment Authority (the "Authority") on November 13, 2002, pursuant to Michigan Public Act 381 of 1996, as amended ("Act 381"). The primary purpose of Act 381 is to encourage the redevelopment of eligible property by providing economic incentives through tax increment financing for certain eligible activities.

A primary purpose of this Brownfield Plan is to promote the redevelopment of, and investment in, certain "Brownfield" properties within the City. Inclusion of the subject property in a brownfield plan will facilitate financing of environmental response and other eligible activities at eligible properties. This will enable eligible taxpayers to invest in revitalization of eligible sites, commonly referred to as "Brownfields" that otherwise would be economically unfeasible to redevelop. By facilitating redevelopment of Brownfield properties, Brownfield plans are intended to promote economic growth for the benefit of the residents of the City and all taxing units located within and benefited by the Authority.

The identification or designation of a developer or proposed use for the Eligible Property that is the subject of this Brownfield Plan (the "subject property") shall not be integral to the effectiveness or validity of this Brownfield Plan. This Brownfield Plan is intended to apply to the subject property identified in this Brownfield Plan. With respect to tax increment revenues proposed to be captured from that subject property, the Brownfield Plan is to identify and authorize the eligible activities to be funded by such tax increment revenues. Any change in the proposed developer or proposed use of the subject property shall not necessitate an amendment to this Brownfield Plan (unless such proposed use necessitates environmental response activities that cannot be supported under this Brownfield Plan), affect the application of this Brownfield Plan to the subject property, or impair the rights available to the Authority under this Brownfield Plan.

This Brownfield Plan is intended to be a living document, which may be modified or amended in accordance with the requirements of Act 381, as necessary to achieve the purposes of Act 381. If uses other than those currently planned by the Developer (i.e., residential use on the western Parcel A, and non-residential use, including open natural area and surface parking on the eastern Parcel B) are pursued in the future, the Brownfield Plan shall be amended if support of the new use through tax increment revenue is desired. The applicable sections of Act 381 are noted throughout the Brownfield Plan for reference purposes.

This Brownfield Plan contains information required by Section 13(1) of Act 381.

Legacy Rochester Hills (Project) consists of the redevelopment of the subject property. The final plans for the redevelopment have not been completed. However, this Project will include the remediation of contaminated soils and construction of a new residential apartment complex with up to 400 units with

onsite surface parking and an amenity. This Project will ultimately put underutilized property back to productive use and will generate new tax revenue for the City. Although the Project is 100% residential, up to 10 new full-time permanent jobs are expected as well as 400 temporary construction jobs during the course of redevelopment.

In addition to the economic benefits of this development to the City of Rochester Hills, environmental activities are anticipated that would provide a safer and healthier community to the public and environment alike.

The Project is seeking approval of Tax Increment Financing (TIF). Construction is expected to begin in late 2017.

2.0 General Provisions

The following sections detail information required by Act 381.

The project is for the redevelopment of the former Christensen Dump, located on two parcels northeast of the intersection of Hamlin and Adams Roads. The Christensen Dump operated from the mid-1950s until the mid-1960s. Later, during the 1960s and early-1970s, 55-gallon drums (which contained a variety of chemicals including paint and solvents) were dumped illegally on the property. The property has remained unimproved with no apparent use since that time.

Both parcels are heavily contaminated. Analytical results of previous environmental investigations conducted on the two parcels indicate that concentrations of select metals, pesticides, volatile organic compounds (VOCs), polychlorinated biphenyls (PCBs) and polynuclear aromatic compounds (PNAs) were detected in soil and/or groundwater above Michigan Department of Environmental Quality (MDEQ) Residential Cleanup Criteria (RCC).

Because of both heavy contamination and geotechnical issues from dumping, the properties have been unable to attract development or use since the 1960s. The area is attractive for new construction, but the costs associated with site conditions are so high that all previous efforts have been stymied. The most recent proposal, in 2008, failed because the redevelopment plan was unable to attract funding. In addition to financial viability, the current Legacy Rochester Hills development offers significant improvements over previous proposals, including: (1) this development entails more extensive cleanup activities on the western side of the property; (2) the proposed residential use is a better fit for the neighborhood; and (3) remediation activities planned for the former landfill include creation of a conservation area, which will expand upon municipal greenspace to the east of the subject property.

The proposed redevelopment has two components. The first, on the western portion of the property (Parcel A), involves remediation of contamination and construction of up to 400 high-quality rental residential units. The second, on the eastern end of the property (Parcel B), is limited to environmental remediation activities in the areas of most significant contamination (excavation and removal of certain non-hazardous contaminated soils, and capping and isolating the area of most significant impact). Together, the two components will result in economically productive rehabilitation and reuse of properties that for decades been a blight in the community. In addition to the significant benefits of environmental cleanup, the project will result in an immediate increase in tax revenue for some taxing jurisdictions.

BROWNFIELD PLAN | NORTHEAST CORNER OF HAMLIN AND ADAMS ROADS, ROCHESTER HILLS, MI REVISION DATE: NOVEMBER 9, 2017

2.1 Description of Eligible Property (Section 13 (I)(h)

The Eligible Property ("subject property") is located at the northeast corner of Hamlin and Adams Roads, in the northwest ¼ of Section 29 in the City of Rochester Hills (T.3N. /R.11E.), Oakland County, Michigan. The subject property is situated northeast of the intersection of Hamlin and Adams Roads. The subject property currently consists of two parcels that contain approximately 28 acres. It is anticipated that the property boundary separating the two parcels will be redrawn prior to the commencement of the project; this anticipated boundary is shown on Figure 3, separating Parcel A and Parcel B. Since the residential development on Parcel A is planned to occur in two phases (Phase 1 and Phase 2), Parcel A may be further subdivided into a Phase 1 parcel and Phase 2 parcel. It should be noted that any future parcel reconfigurations or divisions will not affect the Eligible Property boundary, nor would they necessitate a Plan amendment. Moreover, while it is anticipated that all parcels will be the beneficiary of Department Specific Activities (i.e., environmental activities), they might not be owned by the same entity.

The subject property is in an area of Rochester Hills ("City") that is characterized by residential properties and is served by surface roadways, municipal sanitary sewer and water, and electrical and gas utilities.

The following table describes each parcel which comprises the subject property. See Attachment A, Figure 2 – Eligible Property Boundary Map.

Address	Tax Identification Number	Basis of Brownfield Eligibility	Approximate Acreage
No Address	15-29-101-022	Facility	18.8
No Address	15-29-101-023	Facility	9.2

Eligible Property Information

The subject property is zoned Residential (R2). The subject property consists of undeveloped land and does not contain any structures. A chain link fence to deter entry into the most highly contaminated portion is present on the eastern portion of the eastern parcel.

Attachment A includes site maps of the Eligible Property, refer to: Figure 1, Scaled Property Location Map and Figure 2, Eligible Property Boundary Map (which includes lot dimensions). The legal descriptions of the parcels included in the Eligible Property are presented in Attachment B.

The parcels and all tangible real and personal property located thereon will comprise the Eligible Property, which is referred to herein as the "subject property."

2.2 Basis of Eligibility (Section 13 (2)(h), Section 2 (n)), Section 2(o)

The subject property is considered "Eligible Property" as defined by Act 381, Section 2 because: (a) the subject property was previously utilized as a commercial property; and (b) each of the parcels comprised by the subject property has been determined to be a "facility." Due to the contamination present both onsite and offsite, redevelopment requires extensive environmental response activities, including removal of contaminated soils and installation of due care engineering controls.

Historical use of the property consists of the following:

• 1940 – early 1950s: agricultural land (including slaughterhouse operations)

• Mid-1950s – Mid-1960s: commercial landfill

• 1960s – Present: undeveloped

Several environmental investigations have been conducted on the subject property. Refer to Attachment D for additional details and documentation on site environmental conditions. Hazardous substances known to exceed residential cleanup criteria compounds (which form the basis for the facility designations), Chemical Abstract Service (CAS) numbers, sample location, depths, and media affected are summarized in the following tables.

On the western parcel (Tax Identification No. 15-29-101-022):

Summary of Soil Analytical Results

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Arsenic	7440382	TP-2, TP-21, 2-3 (0-1'), 2-3 (10-12'), AKT-5 (20-22'), SB-5 (10-14'), SB-6 (18-20'), SB-9 (18-20'), SB-10 (18-20'), SS-3 (4-6'), SS-4 (2-4'), SS-6 (0-2'), SS-9 (2-4'), SS-10 (2-4')	DWP / 4,600 GSIP / 4,600 DC / 7,600	25,000 / SB-5 (10-14')
Acenaphthene	83329	DUP-1 [EP-5 (6')]	GSIP / 8,700	22,100 / DUP-1 [EP-5 (6')]
Benzo(a)pyrene	50328	DUP-1 [EP-5 (6')]	DC / 2,000	4,500 / DUP-1 [EP-5 (6')]
beta- Hexachlorocyclohexane	319857	TP1W	GSIP / 37	65 / TP1W
Cadmium	7440439	EP-31 (0.5-1'), SS-6 (0-2')	DWP / 6,000	39,000 / EP-31 (0.5-1')

BROWNFIELD PLAN | NORTHEAST CORNER OF HAMLIN AND ADAMS ROADS, ROCHESTER HILLS, MI REVISION DATE: NOVEMBER 9, 2017

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Chromium (total)	18540299	TP-2, TP-3-1, TP-21, 2-3 (0-1'), 2-3 (10-12'), EP-5 (6'), DUP-1 [EP-5 (6')], DUP-2 [EP-14 (7')], EP-31 (0.5-1'), EP-37 (0.5-1'), DUP-5 [EP-37 (0.5-1')], SB-3 (18-20'), SB-5 (10-14'), SB-6 (18-20'), SB-10 (18-20'), SB-12 (18-20'), SS-1 (0-2'), SS-2 (4-6'), SS-3 (4-6'), SS-4 (2-4'), SS-5 (2-4'), SS-6 (0-2'), SS-7 (4-6'), SS-8 (0-2'), SS-9 (2-4'), SS-10 (2-4'), TR1N, TR1S, TR1W, TR1Bottom-N, TR1Bottom-S, TR2-N, TR2-S, TR2-East, TR2-West, TR2-B North, TR2-B South, TP1N, TP1Bottom-S	DWP/ 30,000 GSIP / 3,300	91,000 / SS-3 (4-6')
Dibenzofuran	132649	DUP-1 [EP-5 (6')]	GSIP / 1,700	26,400 / DUP-1 [EP-5 (6')]
Fluorene	86737	DUP-1 [EP-5 (6')]	GSIP / 5,300	24,700 / DUP-1 [EP-5 (6')]
Fluoranthene	206440	DUP-1 [EP-5 (6')]	GSIP / 5,500	19,000 / DUP-1 [EP-5 (6')]
Lead	7439921	TP-2, TP-21, EP-31 (0.5-1'), SS-6 (0-2')	DC / 400,000	660,000 / TP-2
Mercury	7439976	TP-21, EP-14 (7'), DUP-2 [EP-14 (7')], EP-31 (0.5-1'), EP-37 (0.5-1'), DUP-5 [EP-37 (0.5-1')], SS-6 (0-2'), SS-9 (2-4')	GSIP / 50	500 / SS-6 (0-2')
2-Methylnaphthalene	91576	DUP-1 [EP-5 (6')]	GSIP / 4,200	16,500 / DUP-1 [EP-5 (6')]
Naphthalene	91203	EP-5 (6'), DUP-1 [EP-5 (6')], EP-31 (0.5-1')	DWP / 35,000 GSIP / 730	142,000 / DUP-1 [EP-5 (6')]
Phenanthrene	85018	EP-5 (6'), DUP-1 [EP-5 (6')]	GSIP / 2,100	51,400 / DUP-1 [EP-5 (6')]

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Polychlorinated biphenyls	1336363	DUP-1 [EP-5 (6')]	DC / 4,000	22,100 / DUP-1 [EP-5 (6')]
Selenium	7782492	EP-31 (0.5-1'), SS-6 (0-2'), SB-1 (19-20'), SB-3 (18-20'), SB-6 (18-20'), SB-8 (18-20'), SB-9 (18-20'), SB-10 (18-20')	GSIP / 400	1,000 / SB-1 (19- 20')
Silver	7440224	EP-37 (1-2')	GSIP / 100	2,070 / EP-37 (1- 2')
Xylenes	95476	EP-31 (0.5-1')	GSIP / 820	930 / EP-31 (0.5- 1')

Table Notes:

ug/kg – microgram per kilogram

DWP – Drinking Water Protection Criteria

GSIP – Groundwater Surface Water Interface Protection Criteria

DC - Direct Contact Criteria

Summary of Groundwater Analytical Results

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Arsenic	7440382	MW-13D, AKT-5W	DW/ 10 GSI/10	21 / AKT-5W
Chromium	7440473	AKT-5W	GSI / 11	18 / AKT-5W
Lead	7439921	AKT-5W	DW/ 4	42 / AKT-5W

Table Notes:

ug/L - microgram per liter

DW – Drinking Water Criteria

GSI – Groundwater Surface Water Interface Criteria

On the eastern parcel (Tax Identification No. 15-29-101-023):

Summary of Soil Analytical Results

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Antimony	7440360	AKT-8 (3-5')	DWP / 4,300	6,140 / AKT-8 (3- 5')
Arsenic	7440382	GP-1 (4-7'), GP-3 (2-6'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-5 (11-14'), GP-6 (2-4'), GP-7 (4-8'), GP-8 (0-2'), GP-8 (9-10.5'), GP-9 (4-6'), GP-9 (6-7.5'), GP-10 (6-8'), GP-10 (8-10'), GP-11 (4.5-5'), GP-12 (0-2'), MW-9D (2-4'), MW-9D (4-6'), TP-16b, EP-28 (8'), EP-33 (15'), EP-48 (6'), AKT-8 (3-5')	DWP / 4,600 GSIP / 4,600 DC / 7,600	36,000 / GP-3 (2-6')
Benzene	71432	GP-1 (4-7'), GP-4 (2.5-4'), EB-23 (3-5')	DWP / 100	800 / EB-23 (3-5')
Benzo(a)anthracene	56553	GP-4 (2.5-4'), EB-20 (5-7')	DC / 20,000	33,000 / GP-4 (2.5-4')
Benzo(a)pyrene	50328	GP-1 (4-7'), GP-4 (2.5-4'), GP-6 (2-4'), GP-10 (6-8'), EB-7 (1-3'), EB-11 (10-12'), Duplicate [EB-13 (13-15')], EB-18 (3-5'), EB-19 (4-5'), EB-20 (5-7'), EB-21 (8-10'), EB-23 (3-5'), EB-24 (8-10'), EB-25 (3-4'), EB-26 (1-3'), EB-27 (1-3'), EB-29 (1-3'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-31 (3-5'), EB-31 (7-9'), EB-32 (1-3'), EB-35 (1-3'), EB-39 (3-5'), EB-40 (3-5'), Duplicate 5 [EB-40(3-5')]	DC / 2,000	29,000 / GP-4 (2.5-4')
Benzo(b) fluoranthene	205992	GP-4 (2.5-4')	DC / 20,000	48,000 / GP-4 (2.5-4')
Bis(2- ethylhexyl)phthalate	117817	GP-7 (4-8')	DC / 2,800,000 SSSL / 10,000,000	37,000,000 / GP-7 (4-8')
n-Butylbenzene	104518	EB-9 (8-10'), Duplicate 3 [EB-13 (13-15')]	DWP / 1,600	10,000 / EB-9 (8- 10')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
sec-Butylbenzene	135998	GP-1 (4-7'), GP-4 (2.5-4'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5')	DWP / 1,600	50,000/ EB-12 (8- 10')
Cadmium	7440439	GP-3 (2-6'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-6 (2-4'), GP-7 (4-8'), GP-8 (0-2'), TP-16b, EB-1 (3-5'), EP-23 (2'), EP-33 (7'), Duplicate 4 [EP-33 (7')], EP-33 (15'), AKT-8 (3-5')	DWP / 6,000	61,000 / GP-8 (0- 2')
Carbon tetrachloride	56235	GP-6 (12-13.5')	DWP / 100	110 / GP-6 (12- 13.5')
Carbazole	86748	GP-6 (2-4'), GP-10 (6-8')	GSIP / 1,100	5,200 / GP-6 (2-4')
Chromium (total)	18540299	SB-2 (14-16'), GP-1 (4-7'), GP-2 (13-15'), GP-3 (2-6'), GP-3 (10-12'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-5 (11-14'), GP-6 (2-4'), GP-6 (12-13.5'), GP-7 (4-8'), GP-7 (9-10.5'), GP-8 (0-2'), GP-8 (9-10.5'), GP-9 (4-6'), GP-9 (6-7.5'), GP-10 (6-8'), GP-10 (8-10'), GP-11 (4-5.5'), GP-11 (5.5-7'), GP-12 (0-2'), GP-13 (16-18'), MW-9D (2-4'), MW-9D (4-6'), TP-16B, EB-1 (3-5'), EP-19 (0.5-1'), EP-22 (6'), Duplicate 3 [EP-22 (6')], EP-23 (2'), EP-28 (8'), EP-30 (7'), EP-33 (7'), Duplicate 4 [EP-33 (7')], EP-33 (15'), EP-48 (6'), AKT-8 (3-5'), AKT-9 (8-10')	DWP/ 30,000 GSIP / 3,300 PSI / 260,000 DC / 2,500,000	2,880,000 / GP-5 (4-8')
Di-n-butyl phthalate	84742	GP-4 (11-12'), EB-12 (10-11'), EB-38 (3-5')	GSIP / 11,000	61,000 / GP-4 (11- 12')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Ethylbenzene	100414	GP-1 (4-7'), GP-4 (2.5-4'), GP-5 (4-8'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5'), AKT-8 (3-5')	DWP / 1,500 GSIP / 360 SVIAI / 87,000 SSSL / 140,000	590,000 / EB-12 (8-10')
Fluorene	86737	EB-20 (5-7'), AKT-8 (3-5')	GSIP / 5,300	6,000 / EB-20 (5- 7')
Fluoranthene	206440	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-6 (2-4'), GP-10 (6-8'), EB-11 (10-12'), EB-18 (3-5'), EB-19 (4-5'), EB-20 (5-7'), EB-21 (8-10'), EB-23 (3-5'), EB-24 (8-10'), EB-25 (3-4'), EB-26 (1-3'), EB-27 (1-3'), EB-28 (8-10'), EB-29 (1-3'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-32 (1-3'), EB-38 (3-5'), EB-40 (3-5'), Duplicate 5 [EB-40 (3-5')]	GSIP / 5,500	97,000 / GP-4 (2.5-4')
Isopropyl benzene	98828	EB-11 (10-12'), EB-12 (8-10'), EB-19 (4-5'), EB-21 (8-10'), EB- 22 (6-8'), EB-23 (3-5'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5')	GSIP / 3,200	70,000 / EB-12 (8- 10')
Lead	7439921	GP-1 (4-7'), GP-3 (2-6'), GP-4 (2.5-4'), GP-5 (4-8'), GP-5 (11-14'), GP-6 (2-4'), GP-7 (4-8'), GP-8 (0-2'), TP-16B, EB-1 (3-5'), EP-23 (2'), EP-28 (8'), EP-33 (7'), Duplicate 4 [EP-33 (7')], EP-33 (15'), AKT-8 (3-5')	DWP / 700,000 DC / 400,000	2,450,000 / GP-5 (4-8')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Mercury	7439976	SB-3 (2-4'), GP-1 (4-7'), GP-3 (2-6'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-6 (2-4'), GP-7 (4-8'), GP-7 (9-10.5'), GP-9 (4-6'), GP-10 (8-10'), TP-16b, EB-1 (3-5'), EP-19 (0.5-1'), EP-22 (6'), Duplicate 3 [EP-22 (6')], EP-23 (2'), EP-28 (8'), EP-30 (7'), EP-33 (7'), Duplicate 4 [EP-33 (7')], EP-33 (15'), EP-44 (6'), EP-48 (6'), AKT-8 (3-5')	DWP / 1,700 GSIP / 50	2,530 / AKT-8 (3- 5')
2-Methylnaphthalene	91576	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-18 (3-5'), EB-19 (4-5'), EB-20 (5-7'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-24 (8-10'), EB-28 (8-10'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5'), EB-39 (3-5'), AKT-8 (3-5')	DWP / 57,000 GSIP / 4,200	388,000,000 / EB- 39 (3-5')
Naphthalene	91203	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-12 (10-11'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-18 (3-5'), EB-19 (4-5'), EB-20 (5-7'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-28 (8-10'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5'), EB-39 (3-5'), EB-40 (3-5'), Duplicate 5 [EB-40 (3-5')], AKT-8 (3-5'), AKT-9 (8-10'), AKT-8 (3-5')	DWP / 35,000 GSIP / 730 SVIAI / 250,000 VSIC / 300,000	400,000 / EB-12 (8-10')
Nickel	7440020	AKT-8 (3-5')	DWP / 100,000	339,000 / AKT- 8(3-5')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
Phenanthrene	85018	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-6 (2-4'), GP-10 (6-8'), EB-11 (10-12'), Duplicate 3 [EB-13 (13-15')], EB-18 (3-5'), EB-19 (4-5'), EB-20 (5-7'), EB-22 (6-8'), EB-23 (3-5'), EB-24 (8-10'), EB-25 (3-4'), EB-26 (1-3'), EB-27 (1-3'), EB-29 (1-3'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-35 (1-3'), EB-40 (3-5'), Duplicate 5 [EB-40 (3-5')], AKT-8 (3-5')	GSIP / 2,100	33,000 / GP-6 (2-4')
Polychlorinated biphenyls	1336363	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-7 (4-8'), GP-7 (4-8'), GP-7 (9-10.5'), GP-8 (0-2'), EB-10 (10-12'), EB-11 (1-3'), EB-11 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (8-10'), EB-13 (3-5'), EB-13 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-18 (3-5'), EB-19 (4-5'), EB-19 (5-7'), EB-19 (8-10'), EB-20 (1-3'), EB-20 (3-5'), EB-20 (5-7'), EB-21 (3-5'), EB-21 (8-10'), EB-22 (3-5'), EB-22 (6-8'), EB-22 (10-12'), EB-23 (3-5'), EB-23 (5-7'), EB-23 (7-9'), EB-28 (1-3'), EB-28 (3-5'), EB-28 (8-10'), EB-29 (3-5'), EB-29 (8-9'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-30 (3-5'), EB-31 (1-3'), EB-31 (3-5'), EB-32 (1-3'), EB-38 (3-5'), EB-38 (8-10'), EB-39 (1-3'), EB-39 (3-5'), EB-38 (8-10'), EB-39 (1-3'), EB-40 (3-5'), Duplicate 5 [EB-40 (3-5')], EB-40 (8-10'), Duplicate 4 [EP-33 (7')], AKT-8 (3-5')	DC / 4,000 VSIC / 240,000	2,300,000 / GP-7 (4-8')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location
n-Propylbenzene	103651	GP-1 (4-7'), GP-4 (2.5-4'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 2 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5')	DWP / 1,600	110,000 / EB-12 (8-10')
Selenium	7782492	GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-5 (11-14'), GP-7 (4-8'), GP-8 (0-2'), TP-16b, EB-1 (3-5'), EP-23 (2'), EP-30 (7'), EP-33 (15'), AKT-8 (3-5')	GSIP / 400	1,700 / GP-4 (2.5- 4')
Silver	7440224	SB-2 (14-16'), SB-3 (2-4'), GP-1 (4-7'), GP-2 (13-15'), GP-3 (2-6'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-5 (11-14'), GP-6 (2-4'), GP-7 (4-8'), EP-23 (2'), EP-33 (7'), Duplicate 4 [EP-33 (7')], EP-33 (15'), AKT-8 (3-5')	DWP / 4,500 GSIP / 100	90,000 / GP-2 (13- 15')
Toluene	10883	EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB- 38 (3-5')	DWP / 16,000 GSIP / 5,400 SVIAI / 330,000 SSSL / 110,000	400,000 / EB-12 (8-10')
Trichloroethylene	79016	GP-3 (10-12'), GP7 (4-8')	DWP / 100	410 / GP-3 (10- 12')
1,2,4- Trimethylbenzene	95636	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-7 (4-8'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5'), AKT-9 (8-10')	DWP / 2,100 GSIP / 570 DC / 110,000 SSSL / 110,000	760,000 / EB-12 (8-10')

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location		
1, 3, 5- Trimethylbenzene	108678	GP-4 (2.5-4'), EB-9 (9-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')]	DWP / 1,800 GSIP / 1,100 SSSL / 150,000	280,000 / EB-12 (8-10')		
Xylenes	95476	GP-1 (4-7'), GP-4 (2.5-4'), GP-4 (11-12'), GP-5 (4-8'), GP-7 (4-8'), EB-9 (8-10'), EB-11 (10-12'), EB-12 (8-10'), EB-13 (13-15'), Duplicate 3 [EB-13 (13-15')], EB-19 (4-5'), EB-21 (8-10'), EB-22 (6-8'), EB-23 (3-5'), EB-30 (1-3'), Duplicate 4 [EB-30 (1-3')], EB-38 (3-5')	DWP / 5,600 GSIP / 820 SSSL / 150,000	2,070,000 / EB-12 (8-10')		
Zinc	7440666	GP-5 (4-8')	DWP / 2,400,000	7,100,000 / GP-5 (4-8')		

Table Notes:

ug/kg – microgram per kilogram

DWP - Drinking Water Protection Criteria

GSIP – Groundwater Surface Water Interface Protection Criteria

PSI- Particulate Soil Inhalation Criteria

SVIAI – Soil Volatilization to Indoor Air Inhalation Criteria

VSIC - Infinite Source Volatile Soil Inhalation Criteria

DC – Direct Contact Criteria

SSSL – Soil Saturation Concentration Screening Levels

Summary of Groundwater Analytical Results

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location	
Arsenic	7440382	MW-2D, AKT-9W, AKT-10W	DW/ 10 GSI/10	33 / AKT-9W	
Benzene	71432	AKT-9W	DW / 5	60 / AKT-9W	

Parameter	CAS Number	Sample Identification with Criteria Exceedance	Part 201 Residential Criteria Exceeded/ Established Criteria (ug/kg)	Maximum Concentration (ug/kg)/Sample Location		
Chromium	7440473	MW-6	GSI / 11	15 / MW-6		
Di-n-butyl phthalate	84742	AKT-9W	GSI / 9.7	55 / AKT-9W		
Ethylbenzene	100414	AKT-9W	DW / 74 GSI / 18	1,090 / AKT-9W		
4-Methyl-2- pentanone (MIBK)	108101	AKT-9W	DW / 1,800	4,000 / AKT-9W		
Naphthalene	91203	AKT-9W	GSI / 11	90 / AKT-9W		
Selenium	7782492	AKT-9W	GSI / 5	8 / AKT-9W		
Toluene	108883	AKT-9W	DW / 790 GSI / 270	2,220 / AKT-9W		
1,2,4- Trimethylbenzene	95636	AKT-9W	DW / 63 GSI / 17	730 / AKT-9W		
1,3,5- Trimethylbenzene	108678	AKT-9W	DW / 72 GSI / 45	120 / AKT-9W		
Vinyl Chloride	75014	MW-4D	DW/ 2	3.5 / MW-4D		
Xylenes	1330207	AKT-9W	DW / 280 GSI / 41	4,660 / AKT-9W		

Table Notes:

ug/L - microgram per liter

DW - Drinking Water Criteria

GSI – Groundwater Surface Water Interface Criteria

Based on this information, Parcels A and B are a "facility" as defined in Part 201 of Natural Resources and Environmental Protection Act (NREPA), Michigan Public Act (PA) 451, as amended.

2.3 Summary of Eligible Activities and Description of Costs (Section 13 (2)(a),(b))

The "eligible activities" that are intended to be carried out at the subject property are considered "eligible activities" as defined by Sec 2 of Act 381, because they include Department Specific Activities and preparation of a Brownfield and Act 381 work plan (see Table 1). On the western Parcel A, Department Specific Activities include environmental assessment, excavation, soil removal, and backfill in contaminated areas. These activities are anticipated to begin in late 2017 or early 2018, and are expected to take approximately three to four months to complete. Department Specific Activities on the western parcel also include installation of sub slab venting systems on new construction. Installation of

the systems will be coordinated with construction activities, which are estimated to take approximately 24-36 months to complete after environmental cleanup. A date for commencement of Department Specific Activities on the eastern Parcel B cannot be estimated at this time, as it depends on future discussions between the developer, the City, and the current property owner. However, the activities, include soil and waste removal, and installation of a hydraulic barrier, liner & cap, and passive methane venting system on the former landfill area.

Detailed information on eligible activities is summarized below:

2.3.1 Baseline Environmental Assessment Activities

A Phase I ESA was completed for the subject property in January 2017. A Supplemental Subsurface Investigation and BEA are currently being prepared for the acquiring entity. Additional Phase I ESAs and BEAs may be completed for new entities.

2.3.2 NFA Report and Documentation of Due Care Compliance Report

Phase I and Phase II ESAs are in process or have been completed for the subject property. A BEA will be completed for Parcels A and B prior to the development entity's (or entities') acquisition of the subject property. Additional due care investigations are planned for Parcel A and Parcel B.

Parcel A

Remediation on Parcel A at the subject property will be completed in order to obtain an unrestricted residential status. Subsequent to the completion of remedial activities, a No Further Action (NFA) report will be prepared and submitted to MDEQ for review and approval.

The BEA and NFA reporting will be completed in accordance with Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 Public Act (PA) 451, as amended, and Michigan Department of Environmental Quality (MDEQ) Instructions for Preparing and Disclosing Baseline Environmental Assessments and Section 7a Compliance Analyses, effective March 11, 1999. The NFA will describe remedial activities associated with soil and groundwater contamination at the subject property in light of the nature of the proposed development construction activities and occupancy of the developed property. A detailed breakdown of the costs associated with this task is provided later in this section.

Parcel B

On Parcel B, targeted environmental response activities will be conducted on the areas associated with previous dumping and landfilling outside of the currently fenced area. As detailed in Section 2.3.4, these activities will include excavation of landfilled materials.

The fenced area, where most significant impact is generally located, will be subject to the installation of due care engineering controls. Cleanup activities on "areas of most significant impact" are intended to address the paint waste landfilled onsite; identification of these areas will be through field observation during excavation activities, using visual and olfactory criteria. Subsequent to the completion of remedial activities and installation of due care engineering controls, a Documentation of Due Care Compliance (DDCC) report will be completed. Future use of Parcel B is intended to be restricted to non-residential use, and is planned to be further limited to natural open area and surface parking. Therefore, in consultation with MDEQ, due care requirements for the intended use will be met. The Developer intends that the DDCC will be reviewed and approved by MDEQ, but does not intend to pursue closure for Parcel B.

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After consultation with EPA and MDEQ, encapsulation of landfilled materials, which includes areas where PCB contamination was previously detected on Parcel B, will be conducted pursuant to Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 Public Act (PA) 451, as amended (Part 201), rather than the Toxic Substances Control Act of 1976, which EPA administers. Correspondence with EPA outlining the basis for this determination is provided in Attachment D.

The BEA and DDCC reporting will be completed in accordance with Part 201 of the Natural Resources and Environmental Protection Act (NREPA), 1994 Public Act (PA) 451, as amended, and Michigan Department of Environmental Quality (MDEQ) Instructions for Preparing and Disclosing Baseline Environmental Assessments and Section 7a Compliance Analyses, effective March 11, 1999. A detailed breakdown of the costs associated with this task is provided later in this section.

2.3.3 Health and Safety Plan

A site-specific Health and Safety Plan (HASP) will be completed for redevelopment activities at the subject property by each of the subsurface contractors and others that can come into contact with potentially contaminated media during the performance of their work activities. The HASPs will comply with appropriate guidelines including the following:

- Michigan Occupational Safety and Health Act;
- Section 111(c)(6) of CERCLA;
- Occupational Safety and Health Administration requirements 29 CFR 1910 and 1926;
- Standard Operating Safety Guide Manual (revised November 1984) by the Office of Emergency and Remedial Response; and
- Occupation Safety and Health guidance manual for Hazardous Waste Site Activities (NIOSH/OSHA/USCG/EPA, DHHS [NIOSH] Publication No. 85-115, October 1985).

The HASPs will include the following elements:

- Authorized personnel and definition of responsibilities;
- proposed activities;
- personal protective equipment;
- decontamination procedures;
- work zone restrictions and delineations;
- personal protection upgrade/downgrade action limits;
- emergency information and telephone numbers;
- incident documentation procedures; and
- contingency plans.

Oversight will be conducted to ensure due care issues are addressed while eligible activities and construction activities are being completed. The following activities (at a minimum) will be documented:

- The type, location, quantities, etc., of materials removed from the site and disposed at the landfill or other appropriately licensed disposal operation.
- The final disposition and location of any contaminated media that can be managed on-site in accordance with due care requirements.
- Monitoring for unanticipated materials and/or materials previously not identified, including collection of samples for additional waste characterization.

• The type, location, materials and construction of vapor mitigation systems installed at the site to prevent future potential indoor air inhalation exposures.

The Contractor Site Safety Officer will document and enforce HASP issues with workers at the Site, including:

- Verification of on-site worker training and current certifications.
- Conducting site-specific HASP training for workers entering the site.
- Monitoring construction activities to ensure the HASP is being followed, including use of PPE, decontamination of equipment, site security, etc.

A Construction Summary Report (CSR) will be prepared and submitted to the MDEQ-RD at the completion of development activities. The CSR will summarize the due care issues addressed during the construction activities and will include such items as photographic documentation, disposal manifests, fill material load tickets, utility abandonment logs (if any), site plans, etc. to verify that the development construction activities were conducted in accordance with approved plans.

2.3.4 Soil Remediation Activities

AKT Peerless has conducted several investigations that detected numerous VOCs, SVOCs, PBCs and/or metals in soil and groundwater at concentrations that exceed MDEQ's Part 201 RCC. VOCs, SVOCs, PBCs and/or metals detected in soil and/or groundwater at the subject property during past investigations include:

Antimony Arsenic

Acenaphthene beta-Hexachlorocyclohexane

Benzene Benzo(a)anthracene

Benzo(a)pyrene Benzo(b)fluoranthene

Bis(2-ethylhexyl)phthalate n-Butylbenzene

Sec-Butylbenzene Cadmium

Carbon tetrachloride Carbazole

Chromium (total) Dibenzofuran

Di-n-butyl phthalate Ethylbenzene

Fluorene Fluoranthene

Isopropyl benzene Lead

Mercury 2-Methylnaphthalene

Naphthalene Nickel

Phenanthrene Polychlorinated biphenyls

n-Propylbenzene Selenium

Silver Toluene

Trichloroethylene 1,2,4-Trimethylbenzene

1,3,5-Trimethylbenzene 4-Methyl-2-pentanone (MIBK)

Vinyl Chloride Xylenes

Zinc

The Developer intends to construct a residential development on Parcel A and intends to remediate Parcel A to the extent that MDEQ may approve a No Further Action (NFA) request. Therefore, the Developer plans to remove the source areas of contamination on Parcel A. Based on the analytical results from previous subsurface investigations, six source areas have been identified on Parcel A (additional areas of contamination related to former landfilling are on Parcel B). Site specific background calculations will be performed for arsenic and selenium.

The Developer intends to perform environmental cleanup activities on Parcel B and install due care engineering controls, such that Parcel B can be used as open natural area and surface parking to support recreational activities on municipal property east of Parcel B. These cleanup activities include soil removal in Source Area E, as listed in the following table.

Procedures for relocation of contaminated soils will be specified in an Environmental Construction Management Plan. In general, however, relocation of contaminated soils is not anticipated. Moreover, no contaminated soils are to be relocated between Parcel A and Parcel B.

The table below provides approximate volumes of contaminated soil/fill to be removed from each of the source areas and the former landfill area on the subject property.

Parcel Where Source	Source Area	Approximate Yd ³			
Area Is Located					
Parcel A	Source Area A	1,630			
Parcel A	Source Area B	3,556			
Parcel A	Source Area C-1	7,741			
Parcel A	Source Area C-2	23,333			
Parcel A	Source Area D	6,667			
Parcel B	Source Area E	23,185			
Parcel A	Source Area F	741			

Due to the concentrations of soil contaminants in these source areas and due to the fact that the Developer wishes to pursue a NFA designation, impacted soil and fill materials must be removed from the subject property. The soil/fill will be removed and disposed at a Type II landfill. The costs included in the eligible activities include excavation, transportation, disposal, verification sampling, backfill, oversight and reporting, and project management. Due to compaction requirements, an additional 40,000 tons of backfill is anticipated to be necessary to return excavated areas to grade. Remediation

activities in Source Areas A-D and F is planned to begin in late 2017 or early 2018, and is anticipated to take approximately three to four months to complete. The commencement date for remedial and due care work in Source Area E depends on future discussions between the Developer, the City, and the current property owner and is expected to be conducted after completion of remedial work on Parcel A.

It should be noted that previous subsurface investigations encountered discontinuous, perched groundwater pockets with limited contamination. Groundwater contamination appeared to have been due to leaching from surrounding contaminated soils. It is anticipated that these pockets of impacted groundwater will be removed during soil remediation activities on Parcel A.

Please refer to Table 1, Eligible Activity Cost Detail, for specific line item costs for the due care activities, and to Figure 3 for the locations of the source areas. These costs include allowances for environmental project management, field time, and contracted services.

2.3.5 Hot Spot Removal

Previous subsurface investigations identified six hot spots of metals contamination, likely associated with shallow fill materials, much smaller than the source areas identified in section 3.1.1.3 above. These hot spots are located in the central and southeastern portions of the western Parcel A. In order to remediate these areas, approximately 1,500 yd³ of soil is anticipated to be excavated and disposed at a Type II landfill. The costs included in the eligible activities include excavation, transportation, disposal, verification sampling, backfill, oversight and reporting, and project management. These activities are anticipated to be completed at the same time as the soil removal described in the previous section. The costs in this section include allowances for environmental project management, field time, and contracted services.

2.3.6 Sub-Slab Venting System (New Construction)

Methane has not been found extensively across the property; however, the subject property is at risk for migration of methane gas from the landfill located across Hamlin Road to the south. This would be a concern for financing. As a result, the Developer intends to install passive sub-slab venting systems in all new buildings as a presumptive remedy to prevent indoor air exposure. AKT Peerless will engage with MDEQ representatives to obtain approval of the draft venting system construction plan. Construction of the systems will occur at the same time as construction of the residential units, which is anticipated to occur over approximately 3 years, beginning in late 2017 or early 2018. This cost includes assessment, design, construction, testing, reporting, and project management for the systems.

An Operation and Maintenance (O&M) Plan for the sub-slab venting systems will be prepared by an environmental consultant.

2.3.7 Engineering Controls – Former Landfill Area

Complete removal of the area of the highest contamination, the former landfill area on the eastern parcel, is neither geotechnically sound or financially feasible. A hydraulic barrier system will be installed around the perimeter of the former landfill area (approximately 1,400 linear feet). Following the removal of contaminated soils from Area E, the initial portion of the barrier wall will be constructed adjacent to the western side of the landfill area (Refer to Figure 3, where this barrier wall is denoted as the "Clay Backfill Wall"). The final design of the barrier system is not complete, but will likely consist of a (minimum) 2-foot thick clay liner "slurry wall" around the remainder of the landfill area. The clay will be compacted to 95% based on the optimum moisture content. Shoring or trench boxes will be used to ensure slope stability during the installation and compaction of the clay walls. The purpose of the Clay

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Backfill Wall and slurry wall is to prevent infiltration of groundwater into the former landfill area. The bottom of the Clay Backfill Wall and slurry wall will tie into native clay, and the top of these walls will tie into the clay cap, thus completely encapsulating the landfill area. Further, these control measures will act to prevent leachate formation.

As noted above, the former landfill will be covered with 2 feet of compacted clay and a flexible membrane liner and cap to prevent exacerbation of existing contamination. The clay cap will tie into the slurry wall and Clay Backfill Wall. In addition, if deemed necessary by MDEQ, a passive methane venting system will be designed and installed either (a) west of the former landfill area (approximately 1,400 linear feet), or (b) within the landfill area, to manage landfill gases on-site.

The environmental consultant will prepare and implement an O&M Plan for the engineering controls installed in the former landfill area. The O&M Plan is anticipated to include a recommendation for quarterly long term inspection/methane monitoring. The cost estimate for implementation of an O&M plan is \$30,000 per year.

This cost includes design, installation, reporting, and project management for the systems.

2.3.8 Passive Methane Venting System

The south adjacent property is a former landfill. As a presumptive remedy to preemptively protect against the migration of contamination from methane gases, a passive methane venting system will be installed on the subject property along Hamlin Road, if deemed necessary by MDEQ. An O&M Plan for the venting system will be prepared.

This cost includes design, installation, reporting, and project management for the system. In addition, the environmental consultant will prepare and implement an O&M Plan for the engineering controls installed along Hamlin Road. The O&M Plan is anticipated to include a recommendation for quarterly long term inspection/methane monitoring.

2.3.9 Site Control & Erosion Control

In order to be protective of workers and residents, the excavation areas will be fenced or barricaded to minimize potential for unauthorized access to contaminated soil. These costs include the silt fencing for the north and east in order to mitigate erosion concerns; dust monitoring during environmental mitigation work in order to address further concerns of the neighbors to the north; a Soil Erosion and Sedimentation Control Plan; and a Fugitive Dust Emission Control and Contingency Plan. Additionally, a gravel mat will be constructed along the truck route leaving the property to minimize tracking of dirt and potentially impacted soil from the property.

During soil excavation and removal activities the truck routes will be as follows:

Site Arrival

- The trucks will initially use the entrance ramps on M-59 at the Adams Road interchange.
- The trucks will proceed north on Adams Road to Hamlin Road.
- Turn right (east) on Hamlin Road to enter the site. All trucks will be staged on site while waiting to be loaded or completion of shipping papers.

Site Departure

- The trucks leave the site onto Hamlin Road and proceed west toward Adams.
- The trucks will turn left (south) onto Adams Road and proceed to the M-59 interchange.
- The trucks will access M-59 from Adams Road and procedure to their destination.

See Figure 4 for a proposed truck route map.

2.3.10 Dewatering

The potential for water in excavations exists, particularly in Area E. In the event that groundwater is encountered in sufficient quantities to require dewatering, the water will be containerized in frac tanks. Once containerized, the water will be sampled to determine whether or not disposal is necessary or if the water can be discharged to the POTW under a permit. In the event that groundwater is encountered in a quantity that is too large to containerize, alternate methods for direct dewatering and disposal will be evaluated.

A summary of the eligible activities and the estimated cost of each eligible activity intended to be paid for with Tax Increment Revenues from the subject property are shown in the table below.

Estimated Cost of Reimbursable Eligible Activities

	Description of Eligible Activity	Estimated Cost*		
1.	Department Specific Activities	\$ 8,328,415		
Sı	ubtotal Environmental & Non-Environmental Eligible Activities	\$ 8,328,415		
2.	15% Contingency on Eligible Activities**	\$ 1,246,172		
3.	Brownfield Plan & Act 381 WP Preparation Activities	\$ 45,000		
To	otal Eligible Activities Cost with 15% Contingency	\$ 9,619,587		
4.	BRA Administration Fee	\$ 240,000		
5.	State Revolving Fund	\$ 1,287,667		
6.	Local Brownfield Revolving Fund (LBRF)***	\$ 2,963,575		
7.	Interest (calculated at 5%, simple)****	\$ 4,581,988		
To	otal Eligible Costs for Reimbursement	\$ 18,692,816		

^{*}Estimated costs are subject to approval by MDEQ, as required. Any costs not approved by the MDEQ, as required, may become local only costs paid out of captured tax increment revenues from locally levied millages (to the extent available). Reimbursement of these activity costs would be limited to the local proportional share of local captured taxes.

A detailed breakout of the eligible activities and the estimated cost of each eligible activity intended to be paid for with Tax Increment Revenues from the subject property is shown in Attachment C, Table 1. It is currently anticipated that redevelopment will begin in late 2017 and be completed in 2021.

The Developer desires to be reimbursed for the costs of eligible activities. Tax increment revenue generated by the subject property will be captured by the Authority and used to reimburse the cost of the eligible activities completed on the subject property after approval of this Brownfield Plan and an associated reimbursement agreement.

The costs listed in the table above are estimated costs and may increase or decrease depending on the nature and extent of environmental contamination and other unknown conditions encountered on the subject property. Costs may be moved between categories of eligible activities, provided that the total

^{**}The contingency is applied to the Subtotal, excepting those particular activities which have already been performed.

^{***}LBRF deposits will be made in accordance with Act 381 and with RHBRA policy.

^{****}Interest is calculated annually at 5% simple interest on unreimbursed eligible activities.

amount of incurred eligible activity costs requested for reimbursement does not exceed the total cap approved by the municipality. The actual cost of those eligible activities encompassed by this Brownfield Plan that will qualify for reimbursement from tax increment revenues of the Authority from the subject property shall be governed by the terms of a Reimbursement Agreement with the Authority (the "Reimbursement Agreement"). No costs of eligible activities will be qualified for reimbursement except to the extent permitted in accordance with the terms and conditions of the Reimbursement Agreement and/or the Development Agreement.

In accordance with this Brownfield Plan, and the associated Reimbursement Agreement, the amount advanced by the Developer will be repaid by the Authority solely from the tax increment revenues realized from the Eligible Property. It should be noted that the environmental costs for the project of \$9,619,587 represent an approximately 17% increase in the development costs. This increase far exceeds any reasonable construction contingency for the project. Moreover, these costs do not add any benefit to the lenders' loan to value considerations, and therefore are anticipated to be funded through equity, reducing (or eliminating) investors' returns on equity. In addition, the sub slab venting systems planned for the western parcel to address potential migration from offsite, and the capping and containment to remedy former illegal dumping on the eastern parcel are costs to address environmental issues that were not caused by the developers, and are outside the area of the developers' residential construction. Moreover, the eligible activities on the eastern parcel provide a significant, direct benefit to the City of Rochester Hills in its efforts to develop quality greenspace east of the subject property, as well as to the residents currently living immediately to the north. In general, the subject property is located within a larger area of former landfills that have resisted redevelopment for decades. This project represents a turning point and will be a model for other projects, providing a vital pathway and boon for the area.

Per its brownfield guidance, the City of Rochester Hills permits interest in extreme circumstances where there is a gap in financing. Due to the extreme circumstances associated with the cleanup of the former illegal landfill – including remediation activities on the adjacent largely vacant parcel separate from the new residential development, the projected amount to be reimbursed includes interest at the rate set at 5% simple interest, as permitted by the Act. The interest reimbursement is estimated at \$4,581,988. This amount is still insufficient to fully cover the financing gap created by the \$9,619,587 in projected environmental cost (since the lender for the project will not loan on), but it is necessary to make the project financeable. Since the senior lender will not finance the environmental cost, those costs must be covered with equity. Without interest reimbursement, the project cannot attract enough equity to complete those activities.

Payments will be made to the full extent incremental property tax revenues are or become available for such purpose under the Act. However, if the actual cost of eligible activities turns out to be lower than the above estimates, interest reimbursement may be lower, subject to the 5% simple interest calculation.

Tax increment revenues will first be used to pay or reimburse administrative expenses described in the table above. The amount of school tax revenues, which will be used to reimburse the costs of implementing eligible activities at this site, will be limited to the school tax portion of the cost of: (1) eligible activities approved by the MDEQ (as required); (2) assessment activities and brownfield and work plan preparation; and (3) the interest calculated as described above. If the use of school tax revenues to reimburse specific eligible activities is not approved by the MDEQ, these specific activities will be reimbursed with local-only TIR (to the extent available). Reimbursement of these activity costs would be limited to the local proportional share of local captured taxes.

2.4 Estimate of Captured Taxable Value and Tax Increment Revenues (Section 13(2)(c)); Impact of Tax Increment Financing On Taxing Jurisdictions (Section 13(2)(g), Section 2(ee))

This Brownfield Plan anticipates the capture of tax increment revenues to reimburse the Developer for the costs of eligible activities under this Brownfield Plan in accordance with the Reimbursement Agreement. A table of estimated tax increment revenues to be captured is attached to this Brownfield Plan as Attachment C, Table 2. Tax increment revenue capture is expected to begin in 2019.

All reimbursement will be in accordance with the Reimbursement Agreement and the Development Agreement.

The total estimated cost of the eligible activities and other costs (including administrative fees, contingency, interest, and LBRF deposits) to be reimbursed through the capture of tax increment revenue is projected to be \$18,692,816. Of this total, \$9,619,587 are eligible activities including contingency. This represents a 17% increase to the total development costs, which – excluding land and the eligible activities – exceed \$37 million.

The estimated effective initial taxable value for this Brownfield Plan is \$37,440 and is based on land and real property tax only. No personal property is currently on the subject property. Significant taxable personal property is not anticipated in the new development; however, to the extent that new taxable personal property generates tax increment revenue, the reimbursement period may be shortened. The initial taxable value of \$37,440 is set in 2017, the year in which the eligible property was included in this plan. Redevelopment of the subject property is expected to initially generate incremental taxable value in 2019 with the first significant increase in taxable value of approximately \$4,473,792 beginning in 2019. Only tax revenue from the incremental increase will go toward reimbursement; there will be no loss to taxing jurisdictions during the life of the Plan.

It is estimated that the Authority will capture the 2019 through 2042 tax increment revenues to reimburse the cost of the eligible activities, reimburse interest, State Brownfield Redevelopment Fund, LBRF and pay Authority administrative fees. An estimated schedule of tax increment revenue reimbursement is provided as Attachment C, Table 3.

The captured incremental taxable value and associated tax increment revenue will be based on the actual increased taxable value from all taxable improvements on the subject property and the actual millage rates levied by the various taxing jurisdictions during each year of the plan, as shown in Attachment C, Tables 2 and 3. The actual tax increment captured will be based on taxable value set through the property assessment process by the local unit of government and equalized by the County and the millage rates set each year by the taxing jurisdictions.

2.5 Impact on Taxing Jurisdictions (Section 13(2)(g)

Based on the current expectations, the Rochester Hills School District is projected to receive some \$2,537,713 toward bond repayment over the anticipated life of the Plan; the Zoo Authority, Art Institute, Ch 20 Drain Debt reduction fund and OPC Building debt retirement fund will all see significant payments as reflected on Table 2. Further, the Plan will provide some \$240,000 in fees to the Authority. Following completion of this Plan, the subject property is anticipated to provide over \$460,000 per year thereafter in local taxes and over \$560,000 per year in school and education taxes. Also, the project will employ and house tenants that will help stimulate the regional economy, providing further tax benefits.

The following table on the next page presents an estimation of the tax revenues generated on the subject property during the life of the Plan. Revenues are shown by taxing jurisdiction.

Impact to Taxing Jurisdictions

	Millage		Developer	ВГ	RA Admin	Sta	te Revolving			Taxing
School Capture	Rate	Rei	imbursement	Rein	nbursement		Fund	LBRF	Ju	risdiction
State Education Tax (SET)	6.0000	\$	1,954,856			\$	1,287,667	\$ 294,446	\$	5,391
School Operating Tax	18.0000	\$	5,864,569					\$ 883,397	\$	16,174
Local Capture										
OAK COUNTY PARKS	0.2392	\$	77,934	\$	2,931			\$ 21,806	\$	215
HURON-CLIN PARK	0.2146	\$	69,919	\$	2,629			\$ 19,563	\$	193
GENERAL FUND	2.1136	\$	688,631	\$	25,896			\$ 192,678	\$	1,899
LOCAL STREET I	0.3507	\$	114,261	\$	4,297			\$ 31,970	\$	315
LOCAL STREET II	0.4803	\$	156,486	\$	5,885			\$ 43,785	\$	432
LOCAL STREET III	0.2939	\$	95 <i>,</i> 755	\$	3,601			\$ 26,792	\$	264
FIRE FUND	2.7000	\$	879,685	\$	33,080			\$ 246,134	\$	2,426
SPECIAL POLICE I	1.1954	\$	389,473	\$	14,646			\$ 108,974	\$	1,074
SPECIAL POLICE II	1.5633	\$	509,338	\$	19,154			\$ 142,512	\$	1,405
PATHWAY	0.1837	\$	59,851	\$	2,251			\$ 16,746	\$	165
RARA OPERATING	0.1928	\$	62,816	\$	2,362			\$ 17,576	\$	173
OPC TRANSPORTION	0.0990	\$	32,255	\$	1,213			\$ 9,025	\$	89
OPC OPERATING	0.2377	\$	77,445	\$	2,912			\$ 21,669	\$	214
LIBRARY OPERATING	0.7739	\$	252,144	\$	9,482			\$ 70,549	\$	695
OAK COUNTY OPERATING	4.0400	\$	1,316,270	\$	49,498			\$ 368,290	\$	3,630
OAK INT SD-ALLOC	0.1985	\$	64,673	\$	2,432			\$ 18,095	\$	178
OAK INT SD-VTD	3.1413	\$	1,023,465	\$	38,487			\$ 286,364	\$	2,823
OAK COMM COLLEGE	1.5707	\$	511,749	\$	19,244			\$ 143,186	\$	1,411
TOTALS		\$	14,201,575	\$	240,000	\$	1,287,667	\$ 2,963,575	\$	39,167
Total Non-Capturable Taxes										
In addition, taxes levied by the follow	ing millage	es wi	ll not be captu	red ui	nder the Brov	vnfie	ld Plan,			
but instead will flow through to the p	roper tax ι	ınits	•							
ZOO AUTHORITY	0.0990	\$	42,582							
ART INSTITUTE	0.1981	\$	85,207							
CH 20 DRAIN DEBT	0.0417	\$	17,936							
OPC BUILDING DEBT	0.2345	\$	100,863							
ROCH SCH DEBT	5.9000	\$	2,537,713							

2.6 Plan of Financing (Section 13(2)(d)); Maximum Amount of Indebtedness (Section 13(2)(e))

Eligible activities are to be financed by the Developer. No bonds will be issued nor will other governmental funds be utilized. The Authority will reimburse the Developer for the cost of approved eligible activities, but only from tax increment revenues generated from the subject property as available, and subject to the Reimbursement Agreement.

All reimbursements authorized under this Brownfield Plan shall be governed by the Reimbursement Agreement. The Authority shall not incur any note or bonded indebtedness to finance the purposes of this Brownfield Plan. The inclusion of eligible activities and estimates of costs to be reimbursed in this Brownfield Plan is intended to: (1) authorize the Authority to fund such reimbursements; and (2) does not obligate the Authority to fund any reimbursement or to enter into the Reimbursement Agreement providing for the reimbursement of any costs for which tax increment revenues may be captured under this Brownfield Plan, or which are permitted to be reimbursed under this Brownfield Plan. The amount and source of any tax increment revenues that will be used for purposes authorized by this Brownfield Plan, and the terms and conditions for such use and upon any reimbursement of the expenses permitted by the Brownfield Plan, will be provided solely under the Reimbursement Agreement contemplated by this Brownfield Plan.

2.7 Duration of Brownfield Plan (Section 13(2)(f))

Current tax capture projections indicate the tax increment capture will continue for 22 years. In no event shall the duration of the Brownfield Plan exceed 35 years following the date of the resolution approving the Brownfield Plan, nor shall the duration of the tax capture exceed the lesser of the period authorized under subsection (4) and (5) of Section 13 of Act 381 or 30 years. Further, in no event shall the beginning date of the capture of tax increment revenues be later than five years after the date of the resolution approving the Brownfield Plan.

2.8 Effective Date of Inclusion in Brownfield Plan

The subject property will become a part of this Brownfield Plan on the date this Brownfield Plan is approved by the City of Rochester Hills. The date of tax capture is anticipated to commence the first year that tax increment revenue becomes available— but in no case shall the beginning date of tax capture shall exceed five years beyond the date of the governing body resolution approving the Brownfield Plan.

2.9 Displacement/Relocation of Individuals on Eligible Property (Section 13(2)(i-l))

There are no persons or businesses residing on the Eligible Property, and no occupied residences will be acquired or cleared; therefore, there will be no displacement or relocation of persons or businesses under this Brownfield Plan.

2.10 Local Brownfield Revolving Fund ("LBRF") (Section 8, Section 13(5))

The Authority has established a Local Brownfield Revolving Fund (LBRF). The Authority will capture incremental local and state school taxes to fund the LBRF, to the extent allowed by law. The rate and schedule of incremental tax capture for the LBRF will be determined on a case-by-case basis. Considerations may include, but not be limited to the following: total capture duration, total annual capture, project economic factors, level of existing LBRF funding, projected need for LBRF funds, and amount of school tax capture available in accordance with Act 381.

The amount of tax increment revenue authorized for capture and deposit in the LBRF is estimated at \$2,963,575.

2.11 Other Information

The tax capture breakdown of tax increment revenues anticipated to become available for use in this Brownfield Plan is summarized below.

There are 43.6335 non-homestead mills available for capture, with school millage equaling 24.0000 mills (55%) and local millage equaling 19.6335 mills (45%). None of the project will include homestead residential property, with those properties including the State Education Tax and local ISD taxes. The requested tax capture for MDEQ eligible activities breaks down as follows:

Tax Capture

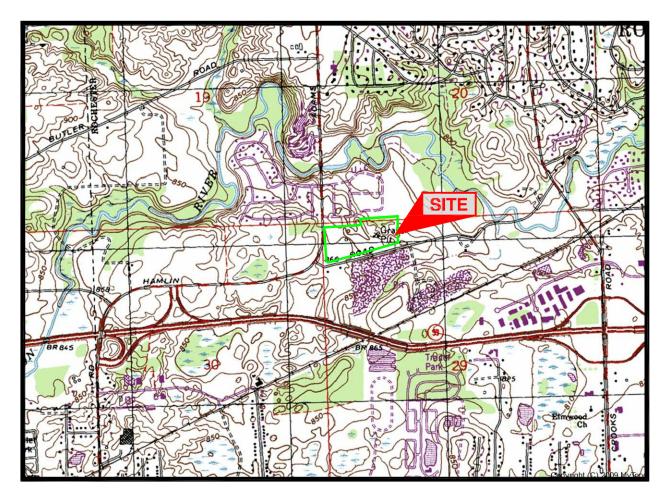
State to Local Tax Capture	Eligible Activities, Interest, Contingency
MDEQ School tax capture (55%)	\$7,819,425
MDEQ Local tax capture (45%)	\$6,382,150
Local-Only tax capture	\$0
Total	\$14,201,575



Attachment A Site Maps

ROCHESTER QUADRANGLE

MICHIGAN - OAKLAND COUNTY
7.5 MINUTE SERIES (TOPOGRAPHIC)



T.3 N.-R.11 E.

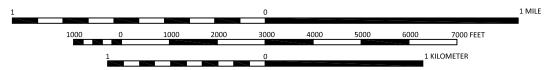


IMAGE TAKEN FROM 1997 U.S.G.S. TOPOGRAPHIC MAP





www.aktpeerless.com

SCALED PROPERTY LOCATION MAP

PARCEL 15-29-101-022 AND 15-29-101-023 NE CORNER OF HAMLIN & ADAMS ROADS ROCHESTER HILLS, MICHIGAN PROJECT NUMBER: 3679F6-5-25 DRAWN BY: ARR
DATE: 06/02/2017

FIGURE 1

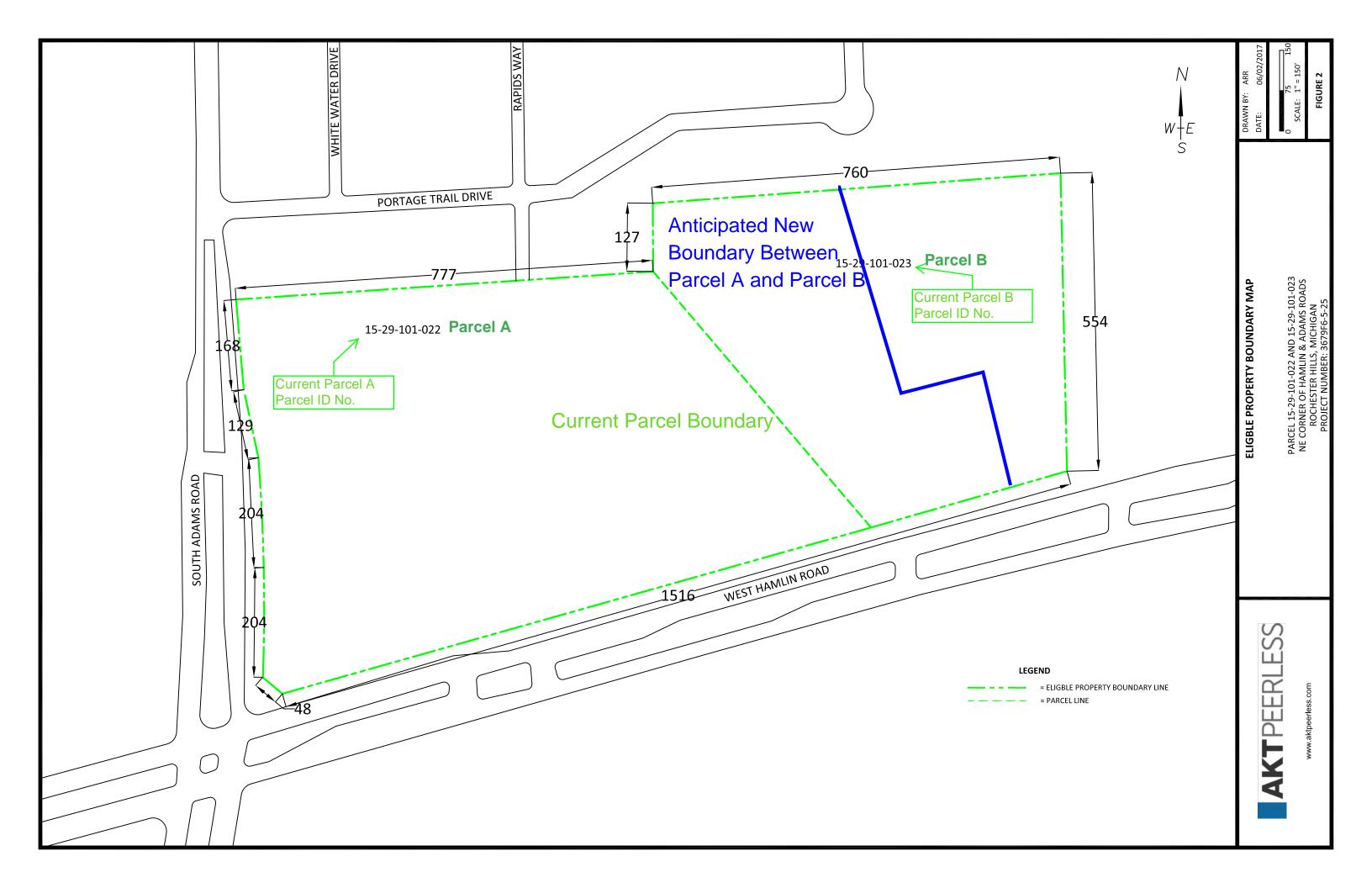


Figure 3. Map Showing Proposed New Parcel Boundaries

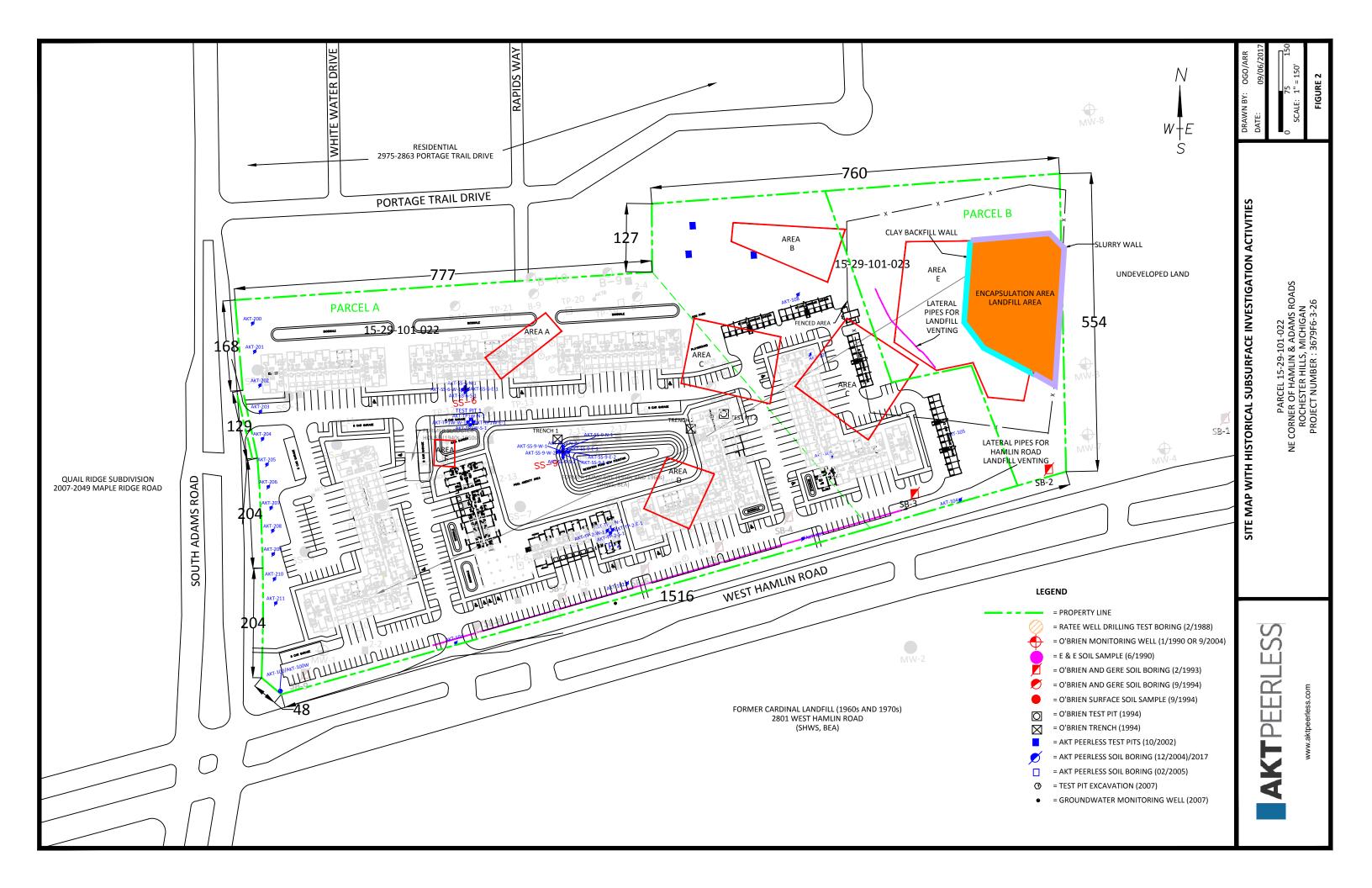
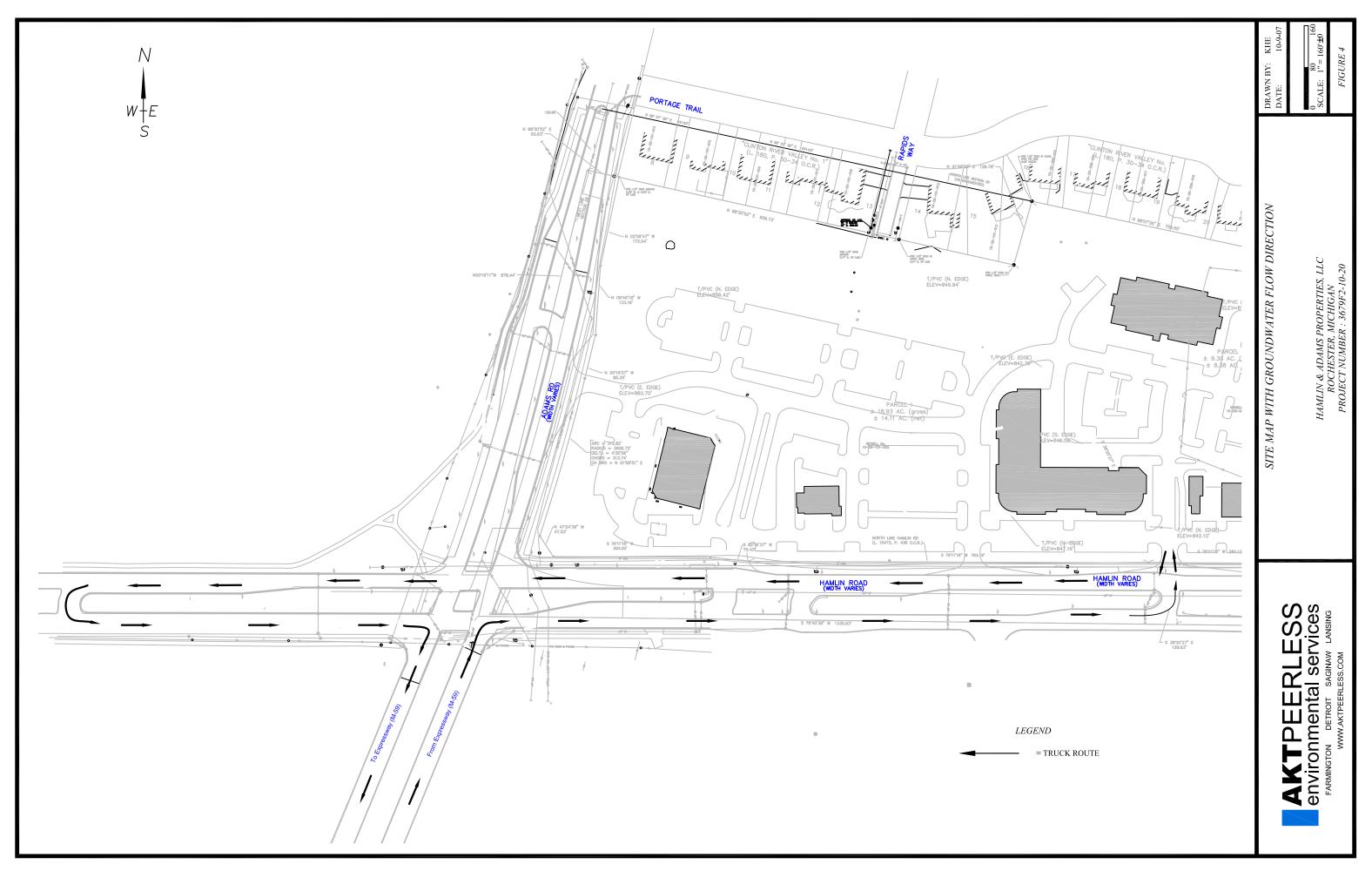


Figure 4. Proposed Truck Route Map



Attachment B
Legal Description(s)

Legal Descriptions:

Parcel ID: 70-15-29-101-022

Legal Information: T3N, R11E, SEC 29 PART OF W 1/2 OF NW 1/4 BEG AT PT DISTS 00-33-37 E 120.85 FT FROM NW SEC COR, TH N 88-30-46 E 836.53 FT, TH S 38-06-17 E 750.59 FT, TH S 76-30-50 W 1327.14 FT, TH N 00-33-37 W 878.45 FT TO BEG 18.80 A 1-24-00 FR 002

Parcel ID: 70-15-29-101-023

Legal Information: T3N, R11E, SEC 29 PART OF W 1/2 OF NW 1/4 BEG AT PT DIST N 88-07-26 E 841.94 FT FROM NW SEC COR, TH N 88-07-26 E 759 FT, TH S 01-26-07 W 674.52 FT, TH S 76-30-50 W 291 FT, TH N 38-06-17 W 750.59 FT, TH N 01-50-10 E 126.65 FT TO BEG 9.20A 01-24-00 FR 002

Attachment C Tables

Table 1. Eligible Activities

ELIGIBLE ACTIVITIES COST SUMMARY					
					Estimated
					Cost of
				Eli	gible Activity
Department Specific Activities				\$	8,328,415
15	% Continge	ncy on Eligi	ble Activities	\$	1,246,172
Brownfield Plan & Act 381 WP Preparation Activities				\$	45,000
Total Eligible Activiti	ies Cost w	ith 15% C	Contingency	\$	9,619,587
	Interest (d	calculated a	t 5%, simple)	\$	4,581,988
Total Eligible Activities Cost,	, with Cor	ntingency	& Interest	\$	14,201,575
BRA Administration Fee				\$	240,000
State Revolving Fund				\$	1,287,667
Local Brownfield Revolving Fund (LBRF)				\$	2,963,575
Total Elig	gible Cost	s for Rein	bursement	\$	18,692,816

ELIGIBLE ACTIVITIES COST DETAIL					
	# of Units	Unit Type	Cost/ Unit	E	st. Total Cost
Department Specific Activities			Cinc		
Phase I	2	LS	\$ 2,800	\$	5,600
BEA	2	LS	\$ 7,500	\$	15,000
Supplemental Subsurface Investigation	1	LS	\$ 120,000	\$	120,000
Environmental Construction Managemnt Plan	1	LS	\$ 20,000	\$	20,000
Project Management, Adminsitration, and Consulting Support	1	LS	\$ 25,000	\$	25,000
HASP	1	LS	\$ 2,000	\$	2,000
Parcel A - Area A Soil/Waste Removal					
Area A Excavation, Transportation & Disposal	1,630	YD	\$ 45	\$	73,333
Area A Backfill	1,630	YD	\$ 17	\$	27,704
Area A Laboratory Costs and Verification Sampling	1	LS	\$ 6,000	\$	6,000
Area A Environmental Management/Oversight	1	LS	\$ 7,500	\$	7,500
Parcel A - Area B Soil/Waste Removal					
Area B Excavation, Transportation & Disposal	3,556	YD	\$ 45	\$	160,000
Area B Backfill	3,556	YD	\$ 17	\$	60,444
Area B LaboratorY Costs and Verification Sampling	1	LS	\$ 10,000	\$	10,000
Area B Environmental Management/Oversight	1	LS	\$ 14,000	\$	14,000
Parcel A - Area C1 Soil/Waste Removal					
Area C1 Excavation, Transportation & Disposal	7,741	YD	\$ 45	\$	348,333
Area C1 Backfill	7,741	YD	\$ 17	\$	131,593
Area C1 Laboratory Costs and Verification Sampling	1	LS	\$ 11,500	\$	11,500
Area C2 Environmental Management/Oversight	1	LS	\$ 15,000	\$	15,000
Parcel A - Area C2 Soil/Waste Removal					
Area C2 Excavation, Transportation & Disposal	23,333	YD	\$ 45	\$	1,050,000
Area C2 Backfill	23,333	YD	\$ 17	\$	396,667
Area C2 Laboratory Costs and Verification Sampling	1	LS	\$ 15,000	\$	15,000
Area C2 Environmental Management/Oversight	1	LS	\$ 12,000	\$	12,000
Parcel A - Area D Soil/Waste Removal					
Area D Excavation, Transportation & Disposal	6,667	YD	\$ 45	\$	300,000
Area D Backfill	6,667	YD	\$ 17	\$	113,333
Area D Laboratory Costs and Verification Sampling	1	LS	\$ 6,500	\$	6,500
Area D Environmental Management/Oversight	1	LS	\$ 8,000	\$	8,000



Table 1. Eligible Activities

Parcel A - Area F Soil/Waste Removal					
Area F Excavation, Transportation & Disposal	741	YD	\$	45	\$ 33,333
Area F Backfill	741	YD	\$	17	\$ 12,593
Area F Laboratory Costs and Verification Sampling	1	LS	\$	3,500	\$ 3,500
Area F Environmental Management/Oversight	1	LS	\$	5,000	\$ 5,000
Smaller Hot Spot Removal (Southwestern Area)	1	LS	\$	100,000	\$ 100,000
Sub-slab venting system - all new construction	162,000	SF	\$	4	\$ 648,000
Parcel B - Area E Soil/Waste Removal					
Area E Excavation, Transportation & Disposal	23,185	YD	\$	45	\$ 1,043,333
Area E Backfill	23,185	YD	\$	17	\$ 394,148
Area E Laboratory Costs and Verification Sampling	1	LS	\$	15,000	\$ 15,000
Area E Environmental Management/Oversight	1	LS	\$	12,000	\$ 12,000
Parcel B - Removal and Disposal of PCB Impacted Soils	1	LS	\$	232,000	\$ 232,000
O&M Plan - Parcel B	1	LS	\$	900,000	\$ 900,000
Import Clean Fill for Land Balancing	40,000	CY	\$	17	\$ 680,000
Installation Hydraulic Barrier (i.e. slurry wall)	1	LS	\$	150,000	\$ 150,000
Installation of Liner and Cap over former landfill	1	LS	\$	120,000	\$ 120,000
Installation of Passive Methane Venting System (former "landfill" area)	1	LS	\$	190,000	\$ 190,000
Operation and Maintenance Plan - Subfloor Methane Mitigation Systems, S	1	LS	\$	255,000	\$ 255,000
Passive Methane Venting System along Hamlin Road	1	LS	\$	260,000	\$ 260,000
O&M Plan - Passive Methane Venting System along Hamlin Road	1	LS	\$	150,000	\$ 150,000
Temporary Site Control & Erosion Control	1	LS	\$	50,000	\$ 50,000
Dewatering	1	LS	\$	75,000	\$ 75,000
Closeout Reporting (East Parcel) & Documentation of Due Care Compliance	1	LS	\$	15,000	\$ 15,000
NFA Due Care Plan	1	LS	\$	30,000	\$ 30,000
			Sul	btotal	\$ 8,328,415
Brownfield Plan & Act 381 Work Plan Preparation					
BRA Application Fee and Administration Fee					\$ -
Brownfield Plan	1	LS	\$	10,000	\$ 10,000
Act 381 Work Plan	1	LS	\$	15,000	\$ 15,000
Cost Tracking & Compliance	1	LS	\$	20,000	\$ 20,000
			Sul	btotal	\$ 45,000



Table 2. Tax Increment Revenue Estimates

			24			As of Novemi		3, 2017												
	Estimated I	V Increase rate: 1.0		2		2		4				6		7		0		0		10
		Plan Year	1	2		3		4		5		6		7		8		9		10
		Calendar Year	2019	2020	۲	2021	Ļ	2022	Ļ	2023	۲	2024	۲	2025	ç	2026	۲	2027	۲	2028
Past Day TV/200/ of Project Investment)		Taxable Value \$	37,440			37,440	•	37,440	-	37,440	-	37,440	-	37,440		37,440		37,440	•	37,440
Post-Dev TV (30% of Project Investment)		mated New TV \$ TV - Initial TV) \$		\$ 10,526,208 \$ 10,488,768																
	ierence (ivew	-	4,473,732	3 10,466,706	Ą	13,000,000	Ą	13,313,780	Ą	13,036,204	Ą	13,307,333	Ą	10,303,434	Ą	10,040,034	Ą	10,557,020	Ą	17,334,743
School Capture	Millage Rate																			
State Education Tax (SET)	6.0000	Initial \$	225					225		225		225		225		225		225		225
		Incremental \$	26,843	. ,		90,000	_	91,895		93,829		95,804	-	97,821	_	99,880		101,982		104,128
School Operating Tax	18.0000	Initial \$	674					674		674				674		674		674		674
School Total	24.0000	Incremental \$	80,528	\$ 188,798	<u> </u>	270,000	>	275,684	>	281,488	>	287,413	>	293,463	\$	299,640	\$	305,946	\$	312,385
School rotal	24.0000	_																		
<u>Local Capture</u>	Millage Rate	2																		
OAK COUNTY PARKS		Initial \$	9		\$			9		9		9		9		9		9		9
	0.2392	Incremental \$	1,070			3,588		3,664		3,741		3,819		3,900		3,982		4,066		4,151
HURON-CLIN PARK	0.0446	Initial \$	8					8		8				8		8		8		8
	0.2146	Incremental \$	960 79		_	3,219 79		3,287		3,356		3,427		3,499	_	3,572 79		3,648		3,724
GENERAL FUND	2.1136	Initial \$ Incremental \$	9,456	•		31,704		79 32,371		33,053		33,749		79 34,459		35,184		79 35,925		79 36,681
	2.1130	Initial \$	13					13		13	_			13	_	13		13		13
LOCAL STREET I	0.3507	Incremental \$	1,569			5,261		5,371		5,484		5,600		5,718		5,838		5,961		6,086
	0.3307	Initial \$	18			,	_	18		18		18		18	_	18		18		18
LOCAL STREET II	0.4803	Incremental \$	2,149			7,205		7,356		7,511		7,669		7,831		7,995		8,164		8,335
		Initial \$	11					11		11	_	11		11	_	11		11		11
LOCAL STREET III	0.2939	Incremental \$	1,315	\$ 3,083	\$	4,409	\$	4,501	\$	4,596	\$	4,693	\$	4,792	\$	4,892	\$	4,995	\$	5,101
FIDE FLIND		Initial \$	101	\$ 101	\$	101	\$	101	\$	101	\$	101	\$	101	\$	101	\$	101	\$	101
FIRE FUND	2.7000	Incremental \$	12,079	\$ 28,320	\$	40,500	\$	41,353	\$	42,223	\$	43,112	\$	44,019	\$	44,946	\$	45,892	\$	46,858
SPECIAL POLICE I		Initial \$	45					45		45		45		45		45		45		45
51 261/12 T GERGE T	1.1954	Incremental \$	5,348		_	17,931		18,308	_	18,694		19,087	-	19,489		19,899		20,318		20,746
SPECIAL POLICE II		Initial \$	59					59		59		59		59		59		59		59
	1.5633	Incremental \$	6,994			23,450		23,943		24,447		24,962		25,487		26,024		26,571		27,131
PATHWAY	0.4027	Initial \$	7					7		7		7		7		7		7		7
	0.1837	Incremental \$	822		_	2,756	_	2,814	_	2,873	_	2,933	_	2,995	_	3,058		3,122		3,188
RARA OPERATING	0.1928	Initial \$ Incremental \$	863			2,892		7 2,953		3,015	_	3,079		3,143		3,209		7 3,277		7 3,346
	0.1326	Initial \$	4	•	\$			<u> </u>		4	_	4				4		4		3,340
OPC TRANSPORTION	0.0990	Incremental \$	443			1,485		1,516		1,548	_	1,581	_	1,614		1,648		1,683		1,718
		Initial \$	9		\$	9	÷	9		9	_	9	-	9	-	9		9		9
OPC OPERATING	0.2377	Incremental \$	1,063	\$ 2,493	\$	3,566	\$	3,641		3,717		3,795	\$	3,875	\$	3,957	\$	4,040	\$	4,125
LIBRARY OPERATING		Initial \$	29	\$ 29	\$	29	\$	29	\$	29	\$	29	\$	29	\$	29	\$	29	\$	29
LIBRARY OPERATING	0.7739	Incremental \$	3,462	\$ 8,117	\$	11,609	\$	11,853	\$	12,102	\$	12,357	\$	12,617	\$	12,883	\$	13,154	\$	13,431
OAK COUNTY OPERATING		Initial \$	151					151		151				151		151		151		151
	4.0400	Incremental \$	18,074			60,600		61,876		63,178		64,508		65,866		67,252		68,668		70,113
OAK INT SD-ALLOC		Initial \$	7		\$			7		7				7		7		7		7
	0.1985	Incremental \$	888			2,978		3,040		3,104		3,170	-	3,236		3,304		3,374		3,445
OAK INT SD-VTD	2 4 4 4 2	Initial \$	118					118		118				118		118		118		118
	3.1413	Incremental \$	14,054			47,120 59		48,111 59		49,124 59		50,158		51,214 59		52,292 59		53,393 59		54,516 59
OAK COMM COLLEGE	1.5707	Initial \$ Incremental \$	59 7,027			23,561		24,057		24,563		25,080		25,608		26,147		26,697		27,259
Local Total		micremental 3	7,027	7 10,473	ڔ	23,301	Y	24,037	۲	24,303	ڔ	23,000	٧	23,000	٧	20,147	٧	20,037	Y	21,233
Non-Capturable Millages	Millage Rate				,		_					_ = = :	4		. ـ		_		_	
ZOO AUTHORITY	0.0990	New TV \$	447			1,489	•	1,520	-	1,552		1,584		1,618		1,652		1,686	•	1,722
ART INSTITUTE	0.1981	New TV \$	894			2,979	•	3,041		3,105		3,171	-	3,237		3,305		3,375		3,445
CH 20 DRAIN DEBT	0.0417	New TV \$	188	•		627	•	640		654		667		681		696		710	•	725 4.078
OPC BUILDING DEBT ROCH SCH DEBT	0.2345 5.9000	New TV \$ New TV \$	1,058 26,616			3,526 88,721		3,600 90,584		3,676 92,486		3,753 94,429		3,832 96,412		3,912 98,436		3,995 100,503		4,078 102,614
NOCH JCH DEDI	3.9000	ivew iv \$	20,010	φ 02,105	Ş	00,721	Ą	50,564	ڔ	72,400	ې	54,425	ڔ	50,412	ې	70,430	ې	100,505	ب	102,014



Table 2. Tax Increment Revenue Estimates

	Estimated T	V Increase rate:					,									
		Plan Year	11	12	13	14	15	16	17	18	19	20	21	22	23	24
		Calendar Year	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042
	Initial	Taxable Value \$											\$ 37,440			
Post-Dev TV (30% of Project Investme		mated New TV \$,				: '							\$ 22,318,397	. ,	
· ·	· 	TV - Initial TV) \$. , ,			· · · ·		\$ 20,500,649		,	. , ,	\$ 22,280,957		
School Capture	Millage Rat	e														
		Initial \$	225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225	\$ 225 5	\$ 225	\$ 225
State Education Tax (SET)	6.0000	Incremental \$		\$ 108,557	\$ 110,842	\$ 113,174			\$ 120,469				\$ 130,931	\$ 133,686	\$ 136,498	\$ 139,369
School Operating Tax	18.0000	Initial \$	674 318,960	•	•	•		\$ 674	•	•			•			
School To	otal 24.0000	Incremental \$	318,900	\$ 525,672	\$ 332,525	\$ 559,522	\$ 346,666	\$ 353,961	\$ 361,408	\$ 309,012	۶ 3/0,//5	Ş 304,7UZ	3 392,794	\$ 401,057	409,494	\$ 410,107
Local Capture	Millage Rat	e														
OAK COUNTY PARKS		Initial \$	9		•				•					\$ 9 5		
	0.2392	Incremental \$,					•	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·					•	
HURON-CLIN PARK	0.2446	Initial \$			•					•				\$ 8 5		
	0.2146	Incremental \$	3,803 79									. ,			•	
GENERAL FUND	2.1136	Initial \$ Incremental \$						\$ 41,563								
	2.1130	Initial \$. ,				
LOCAL STREET I	0.3507	Incremental \$							•	•	•		•			
		Initial \$	18	, ,												
LOCAL STREET II	0.4803	Incremental \$				\$ 9,060	\$ 9,250	\$ 9,445	\$ 9,644	\$ 9,846	\$ 10,054	\$ 10,265	\$ 10,481			
LOCAL CERET III		Initial \$	11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11	\$ 11 5	\$ 11	\$ 11
LOCAL STREET III	0.2939	Incremental \$	5,208	\$ 5,317	\$ 5,429	\$ 5,544	\$ 5,660	\$ 5,779	\$ 5,901	\$ 6,025	\$ 6,152	\$ 6,281	\$ 6,413	\$ 6,548	\$ 6,686	\$ 6,827
FIRE FUND		Initial \$	101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101	\$ 101 5	\$ 101	\$ 101
	2.7000	Incremental \$	47,844					\$ 53,094				. ,			•	
SPECIAL POLICE I	4.4054	Initial \$							•	•			•			
	1.1954	Incremental \$. ,			•	, ,
SPECIAL POLICE II	1.5633	Initial \$	59 27,702			•		\$ 59 \$ 30,741	•	'			•			
	1.5055	Initial \$												\$ 7 9		
PATHWAY	0.1837	Incremental \$		•		•			•	•	•		•			
	0.1007	Initial \$	· · · · · · · · · · · · · · · · · · ·											\$ 7 5	•	
RARA OPERATING	0.1928	Incremental \$	3,416	\$ 3,488	\$ 3,562	\$ 3,637	\$ 3,713	\$ 3,791	\$ 3,871	\$ 3,953	\$ 4,036	\$ 4,121	\$ 4,207	\$ 4,296	\$ 4,386	\$ 4,478
ODC TRANSPORTION		Initial \$			\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4	\$ 4 5		
OPC TRANSPORTION	0.0990	Incremental \$	1,754	\$ 1,791	\$ 1,829	\$ 1,867	\$ 1,907	\$ 1,947	\$ 1,988	\$ 2,030	\$ 2,072	\$ 2,116	\$ 2,160	\$ 2,206	\$ 2,252	\$ 2,300
OPC OPERATING		Initial \$	9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9	\$ 9 5	\$ 9	\$ 9
	0.2377	Incremental \$			<u> </u>								\$ 5,187			
LIBRARY OPERATING		Initial \$	29													
	0.7739	Incremental \$, ,
OAK COUNTY OPERATING	4.0400	Initial \$														
	4.0400	Incremental \$														
OAK INT SD-ALLOC	0.1985	Incremental \$							•	•			•			
OAK INT CD VTD		Initial \$	118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118	\$ 118 5	\$ 118	\$ 118
OAK INT SD-VTD	3.1413	Incremental \$	55,664	\$ 56,835	\$ 58,031	\$ 59,252	\$ 60,499	\$ 61,772	\$ 63,072	\$ 64,399	\$ 65,754	\$ 67,137	\$ 68,549	\$ 69,991	\$ 71,463	\$ 72,967
OAK COMM COLLEGE		Initial \$	59													
	1.5707	Incremental \$	27,833	\$ 28,418	\$ 29,017	\$ 29,627	\$ 30,251	\$ 30,887	\$ 31,537	\$ 32,200	\$ 32,878	\$ 33,569	\$ 34,276	\$ 34,997	\$ 35,733	\$ 36,484
Local To	otal 19.5886															
Non-Capturable Millages	Millage Rat															
ZOO AUTHORITY	0.0990	New TV \$	•												•	
ART INSTITUTE	0.1981	New TV \$	•													
CH 20 DRAIN DEBT	0.0417	New TV \$				•				="	•	·=	•	·		•
OPC BUILDING DEBT	0.2345	New TV \$, -												•	
ROCH SCH DEBT	5.9000	New TV \$	104,769	\$ 106,969	\$ 109,215	\$ 111,509	\$ 113,850	\$ 116,241	\$ 118,682	\$ 121,175	\$ 123,719	\$ 126,318	\$ 128,970	\$ 131,679	\$ 134,444	\$ 137,267



Table 3. Reimbursement Allocation Schedule

Legacy Rochester Hills Rochester Hills, MI AKT Peerless Project No. 3679F6 As of November 9, 2017

Developer Maximum Reimbursement	Proportionality	Sc	hool & Local Taxes	Local-Only Taxes	Total
State	55.1%	\$	7,819,425		\$ 7,819,425
Local	44.9%	\$	6,382,150	\$ -	\$ 6,382,150
TOTAL		\$	14,201,575	\$ -	\$ 14,201,575
MDEQ	100.0%	\$	14,201,575		
MSF	0.0%	\$	-		

Estimated Total Years of 24 Plan:

Total State Incremental Revenue \$ 107,371 \$ 251,730 \$ 360,000 \$ 367,579 \$ 375,317 \$ 383,217 \$ 391,284 \$ 399,520 \$ 407,928 \$ State Brownfield Revolving Fund (3 mills of SET) \$ 13,421 \$ 31,466 \$ 45,000 \$ 45,947 \$ 46,915 \$ 47,902 \$ 48,910 \$ 49,940 \$ 50,991 \$ Local Brownfield Revolving Fund (3% of capture) \$ 3,221 \$ 7,552 \$ 10,800 \$ 11,027 \$ 11,260 \$ 11,497 \$ 11,739 \$ 11,986 \$ 12,238 \$ State TIR Available for Reimbursement \$ 90,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ Total Local Incremental Revenue \$ 87,635 \$ 205,460 \$ 293,829 \$ 300,015 \$ 306,331 \$ 312,779 \$ 319,363 \$ 326,085 \$ 332,948 \$ BRA Administrative Fee \$ 10,000 \$																					
State Brownfield Revolving Fund (3 milks of Start) \$ 13,421 \$ 31,466 \$ 45,000 \$ 45,947 \$ 4,6915 \$ 34,7902 \$ 8,8910 \$ 49,400 \$ 50,991 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$			Plan Year		1		2	3		4		5		6	7		8		9	البا	10
State TIR Available for Reimbursement \$ 9,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$				\$	107,371	\$		360,000	\$,	•	383,217	\$,	•	407,928	\$	416,514
State Tick Available for Reimbursement \$ 9,0729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$				\$,	•	•	 ,		•		•		47,902	\$ •		•		•		52,064
Total Local Incremental Revenue	Local Brownfield Revolving Fund (3% of captu	ure)		\$	3,221	\$	7,552	\$ 10,800	\$	11,027	\$	11,260	\$	11,497	\$ 11,739	\$	11,986	\$	12,238	\$	12,495
BRA Administrative Fee	State TIR Available for Reimbursement			\$	90,729	\$	212,712	\$ 304,200	\$	310,604	\$	317,143	\$	323,819	\$ 330,635	\$	337,594	\$	344,700	\$	351,954
Segment Segm	Total Local Incremental Revenue			\$	87,635	\$	205,460	\$ 293,829	\$	300,015	\$	306,331	\$	312,779	\$ 319,363	\$	326,085	\$	332,948	\$	339,955
Total State & Local TIR Available S	BRA Administrative Fee			\$	10,000	\$	10,000	\$ 10,000	\$	10,000	\$	10,000	\$	10,000	\$ 10,000	\$	10,000	\$	10,000	\$	10,000
Developer Beginning Balance State Beginning Balance Beginning Balance Beginning Balance Beginning Balance Beginning Balance	Local Brownfield Revolving Fund (3% of captu	ure)		\$	2,629	\$	6,164	\$ 8,815	\$	9,000	\$	9,190	\$	9,383	\$ 9,581	\$	9,783	\$	9,988	\$	10,199
DEVELOPER Beginning Balance State St	Local TIR Available for Reimbursement			\$	75,006	\$	189,296	\$ 275,014	\$	281,014	\$	287,141	\$	293,395	\$ 299,782	\$	306,302	\$	312,959	\$	319,756
DEVELOPER Balance DEVELOPER Reimbursement Balance S 14,201,575 S 14,035,840 S 13,633,831 S 13,054,617 S 12,462,998 S 11,858,715 S 11,241,501 S 10,611,084 S 9,967,188 S 9,309,529 S	Total State & Local TIR Available			\$	165,735	\$	402,009	\$ 579,214	\$	591,619	\$	604,283	\$	617,214	\$ 630,417	\$	643,896	\$	657,659	\$	671,711
STATE Reimbursement Balance \$ 14,201,575 \$ 14,035,840 \$ 13,633,831 \$ 13,054,617 \$ 12,462,998 \$ 11,858,715 \$ 11,241,501 \$ 10,611,084 \$ 9,967,188 \$ 9,309,529 \$ \$ \$ \$ \$ \$ \$ \$ \$																					
STATE Reimbursement Balance S 7,819,425 S 7,728,697 S 7,515,984 S 7,211,784 S 6,901,180 S 6,584,037 S 6,260,219 S 5,929,584 S 5,591,990 S 5,247,290 S Eligible Activities Reimbursement S 5,296,570 S 90,729 S 212,712 S 304,200 S 310,604 S 317,143 S 323,819 S 330,635 S 337,594 S 344,700 S 10,000	_																				
Eligible Activities Reimbursement \$ 5,296,570 \$ 90,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ Environmental Eligible Activities \$ 5,296,570 \$ 90,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ intreest Reimbursement \$ 2,522,855 \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ - \$ \$ \$ \$ \$	DEVELOPER Reimbursement Balance	\$	14,201,575	\$	14,035,840	\$	13,633,831	\$ 13,054,617	\$	12,462,998	\$	11,858,715	\$	11,241,501	\$ 10,611,084	\$	9,967,188	\$	9,309,529	\$	8,637,818
Eligible Activities Reimbursement \$ 5,296,570 \$ 90,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ Environmental Eligible Activities \$ 5,296,570 \$ 90,729 \$ 212,712 \$ 304,200 \$ 310,604 \$ 317,143 \$ 323,819 \$ 330,635 \$ 337,594 \$ 344,700 \$ \$ intreest Reimbursement \$ 2,252,855 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	STATE Reimbursement Balance	\$	7,819,425	\$	7,728,697	\$	7,515,984	\$ 7,211,784	\$	6,901,180	\$	6,584,037	\$	6,260,219	\$ 5,929,584	\$	5,591,990	\$	5,247,290	\$	4,895,336
Interest Reimbursement	Eligible Activities Reimbursement	\$	5,296,570	\$	90,729	\$	212,712	\$	\$	310,604	\$	317,143	\$	323,819	\$ 330,635	\$	337,594	\$	344,700	\$	351,954
Interest Reimbursement	Environmental Eligible Activities	\$	5,296,570	\$	90,729	\$	212,712	\$ 304,200	\$	310,604	\$	317,143	\$	323,819	\$ 330,635	\$	337,594	\$	344,700	\$	351,954
Total STATE TIR Reimbursement	Interest Reimbursement	\$			- -	\$	- -	- -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	- -	\$	-
LOCAL Reimbursement Bolance	Environmental Portion	\$	2,522,855	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
Eligible Activities Reimbursement \$ 4,323,017 \$ 75,006 \$ 189,296 \$ 275,014 \$ 281,014 \$ 287,141 \$ 293,395 \$ 299,782 \$ 306,302 \$ 312,959 \$ Environmental Eligible Activities \$ 4,323,017 \$ 75,006 \$ 189,296 \$ 275,014 \$ 281,014 \$ 287,141 \$ 293,395 \$ 299,782 \$ 306,302 \$ 312,959 \$ Interest Reimbursement \$ 2,059,133 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$	Total STATE TIR Reimbursement			\$	90,729	\$	212,712	\$ 304,200	\$	310,604	\$	317,143	\$	323,819	\$ 330,635	\$	337,594	\$	344,700	\$	351,954
Environmental Eligible Activities \$ 4,323,017 \$ 75,006 \$ 189,296 \$ 275,014 \$ 281,014 \$ 287,141 \$ 293,395 \$ 299,782 \$ 306,302 \$ 312,959 \$ Interest Reimbursement \$ 2,059,133 \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$ - \$		\$		_			<u> </u>	 							\$ 						3,742,483
Interest Reimbursement	Eligible Activities Reimbursement	\$			· · · · · · · · · · · · · · · · · · ·		189,296	\$ 275,014	\$	281,014	\$	287,141	\$	293,395	\$ 299,782	\$	306,302	\$	312,959	\$	319,756
Environmental Portion	Environmental Eligible Activities	\$			75,006	\$	189,296	\$ 275,014	\$	281,014	\$	287,141	\$	293,395	\$ 299,782	\$	306,302	\$	312,959	\$	319,756
Total LOCAL TIR Reimbursement \$ 75,006 \$ 189,296 \$ 275,014 \$ 281,014 \$ 287,141 \$ 293,395 \$ 299,782 \$ 306,302 \$ 312,959 \$ Total Annual Developer Reimbursement \$ 165,735 \$ 402,009 \$ 579,214 \$ 591,619 \$ 604,283 \$ 617,214 \$ 630,417 \$ 643,896 \$ 657,659 \$ LOCAL BROWNFIELD REVOLVING FUND LSRRF Year 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Interest Reimbursement	\$	2,059,133	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
Total Annual Developer Reimbursement \$ 165,735 \$ 402,009 \$ 579,214 \$ 591,619 \$ 604,283 \$ 617,214 \$ 630,417 \$ 643,896 \$ 657,659 \$ LOCAL BROWNFIELD REVOLVING FUND LSRRF Year 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		\$	2,059,133	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-	\$ -	\$	-	\$	-	\$	-
LOCAL BROWNFIELD REVOLVING FUND LSRRF Year 0	Total LOCAL TIR Reimbursement			\$	75,006	\$	189,296	\$ 275,014	\$	281,014	\$	287,141	\$	293,395	\$ 299,782	\$	306,302	\$	312,959	\$	319,756
FUND LSRRF Year 0 0 0 0 0 0 0 0 0	Total Annual Developer Reimbursement			\$	165,735	\$	402,009	\$ 579,214	\$	591,619	\$	604,283	\$	617,214	\$ 630,417	\$	643,896	\$	657,659	\$	671,711
FUND LSRRF Year 0 0 0 0 0 0 0 0 0	LOCAL BROWNFIELD REVOLVING	-																			
LBRF Deposits \$ 5,850 \$ 13,716 \$ 19,615 \$ 20,028 \$ 20,449 \$ 20,880 \$ 21,319 \$ 21,768 \$ 22,226 \$ STATE \$ 7,819,425 \$ 3,221 \$ 7,552 \$ 10,800 \$ 11,027 \$ 11,260 \$ 11,497 \$ 11,739 \$ 11,739 \$ 11,986 \$ 12,238 \$																					
STATE \$ 7,819,425 \$ 3,221 \$ 7,552 \$ 10,800 \$ 11,027 \$ 11,497 \$ 11,739 \$ 11,986 \$ 12,238 \$			LSRRF Year		0			Ü		Ü		Ü		0			Ü		Ü		0
				т —				-	-		_		_			_			-		22,694
LOCAL no maximum \$ 2,629 \$ 6,164 \$ 8,815 \$ 9,000 \$ 9,190 \$ 9,383 \$ 9,581 \$ 9,783 \$ 9,988 \$		\$	7,819,425	\$	•		7,552	\$ •	-	•		•		•	•		•				12,495
	LOCAL	n	o maximum	\$	2,629	\$	6,164	\$ 8,815	\$	9,000	\$	9,190	\$	9,383	\$ 9,581	\$	9,783	\$	9,988	\$	10,199



Table 3. Reimbursement Allocation Schedule

Legacy Rochester Hills Rochester Hills, MI AKT Peerless Project No. 3679F6 As of November 9, 2017

End Plan

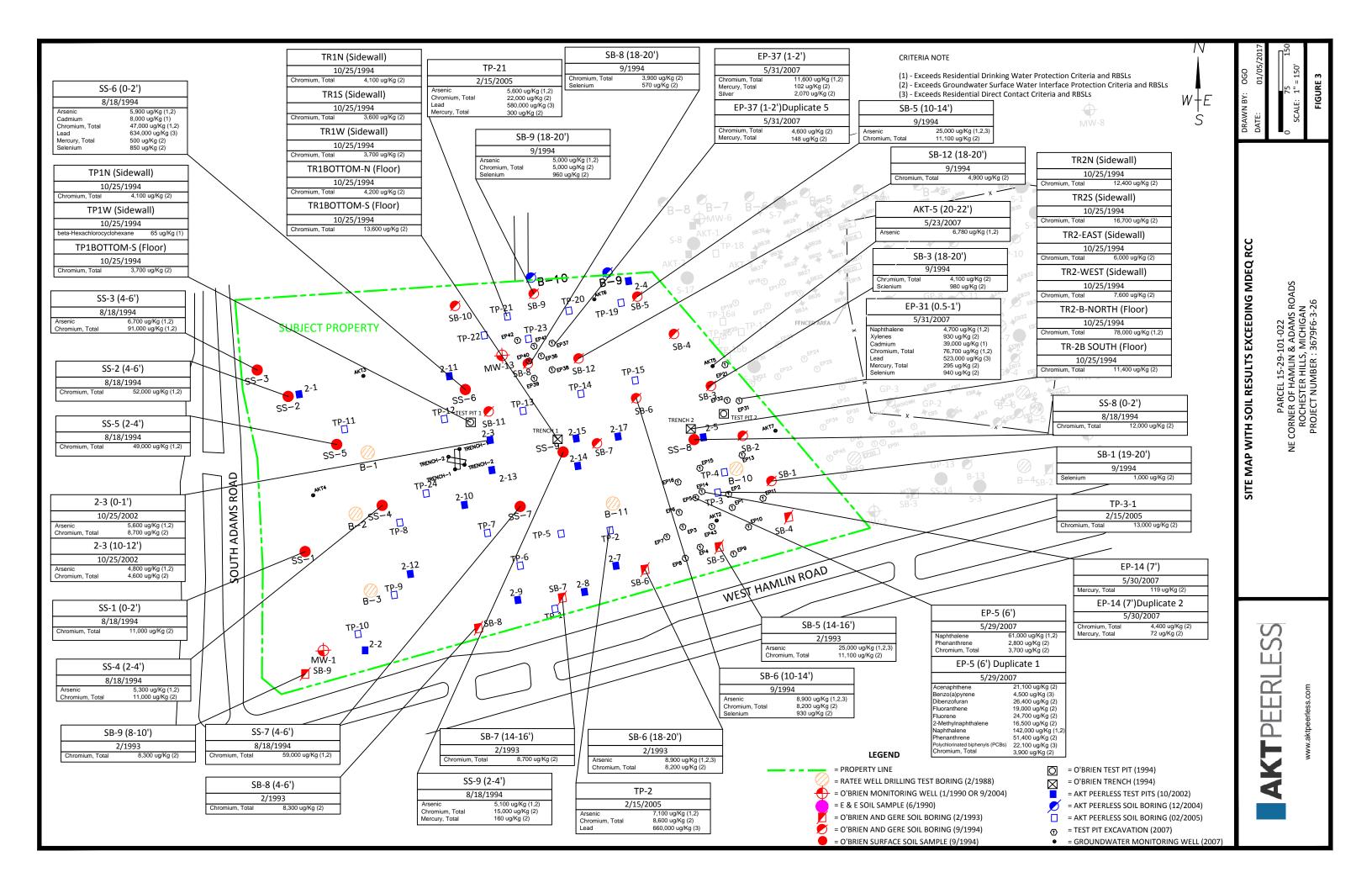
Estimated Capture

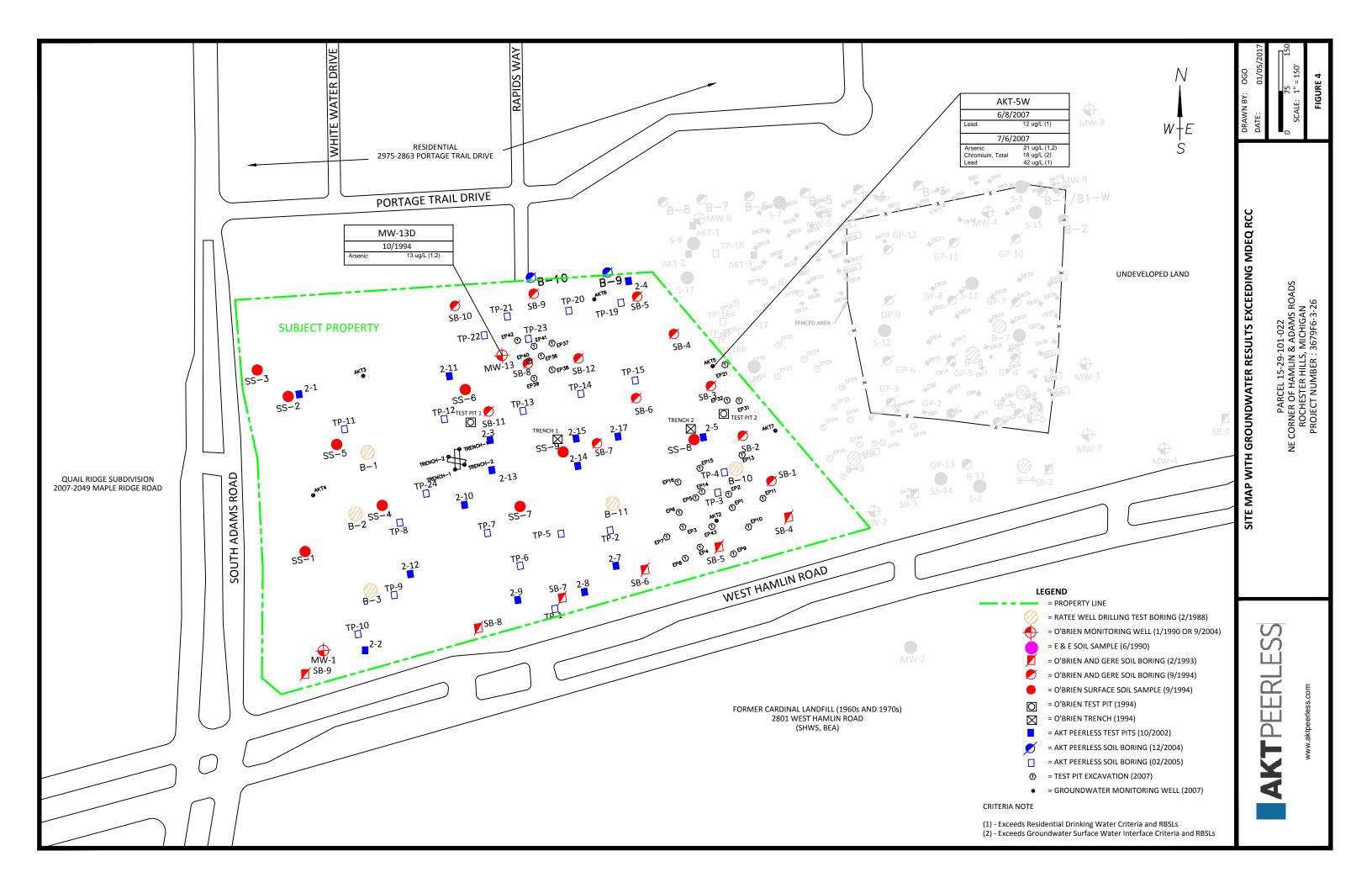
Administrative Fees	\$ 240,000
State Revolving Fund	\$ 1,287,667
Local Revolving Fund	\$ 2,963,575

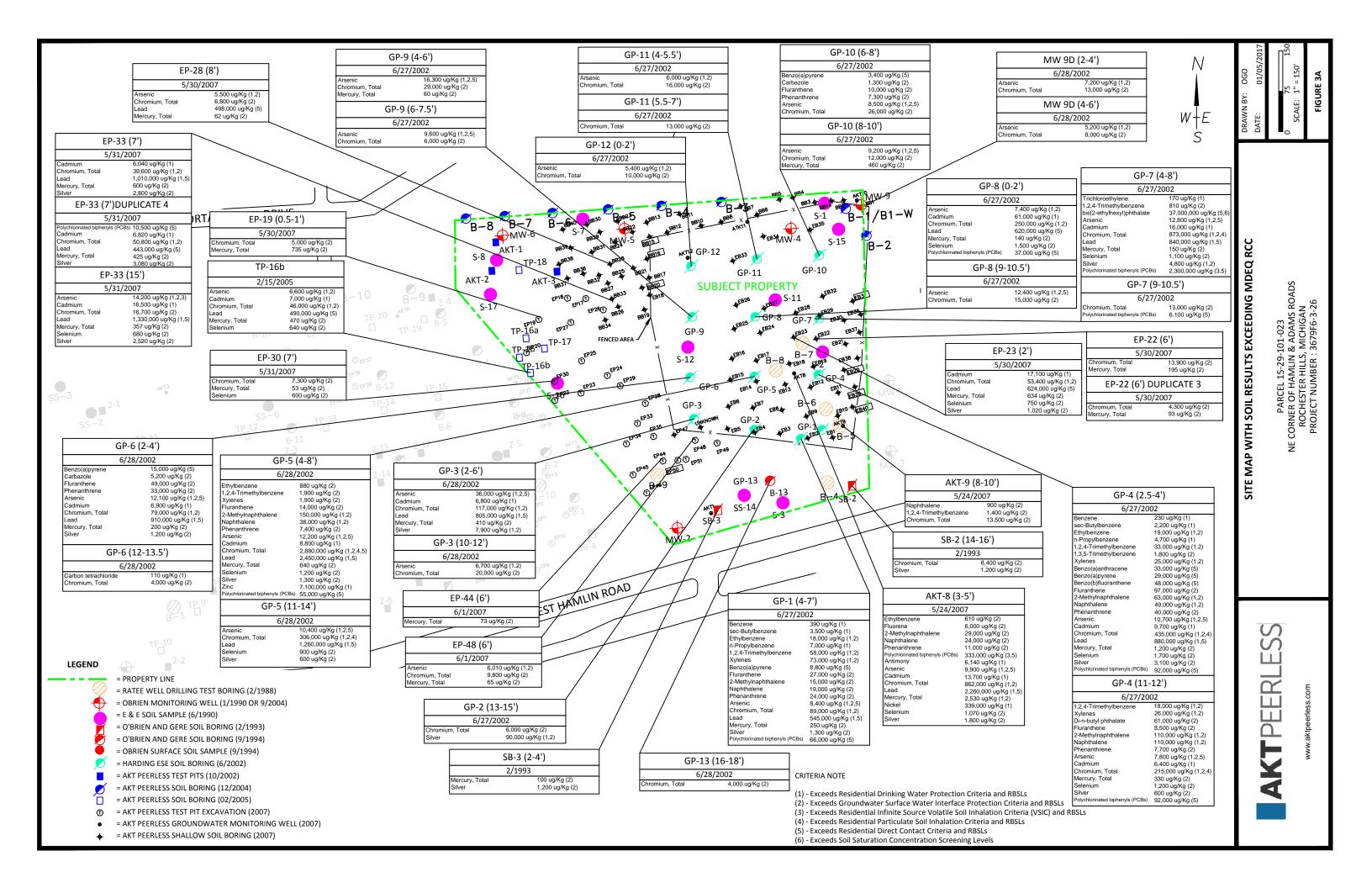
																						LIIU FIAII
		11	12		13	14		15	16		17	18		19	20	21	_		22	23		24
Total State Incremental Revenue	\$	425,279 \$	434,2	29 \$	443,367	\$ 452,69	6 \$	462,222	471,948	\$	481,877 \$	492,016	\$	502,367 \$	512,935	\$ 52	23,726	\$	534,743 \$	545,993	1 \$	557,476
State Brownfield Revolving Fund (3 mills of SE	\$	53,160 \$	54,2	79 \$	55,421	\$ 56,58	7 \$	57,778	58,993	\$	60,235 \$	61,502	\$	62,796 \$	64,117	\$ (65,466	\$	66,843 \$	68,249	9 \$	69,685
Local Brownfield Revolving Fund (3% of captur	\$	12,758 \$	13,0	27 \$	13,301	\$ 13,58	1 \$	13,867	14,158	\$	14,456 \$	14,760	\$	15,071 \$	15,388	\$:	15,712	\$	16,042 \$	16,380	0	
State TIR Available for Reimbursement	\$	359,361 \$	366,9	24 \$	374,645	\$ 382,52	9 \$	390,578	398,796	\$	407,186 \$	415,753	\$	424,500 \$	433,430	\$ 44	42,548	\$	451,858 \$	461,36	3 \$	487,792
Total Local Incremental Revenue	¢	347.110 \$	354,4	1 <i>1</i> \$	361,872	\$ 369,48	7 ¢	377,262	385,200	Ċ	393,304 \$	401,579	¢	410,028 \$	418,654	\$ 1°	27.461	¢	436,453 \$	445,634	л ¢	455,007
BRA Administrative Fee	ċ	10.000 \$	•	00 \$	10,000	•		10,000	•	•	10,000 \$	10,000	-	10,000 \$	10,000	•	10,000	•	10,000 \$	10,000	•	10,000
Local Brownfield Revolving Fund (3% of captur	ب د د	10,000 \$	•	32 \$	10,856			11,318	•		11,799 \$	12,047		12,301 \$	12,560		12,824	ې	10,000 \$	10,000	υ ఫ	10,000
Local TIR Available for Reimbursement	ڊ ا خ	326,696 \$	333,7		341,016			355,944			371,505 \$	379,532		387,727 \$	396,094		04,637	ć	426,453 \$	435,634	Λ¢	445,007
Local TIK Available for Reinibursement	Ą	320,090 Ş	333,7	52 J	341,010	, 346,40	ک ک	333,344 ,	303,044	· •	371,303 3	373,332	Ą	367,727 3	330,034	y 40	04,037	Ą	420,433 3	433,03	+ ,	443,007
Total State & Local TIR Available	\$	686,057 \$	700,7	06 \$	715,661	\$ 730,93	1 \$	746,521	762,439	\$	778,691 \$	795,285	\$	812,227 \$	829,524	\$ 84	47,185	\$	878,311 \$	896,990	6 \$	932,799
DEVELOPER																						
	\$	7,951,761 \$	7,251,0	55 \$	6,535,394	\$ 5,804,46	3 \$	5,057,942	\$ 4,295,502	\$	3,516,811 \$	2,721,526	\$	1,909,299 \$	1,079,775	\$ 49	99,086	\$	47,228 \$		0 \$	
<u>STATE Reimbursement Balance</u>		4,535,975 \$	4,169,0		3,794,406	\$ 3,411,87		3,021,300			2,215,318 \$	1,799,565	\$	1,375,065 \$	941,634		99,086	\$	47,228 \$	(0 \$	(
Eligible Activities Reimbursement	\$	359,361 \$	366,9		374,645	\$ 382,52		390,578	398,796		99,650 \$	-	\$	- \$	-	\$	-	\$	- \$	-	\$	-
Environmental Eligible Activities	\$	359,361 \$	366,9	24 \$	374,645	\$ 382,52	9 \$	390,578	398,796	\$	99,650 \$	-	\$	- \$	-	\$	-	\$	- \$	-	\$	-
Interest Reimbursement	\$	- \$	-	\$	-	\$ -	\$	- \$	-	\$	307,537 \$	415,753		424,500 \$	433,430		42,548		451,858 \$	47,228		-
Environmental Portion	\$	- \$	-	\$	-	\$ -	\$	- 5	-	\$	307,537 \$	415,753	\$	424,500 \$	433,430	\$ 44	42,548	\$	451,858 \$	47,228	8 \$	-
Total STATE TIR Reimbursement	\$	359,361 \$	366,9	24 \$	374,645	\$ 382,52	9 \$	390,578	398,796	\$	407,186 \$	415,753	\$	424,500 \$	433,430	\$ 44	42,548	\$	451,858 \$	47,228	8 \$	-
LOCAL Reimbursement Balance	\$	3,415,786 \$	3,082,0	04 \$	2,740,988	\$ 2,392,58	6 \$	2,036,642	5 1,672,998	\$	1,301,493 \$	921,961	\$	<i>534,235</i> \$	138,141	\$	-	\$	- \$	-	\$	-
Eligible Activities Reimbursement	\$	326,696 \$	333,7	82 \$	341,016	\$ 348,40	2 \$	333,453	-	\$	- \$	-	\$	- \$	-	\$	-	\$	- \$	-	\$	-
Environmental Eligible Activities	\$	326,696 \$	333,7	82 \$	341,016	\$ 348,40	2 \$	333,453	-	\$	- \$	-	\$	- \$	-	\$	-	\$	- \$	-	\$	-
Interest Reimbursement	\$	- \$	-	\$	-	\$ -	\$	22,491	363,644	\$	371,505 \$	379,532	\$	387,727 \$	396,094	\$ 13	38,141	\$	- \$	-	\$	-
Environmental Portion	\$	- \$	-	\$	-	\$ -	\$	22,491	363,644	\$	371,505 \$	379,532	\$	387,727 \$	396,094	\$ 13	38,141	\$	- \$	-	\$	-
Total LOCAL TIR Reimbursement	\$	326,696 \$	333,7	82 \$	341,016	\$ 348,40	2 \$	355,944	363,644	\$	371,505 \$	379,532	\$	387,727 \$	396,094	\$ 13	38,141	\$	- \$	-	\$	-
Total Annual Developer Reimbursement	\$	686,057 \$	700,7	06 \$	715,661	\$ 730,93	1 \$	746,521	762,439	\$	778,691 \$	795,285	\$	812,227 \$	829,524	\$ 58	80,689	\$	451,858 \$	47,228	8 \$	-
LOCAL BROWNFIELD REVOLVING																						
FUND																						
		0	0		0	0		0	0		0	0		0	0	0			1	2		3
LBRF Deposits	\$	23,172 \$	23,6	59 \$	24,157		6 \$	25,185	25,714	\$	26,255 \$	26,808	\$	27,372 \$	27,948	\$ 29	95,032	\$	442,495 \$	849,768	8 \$	932,799
STATE	\$	12,758 \$	13,0	27 \$	13,301	\$ 13,58	1 \$	13,867	14,158	\$	14,456 \$	14,760	\$	15,071 \$	15,388	\$:	15,712	\$	16,042 \$	414,13	5 \$	487,792

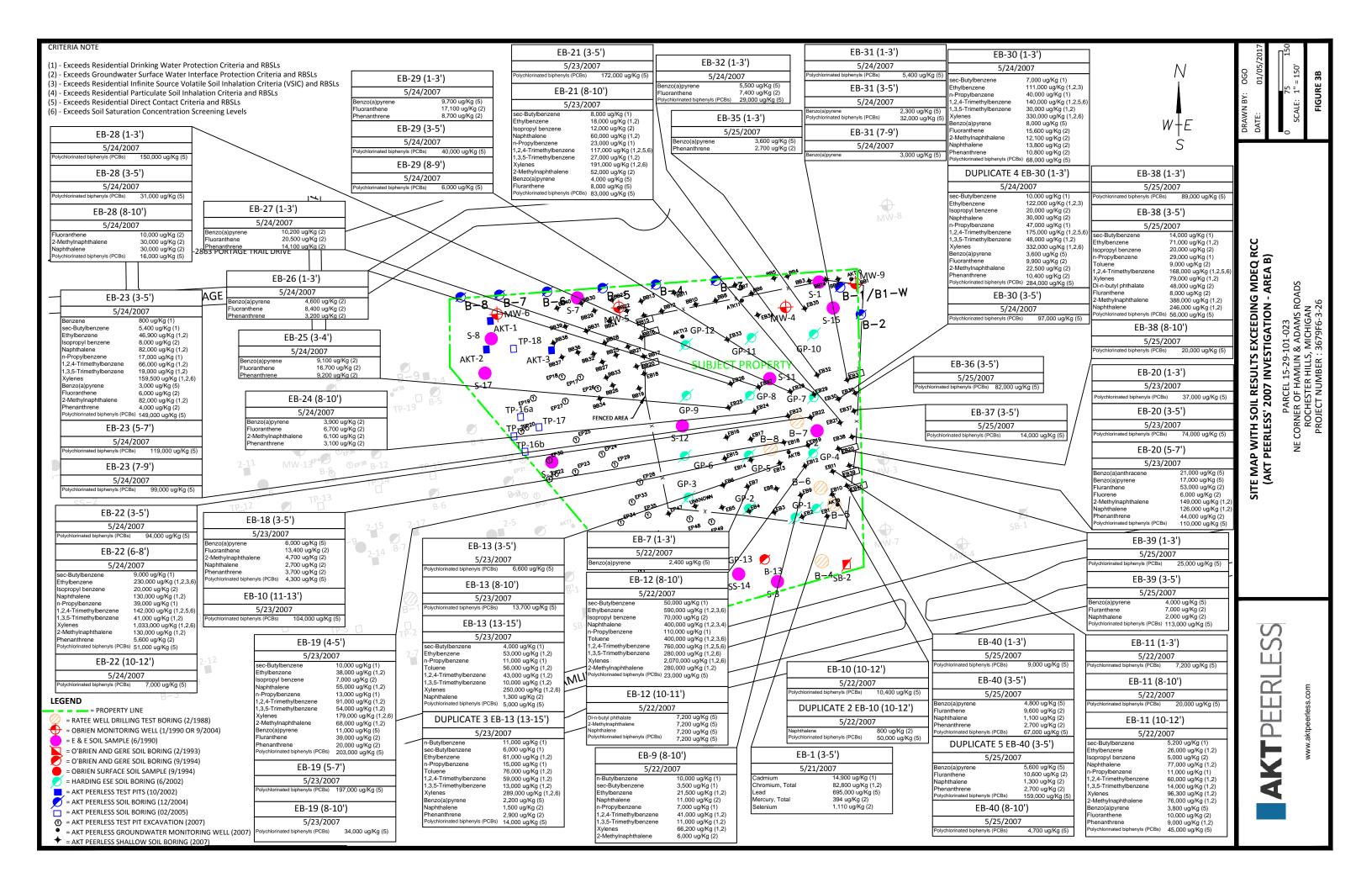


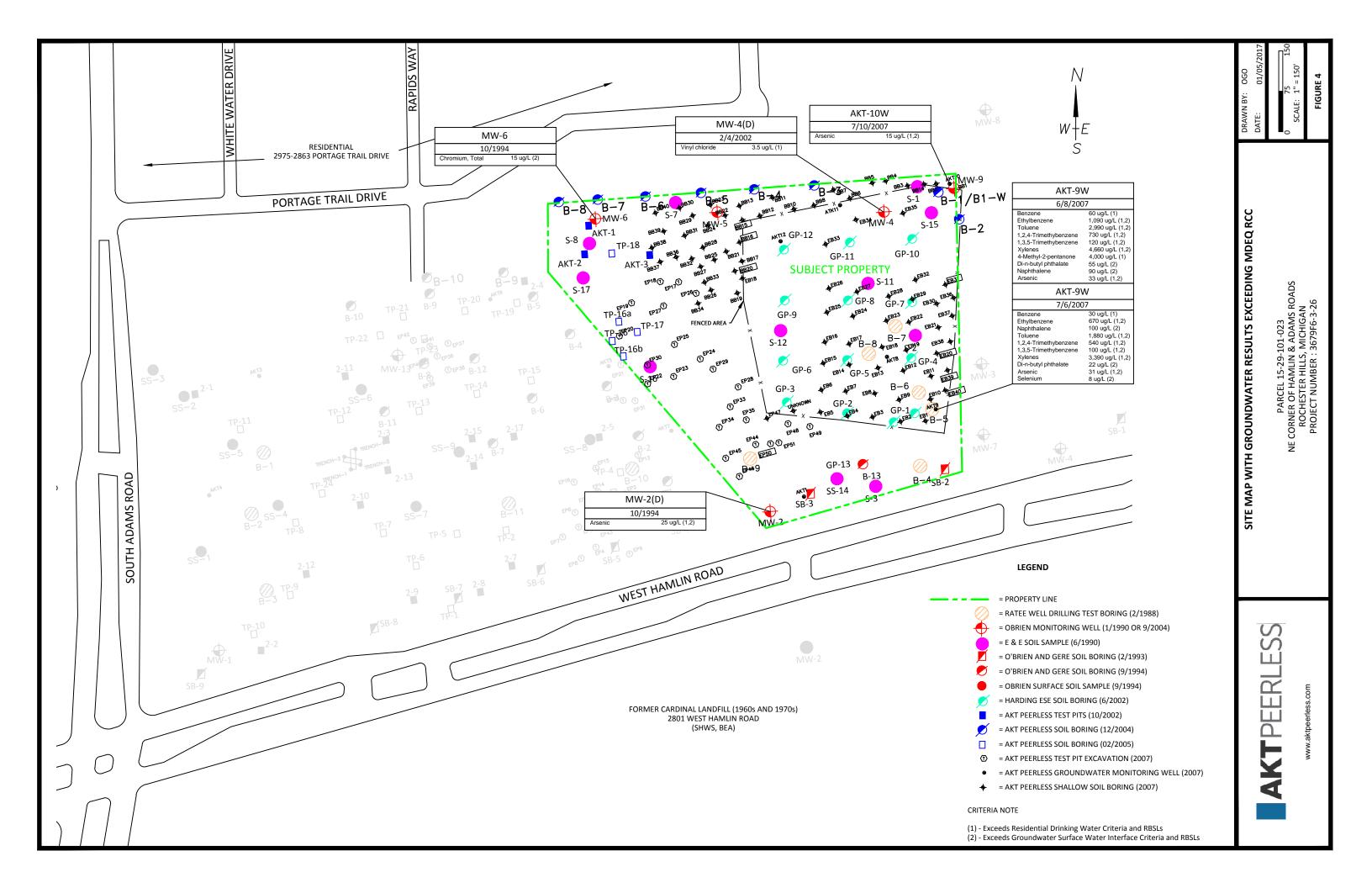
Attachment D Environmental Documentation













UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION 5 77 WEST JACKSON BOULEVARD CHICAGO, IL 60604-3590

SEP 1 1 2008

REPLY TO THE ATTENTION OF:

L-8J

Mr. Derek Delacourt Deputy Director, Planning and Development The City of Rochester Hills 1000 Rochester Hills Drive Rochester Hills, Michigan 48309

> Re: Christianson Landfill Site (site) Hamlin Adams Brownfield Redevelopment Project

Dear Mr. Delacourt:

The U.S. Environmental Protection Agency, Region 5, has reviewed information regarding the environmental history and proposed plans for the Hamlin Adams Brownfield Redevelopment Project. EPA also has discussed the project with the Michigan Department of Environmental Quality (MDEQ).

Based on our review of the information and discussions with MDEQ, EPA has determined that, under 40 CFR § 761.50(b)(3)(i)(A) of the PCB regulations, the site is presumed not to present an unreasonable risk to health or the environment. EPA made this determination based on the understanding that the PCB contamination occurred prior to 1978, and currently there is no ongoing release of PCBs to the environment. As long as there is no ongoing release of PCBs to the environment from this site, EPA will take no action on this project. MDEQ will oversee remedial action at this site.

If you have any questions regarding this decision, please do not hesitate to contact me, or your staff may contact Jean Greensley, of my staff, at 312-353-1171.

Margaret M. Guerriero

Director

Land and Chemicals Division

cc: Mr. Ben Mathews, MDEQ



February 20, 2008

Ms. Jean M. Greensly (LC-8J)
US Environmental Protection Agency
Toxics Section - Land and Chemicals Division
77 West Jackson Boulevard
Chicago, Illinois 60604

Subject: PCB Migration Risk at Christenson Landfill

Northeast Corner of Hamlin and Adams Roads

Rochester Hills, Michigan

Dear Ms. Greensley:

As we discussed on our conference call, it was mutually agreed that the above location was a pre-1978 unregulated landfill and thus not regulated by TSCA. However, you stated under certain circumstances when there was an imminent risk to human health the USEPA would take action. Therefore, you requested data to support that there was no such imminent risk to the community that would make this a site of interest to the USEPA.

Michigan has several sites such as these and they are typically regulated by the MDEQ. Due to the requirements of a consent judgment between the City of Rochester Hills and the developer, the USEPA's acknowledgement that they do not assert jurisdiction is required. Therefore, below please find the summary of the known data and the proposed remedy. The proposed remedy would further greatly reduce any existing risk to human health and the environment.

This is a Michigan Brownfield Redevelopment site and the parties are working closely with the MDEQ as to the appropriateness of the remedial action at the site. Ultimately, MDEQ's approval is required to ensure that the remedy sufficiently addresses potential risks to human health.

Therefore, AKT Peerless Environmental Services (AKT Peerless) is please to present a summary of the historical information collected from the Christenson Landfill site. During the 1960s, drums were illegally dumped at the site. Since 1984, several investigations and removal actions have been implemented at this site. The historical information presented in this letter is intended to evaluate the risks associated PCBs at the Christenson Landfill site.

March 24, 1986 – USEPA Letter to Michigan Department of Natural Recourses

On March 24, 1986, USEPA submitted a letter to the Michigan Department of Natural Resources (MDNR) and stated the following:

"This letter is in response to your request for the United States Environmental Protection Agency (USEPA) to assess the Christenson Landfill problem site in Oakland County, Michigan for a possible immediate removal action. USEPA has prepared and reviewed an Assessment for the site, and does not feel that an immediate removal is warranted at this time."

USEPA retained Roy F. Weston (Weston) to conduct a Site Assessment for the site. USEPA based their opinion on this assessment. According to the Weston report,

"The major threat to human health and the environment by the Christenson landfill is the potential for direct human contact with exposed drums and paint wastes. The site poses not apparent threat to groundwater contamination of



aquifers used by some local residents as sources of potable water. This conclusion is based on the following reasons:

- The area in question is underlain by 30 to 50 feet of clay.
- Water used by local residents is either from the Detroit Municipal Water System or from fairly deep private wells greater than 75 feet.

Weston further states, "that the site does not pose a threat to the drinking water supply of the surrounding community." Thus, the USEPA has already concluded that no material risk is associated with this site and that it has waived its jurisdiction and passed on jurisdiction to the State of Michigan.

August and December 1990 – Ecology and Environmental Groundwater Investigation

In 1990 Ecology and Environment conducted a groundwater investigation at the site. Ecology and Environment identified two water-bearing zones. The shallow water-bearing zone consisted interbedded sand and clay lenses. The predominant soil type in the shallow aquifer is sand. The shallow and deep-water bearing zones are separated by a clay aquitard. Monitoring wells installed at the site were screened in both water-bearing zones. Where the monitoring wells are nested, the shallow well is identified with "S" and the deeper well is identified with a "D". If neither letter is used, the well is screened in the shallow water-bearing zone.

Ecology and Environment collected groundwater samples in August 1990 and did not analyze the groundwater samples for PCBs.

November 8, 1994 – O'Brien & Gere Engineers' "Soil and Groundwater Survey"

In October 1994, the former property owner retained O'Brien & Gere Engineers to collect groundwater samples from nine monitoring wells at the site. These monitoring wells were called the following:

- MW1-S and MW1-D
- MW2-S and MW2-D
- MW5-S and MW5-D
- MW6
- MW13-S and MW-13-D

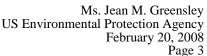
These eight of these monitoring wells were nested wells with the shallow wells (denoted "S") screened in the shallow water bearing zone and the deep wells (denoted "D") screened in the deeper water-bearing zone. The groundwater samples collected from these monitoring wells were analyzed for PCBs and no PCBs were detected.

<u>August 2000 – MDEQ Groundwater Monitoring</u>

In August 2000, the Michigan Department of Environmental Quality (MDEQ) collected groundwater samples from the monitoring wells at the site. MDEQ did not analyze the groundwater for PCBs.

January 2001 – Snell Environmental Group's "Final Construction Oversight Report"

Snell Environmental Group, Inc., was retained by the Michigan Department of Environmental Quality (MDEQ) to supervise the removal of buried drums and grossly contaminated soils. From March 3, 1999 to January 2000, Snell supervised the removal of approximately 2,220





cubic yards of crushed drums; drum contents, and grossly contaminated soil. Thus, even further reducing the risks to the environment.

October 9, 2007 – AKT Peerless Environmental Services' Additional Assessment Report

AKT Peerless completed an Additional Assessment at the Christenson Landfill site. During this assessment, AKT Peerless conducted two groundwater-sampling events in June 2007 and July 2007. Groundwater samples were collected from five monitoring wells. These wells were called the following:

- AKT-8
- AKT-9
- AKT-10
- AKT-11
- AKT-12

All five monitoring wells were located in the area of buried drums and were screened in the shallow water-bearing zone. Groundwater samples collected in June and July 2007 were analyzed for PCBs. No PCBs were detected in June or July 2007, demonstrating that the PCBs have not become mobile.

Summary

At least six groundwater-monitoring events have been conducted at the site. During three of the six groundwater-monitoring events the groundwater samples were analyzed for PCBs. No PCBs were detected in groundwater. Further, a source removal action was performed during 1999 and 2000. Based on these results, PCBs do not appear to pose a threat to migrate through groundwater.

Further, continued remedial actions are proposed for this site. These remedial actions include additional source removal and encapsulation of the remaining PCB contamination. As part of the encapsulation, a two-foot-thick clay wall keyed into native soil and covered with an FML liner and clay cap to restrict infiltration will surround the area of PCB contamination. By removing additional source material and restricting infiltration, the proposed remedial actions will further protect groundwater, thus reducing any risks with the remaining PCB contamination.

Therefore, in conclusion, this site should not be regulated by USEPA because of the following:

- 1. This is a pre-1978 unregulated landfill.
- 2. USEPA's own conclusion in 1986 was that "the major threat to human health and the environment by the Christenson landfill is the potential for direct human contact with exposed drums and paint wastes. The site poses no apparent threat to groundwater contamination of aquifers used by some local residents as sources of potable water.
 - USEPA has prepared and reviewed an Assessment for the site, and does not feel that an immediate removal is warranted at this time."
- 3. Studies undertaken between 1990 and 2001 confirm no change in risk from 1986.
- 4. In 2001, MDEQ acted on their jurisdiction and removed the majority of the source material from the site.
- 5. Recent data, as part of an MDEQ approved investigation work plan, confirms the lack of mobility of PCBs from this site.
- 6. MDEQ is providing and review and oversight for the proposed remedial actions.

Thus, due to the above, the additional proposed remedial activities and the oversight of the MDEQ should assist the USEPA in its determination that no USEPA jurisdiction exists.



It has been a pleasure working with you. If you have any further questions please contact me at (248) 615-1333.

Sincerely

AKT PEERLESS ENVIRONMENTAL SERVICES

Tony R. Anthony, CP, CHMM, CPG, REPA Principal

cc: Joe Dufficy, USEPA Brownfield Group

Derek Delacourt, City of Rochester Hills

Neil Silver, Strobl Cunningham



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY REGION 5

EASTERN RESPONSE UNIT 9311 GROH ROAD

GROSSE ILE, MICHIGAN 48138-1697

MAR 2 4 1986

REPLY TSHKG ITENTION OF:

Mr. Andrew Hogarth, Chief Remedial Action Section GWQD Michigan Department of Natural Resources P.O. Box 30028 Lansing, MI 48909

Christenson Landfill Oakland County, MI

Dear Mr. Hogarth:

This letter is in response to your request for the United States Environmental Protection Agency (U.S. EPA) to assess the Christenson Landfill problem site in Oakland County, Michigan for a possible

U.S. EPA has prepared and reviewed an Assessment for the site, and does not feel that an immediate removal is warranted at this time. Available analytical data do not show or suggest an immediate and significant threat to public health, welfare, or the environment. However, if you obtain further information which indicates that an immediate threat does exist, please notify U.S. EPA, Eastern Response Unit, Grosse Ile, Michigan.

Although an immediate endangerment does not appear to exist at this site, the Michigan Department of Natural Resources should continue its investigation into possible long-term remedial actions.

I have enclosed a copy of the site assessment for the Christenson Landfill site. If you have any questions regarding this matter, please call Ross Powers, the On-Scene Coordinator for this site

Sincerely yours,

Robert M. Buckley, P.E., Zhief

Eastern Response Unit

Enclosure

cc: Oakland Co. Health Dept. w/Encl

FIGURE 9



LEGEND

EXISTING PROPERTY LINE PROPOSED DELISTING BOUNDRY APPROXIMATE LOCATION OF 400' X 325' FENCE SOIL BORING (INSTALLED BY O'BRIEN & GERE 9/94) SOIL BORING (INSTALLED BY ECOLOGY & ENVIRONMENT FIELD INVESTIGATION TEAM 6/90) 0 MONITORING WELL (INSTALLED BY PATRICK DRILLING INC. 6/80) MONITORING WELL (INSTALLED BY O'BRIEN & GERE 1/90) MONITORING WELL (INSTALLED BY O'BRIEN & GERE 9/94) NESTED SHALLOW/DEEP MONITORING WELL LOCATION (S/D) MONITORING WELL LOCATION ON CITY OF ROCHESTER HILLS PROPERTY (RH) TEST PIT (10' X 10' X 5') \boxtimes TRENCH (5' X 5' X 5') GEOLOGICAL CROSS SECTION GEOLOGICAL CROSS SECTION

WILLIAM JAMENS, ROMAN HALANSI & JOE BALOUS PROPERTY @ HAMLIN & ADAMS ROAD ROCHESTER HILLS, MICHIGAN

TEST PIT LOCATIONS
AND GEOLOGICAL
CROSS SECTIONS



SCALE

FILE NO. 5699.003-013



TABLE 4
Ground Water Sample Analytical Results
Christianson Dump Site
October 1994

*				Christ	llanson Dum October 16	•					- :				Type B Criteria
LOCATION	Analytical		MW1-8	MW1-D	MW2-9	MW2-D	MW5-8	MW5-D	MW6	MW13-5	MW13-D	MW-DUP	EQPBLNK	Type A Criteria	Health-Based Drinking Water Value
Analytical Parameter	Method	Unite	<1.0	<1.0	<1.0	25.0	4.2	9.3	3.0	3.6	13.0	3.9	3.4	1	0.02(C)
Arsenic	6020 6020	ug/L ug/L	123	191	181	223	276	157	<100	337	331	308	< 100	200	2,400(C)
Barlum	6020	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	<0.2	< 0.2	4.3	0.2	3.5(C)
Cadmium	6020	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	15	<1.0	<1.0	<1.0	< 1.0	1	120(C)
Chromium		ug/L	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	<25.0	25	1,300(C)
Copper	6020 6020	ug/L	<3.0	<3.0	<3.0	<3.0	<3.0	<3.0	4.0	<3.0	<3.0	<3.0	<3.0	3	4(C)
Lead	7470	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.5	< 0.2	< 0.2	< 0.2	< 0.2	0.2	2.1(C)
Mercury	7740	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5	35(C)
Selenium	6020	ug/L	<0.5	<0.5	<0.5	<0.5	< 0.5	< 0.5	<0.5	< 0.5	< 0.5	< 0.5	<0.5	0.5	33(C)
Silver	6020	ug/L	100	58.0	124	41.0	140	158	102	114	31.0	152	44	20	2,300(C)
Zinc	8080	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2		
Aroclor-1018	8080	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	<0.2	l .	
Aroclor-1221	8080	ug/L	<0.4	<0.4	<0.4	<0.4	<0.4	< 0.4	< 0.4	< 0.4	<0.4	<0.4	< 0.4	1	
Aroclor-1232			<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	1	
Aroclor-1242	8080	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	1	
Aroclor-1248	8080 8080	ug/L ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	< 0.2	< 0.2	< 0.2	<0.2	1	
Aroclor-1254	8080	ug/L	<0.2	<0.2	<0.2	<0.2	<0.2	< 0.2	< 0.2	<0.2	< 0.2	< 0.2	< 0.2		
Aroclor-1260	8080	ug/L	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1	
Aldrin	8080	ug/L	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1	-
Alpha-BHC Beta-BHC	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01		
Delta-BHC	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1	
Gamma-BHC	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Chlordene	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01		
4,4'-DDD	8080	ug/L	<0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02		
4,4'-DDE	8080	ug/L	<0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	1	
4,4'-DDT	8080	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	1	
Dieldrin	8080	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	< 0.02	1	
Endosulfan I	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1	
Endosulfan II	8080	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	<0.02	< 0.02	< 0.02		
Endosulfan Sulfate	8080	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	< 0.02	< 0.02	< 0.02	1 -	
Endrin	8080	ug/L	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	< 0.02	<0.02	<0.02	< 0.02	< 0.02		
Endrin Aldehyde	8080	ug/L	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Endrin Ketone	8080	ug/L	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
	8080	ug/L	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01		
Heptachlor	8080	ug/L	<0.01	<0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	1	
Heptachlor Epoxide	8080	ug/L	< 0.05	<0.05	<0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05		
4,4-Methoxychlor	8080	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Toxaphene	0000	ug/L	V 1.0	~1.0	31.0	_1									

Notes:

- 1. Samples analyzed by Environmental Quality Laboratories, Inc. of Sterling Heights, Mi.
- 2. Samples collected on October 3 5, 1994 by O'Brien & Gere Engineers, Inc.
- 3. "<" denotes less than the indicated detection limit of test.
- 4. "C" denotes background as defined in Rule 701(c), may be substituted as the cleanup criteria if higher than the Type B cleanup criteria.

Page 1 of 4

TABLE 4 - Continued Ground Water Sample Analytical Results Christianson Dump Site October 1994

LOCATION	WWW. WWW	47.18	366,369,1808	\$5000, No. 20	3000 Davis	100000000000000000000000000000000000000	6.566.7766		listation in the	School Control			
	Analytical		MW1-9	MW1-D	MW2-8	MW2-D	MW5-8	MW5-D	MWG	MW13-8	MW13-D	MW-DUP	EQPBLNK
Analytical Parameter	Method	Unite											
Acenaphthene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0
Acenephthylene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Anthracene	8270	ug/L	<20	<20	<20	< 20	<20	<20	<20	<20	< 20	<20	<20
Benzoic Acid	8270	ug/L	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0
Benzo(a)anthracene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzo(b)fluoranthene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0
Benzo(k)fluoranthene	8270	ug/L	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzo(g,h,l)perylene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzo(a)pyrene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Benzyl Alcohol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-chloroethoxy)methane	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-chloroethyl)ether	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-chlorolsopropyl)ether	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Bis(2-ethylhexyl)phthalate	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Bromophenyl phenyl ether	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Butyl benzyl phthalate	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chloroaniline	8270	ug/L	<20	< 20	<20	<20	< 20	<20	<20	< 20	<20	<20	< 20
4-Chloro-3-methylphenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2-Chloronaphthalene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0
2-Chlorophenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Chlorophenyl phenyl ether	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Chrysene	8270	ug/L	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenzo (a,h)anthracene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Dibenzofuran	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
DI-n-butylphthelete	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2-Dichlorobenzene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,3-Dichlorobenzene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,4-Dichlorobenzene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
3,3'-Dichlorobenzidine	8270	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2,4-Dichlorophenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Diethyl phthalate	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0		
2,4-Dimethylphenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0 <5.0	<5.0	<5.0
Dimethyl phthalate	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0

Notes:

- 1. Samples analyzed by Environmental Quality Laboratories, Inc. of Sterling Heights, Mi.
- 2. Samples collected on October 3 5, 1994 by O'Brien & Gere Engineers, Inc.
- 3. "<" denotes less than the Indicated detection limit of test.

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TABLE 4 - Continued
Ground Water Sample Analytical Results
Christianson Dump Site
October 1994

LOCATION		. 8800 300	V. V				000000000000000000000000000000000000000	Exercise Control	\$55000000000000	000000000000000000000000000000000000000		Discussion of the last of the	BD/1000000000000000000000000000000000000
	Analytical		MW1-8	MW1-D	MW2-8	MW2-D	MW5-9	MW5-D	MWe	MW13-8	MW13-D	MW-DUP	EQPBLNK
Analytical Parameter	Method	Units											
4,6-Dinitro-2-methylphenol	8270	ug/L	< 20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
2,4-Dinitrophenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,4-Dinitrotoluene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,6-Dinitrotoluene	8270	ug/L	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Di-n-octyl phthalate	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Fluoranthene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0
Fluorene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0
Hexachlorobenzene	8270	ug/L	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0
Hexachlorobutadiene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	
Hexachlorocyclopentadiene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<5.0
Hexachloroethane	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0
Indeno(1,2,3-cd)pyrene	8270	ug/L	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0
Isophorone	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	1000	<5.0	<5.0
2-Methylnaphthalene	8270	ug/L	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0
2-Methylphenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		15,7152	<5.0	<5.0
4-Methylphenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0	<5.0
Naphthalene	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0	<5.0
2-Nitroaniline	8270	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<5.0	<5.0	<5.0
3-Nitroaniline	8270	ug/L	<20	<20	<20	<20	<20	<20	<20		<20	<20	<20
4-Nitroaniline	8270	ug/L	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20	<20
Nitrobanzena	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0		<20	<20	<20	<20
2-Nitrophenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0	<5.0	<5.0	<5.0	<5.0
4-Nitrophenol	8270	ug/L	<20	<20	<20	<20	<20		< 5.0	<5.0	<5.0	<5.0	<5.0
N-Nitrosodiphenylamine	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<20	<20	<20	<20	<20	<20
N-Nitrosodi-n-propylamine	8270	ug/L	<5.0	<5.0	<5.0	<5.0 <5.0	<5.0 <5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Pentachlorophenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	0.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenathrene	8270	ug/L	<5.0	<5.0 <5.0			<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Phenol	8270	ug/L	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	< 5.0
Pyrene	8270	ug/L	<5.0	<5.0	<5.0 <5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
1,2,4-Trichlorobenzene	8270	ug/L	<5.0	<5.0 <5.0	<5.0 <5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,4,5-Trichlorophenol	8270	ug/L ug/L	<5.0	<5.0 <5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
2,4,6-Trichlorophenol	8270	ug/L	<5.0	-58.00	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0⋅	<5.0	<5.0	< 5.0
	02/0	ug/L	< 5.0	<5.0	<5.0	<5.0	< 5.0	<5.0	<5.0	<5.0	<5.0	< 5.0	< 5.0

Notes:

- 1. Samples analyzed by Environmental Quality Laboratories, Inc. of Sterling Heights, Ml.
- 2. Samples collected on October 3 5, 1994 by O'Brien & Gere Engineers, Inc.
- 3. "<" denotes less than the indicated detection limit of test.

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TABLE 4 - Continued **Ground Water Sample Analytical Results** Christianson Dump Site October 1994

,		<u>\</u> 								MW13-5	MW13-D	MW-DUP	EGPBLNK
OCATION Analytical			MW1-8	MW1-D	MW2-8	MW2-D	MW5-8	MWS-D	MW6	MW13-5	W)11.14.2		
	Method	Unite								<1.0	<1.0	<1.0	<1.0
inalytical Parameter		ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Promodichloromethane	8010	ug/L	<1.0	<1.0	< 1.0	< 1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	< 1.0
Bromoform	8010	ug/L	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	1.5 40.57	<1.0	<1.0	<1.0
Bromomethane	8010		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbon tetrachloride	8010	ug/L ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chlorobenzene	8010		<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
2-Chloroethyl Vinyl Ether	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloroform	8010	ug/L	<1.0	<1.0	<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Chloromethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.5557	<1.0	<1.0
Dibromochloromethane	8010	ug/L		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,2-Dichlorobenzene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,3-Dichlorobenzene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0
1,4-Dichlorobenzene	8010	ug/L	<1.0		<1.0	<1.0	< 1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Dichlorodifluoromethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1-Dichloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1.2-Dichloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1.1-Dichloroethylene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,2-Dichloroethylene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
1.2-Dichloropropane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
cls-1,3-Dichloropropylene	8010	ug/L	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
trans-1,3-Dichloropropylene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Methylene Chloride	8010	ug/L	<1.0	<1.0	<1.0	-0.2.01111	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2,2-Tetrachloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1,2-Tetrachloroethans	8010	ug/L	<1.0	<1.0	<1.0	<1.0	4 644	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Tetrachloroethylene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,1-Trichloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1000	<1.0	<1.0	<1.0	<1.0	<1.0
1,1,2-Trichloroethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Trichloroethylene	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	0.000	<1.0	<1.0	<1.0	<1.0
Trichlorofluoromethane	8010	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.
Vinyl Chloride	8020/5030	164	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1 2.46		
Benzene	72,734,631		<1.0	<1.0	<1.0	<1.0	<1.0		<1.0				
Toluene	8020/503			<1.0		< 1.0	<1.0		<1.0	70.5			
Ethyl Benzene	8020/503		<3.0	1000		00000	<3.0	<3.0	<3.0	<3.0	<3.0	1 3.0	
Xylenes	8020/503	0 ug/L	₹3.0	1 .0.0									Page 4

Notes:

Samples analyzed by Environmental Quality Laboratories, Inc. of Sterling Heights, Mi,

2. Samples collected on October 3 - 5, 1994 by O'Brien & Gere Engineers, Inc.

3. "<" denotes less than the indicated detection limit of test.

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