CITY OF HOUSTON

PUBLIC WORKS AND ENGINEERING
PLANNING & DEVELOPMENT DIVISION

Executive Summary

The Hirsch Road Properties Municipal Setting Designation (MSD) pertains to 14.98 acres at 10100 Hirsch Road and 10120 Hirsch Road approximately seven miles northeast of downtown Houston. The Designated Property encompasses five parcels designated by the Harris County Appraisal District as Parcel Nos. 0450760000014, 0760430040062, 0450760000015, 0450760000016, and 0760430050059. A Harris County Flood Control District (HCFCD) drainage ditch (Stream Number P118-12-00) runs across the southern part of the Designated Property.

The Designated Property was used as industrial purposes by Dixie Chemical starting in approximately 1945 for the manufacture of chemicals including glycol and solvents. In 1969, the property was divided into two parts: southern part (10100 Hirsch Road) and northern part (10120 Hirsch Road). The southern part was purchased by Oakite Products for chemical manufacture, blending, and distribution. Oakite was acquired by Chemetall US, Inc. (Chemetall). The northern part was purchased by Georgia-Pacific LLC, (Georgia-Pacific) for the processing of chrome lignosulfate. Georgia-Pacific sold the property to Orion Chemical/Dallas Tech, Inc., in 2001 who sold the property to the current owner RC Transportation in 2011. Current uses for the two parts are:

Southern Part (10100 Hirsch Road)(HCAD Parcel No. 0450760000014) - the property is vacant and undeveloped. The previous operations were discontinued in December 2002. Buildings and structures related to the former Oakite operations were demolished as of December 2012. Concrete slabs from demolished buildings, driveways, and related facilities are located on the western part of the parcel. Chemetall is the potentially responsible party. There are no anticipated uses for the vacant property by the current owner.

Northern Part (10120 Hirsch Road)(HCAD Parcel Nos. 0760430040062, 0450760000015, 0450760000016, and 0760430050059) – Chemical operations were terminated in 1969. The property is now owned by RC Transportation, Inc. and is used for commercial/industrial purposes for the transportation, transfer, storage, and shipping of bulk materials. Georgia-Pacific remains the potentially responsible party. The anticipated immediate use for these properties will continue to be commercial/industrial for the transportation, transfer, storage, and shipping of bulk materials.

Environmental investigation activities at the Designated Property were initiated in 1997. The 10100 Hirsch Road property was entered into the Texas Commission on Environmental Quality (TCEQ) Voluntary Cleanup Program (VCP) in 1997 as VCP No. 526. The 10120 Hirsch Road property was entered into the VCP in 2000 as VCP No. 1116. The environmental investigations identified several source areas where potential releases of chemicals of concern (COCs) may have occurred at the

Designated Property. Two Affected Property Assessment Reports were prepared in accordance with the Texas Risk Reduction Program (TRRP) and submitted to the TCEQ.

The environmental investigations completed to date at the Designated Property have involved the completion of 254 soil borings, installation of 72 monitoring wells, and collection and analysis of soil, groundwater, sediment, and surface water samples. Twenty-nine groundwater sampling events have been conducted over 19 years of investigation activities. COC concentrations in environmental media have been compared to protective concentration limits (PCLs) in accordance with TRRP guidance. The applicable PCLs, based on both ingestion and non-ingestion pathways, are summarized in **Table ES-1**.

Completed response actions have involved soil excavation, in-situ treatment by chemical injections, and groundwater recovery. The results from the investigations and response actions at the Designated Property indicate:

- COC concentrations in soil are protective of non-ingestion pathways for human and ecological receptors ($^{Tot}Soil_{Comb}$ PCLs).
- Ten COCs are present in in shallow groundwater at concentrations exceeding the ingestion-based PCLs ($^{GW}GW_{Ing}$ PCLs). These COCs are volatile organic compounds related to historical releases from industrial activities and an off-site source.
- Depth to groundwater is approximately 10 to 16 feet below ground surface. The affected groundwater zone has a thickness of approximately 11 to 16 feet.
- Shallow groundwater flow direction is generally from northwest to southeast.
- Estimated extent of COC concentrations in groundwater at concentrations exceeding the ingestion-based PCLs has been delineated and the area is stable or shrinking.
- No COC concentrations are detected in groundwater exceeding the non-ingestion-based PCLs.
- COC concentrations in groundwater are protective of sediment and surface water quality.
- COC concentrations in sediment in the HCFCD drainage ditch are protective of human and ecological receptors.
- COC concentrations in surface water in the HCFCD drainage ditch are protective of human and ecological receptors.

A search of pertinent databases identified the record for one water well located within one-half mile of the Designated Property and 3,064 records for water wells located within five miles. The City of Houston operates a public drinking water supply system capable of supplying drinking water to the Designated Property and properties within one-half mile of the Designated Property.

Implementation of an MSD eliminates the soil-to-groundwater ingestion pathway for soils and the ingestion pathway for affected groundwater at the Designated Property. With the MSD, the residential assessment levels will be the non-ingestions PCLs for soil, groundwater, sediment, and surface water.

Based on the sampling results from the period of 1993 to 2015, the area of affected groundwater is delineated and the estimated extent is stable or declining. There are no COC concentrations exceeding the non-ingestion soil or groundwater residential assessment levels at the Designated Property with the MSD.

Table ES-1
Summary of Protective Concentration Levels
Hirsch Road Properties - MSD Application

Protective Concentration Level (PCL)	Pathway	Tier 1	Site-Specific Calc.	RAL	Receptor
Soil					
${}^{GW}Soil_{Ing}$	Soil-to-groundwater leaching of chemicals of concern (COCs) to groundwater used for human ingestion.	■		■	**Ingestion** (human)
${}^{Air}Soil_{Inh\text{-}V}$	Inhalation of volatile COCs from soil.	■			Non-ingestion
${}^{Tot}Soil_{Comb}$	Soil to direct human contact (combined dermal contact, inhalation of volatiles and particulates, ingestion of vegetables).	■			Non-ingestion
Groundwater					
${}^{GW}GW_{Ing}$	Ingestion of COCs in groundwater.	■		■	**Ingestion** (human)
${}^{Air}GW_{Inh\text{-}V}$	Inhalation of volatile COCs from groundwater to air.	■			Non-ingestion
${}^{Sed}GW$	Groundwater discharge to sediment (Includes ${}^{Sed}GW_{Eco}$ PCL for groundwater discharge to surface water to ecological receptors).		■		Non-ingestion
${}^{SW}GW$	Groundwater discharge to surface water (Includes ${}^{SW}GW_{Eco}$ PCL for groundwater discharge to surface water to ecological receptors).		■		Non-ingestion
Sediment					
${}^{Sed}Sed$	Direct human and ecological contact with sediment.		■		Non-ingestion
Surface Water					
${}^{SW}RBEL$	Direct human and ecological contact with surface water site-specific Risk-Based Exposure Limit (RBEL).		■		Non-ingestion

Notes:

Protective Concentration Level (PCLs) naming based on the Texas Risk Reduction Program (TRRP) (30 TAC 350)

Tier 1 - PCLs for residential properties, 0.5-acre source area. TRRP PCL tables last revised December 16, 2015.

RAL – Residential Assessment Level

List of Acronyms and Abbreviations

APAR	Affected Property Assessment Report
bgs	below ground surface
Chemetall	Chemetall US, Inc.
COC	chemical of concern
1,1-DCE	1,1-Dichloroethene
1,2-DCE	Cis-1,2-Dichloroethene
1,2-DCA	1,2-Dichloroethane
Georgia-Pacific	Georgia-Pacific LLC
HCAD	Harris County Appraisal District
HCFCD	Harris County Flood Control District
IOC	Innocent Owner Certificate
IOP	Innocent Owner Program
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MSD	Municipal Setting Designation
MTBE	Methyl tert-butyl ether
PCE	Tetrachloroethene
PCL	Protective Concentration Limit
RAL	Residential Assessment Level
RAP	Response Action Plan
RBEL	Risk Based Exposure Limit
TCE	Trichloroethene
TCEQ	Texas Commission on Environmental Quality
TRRP	Texas Risk Reduction Program
VC	Vinyl Chloride
VCP	Voluntary Cleanup Program
VOC	volatile organic compound

Hirsch Road Properties
MSD Application

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C-f4	Estimated Extent of cis-1,2-Dichloroethene Exceedance in Groundwater
C-f5	Estimated Extent of Tetrachloroethene Exceedance in Groundwater
C-f6	Estimated Extent of Trichloroethene Exceedance in Groundwater
C-f7	Estimated Extent of Vinyl Chloride Exceedance in Groundwater
C-f8	Estimated Extent of Benzene Exceedance in Groundwater
C-f9	Estimated Extent of Ethylbenzene Exceedance in Groundwater
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B	No attachments
C	No attachments
D	No attachments
E	No attachments
F	Copies of Off-Site Affected Owners Notification Letters
G	No attachments
H	No attachments
I	No attachments
J	No attachments
K	No attachments
L	No attachments
M	No attachments
N	No attachments
O	No attachments
P	• Map of Water Well Locations within 5-miles of the Designated Property • Methods Letter – Water Well Search (10/29/2015) • Water Well Report (Banks) - 0.5-mile radius from the Designated Property
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V	No attachments
W	• Accuracy of Information – Georgia-Pacific • Accuracy of Information – Chemetall US, Inc.
X	• Signed Restrictive Covenant – Georgia-Pacific • Signed Restrictive Covenant – Chemetall US, Inc.
Y	No attachments
Z	Compact Disc – Electronic Files • MSD Application as a portable document file (PDF) which includes the complete water well search report for a five-mile radius around the Designated Property. • Spreadsheet in EXCEL format of water well owners and addresses for a 5-mile radius around the Designated Property. • Spreadsheet in EXCEL format of real property owners and addresses for a radius of 2,500 feet around the Designated Property.

Appendix A

Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds are accurate.

Appendix A

Provide a legal description of the boundaries of the designated property, including metes and bounds, and a copy of the deed for the property. A professional surveyor currently registered with the Texas Board of Professional Surveying must certify that all property descriptions with metes and bounds are accurate.

A survey of the Hirsch Road Properties Designated Property was completed by a registered surveyor in January 2016. The survey indicates that the Designated Property is 14.98 acres. The legal description is provided below. The metes and bounds plat, **Figure A-1**, is appended.

Legal and Field Descriptions

A tract of land containing 14.98 acres (652,737 square feet) being all of lot 58 & 59 of Clayton Place as recorded in Volume 29, Page 46 Harris County Map Records (H.C.M.R.), all of a tract of land described to R.C. Transportations Inc. as recorded in Harris County Clerks File (H.C.C.F.) No. 20110324568, all of a tract of land described to R.C. Transportations Inc. as recorded in Harris County Clerks File (H.C.C.F.) No. 20110324567 and all of a tract described to Chemetall US Inc. as recorded in H.C.C.F. No. N307211 out of the M Terrel Survey, Abstract 772, said 14.98 acres being more particularly described by metes and bounds as follows:

Beginning at a found concrete monument being on the East right-of-way line of Hirsh Road (100' ROW), Southwest corner of said Clayton Place and Northwest corner of herein described tract;

Thence South 89˚36'00" East along the South line of said Clayton Place and North line of herein described tract a distance of 124.95 feet to a found 1 inch iron pipe being the Southeast corner of lot 61 and Southwest corner of lot 59 for an interior corner of herein described tract;

Thence North 00˚24'00" East along the East line of said lot 61 and West line of said lot 59 a distance of 53.84 feet to a found 1/2 inch iron pipe being the Northeast corner of said lot 61, the South corner of lot 60 and Northwest corner of lot 59 for an exterior corner of herein described tract;

Thence North 42˚44'00" East along the East line of lot 60 and Northwest line of lot 59 a distance of 70.55 feet to a found 1/2 inch iron pipe being the Northeast corner of lot 60, on the West right-of-way line of Lockwood Drive (80' ROW) and exterior corner of herein described tract, said point being on a curve to the right;

Thence along said curve to the right having a radius of 331.69 feet, a delta of 22˚51'03", a length of 132.29 feet and having a chord of S 35˚50'06" E a distance of 131.41 to a set 5/8 inch iron rod with "TRI-TECH" cap being the Southeast corner of lot 59, Southwest corner of said Lockwood Drive, and interior corner of herein described tract;

Thence South 89˚36'00" East along the South line of said Clayton Place and North line of herein described tract a distance of 85.95 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being on the southeast corner of the right-of-way line of Lockwood Drive (80' ROW), Southwest corner of said lot 58 and interior corner of herein described tract, said point being the beginning of a curve to the left;

Thence along said curve to the left having a radius of 411.69 feet, a delta of 15˚00'12", a length of 107.80 feet and having a chord of N 26˚53'43" W a distance of 107.50 to a set 5/8 inch iron rod with "TRI-TECH" cap being on the Southeast radius for the intersection of the East right-of-way line of said Lockwood Drive and Parker Road (60' ROW) for corner of herein described tract, said point being the beginning of a curve to the right;

Thence along said curve to the right having a radius of 25.00 feet, a delta of 124˚27'00", a length of 54.30 feet and having a chord of N 28˚10'30" E a distance of 44.24 to a found ½ inch iron pipe being on the Northeast radius for the intersection of the East right-of-way line of said Lockwood Drive and South right-of-way line of said Parker Road for corner of herein described tract;

Thence South 89˚36'00" East along the South line of said Parker Road and North line of herein described tract a distance of 81.99 feet to a found ¾ inch iron pipe being on the South right-of-way line of said Parker Road, the Northeast corner of said lot 58, Northwest corner of lot for corner of herein described tract;

Thence South 05˚53'38" West along the West line of said lot 57 and east line of herein described tract a distance of 135.49 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being the Southwest corner of said lot 57, and interior corner of herein described tract;

Thence South 89˚36'00" East along the south line of said Clayton Place and North line of herein described tract a distance of 384.43 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being on the South line of said Clayton Place, the Northwest corner of a Bristol Place as recorded in Volume 29, Page 58 H.C.M.R. and Northeast corner of herein described tract;

Thence South 00˚38'51" West along the West line of said Bristol Place and East line of herein described tract a distance of 690.09 feet to a point being in the center of a drainage ditch being on the West line of said Bristol Place, the Northeast corner of a tract described to Reece Florastine as recorded in H.C.C.F. No. 20120278415 and Southeast corner of herein described tract;

Thence North 89˚36'00" West along the centerline of said drainage ditch, the South line of said Florastine tract and South line of herein described tract at a distance of 321.48 feet pass a point being the Northwest corner of said Florastine tract and Northeast corner of a tract described to Reece Florastine as recorded in H.C.C.F. No. 20130228112, continuing along the same coarse at a distance of 107.21 feet pass a point being the Northwest corner of said Florastine tract and Northeast corner of a tract described to Juan Luevano as recorded in H.C.C.F. No. 201201820358, continuing along the same coarse at a distance of 214.56 feet pass a point being the Northwest corner of said Luevano tract and Northeast corner of a tract described to Frank Clark as recorded in H.C.C.F. No. H905455, continuing along the same coarse a total distance of 1043.05 feet (called 1040.81 feet) to a point being in the center of said drainage ditch, the Northwest corner of said Clark tract, on the right-of-way of said Hirsh Road and Southwest corner of herein described tract;

Thence North 20˚51'07" East along the East right-of-way line of said Hirsh Road and West line of herein described tract at a distance of 595.11 feet (called 595.47 feet) pass a found concrete monument being the Northwest corner of said Chemetall tract and Southwest corner of said R.C. Transportation tract, continuing along the same coarse a total distance of 736.51 feet to the POINT OF BEGINNING and containing 14.98 acres of land.

The Designated Property consists of five parcels. **Table A-1** presents the Harris County Appraisal District (HCAD) parcel identification numbers for the Designated Property

Table A-1
HCAD Parcels
Hirsch Road Properties

HCAD Parcel No.	Owner Name and Address	Property Address	Property Area as Reported by HCAD (square feet)
0760430040062	RC Transportation, Inc. P.O. Box 3005, Spring, TX 77383-3005	10120 Hirsch Road	10,241 (0.24 acres)
0450760000015	RC Transportation, Inc. P.O. Box 3005, Spring, TX 77383-3005	10120 Hirsch Road	126,542 (2.91 acres)
0450760000016	RC Transportation, Inc. P.O. Box 3005, Spring, TX 77383-3005	0 Hirsch Road	82,236 (1.89 acres)
0760430050059	RC Transportation, Inc. P.O. Box 3005, Spring, TX 77383-3005	0 Parker Road	9,100 (0.21 acres)
0450760000014	Chemetall US, Inc. 675 Central Ave., New Providence, NJ 07974-1560	10100 Hirsch Road	422,967 (9.71 acres)
Total Area based on HCAD Records (square feet)			651,086
Total Area based on HCAD Records (43,560 square feet per acre)			**14.96 acres**

Within this application, the Designated Property will be referred in two parts as referenced by two addresses: 10100 Hirsch Road and 10120 Hirsch Road. The address 10100 Hirsch Road pertains to the single HCAD Parcel No. 0450760000014. The address 10120 Hirsch Road pertains to four HCAD parcels which include: HCAD Parcel Nos. 0760430040062, 0450760000015, 0450760000016, and 0760430050059.

HCAD records indicate that the Designated Property is 14.96 acres while the actual surveyed area is 14.98 acres. This difference is because HCAD uses the acreage as reported in the previous deed documentation. The surveyed acreage is a representation of the actual size of the Designated Property based on ground measurements and monumentation by previous surveyors and surveyor findings.

Also provided in this appendix are the Harris County Appraisal District records for the five parcels in the Designated Property. The applicable property deeds are also provided.

GRATE INLET · LIGHT STANDARD · IRON FENCE · POWER POLE · CONCRETE · CONTROLLING MONUMENT (12-8-15)
SIGN · WATER VALVE · WOOD FENCE · GUY ANCHOR · COVERED · CHAIN LINK FENCE
MANHOLE · CLEAN OUT · POWER LINE · WATER METER · < > CALL · FIRE HYDRANT
BOLLARD · SANITARY MANHOLE · STORM MANHOLE · ELECTRIC BOX

LEGEND

AE = AERIAL EASEMENT
BL = BUILDING LINE
FNC = FENCE
FND = FOUND
I.P. = IRON PIPE
I.R. = IRON ROD
MH = MANHOLE
OHU = OVERHEAD UTILITIES
P.V.C. = POLYVINYL CHLORIDE PIPE
PL = BOUNDARY LINE
PP = POWER POLE
R.C.P. = REINFORCED CONCRETE PIPE
SAN MH = SANITARY SEWER MANHOLE
STM MH = STORM SEWER MANHOLE
UE = UTILITY EASEMENT
WLE = WATERLINE EASEMENT

COMMON ABBREVIATIONS

NO.	DATE	REASON	BY
1			

REVISIONS

LINE TABLE		
LINE	LENGTH	BEARING
L1	124.95	S89°36'00"E
L2	53.84	N00°24'00"E
L3	70.55	N42°44'00"E
L4	85.95	S89°36'00"E
L5	81.99	S89°36'00"E
L6	135.49	S05°53'38"E
L7	53.14	N00°44'45"E

CURVE TABLE					
CURVE	LENGTH	RADIUS	CHORD BEARING	CHORD	DELTA
C1	132.29	331.69	S35°50'06"E	131.41	22°51'03"
C2	107.80	411.69	N26°53'43"W	107.50	15°00'12"
C3	54.30	25.00	N28°10'30"E	44.24	124°27'00"

50 0 25 50 100 200
(IN FEET)
1 inch = 50 ft.

NOTES

1. ALL EASEMENTS AND BUILDING LINES SHOWN ARE PER THE RECORDED PLAT UNLESS OTHERWISE NOTED.

2. SUBJECT TO A DRAINAGE EASEMENT ON EACH SIDE OF THE CENTERLINE OF ALL NATURAL DRAINAGE COURSES.

3. ALL BUILDING LINES, EASEMENTS, BUILDING RESTRICTIONS (DEED RESTRICTIONS, ETC.) AND ZONING ORDINANCES, IF ANY, THAT MAY AFFECT SUBJECT PROPERTY SHOULD BE VERIFIED PRIOR TO PLANNING AND/OR CONSTRUCTION.

4. MINIMUM FINISH FLOOR REQUIREMENTS, IF SHOWN, ARE PER RECORDED PLAT AND/OR DEED RESTRICTIONS ONLY, AND NOTED AS SUCH. ADDITIONAL FINISHED FLOOR REQUIREMENTS MAY BE REQUIRED BY F.E.M.A. AND/OR LOCAL GOVERNING AUTHORITIES.

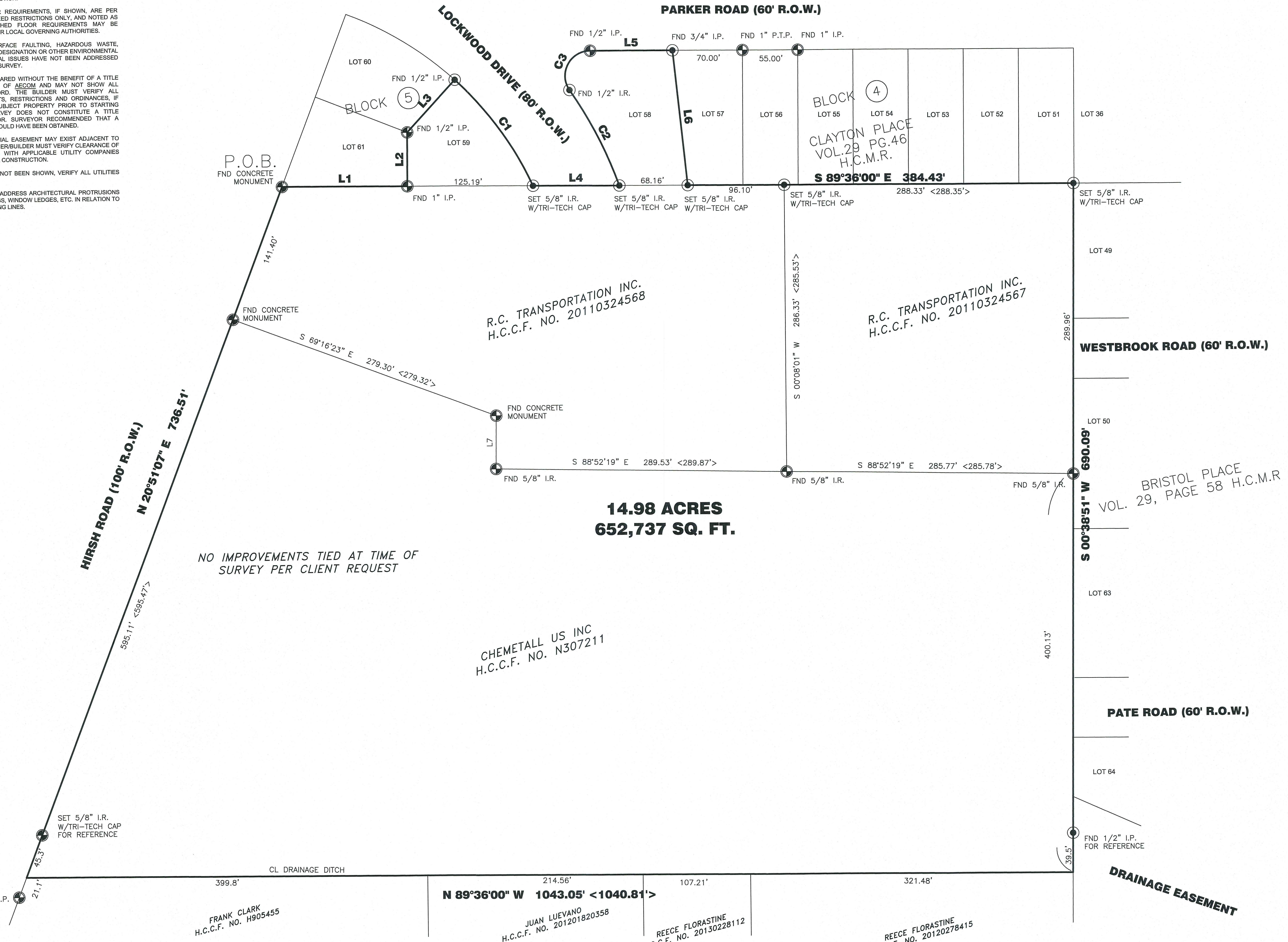
5. SURFACE OR SUBSURFACE FAULTING, HAZARDOUS WASTE, MINERAL RIGHTS, WETLAND DESIGNATION OR OTHER ENVIRONMENTAL ISSUES AND ARCHEOLOGICAL ISSUES HAVE NOT BEEN ADDRESSED WITHIN THE SCOPE OF THIS SURVEY.

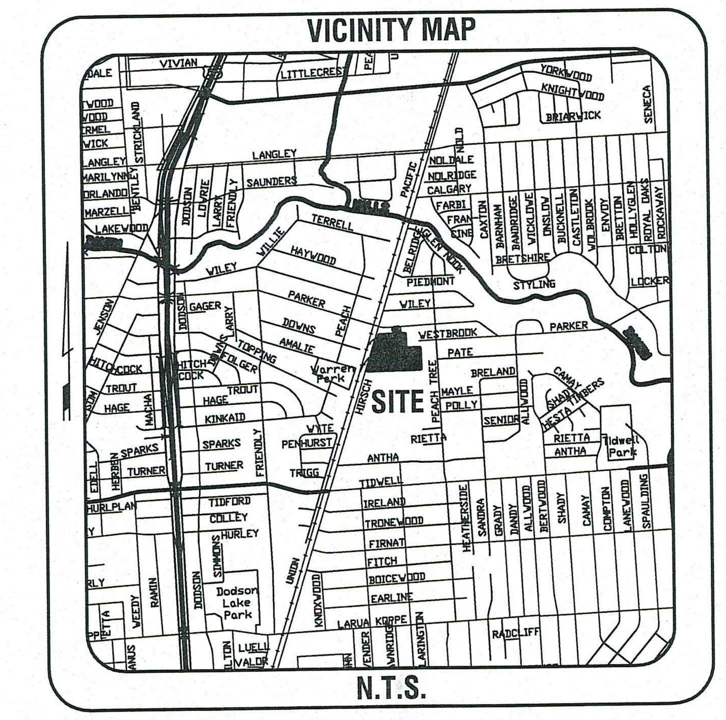
6. THIS SURVEY WAS PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT AT THE REQUEST OF AECOM AND MAY NOT SHOW ALL ENCUMBRANCES OF RECORD. THE BUILDER MUST VERIFY ALL BUILDING LINES, EASEMENTS, RESTRICTIONS AND ORDINANCES, IF ANY, THAT MAY AFFECT SUBJECT PROPERTY PRIOR TO STARTING CONSTRUCTION. THIS SURVEY DOES NOT CONSTITUTE A TITLE SEARCH BY THE SURVEYOR. SURVEYOR RECOMMENDED THAT A CURRENT TITLE REPORT SHOULD HAVE BEEN OBTAINED.

7. A GROUND AND/OR AERIAL EASEMENT MAY EXIST ADJACENT TO ANY EXISTING UTILITY. OWNER/BUILDER MUST VERIFY CLEARANCE OF UTILITIES AND EASEMENTS WITH APPLICABLE UTILITY COMPANIES PRIOR TO PLANNING AND/OR CONSTRUCTION.

8. BURIED UTILITIES HAVE NOT BEEN SHOWN, VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

9. THIS SURVEY DOES NOT ADDRESS ARCHITECTURAL PROTRUSIONS SUCH AS EAVES, OVERHANGS, WINDOW LEDGES, ETC. IN RELATION TO EASEMENTS AND/OR BUILDING LINES.





FLOOD INFORMATION

F.I.R.M. NO. 48201C PANEL: 0680L
REVISED DATE 6-18-2007 ZONE: "X"

FLOOD INFORMATION PROVIDED HEREON IS BASED ON SCALING THE LOCATION OF THE SUBJECT TRACT ON THE FLOOD INSURANCE RATE MAPS. THE INFORMATION SHOULD BE USED TO DETERMINE FLOOD INSURANCE RATES ONLY AND IS NOT INTENDED TO IDENTIFY SPECIFIC FLOODING CONDITIONS. WE ARE NOT RESPONSIBLE FOR THE F.I.R.M.'S ACCURACY.

FIELD DESCRIPTIONS

A tract of land containing 14.98 acres (652,737 square feet) being all of lot 58 & 59 of Clayton Place as recorded in Volume 29, Page 46 Harris County Map Records (H.C.M.R.), all of a tract of land described to R.C. Transportations Inc. as recorded in Harris County Clerks File (H.C.C.F.) No. 20110324568, all of a tract of land described to R.C. Transportations Inc. as recorded in Harris County Clerks File (H.C.C.F.) No. 20110324567 and all of a tract described to Chemetall US Inc. as recorded in H.C.C.F. No. N307211 out of the M Terrel Survey, Abstract 772, said 14.98 acres being more particularly described by metes and bounds as follows:

Beginning at a found concrete monument being on the East right-of-way line of Hirsh Road (100' ROW), Southwest corner of said Clayton Place and Northwest corner of herein described tract;

Thence South 89°36'00" East along the South line of said Clayton Place and North line of herein described tract a distance of 124.95 feet to a found 1 inch iron pipe being the Southeast corner of lot 61 and Southwest corner of lot 59 for an interior corner of herein described tract;

Thence North 00°24'00" East along the East line of said lot 61 and West line of said lot 59 a distance of 53.84 feet to a found 1/2 inch iron pipe being the Northeast corner of said lot 61, the South corner of lot 60 and Northwest corner of lot 59 for an exterior corner of herein described tract;

Thence North 42°44'00" East along the East line of lot 60 and Northwest line of lot 59 a distance of 70.55 feet to a found 1/2 inch iron pipe being the Northeast corner of lot 60, on the West right-of-way line of Lockwood Drive (80' ROW) and exterior corner of herein described tract, said point being on a curve to the right;

Thence along said curve to the right having a radius of 331.69 feet, a delta of 22°51'03", a length of 132.29 feet and having a chord of S 35°50'06" E a distance of 131.41 to a set 5/8 inch iron rod with "TRI-TECH" cap being the Southeast corner of lot 59, Southwest corner of said Lockwood Drive, and interior corner of herein described tract;

Thence South 89°36'00" East along the South line of said Clayton Place and North line of herein described tract a distance of 85.95 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being on the southeast corner of the right-of-way line of Lockwood Drive (80' ROW), Southwest corner of said lot 58 and interior corner of herein described tract, said point being the beginning of a curve to the left;

Thence along said curve to the left having a radius of 411.69 feet, a delta of 15°00'12", a length of 107.80 feet and having a chord of N 26°53'43" W a distance of 107.50 to a set 5/8 inch iron rod with "TRI-TECH" cap being on the Southeast radius for the intersection of the East right-of-way line of said Lockwood Drive and Parker Road (60' ROW) for corner of herein described tract, said point being the beginning of a curve to the right;

Thence along said curve to the right having a radius of 25.00 feet, a delta of 124°27'00", a length of 54.30 feet and having a chord of N 28°10'30" E a distance of 44.24 to a found ½ inch iron pipe being on the Northeast radius for the intersection of the East right-of-way line of said Lockwood Drive and South right-of-way line of said Parker Road for corner of herein described tract;

Thence South 89°36'00" East along the South line of said Parker Road and North line of herein described tract a distance of 81.99 feet to a found ¾ inch iron pipe being on the South right-of-way line of said Parker Road, the Northeast corner of said lot 58, Northwest corner of lot for corner of herein described tract;

Thence South 05°53'38" West along the West line of said lot 57 and east line of herein described tract a distance of 135.49 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being the Southwest corner of said lot 57, and interior corner of herein described tract;

Thence South 89°36'00" East along the south line of said Clayton Place and North line of herein described tract a distance of 384.43 feet to a set 5/8 inch iron rod with "TRI-TECH" cap being on the South line of said Clayton Place, the Northwest corner of a Bristol Place as recorded in Volume 29, Page 58 H.C.M.R. and Northeast corner of herein described tract;

Thence South 00°38'51" West along the West line of said Bristol Place and East line of herein described tract a distance of 690.09 feet to a point being in the center of a drainage ditch being on the West line of said Bristol Place, the Northeast corner of a tract described to Reece Florastine as recorded in H.C.C.F. No. 20120278415 and Southeast corner of herein described tract;

Thence North 89°36'00" West along the centerline of said drainage ditch, the South line of said Florastine tract and South line of herein described tract at a distance of 321.48 feet pass a point being the Northwest corner of said Florastine tract and Northeast corner of a tract described to Reece Florastine as recorded in H.C.C.F. No. 20130228112, continuing along the same coarse at a distance of 107.21 feet pass a point being the Northwest corner of said Florastine tract and Northeast corner of a tract described to Juan Luevano as recorded in H.C.C.F. No. 201201820358, continuing along the same coarse at a distance of 214.56 feet pass a point being the Northwest corner of said Luevano tract and Northeast corner of a tract described to Frank Clark as recorded in H.C.C.F. No. H905455, continuing along the same coarse a total distance of 1043.05 feet (called 1040.81 feet) to a point being in the center of said drainage ditch, the Northwest corner of said Clark tract, on the right-of-way of said Hirsh Road and Southwest corner of herein described tract;

Thence North 20°51'07" East along the East right-of-way line of said Hirsh Road and West line of herein described tract at a distance of 595.11 feet (called 595.47 feet) pass a found concrete monument being the Northwest corner of said Chemetall tract and Southwest corner of said R.C. Transportation tract, continuing along the same coarse a total distance of 736.51 feet to the POINT OF BEGINNING and containing 14.98 acres of land.

ALTA/ACSM LAND TITLE SURVEY

Surveyor's Certification

I hereby certify that this survey was made on the ground under my supervision and completed on December 8, 2015 and that this drawing correctly represents the facts found at the time of survey and that this professional service substantially complies with the current Texas Society of Professional Surveyors Standards and Specifications for a Category 1A, Condition II Survey.

1/5/16

STATE OF TEXAS REGISTERED CODY L. CONDRON 5899 PROFESSIONAL LAND SURVEYOR

CODY L. CONDRON
Registered Professional Land Surveyor
Texas Registration Number: 5899
ccondron@tritechtx.com

THIS SURVEY IS NULL AND VOID WITHOUT THE ORIGINAL EMBOSSED SEAL AND SIGNATURE OF SURVEYOR.
THIS SURVEY IS VALID FOR THIS TRANSACTION ONLY.
© 2016, GLOBAL SURVEYORS, INC.

SHEET 1 OF 1

DRAWING INFORMATION
JOB NO.: 8805-15
CALCULATED BY: C. CONDRON
DRAWN BY: M. COX
SCALE: 1"=50'
BEARING BASE: REFERRED TO PLAT NORTH
FIELD CREW: G. HALLUM
PATH: G:\2015\GLOBAL\
PEN TABLE: TRI-TECH.CTB
DATE: 12-08-15
COGO VER. ADESK LDD 2004

LAND TITLE SURVEY
LOT SEE DESCRIPTION
BLOCK SEE DESCRIPTION
SUBDIVISION SEE DESCRIPTION
RECORDING SEE DESCRIPTION
BORROWER: ~
TITLE COMPANY: ~
GF. NO: ~
GF. EFFECTIVE DATE: ~
SURVEYED FOR: AECOM

10100 AND 10120 HIRSCH ROAD
HOUSTON, HARRIS COUNTY, TEXAS 77016

Global Surveyors, Inc.
An affiliate of Tri-Tech Surveying Company, L.P.
WWW.SURVEYINGCOMPANY.COM
10401 Westoffice Drive Phone: (713) 667-0800
Houston, Texas 77042 Fax: (713) 667-5848
FIRM Registration No. 10115900

GF 4912483

FORM 106

045-07-0748

SPECIAL

~~GENERAL~~ WARRANTY DEED

HOUSTON, TEXAS 77001

4912483

N307211

STATE OF TEXAS

COUNTY OF HARRIS

Know All Men By These Presents:

THAT, OAKITE PRODUCTS, INC., a Delaware corporation, having an address at 50 Valley Road, Berkeley Heights, New Jersey 07922

~~of Harris County, Texas~~, hereinafter called Grantor, (whether one or more), for and in consideration of the sum of Ten and No/100 ($10.00) Dollars cash and other good and valuable considerations in hand paid by

ON SURFACE TREATMENT, INC., a Delaware corporation, having an address at c/o Betrem Laboratories, 72 Readington Road, P.O. Box 5187, North Branch, New Jersey 08875

~~of Harris County, Texas~~, hereinafter called Grantee (whether one or more), receipt and sufficiency of which are hereby acknowledged and confessed:

has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto the said Grantee, the following described real property, together with all improvements thereon, more particularly described as follows, to-wit:

See Exhibit "A" attached hereto and made a part hereof.

by, through or under Grantor but not otherwise,

and other matters

TO HAVE AND TO HOLD the above described premises, together with, all and singular, the rights and appurtenances thereto in any wise belonging, unto the said Grantee, his heirs and assigns forever. And Grantor does hereby bind himself, his heirs, executors and administrators, to warrant and forever defend, all and singular, the said premises unto the said Grantee, his heirs and assigns, against every person whomsoever lawfully claiming or to claim the same or any part thereof. ~~Taxes for the current year have been prorated and are assumed by Grantee.~~ This conveyance is made and accepted subject to any and all restrictions, conditions, covenants, easements and reservations, if any, affecting the use of the premises conveyed herein, now of record in the County Clerk's Office in said County, and to all zoning laws, regulations and ordinances of municipal and/or other governmental authorities, if any, affecting the use of the premises conveyed herein.

When this Deed is executed by more than one person, or when the Grantee is more than one person, the instrument shall read as though pertinent verbs and pronouns were changed to correspond, and when executed by or to a corporation, or to a Trustee, the words "heirs, executors and administrators" or "heirs and assigns" shall be construed to mean "successors and assigns."

Executed on this the 27 day of AUGUST A.D., 19 81.

OAKITE PRODUCTS, INC.

William E. Conway, Jr. Vice President

Title Data, Inc. TX TDI27994 HA N307211.001

045-07-0749

STATE OF ~~TEXAS~~ NEW YORK
COUNTY OF ~~HARRIS~~ NEW YORK

Before me, the undersigned authority, on this day personally appeared

known to me to be the person (s)

whose name(s)_____subscribed to the foregoing instrument, and acknowledged to me that_____executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this_____day of_____, A.D. 19_____

_____
Notary Public in and for Harris County, Texas

STATE OF ~~TEXAS~~ NEW YORK
COUNTY OF ~~HARRIS~~ NEW YORK

Before me, the undersigned authority, on this day personally appeared

known to me to be the person(s)

whose name(s)_____subscribed to the foregoing instrument, and acknowledged to me that_____executed the same for the purposes and consideration therein expressed.

Given under my hand and seal of office this_____day of_____, A.D. 19_____

_____
Notary Public in and for Harris County, Texas

~~STATE OF TEXAS~~
DISTRICT OF COLUMBIA
~~COUNTY OF HARRIS~~

Before me, the undersigned authority, on this day personally appeared William E. Conway, Jr.

_____, known to me to be the person whose name is subscribed to the foregoing instrument for and as Vice President of Oakite Products, Inc.

, a corporation, and acknowledged to me that he executed the same for the purposes and consideration therein expressed, as the act and deed of said corporation, and in the capacity therein stated.

Given under my hand and seal of office this 28th day of August A.D. 19 91

Janet Q. Cadet
Notary Public in and for District of Columbia

My Commission Expires Aug 14 1992

SPECIAL
~~GENERAL~~ WARRANTY DEED

Oakite Products, Inc.

TO

CH Surface Treatment, Inc.

RETURN TO:
Kaye, Scholer, Fierman, Hays & Handler
425 Park Avenue
New York, New York 10022
Attn: Lisa E. Kadin, Esq.

Title Data, Inc. TX TDI27994 HA N307211.002

[TX]

045-07-0750

EXHIBIT A

Description of the Land

11.602 acres of land in the M.B. Terrell Survey, Abstract No. 772, Harris County, Texas, more particularly described as follows:

COMMENCING at the intersection of the south line of Parker Road based on a width of 80 feet with the East line of Hirsch Road based on a width of 100 feet;

THENCE South 20° 28' W, along the East line of Hirsch Road, at 183.5 feet passing a concrete monument marking the Southwest corner of Block 5, Clayton Place Subdivision, and at 326.45 feet in all to a concrete monument at the PLACE OF BEGINNING;

THENCE S. 69° 32' E, 279.32 feet to a concrete monument;

THENCE S. 0° 45' 40" W, 53.45 feet to a concrete monument;

THENCE S. 89° 12' 50" E, 289.87 feet to a concrete monument;

THENCE N 0° 06' W, 285.53 feet to a concrete monument in the South line of Block 4, Clayton Place Subdivision;

THENCE S. 89° 36' E, 288.35 feet along the South line of said Block 4 to a concrete monument;

THENCE S. 0° 25' W, 690.8 feet along the West line of Bristol Place Subdivision to an iron rod;

THENCE N 89° 36' W, 1040.81 feet to an iron rod in the East line of Hirsch Road;

THENCE N 20° 28' E, 592.47 feet along the East line of Hirsch Road to the PLACE OF BEGINNING.

AND SAVE AND EXCEPT a 1.8879 Acre Tract conveyed to Georgia-Pacific Corporation in Deed dated December 27, 1976, under Harris County Clerk's File No(s). F091677 and being more particularly described as follows:

A 1.8879 Acre Tract out of the Northeast corner of a 11.602 Acre Tract of Land recorded in Volume 7671, Page 116, of the Deed Records of Harris County, Texas, in the M.B. Terrell Survey, Abstract No. 772, Harris County, Texas, and being more particularly described as follows:

045-07-0751

[TX]

BEGINNING at a concrete monument found for the Northeast corner of said 11.602 acre tract for the Northeast corner of this tract;
THENCE S 0° 25' W along the Easterly line of said 11.602 acre tract and the Westerly line of Bristol Place Subdivision, a distance of 287.45 feet to a 5/8 inch iron rod for corner in fence line;

THENCE N 89° 12' 50" W, a distance of 285.78 feet to a 5/8 inch iron rod set for corner of this tract and also marking an interior corner of said 11.602 acre tract, from which a concrete monument bears N 89° 12' 50" W along a Northerly line of said 11.602 acre tract, a distance of 289.87 feet;

THENCE N 0° 06' W, along a Westerly line of said 11.602 acre tract, a distance of 285.53 feet to a concrete monument in the Southerly line of Block 4, Clayton Place, a Subdivision recorded in Volume 29, Page 46, of the Map Records of Harris County, Texas;

THENCE S 89° 36' E, along the Southerly line of said Block 4, a distance of 288.35 feet to the PLACE OF BEGINNING and containing 1.8879 acres of land, more or less.

10100 Hirsch Road
Houston, Texas

DPR\CAR148\KNOWALL.TX

ANY PROVISION HEREIN WHICH RESTRICTS THE SALE, RENTAL, OR USE OF THE DESCRIBED REAL PROPERTY BECAUSE OF COLOR OR RACE IS INVALID AND UNENFORCEABLE UNDER FEDERAL LAW.
THE STATE OF TEXAS }
COUNTY OF HARRIS }
I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me; and was duly RECORDED, in the Official Public Records of Real Property of Harris County, Texas on

SEP 4 1991

COUNTY CLERK,
HARRIS COUNTY, TEXAS

FILED
91 SEP -4 PM 3:19
COUNTY CLERK
HARRIS COUNTY, TEXAS

RECORDER'S MEMORANDUM:
At the time of recordation, this instrument was found to be inadequate for the best photographic reproduction because of illegibility, carbon or photo copy, discolored paper, etc. All blockouts, additions and changes were present at the time the instrument was filed and recorded.

20110324567
08/04/2011 ER $40.00

WD
A

NE
ADJ

ER 025 - 64 - 0614

NOTICE OF CONFIDENTIALITY RIGHTS: IF YOU ARE A NATURAL PERSON, YOU MAY REMOVE OR STRIKE ANY OR ALL OF THE FOLLOWING INFORMATION FROM ANY INSTRUMENT THAT TRANSFERS AN INTEREST IN REAL PROPERTY BEFORE IT IS FILED FOR RECORD IN THE PUBLIC RECORDS: YOUR SOCIAL SECURITY NUMBER OR YOUR DRIVER'S LICENSE NUMBER.

SPECIAL WARRANTY DEED

THE STATE OF TEXAS §
§ KNOW ALL PERSONS BY THESE PRESENTS:
COUNTY OF HARRIS §

THAT DALLAS CHEMICAL TECHNOLOGIES, INC., a New Jersey corporation (hereinafter referred to as "***Grantor***"), for and in consideration of the sum of TEN AND NO/100 DOLLARS ($10.00) cash and other good and valuable consideration in hand paid by R.C. TRANSPORTATION INC., a Texas corporation (hereinafter referred to as "***Grantee***"), whose address is P.O. Box 3005, Spring, Texas 77383-3005, the receipt and sufficiency of which is hereby acknowledged and confessed, has GRANTED, SOLD and CONVEYED, and by these presents does GRANT, SELL and CONVEY unto Grantee the real property (the "***Land***"), being more particularly described on ***Exhibit "A"*** attached hereto and made a part hereof, together with any and all improvements situated on the Land (the "***Improvements***"); and all right, title and interest of Grantor, if any, in and to any and all appurtenances, strips or gores, roads, easements, streets, and rights-of-way bounding the Land; licenses, permits, entitlements, and bonds, if any, and all other rights and benefits attributable to the Land; and all rights of ingress and egress thereto (collectively, the "***Additional Interests***") (the Land, Improvements and Additional Interests being collectively called the "***Property***"). 1EE

TO HAVE AND TO HOLD the Property, together with the rights and appurtenances thereto belonging, unto Grantee and Grantee's successors and assigns, forever; and Grantor does hereby bind Grantor and Grantor's successors and assigns to warrant and forever defend the Property unto Grantee and Grantee's successors and assigns against every person whomsoever lawfully claiming or to claim the same or any part thereof, by, through or under Grantor, but not otherwise.

However, this conveyance is made subject to all matters listed on ***Exhibit B*** (the "***Permitted Exceptions***") attached hereto and made a part hereof to the extent that they are in effect and apply to the Property.

All ad valorem taxes and assessments for the Property for the year in which this Deed is executed have been prorated by the parties hereto and Grantee hereby expressly assumes liability for the payment thereof.

EXCEPT FOR THE REPRESENTATIONS, WARRANTIES AND COVENANTS SET FORTH IN SECTION 6 OF THE SALES CONTRACT BY AND BETWEEN GRANTOR AND GRANTEE DATED AS OF JULY 8, 2011 (AS AMENDED FROM TIME TO TIME, THE "AGREEMENT"), AND HEREIN, IN CONNECTION WITH THE

GF # 1120136836
UNIT 63/STEPHANIE ROMAN
STEWART TITLE COMPANY

CONVEYANCE OF THE PROPERTY AS PROVIDED FOR HEREIN, GRANTOR HAS NOT MADE AND DOES NOT MAKE ANY REPRESENTATIONS, WARRANTIES OR COVENANTS OF ANY KIND OR CHARACTER WHATSOEVER, WHETHER EXPRESS OR IMPLIED, WITH RESPECT TO THE QUALITY OR CONDITION OF THE PROPERTY, THE SUITABILITY OF THE PROPERTY FOR ANY AND ALL ACTIVITIES AND USES WHICH GRANTEE MAY CONDUCT THEREON, COMPLIANCE BY THE PROPERTY WITH ANY LAWS, RULES, ORDINANCES OR REGULATIONS OF ANY APPLICABLE GOVERNMENTAL AUTHORITY, OR HABITABILITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, AND SPECIFICALLY, GRANTOR DOES NOT MAKE ANY REPRESENTATIONS REGARDING HAZARDOUS WASTE, AS DEFINED BY THE LAWS OF THE STATE OF TEXAS AND ANY REGULATIONS ADOPTED PURSUANT THERETO OR THE U.S. ENVIRONMENTAL PROTECTION AGENCY REGULATIONS AT 40 C.F.R., PART 261, OR THE DISPOSAL OF ANY HAZARDOUS WASTE OR ANY OTHER HAZARDOUS OR TOXIC SUBSTANCES IN OR ON THE PROPERTY. GRANTEE ACCEPTS THE PROPERTY IN ITS PRESENT AS IS CONDITION WITH ALL FAULTS.

GRANTEE ACKNOWLEDGES AND AGREES THAT GRANTEE IS EXPERIENCED IN THE OWNERSHIP, DEVELOPMENT AND/OR OPERATION OF PROPERTIES SIMILAR TO THE PROPERTY AND THAT GRANTEE HAS INSPECTED THE PROPERTY TO ITS SATISFACTION AND IS QUALIFIED TO MAKE SUCH INSPECTION. GRANTEE ACKNOWLEDGES THAT IT IS FULLY RELYING ON GRANTEE'S (OR GRANTEE'S REPRESENTATIVES') INSPECTIONS OF THE PROPERTY AND, EXCEPT FOR GRANTOR'S REPRESENTATIONS AND WARRANTIES IN THE AGREEMENT, NOT UPON ANY STATEMENT (ORAL OR WRITTEN) WHICH MAY HAVE BEEN MADE OR MAY BE MADE (OR PURPORTEDLY MADE) BY GRANTOR OR ANY OF ITS REPRESENTATIVES. GRANTEE ACKNOWLEDGES THAT GRANTEE HAS (OR GRANTEE'S REPRESENTATIVES HAVE) THOROUGHLY INSPECTED AND EXAMINED THE PROPERTY TO THE EXTENT DEEMED NECESSARY BY GRANTEE IN ORDER TO ENABLE GRANTEE TO EVALUATE THE CONDITION OF THE PROPERTY AND ALL OTHER ASPECTS OF THE PROPERTY (INCLUDING, BUT NOT LIMITED TO, THE ENVIRONMENTAL CONDITION OF THE PROPERTY); AND GRANTEE ACKNOWLEDGES THAT GRANTEE IS RELYING SOLELY UPON ITS OWN (OR ITS REPRESENTATIVES') INSPECTION, EXAMINATION AND EVALUATION OF THE PROPERTY. FROM THE CLOSING DATE, GRANTEE HEREBY EXPRESSLY ASSUMES ALL RISKS, LIABILITIES, CLAIMS, DAMAGES AND COSTS (AND AGREES THAT GRANTOR SHALL NOT BE LIABLE FOR ANY SPECIAL, DIRECT, INDIRECT, CONSEQUENTIAL OR OTHER DAMAGES) RESULTING OR ARISING FROM OR RELATED TO THE OWNERSHIP, USE, CONDITION, LOCATION, MAINTENANCE, REPAIR OR OPERATION OF THE PROPERTY ATTRIBUTABLE TO THE PERIOD FROM AND AFTER THIS DATE. GRANTEE EXPRESSLY WAIVES (TO THE EXTENT ALLOWED BY APPLICABLE LAW) ANY CLAIMS UNDER FEDERAL, STATE OR OTHER LAW THAT GRANTEE MIGHT OTHERWISE HAVE AGAINST GRANTOR RELATING TO THE USE, CHARACTERISTICS OR CONDITION OF THE PROPERTY EXCEPT AS OTHERWISE SPECIFICALLY PROVIDED BY THE AGREEMENT.

ER 025 - 64 - 0615

EXECUTED on this the 22nd day of July, 2011, EFFECTIVE the 25 day of July, 2011.

GRANTOR:

DALLAS CHEMICAL TECHNOLOGIES, INC., 10R
a New Jersey corporation

By: _____
Robert H. Dallas II, Chief Executive Officer

THE STATE OF New Jersey §
§
COUNTY OF Hunterdon §

This instrument was acknowledged before me, the undersigned authority, on this 22nd day of July, 2011 by Robert H. Dallas II, Chief Executive Officer, of Dallas Chemical Technologies, Inc., a New Jersey corporation, for and on behalf of said corporation.

Diane Tracy
Notary Public in and for the State of New Jersey

DIANE TRACY
NOTARY PUBLIC OF NEW JERSEY
My Commission Expires January 9, 2016

EXHIBITS
Exhibit A - Property Description
Exhibit B - Permitted Exceptions

After recording return to:
Stephanie Roman
Stewart Title Company
4141 Southwest Freeway, Suite 350
Houston, Texas 77027

ER 025 - 64 - 0616

100 TRUE COPY

EXHIBIT A

Legal Description

TRACT I:

A 2.905 acre tract of land, more or less, in the M.B. Terrell Survey, Abstract No. 772, Harris County, Texas, more particularly described as follows:

D

COMMENCING at the intersection of the south line of Parker Road based on a width of 80 feet with the east line of Hirsch Road on a width of 100 feet;

THENCE S. 20° 28' W. along the east line of Hirsch Road, at 183.5 feet passing a concrete monument marking the southwest corner of Block 5, Clayton Place Subdivision (and the northwest corner of this tract) and at 326.45 feet in all to a concrete monument at the PLACE OF BEGINNING;

THENCE S. 69° 32' E. 279.32 feet to a concrete monument;

THENCE S. 0° 45' 40" W. 53.45 feet to a concrete monument;

THENCE S. 89° 12' 50" E. 289.53 feet to a concrete monument;

THENCE N. 0° 06' W. 285.53 feet to a concrete monument in the south line of Block 4, Clayton Place Subdivision;

THENCE S. 89° 36' W. 500.35 feet along the south line of said Block 4 to a concrete monument, being the northwest corner of this tract;

THENCE S. 20° 28' W. 142.95 feed along the east line of Hirsch Road to the PLACE OF BEGINNING.

TRACT II:

A 1.8879 acre tract out of the Northeast corner of a 11.602 acre tract of land recorded in Volume 7671, Page 116, of the Harris County Deed Records, in the M. B. Terrell Survey, Abstract 7722, Harris County, Texas, and being more particularly described as follows:

BEGINNING at a concrete monument found for the Northeast corner of said 11.602 acre tract for the Northeast corner of this tract;

THENCE S 0° 25' W, along the easterly line of said 11.602 acre tract and the westerly line of Bristol Place Subdivision, a distance of 287.45 feet to a 5/8 inch iron set for corner in fence line;

THENCE N 89° 12' 50" W. a distance of 285.78 feet to a 5/8 inch iron rod set for corner of this tract and also marking an interior corner of said 11.602 acre tract, from which a concrete monument bears N 89° 12' 50" W along a northerly line of said 11.602 acre tract, a distance of 289.87 feet;

THENCE N 0° 66' W. along westerly line of said 11.602 acre tract, a distance of 285.53 feet to a concrete monument in the Southerly line of Block 4, Clayton Place, a Subdivision recorded in Volume 29, Page 46 of the Harris County Map Records, for corner;

THENCE S 89° 36' E. along the southerly line of said Block 4, a distance of 288.35 feet to the PLACE OF BEGINNING and containing 1.8879 acres of land, more or less.

UNOFFICIAL COPY

ER 025 - 64 - 0617

TRACT III:

Lots 55, 56, 57 and 58, in Block 4 and Lot 59, in Block 5, of Clayton Place, according to map or plat thereof recorded in Volume 29, Page 46, of the Map Records of Harris County, Texas and being the same property described in Deeds filed for record under County Clerk's File No(s). D552881 and D789085, of the Official Public Records of Real Property of Harris County, Texas.

UNOFFICIAL COPY

ER 025 - 64 - 0618

EXHIBIT B

Permitted Exceptions

1. Restrictive covenants of record in Volume 29, Page 46 of the Map Records and Volume 2043, Page 231 of the Deed Records of Harris County, Texas, and in instruments recorded under Clerk's File Nos. V244360 and W502445 of the Real Property Records of Harris County, Texas.

2. An easement 10 feet wide along the south property line, and an aerial easement 5 feet wide from a plane 20 feet above the ground upward, located adjacent thereto for the use of public utilities, as recorded in Volume 29, Page 46 of the Map Records of Harris County, Texas.

3. An easement 5 feet wide along the west and northwest property line, and an aerial easement 5 feet wide from a plane 20 feet above the ground upward, located adjacent thereto for the use of public utilities, as recorded in Volume 29, Page 46 of the Map Records of Harris County, Texas.

4. Building setback line 25 feet in width along Parker Road and Lockwood Drive, as recorded in Volume 29, Page 46 of the Map Records of Harris County, Texas.

5. An easement 5 feet wide along all property line(s) and an aerial easement 5 feet wide from a plane 20 feet above the ground upward, located adjacent thereto for the use of public utilities, as recorded in Volume 2043, Page 231, in Volume 3188, Page 158, in Volume 3215, Page 449, in Volume 3248, Page 322, and in Volume 3497, Page 739 of the Deed Records of Harris County, Texas.

6. Ordinance by the City of Houston recorded in Volume 4997, Page 62 of the Deed Records of Harris County, Texas, establishing building line(s) along and for Lockwood Drive.

7. Utility easement granted to City of Houston by instrument recorded under Clerk's File No. U473134 of the Real Property Records of Harris County, Texas.

8. Agreement for Access Easement granted to Georgia-Pacific West, Inc. and Georgia-Pacific Corporation by instrument recorded under Clerk's File No. V244361 of the Real Property Records of Harris County, Texas.

9. Reservation of a 1/32nd royalty interest in and to all oil, gas and other minerals on, in, under or that may be produced from the subject property as set forth in instrument(s) recorded in Volume 3188, Page 158, in Volume 3215, Page 449, in Volume 3248, Page 322 and in Volume 3497, Page 739 of the Deed Records of Harris County, Texas.

10. Right of tenants, and assigns, as tenants only, under currently effective lease agreements.

ER 025 - 64 - 0619

Unofficial Copy

11. An easement for drainage purposes extending a distance of 15 feet on each side of the centerline of all natural drainage courses as reflected by the plat recorded in Volume 29, Page 46 of the Map Records of Harris County, Texas.

12. Subject to any easements, rights-of-way, roadways, encroachments, etc., which a survey or physical inspection of the premises might disclose.

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ER 025 - 64 - 0620

UNOFFICIAL COPY

NE ADJ

ER 025 - 64 - 0621

20110324567
Pages 8
08/04/2011 13:59:50 PM
e-Filed & e-Recorded in the
Official Public Records of
HARRIS COUNTY
STAN STANART
COUNTY CLERK
Fees 40.00

RECORDERS MEMORANDUM
This instrument was received and recorded electronically and any blackouts, additions or changes were present at the time the instrument was filed and recorded.

Any provision herein which restricts the sale, rental, or use of the described real property because of color or race is invalid and unenforceable under federal law.
THE STATE OF TEXAS
COUNTY OF HARRIS
I hereby certify that this instrument was FILED in File Number Sequence on the date and at the time stamped hereon by me; and was duly RECORDED in the Official Public Records of Real Property of Harris County, Texas.

Stan Stanart
COUNTY CLERK
HARRIS COUNTY, TEXAS

cad Acct: 0450760000014

Tuesday, November 10, 2015

Texas Comptroller Leadership Circle

Account Number | Address | Owner Name | ?

13-Digit Number | search

HOME ABOUT RECORD SEARCH FORMS MAPS RESOURCES VIDEOS HELP EN ESPAÑOL

Tax Year: 2015

HARRIS COUNTY APPRAISAL DISTRICT
REAL PROPERTY ACCOUNT INFORMATION
0450760000014

Print E-mail

File A Protest | Similar Owner Name | Nearby Addresses | Same Street Name | Related Map 5561A

Ownership History

Owner and Property Information

Owner Name & Mailing Address:	**CHEMETALL US INC** **675 CENTRAL AVE** **NEW PROVIDENCE NJ 07974-1560**	Legal Description:	**TR 13C** **ABST 772 M TERRELL**
		Property Address:	**10100 HIRSCH RD** **HOUSTON TX 77016**

State Class Code	Land Use Code	Building Class	Total Units
F1 -- Real, Commercial	8000 -- Land Neighborhood General Assignment	E	0

Land Area	Total Living Area	Net Rentable Area	Neighborhood	Market Area	Map Facet	Key Map®
422,967 SF	0	0	9410	504 --	5561A	454C

Value Status Information

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/03/2015	No

Exemptions and Jurisdictions

Exemption Type	Districts	Jurisdictions	Exemption Value	ARB Status	2014 Rate	2015 Rate	Online Tax Bill
None	001	HOUSTON ISD		Certified: 08/14/2015	1.196700	1.196700	View
	040	HARRIS COUNTY		Certified: 08/14/2015	0.417310		
	041	HARRIS CO FLOOD CNTRL		Certified: 08/14/2015	0.027360		
	042	PORT OF HOUSTON AUTHY		Certified: 08/14/2015	0.015310		
	043	HARRIS CO HOSP DIST		Certified: 08/14/2015	0.170000		
	044	HARRIS CO EDUC DEPT		Certified: 08/14/2015	0.005999		
	048	HOU COMMUNITY COLLEGE		Certified: 08/14/2015	0.106890		
	061	CITY OF HOUSTON		Certified: 08/14/2015	0.631080		

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Valuations

Value as of January 1, 2014			Value as of January 1, 2015		
	Market	Appraised		Market	Appraised
Land	118,810		Land	118,810	
Improvement	11,057		Improvement	11,261	
Total	129,867	129,867	Total	130,071	130,071

5-Year Value History

Land

Market Value Land

cad Acct: 0430760000014

Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	8000 -- Land Neighborhood General Assignment	4393	AC	3.0000	1.00	1.00	1.00	--	1.00	15,246.00	15,246.00	45,738.00
2	8000 -- Land Neighborhood General Assignment	4393	AC	6.7100	1.00	1.00	1.00	--	1.00	10,890.00	10,890.00	73,072.00

Building

Vacant (No Building Data)

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cad Acct: 0450760000015

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Owner Services | Similar Owner Name | Nearby Addresses | Same Street Name | Related Map 5561A

Ownership History | Fiduciary Information | Related Accounts

Owner and Property Information

Owner Name & Mailing Address:	**RC TRANSPORTATION INC** **PO BOX 3005** **SPRING TX 77383-3005**	Legal Description:	**TR 13B** **ABST 772 M TERRELL**
		Property Address:	**10120 HIRSCH RD** **HOUSTON TX 77016**

State Class Code	Land Use Code	Building Class	Total Units
F1 -- Real, Commercial	8000 -- Land Neighborhood General Assignment	E	0

Land Area	Total Living Area	Net Rentable Area	Neighborhood	Market Area	Map Facet	Key Map®
126,542 SF	24,912	0	9410	6008 -- Near North	5561A	454C

Value Status Information

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/03/2015	No

Exemptions and Jurisdictions

Exemption Type	Districts	Jurisdictions	Exemption Value	ARB Status	2014 Rate	2015 Rate	Online Tax Bill
None	001	HOUSTON ISD		Supplemental: 10/09/2015	1.196700	1.196700	View
	040	HARRIS COUNTY		Supplemental: 10/09/2015	0.417310		
	041	HARRIS CO FLOOD CNTRL		Supplemental: 10/09/2015	0.027360		
	042	PORT OF HOUSTON AUTHY		Supplemental: 10/09/2015	0.015310		
	043	HARRIS CO HOSP DIST		Supplemental: 10/09/2015	0.170000		
	044	HARRIS CO EDUC DEPT		Supplemental: 10/09/2015	0.005999		
	048	HOU COMMUNITY COLLEGE		Supplemental: 10/09/2015	0.106890		
	061	CITY OF HOUSTON		Supplemental: 10/09/2015	0.631080		

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Valuations

Value as of January 1, 2014			Value as of January 1, 2015		
	Market	Appraised		Market	Appraised
Land	94,907		Land	94,907	
Improvement	242,033		Improvement	261,142	
Total	336,940	336,940	Total	356,049	356,049

5-Year Value History

Land

Market Value Land

cad Acct: 0450760000015

Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	8000 -- Land Neighborhood General Assignment	4399	SF	126,542	1.00	1.00	1.00	--	1.00	0.75	0.75	94,907.00

Building

Building	Year Built	Type	Style	Quality	Impr Sq Ft	Building Details
1	1972	Warehouse - Metallic	8494 -- Industrials, Light Mftg.	Average	10,212	Displayed
3	1976	Warehouse - Metallic	8454 -- Shell, Industrial	Average	3,500	View
4	1972	Warehouse - Metallic	8454 -- Shell, Industrial	Average	2,800	View
5	1999	Warehouse - Metallic	8454 -- Shell, Industrial	Average	7,200	View
6	1976	Warehouse - Metallic	8454 -- Shell, Industrial	Average	1,200	View

Building Details (1)

Building Data	
Element	Details
Cooling Type	None
Construction Type	Steel, Light
Functional Utility	Poor
Heating Type	None
Partition Type	Normal
Physical Condition	Poor
Plumbing Type	Adequate
Sprinkler Type	None
Exterior Wall	Metal, Light
Economic Obsolescence	Fair
Market Adjustment	5% Market Adjustment
Element	Units
Wall Height	24
Wall Height	18
Interior Finish Percent	100
Office Warehouse Ratio	0.02

Building Areas	
Description	Area
	176
BASE AREA PRI	10,212
LDNG RAMP CONC -C	162
CNPY ROOF W/ SLAB -C	684

Extra Features	
Description	Units
Dock Level Floor	2
Enclosure, Storage	1
Enclosure, Storage	1
Loading Ramp, Concrete	2
Paving - Asphalt	1
UTILITY BLDG - FRAME	1

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Owner Services | Similar Owner Name | Nearby Addresses | Same Street Name | Related Map 5561A

Ownership History | Fiduciary Information | Related Accounts

Owner and Property Information

Owner Name & Mailing Address:	**RC TRANSPORTATION INC** **PO BOX 3005** **SPRING TX 77383-3005**	Legal Description: Property Address:	**TR 13D** **ABST 772 M TERRELL** **0 HIRSCH RD** **HOUSTON TX 77016**

State Class Code	Land Use Code	Building Class	Total Units
C2 -- Real, Vacant Commercial	8000 -- Land Neighborhood General Assignment	E	0

Land Area	Total Living Area	Net Rentable Area	Neighborhood	Market Area	Map Facet	Key Map®
82,236 SF	0	0	9410	3120 -- North Forest ISD	5561A	454C

Value Status Information

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/03/2015	No

Exemptions and Jurisdictions

Exemption Type	Districts	Jurisdictions	Exemption Value	ARB Status	2014 Rate	2015 Rate	Online Tax Bill
None	001	**HOUSTON ISD**		Supplemental: 10/09/2015	1.196700	1.196700	View
	040	**HARRIS COUNTY**		Supplemental: 10/09/2015	0.417310		
	041	**HARRIS CO FLOOD CNTRL**		Supplemental: 10/09/2015	0.027360		
	042	**PORT OF HOUSTON AUTHY**		Supplemental: 10/09/2015	0.015310		
	043	**HARRIS CO HOSP DIST**		Supplemental: 10/09/2015	0.170000		
	044	**HARRIS CO EDUC DEPT**		Supplemental: 10/09/2015	0.005999		
	048	**HOU COMMUNITY COLLEGE**		Supplemental: 10/09/2015	0.106890		
	061	**CITY OF HOUSTON**		Supplemental: 10/09/2015	0.631080		

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Valuations

Value as of January 1, 2014			Value as of January 1, 2015		
	Market	Appraised		Market	Appraised
Land	23,848		Land	23,848	
Improvement	0		Improvement	0	
Total	23,848	23,848	Total	23,848	23,848

5-Year Value History

Land

Market Value Land

cad Acct: 0450760000016

Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	8000 -- Land Neighborhood General Assignment	4300	SF	82,236	1.00	1.00	0.58	--	0.58	0.50	0.29	23,848.0(

Building

Vacant (No Building Data)

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cad Acct: 0760430040062

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REAL PROPERTY ACCOUNT INFORMATION
0760430040062

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Owner Services | Similar Owner Name | Nearby Addresses | Same Street Name | Related Map 5561A

Ownership History | Fiduciary Information | Related Accounts

Owner and Property Information

Owner Name & Mailing Address:	**RC TRANSPORTATION INC** **PO BOX 3005** **SPRING TX 77383-3005**	Legal Description: Property Address:	**LT 58 BLK 4** **CLAYTON PLACE** **10120 HIRSCH RD** **HOUSTON TX 77016**

State Class Code	Land Use Code	Building Class	Total Units
F1 -- Real, Commercial	8000 -- Land Neighborhood General Assignment	E	0

Land Area	Total Living Area	Net Rentable Area	Neighborhood	Market Area	Map Facet	Key Map®
10,241 SF	1,200	0	9410	6008 -- Near North	5561A	454C

Value Status Information

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/03/2015	No

Exemptions and Jurisdictions

Exemption Type	Districts	Jurisdictions	Exemption Value	ARB Status	2014 Rate	2015 Rate	Online Tax Bill
None	001	HOUSTON ISD		Supplemental: 10/09/2015	1.196700	1.196700	View
	040	HARRIS COUNTY		Supplemental: 10/09/2015	0.417310		
	041	HARRIS CO FLOOD CNTRL		Supplemental: 10/09/2015	0.027360		
	042	PORT OF HOUSTON AUTHY		Supplemental: 10/09/2015	0.015310		
	043	HARRIS CO HOSP DIST		Supplemental: 10/09/2015	0.170000		
	044	HARRIS CO EDUC DEPT		Supplemental: 10/09/2015	0.005999		
	048	HOU COMMUNITY COLLEGE		Supplemental: 10/09/2015	0.106890		
	061	CITY OF HOUSTON		Supplemental: 10/09/2015	0.631080		

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Valuations

Value as of January 1, 2014			Value as of January 1, 2015		
	Market	Appraised		Market	Appraised
Land	10,241		Land	10,241	
Improvement	28,905		Improvement	30,231	
Total	39,146	39,146	Total	40,472	40,472

5-Year Value History

Land

Market Value Land

cad Acct: 0760430040062

Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	8000 -- Land Neighborhood General Assignment	4399	SF	10,241	1.00	1.00	1.00	--	1.00	1.00	1.00	10,241.00

Building

Building	Year Built	Type	Style	Quality	Impr Sq Ft	Building Details
1	1960	Warehouse - Metallic	8454 -- Shell, Industrial	Average	1,200	Displayed

Building Details (1)

Building Data	
Element	Details
Cooling Type	Central / Forced
Construction Type	Steel, Light
Functional Utility	Fair
Heating Type	Hot Air
Partition Type	Normal
Physical Condition	Fair
Plumbing Type	Adequate
Sprinkler Type	None
Exterior Wall	Metal, Light
Economic Obsolescence	Moderate
Element	Units
Wall Height	10
Office Warehouse Ratio	1
Interior Finish Percent	100

Building Areas	
Description	Area
BASE AREA PRI	1,200
CNPY ROOF W/ SLAB -C	360

Extra Features	
Description	Units
CANOPY ROOF AND SLAB	1
Enclosure, Office	1
Paving - Asphalt	1

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0760430050059

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Owner Services | Similar Owner Name | Nearby Addresses | Same Street Name | Related Map 5561A

Ownership History | Fiduciary Information | Related Accounts

Owner and Property Information

Owner Name & Mailing Address:	**RC TRANSPORTATION INC** **PO BOX 3005** **SPRING TX 77383-3005**	Legal Description: Property Address:	**LT 59 BLK 5** **CLAYTON PLACE** **0 PARKER RD** **HOUSTON TX 77016**

State Class Code	Land Use Code	Building Class	Total Units
C2 -- Real, Vacant Commercial	8000 -- Land Neighborhood General Assignment	E	0

Land Area	Total Living Area	Net Rentable Area	Neighborhood	Market Area	Map Facet	Key Map®
9,100 SF	0	0	9410	3120 -- North Forest ISD	5561A	454C

Value Status Information

Capped Account	Value Status	Notice Date	Shared CAD
No	Noticed	04/03/2015	No

Exemptions and Jurisdictions

Exemption Type	Districts	Jurisdictions	Exemption Value	ARB Status	2014 Rate	2015 Rate	Online Tax Bill
None	001	HOUSTON ISD		Supplemental: 10/09/2015	1.196700	1.196700	View
	040	HARRIS COUNTY		Supplemental: 10/09/2015	0.417310		
	041	HARRIS CO FLOOD CNTRL		Supplemental: 10/09/2015	0.027360		
	042	PORT OF HOUSTON AUTHY		Supplemental: 10/09/2015	0.015310		
	043	HARRIS CO HOSP DIST		Supplemental: 10/09/2015	0.170000		
	044	HARRIS CO EDUC DEPT		Supplemental: 10/09/2015	0.005999		
	048	HOU COMMUNITY COLLEGE		Supplemental: 10/09/2015	0.106890		
	061	CITY OF HOUSTON		Supplemental: 10/09/2015	0.631080		

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Valuations

Value as of January 1, 2014			Value as of January 1, 2015		
	Market	Appraised		Market	Appraised
Land	2,639		Land	2,639	
Improvement	0		Improvement	0	
Total	2,639	2,639	Total	2,639	2,639

5-Year Value History

Land

Market Value Land

cad Acct: 0760430050059

Line	Description	Site Code	Unit Type	Units	Size Factor	Site Factor	Appr O/R Factor	Appr O/R Reason	Total Adj	Unit Price	Adj Unit Price	Value
1	8000 -- Land Neighborhood General Assignment	4300	SF	9,100	1.00	1.00	0.29	--	0.29	1.00	0.29	2,639.00

Building

Vacant (No Building Data)

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Appendix B

A description of the current use and, to the extent known, the anticipated use(s) of the designated property and properties within 500 feet of the boundary of the designated property.

Appendix B

A description of the current use, and, to the extent known, the anticipated use(s), of the designated property and properties within 500 feet of the boundary of the designated property.

Current Use of Designated Property

The Designated Property is 14.98 acres based on the Designated Property boundary survey and consists of five parcels. The current use of the Designated Property is described below:

10100 Hirsch Road (one parcel)

The 9.71-acre parcel (based on HCAD records) at 10100 Hirsch Road is owned by Chemetall. The current use of the property is vacant and undeveloped. The property was previously used by Oakite for commercial/industrial purposes for chemical manufacturing, blending, and distribution. The previous operations at the property were discontinued in December 2002. Buildings and structures related to the former Oakite operations were demolished as of December 2012. Concrete slabs remaining from the demolishing of the on-site buildings as well as driveways and related facilities are located mostly on the western part of the parcel. This property is partially fenced.

10120 Hirsch Road (4 parcels)

Since 2002, these four parcels, totaling 5.24 acres (based on HCAD records), have been owned by RC Transportation, Inc. These properties are used for commercial/industrial use for the transportation, transfer, storage, and shipping of bulk materials. Previous uses involved commercial/industrial activities involving chemical manufacturing, processing, and distribution until about 1988.

The graphic presented in **Table B-1** shows the ownership history of the Designated Property and the typical operations conducted during the indicated time periods.

Table B-1
Ownership History

	1945-1969		1969-1976		1976-1988		1988-2001		2001 2002		2002-2011		2011-Present	
	Owner	Ops	Owner	Ops	Owner	Ops	Owner	Ops	Owner	Ops	Owner	Ops	Owner	Ops
10120 Hirsch Rd.	Dixie Chemical	Manufacture PCP Glycols Solvents Chlorine solvents MEK (city directory)	Georgia Pacific	Processing Chrome Lignosulfate	Georgia Pacific	Processing Chrome Lignosulfate	Georgia Pacific	None	Orion Dallas Chemical	un documented	RC Transp.	Lignosul. storage and transfer	RC Transp.	Lignosul. storage & transfer
10100 Hirsch Rd.			Oakite Products	Trucking new pipe cleaning later Chrome Lignosulfate & chemicals blending	Oakite Products	Chemicals blending & Mfg.	Oakite Products	Chemicals blending & Mfg.	Chemetall (Oakite)	Chemicals blending & Mfg. closed '02	Chemetall (Oakite)	None	Chemetall (Oakite)	Building Demo

Chemical operations at 10100 Hirsch Road ceased

Anticipated Use of Designated Property

The anticipated use of the Designated Property is described below:

10100 Hirsch Road (one parcel)

There are no anticipated uses for the vacant property by the current owner.

10120 Hirsch Road (4 parcels)

The anticipated immediate use for these properties will continue to be commercial/industrial for the transportation, transfer, storage, and shipping of bulk materials.

Current and Anticipated Use of Properties within 500 feet of the Designated Property

The Designated Property lies approximately seven miles north of downtown Houston in an area of mixed commercial/industrial and residential development. The current and anticipated uses of properties within 500 feet of the Designated Property are:

- Commercial/Industrial: former gas station, storage lots, warehouses, railroad tracks, maintenance shops, scrap yard, and light manufacturing.
- Residential: established residential development consists primarily of single story wooden-framed houses on lots less than 0.25 acres. Parkland is also located within 500 feet of the Designated Property to the southwest.

- Numerous vacant and undeveloped properties are located within 500 feet of the Designated Property.

Figure B-1 presents a map of land uses in the area within 500 feet of the Designated Property.

Map Location

Land Use Within 500 Feet of Designated Property

10100 and 10120
Hirsch Road Properties

Legend

Designated Property

500 feet from Designated Property

0 150 300 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure B-1

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureB-1_AdjacentProperties.mxd

Appendix C

A site map showing:

a. The location of the designated property.

b. The topography of the designated property as indicated on publicly available sources, which must note the watershed including the nearest surface water body and whether the designated property is located in a floodplain or floodway, as those terms are defined in Chapter 19 of the Code of Ordinances.

c. The detected area of groundwater contamination.

d. The location of all soil sampling locations and all groundwater monitoring wells.

e. Groundwater gradients, to the extent known, and direction of groundwater flow.

f. The ingestion protective concentration level exceedence zone for each contaminant of concern, to the extent known.

g. Depth to groundwater for each affected zone.

Appendix C

A site map showing:

a. **The location of the designated property.**

b. **The topography of the designated property as indicated on publicly available sources, which must note the watershed including the nearest surface water body and whether the designated property is located in a floodplain or floodway, as those terms are defined in Chapter 19 of the Code of Ordinances.**

c. **The detected area of groundwater contamination.**

d. **The location of all soil sampling locations and all groundwater monitoring wells.**

e. **Groundwater gradients, to the extent known, and direction of groundwater flow.**

f. **The ingestion protective concentration level exceedence zone for each contaminant of concern, to the extent known.**

g. **Depth to groundwater for each affected zone.**

---

a. **Figure C-a - Designated Property Location Map.** Figure C-a shows the location of the Designated Property approximately seven miles north of downtown Houston.

b. **Figure C-b1 – Designated Property Topographic Map.** Figure C-b1 presents a topographic map of the area around the designated property. The Designated Property is mostly level with elevations between approximately 60 to 65 feet above mean sea level.

   Figure C-b2 – Floodplain Map. Figure C-b2 illustrates that, according to the Harris County Flood Control District (HCFCD) on-line Flood Education Mapping Tool, the Designated Property lays within the Greens Bayou Watershed. The nearest surface water body is the HCFCD drainage ditch P118-12-00 which is located along the southern part of the Designated Property. Surface water in the HCFCD ditch flows eastward for approximately 0.8 miles before reaching Halls Bayou. Halls Bayou is a tributary of Greens Bayou. Figure C-b2 also illustrates that the Designated Property does not lie in the floodway, 1% floodplain (100-year), or 0.2% floodplain (500-year).

c. **Figure C-c - Extent of Affected Groundwater.** Figure C-c presents the estimated extent of affected groundwater at the Designated Property. The estimated extent of affected groundwater is based on the most recent sampling results for chemicals of concern exceeding the residential assessment levels (RALs) equal to Residential Tier 1 $^{GW}GW_{Ing}$ PCLs as published by the TCEQ's Texas Risk Reduction Program (TRRP). There are 15 areas of groundwater exceedance totaling approximately 3.77 acres, of which approximately 0.1 acres are off-site. The estimated extent of affected groundwater has been delineated and is stable.

d. **Figure C-d1 – Soil Sampling Location Map.** Figure C-d1 presents the location of soil sampling locations from soil borings, piezometers, temporary monitoring wells, and monitoring wells.

Figure C-d2 – Groundwater Sampling Location Map. Figure C-d2 presents the location of groundwater sampling locations from piezometers, temporary monitoring wells, and monitoring wells.

Figure C-d3 – EHC-M Injection Point Location Map. Figure C-d3 shows the locations of EHC-M injection as part of the groundwater response actions.

e. **Figure C-e1 – Groundwater Elevation Map – March 26, 2013 and Figure C-e2 – Groundwater Elevation Map – January 7, 2014.** Figures C-e1 and C-e2 present the estimated direction of shallow groundwater flow based on depth to groundwater as measured at on-site groundwater wells for March 2013 and January 2014, respectively. Based on the available information, the groundwater flow direction in the uppermost groundwater-bearing unit is primarily from northwest to southeast, but can vary near the southern part of the Designated Property based on recent precipitation events.

f. The chemicals of concern (COCs) in the affected groundwater at the Designated Property detected at concentrations exceeding the ingestion PCLs (Residential Tier 1 $^{GW}GW_{Ing}$ PCL) are:

- Chlorobenzene,
- 1,1-Dichloroethene (1,1-DCE),
- 1,2-Dichloroethane (1,2-DCA),
- Cis-1,2-Dichloroethene (1,2-DCE),
- Tetrachloroethene (PCE),
- Trichloroethene (TCE),
- Vinyl Chloride (VC)
- Benzene,
- Ethylbenzene, and
- Methyl tert-butyl ether (MTBE).

Figures C-f1 through C-f9 present the estimated extent of individual COC exceedance zones in groundwater.

Figure C-f1 - Estimated Extent of Chlorobenzene Exceedance in Groundwater. Figure C-f1 presents the estimated ingestion PCL exceedance zone for the COC chlorobenzene, to the extent known.

Figure C-f2 - Estimated Extent of 1, 1-Dichloroethene Exceedance in Groundwater. Figure C-f1 presents the estimated ingestion PCL exceedance zone for the COC 1,1-dichloroethene (1,1-DCE), to the extent known.

Figure C-f3 - Estimated Extent of 1,2-Dichloroethane Exceedance in Groundwater. Figure C-f1 presents the estimated ingestion PCL exceedance zone for the COC 1,2-dichloroethane (1,2-DCA), to the extent known.

Figure C-f4 - Estimated Extent of cis-1,2-Dichloroethene Exceedance in Groundwater. Figure C-f4 presents the estimated ingestion PCL exceedance zone for the COC cis-1,2-dichloroethene (cis-1,2-DCE), to the extent known.

Figure C-f5 - Estimated Extent of Tetrachloroethene Exceedance in Groundwater. Figure C-f5 presents the estimated ingestion protective concentration level exceedance zone for the COC tetrachloroethene (PCE), to the extent known.

Figure C-f6 - Estimated Extent of Trichloroethene Exceedance in Groundwater. Figure C-f6 presents the estimated ingestion PCL exceedance zone for the COC trichloroethene (TCE), to the extent known.

Figure C-f7 - Estimated Extent of Vinyl Chloride Exceedance in Groundwater. Figure C-f7 presents the estimated ingestion PCL exceedance zone for the COC vinyl chloride (VC), to the extent known.

Figure C-f8 - Estimated Extent of Benzene Exceedance in Groundwater. Figure C-f8 presents the estimated ingestion PCL exceedance zone for the COC benzene, to the extent known.

Figure C-f9 - Estimated Extent of Ethylbenzene Exceedance in Groundwater. Figure C-f9 presents the estimated ingestion PCL exceedance zone for the COC ethylbenzene, to the extent known.

Figure C-f10 - Estimated Extent of Methyl Tert-Butyl Ether Exceedance in Groundwater. Figure C-f10 presents the estimated ingestion PCL exceedance zone for the COC methyl tert-butyl ether (MTBE), to the extent known.

g. **Figure C-g – Depth to Groundwater in the Affected Zone.** Figure C-g presents the depth to groundwater from the land surface for the affected zone at the Designated Property. The depth to groundwater in the affected zone ranges from approximately 10.8 feet to 16.7 feet.

Map Location

Designated Property Location Map

10100 and 10120
Hirsch Road Properties

0 1.8 3.6 Miles

N W E S

Georgia-Pacific

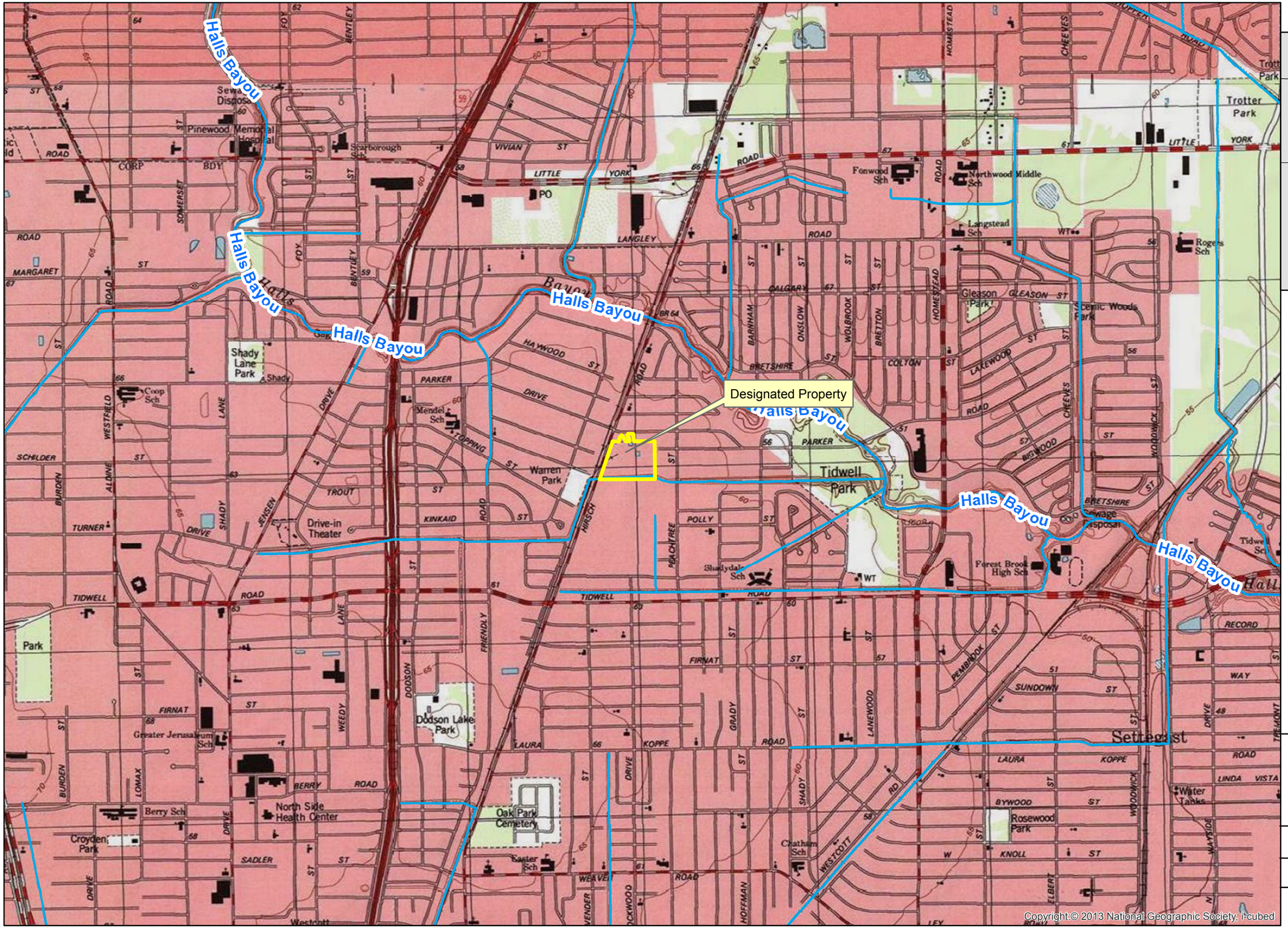
Chemetall expect more

Figure C-a

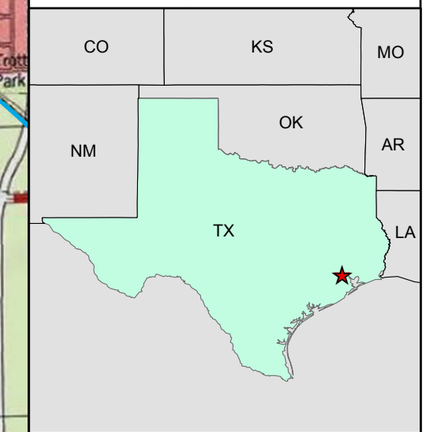
Date: April 2016

Datum: North American 1983
Aerial Source: ESRI OpenStreetMap
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-a_SiteMap_7_mile.mxd



Map Location



Designated Property Topographic Map

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- HCFCD Channels and Bayous

0 1,000 2,000 Feet

N W E S

Georgia-Pacific

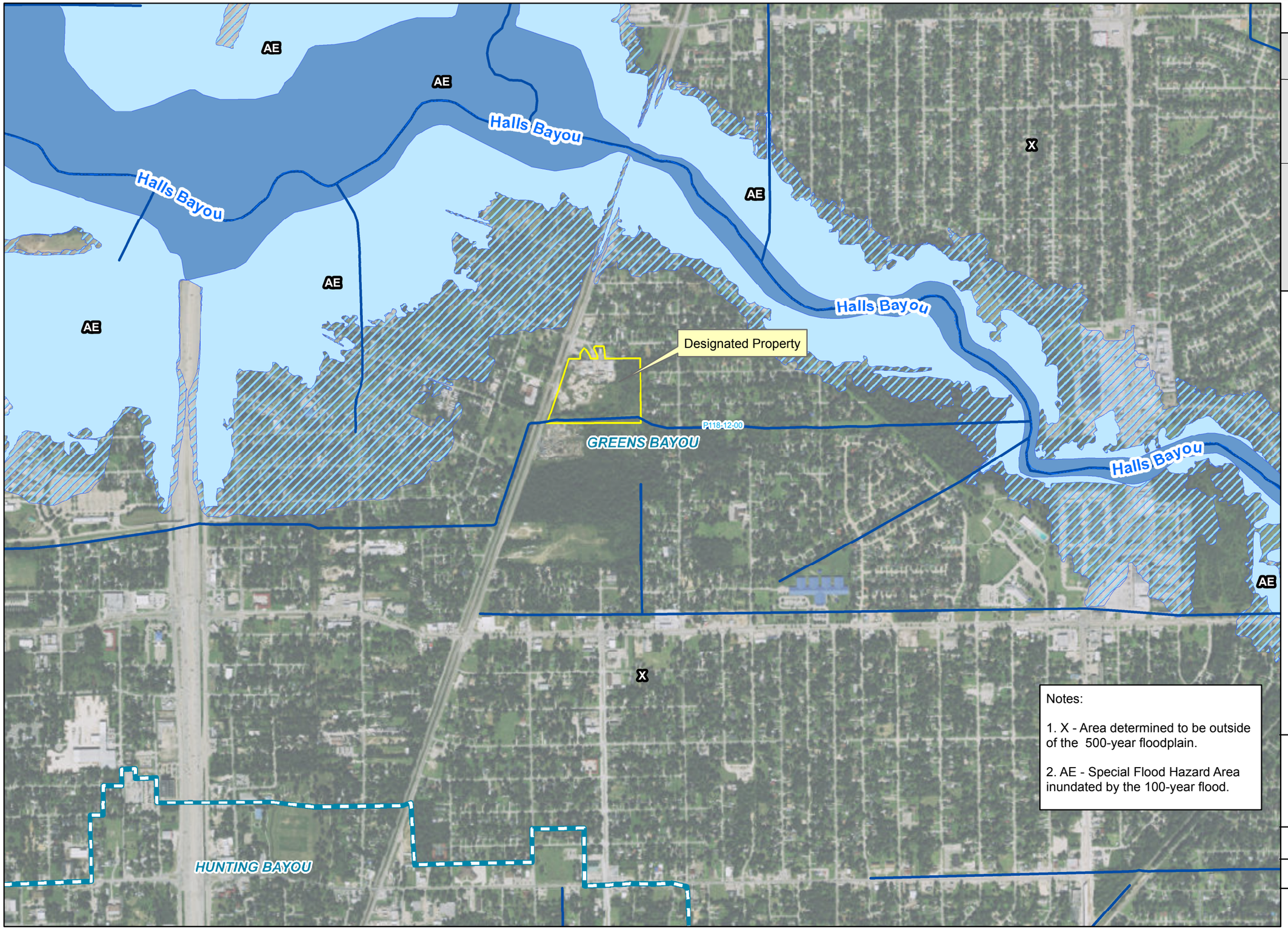
Chemetall expect more

Figure C-b1

Date: December 2015

Datum: North American 1983
Aerial Source: USGS Topographic
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-b1_Site_Topographic.mxd

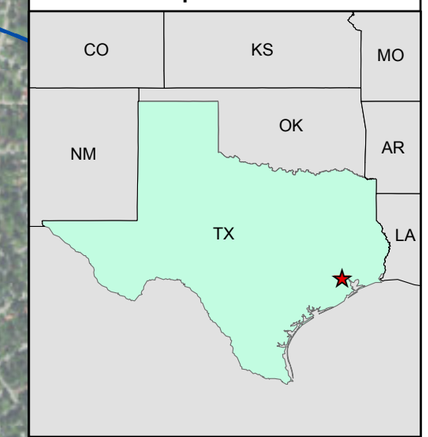


Notes:

1. X - Area determined to be outside of the 500-year floodplain.

2. AE - Special Flood Hazard Area inundated by the 100-year flood.

Map Location



Floodplain Map

10100 and 10120
Hirsch Road Properties

Legend

- Site Boundary
- HCFCD Watersheds
- Channels

Floodplain

- 500-Year Floodplain
- 100-Year Floodplain
- Floodway

0 600 1,200 Feet

N W E S

Georgia-Pacific

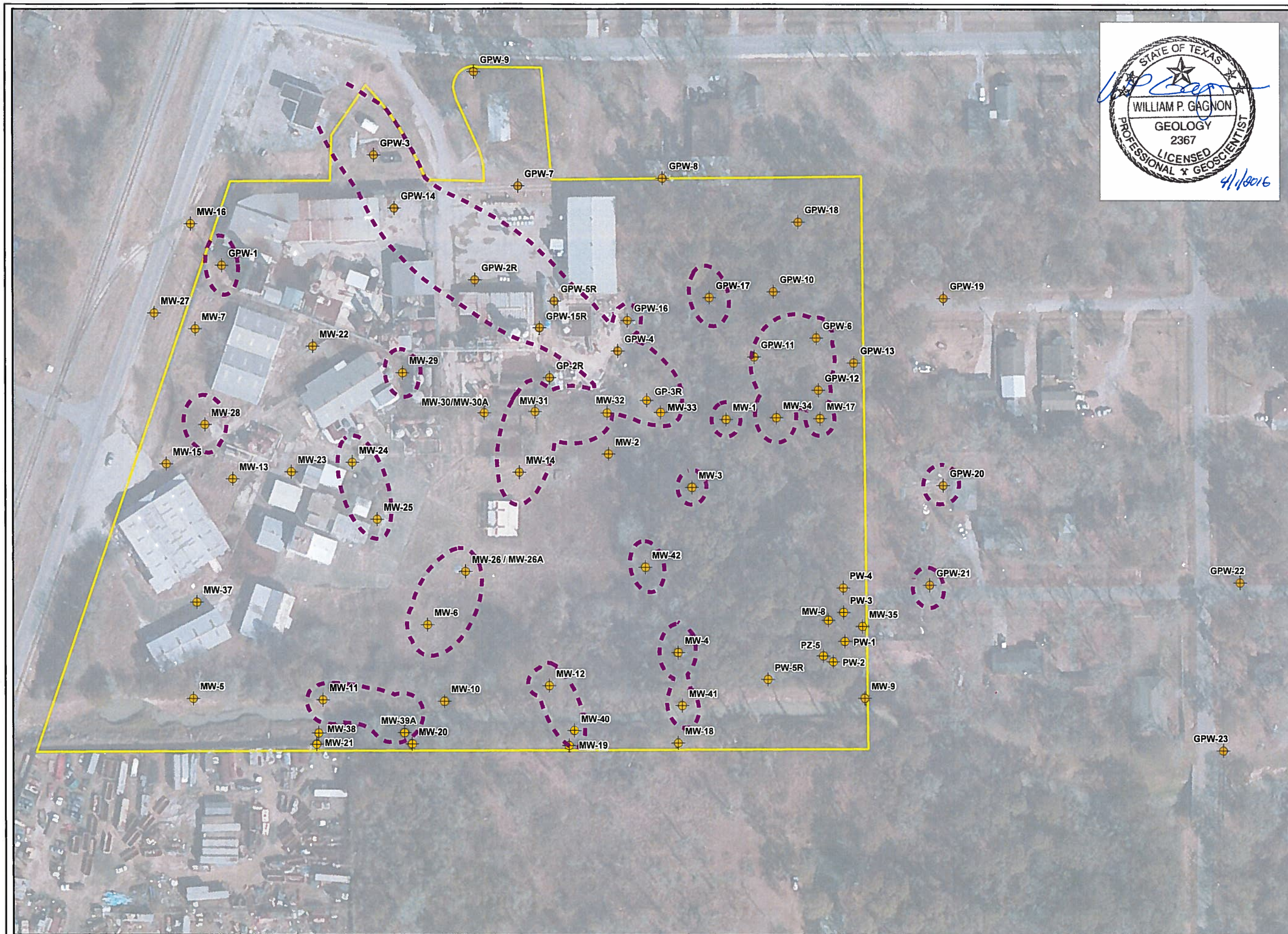
Chemetall expect more

Figure C-b2

Date: December 2015

Datum: North American 1983
Aerial Source: FEMA
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-b2_FEMA_Map.mxd



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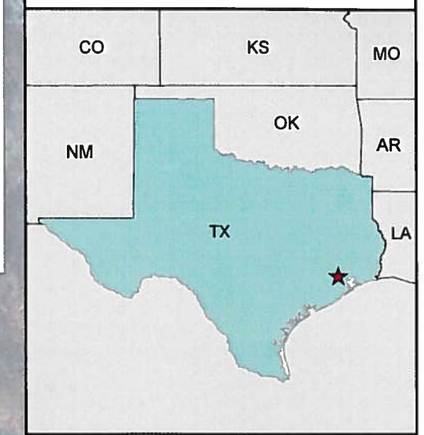
Map Location



Extent of Affected Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- Monitoring Well Location
- Approximate Extent of Affected Groundwater

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure C- c

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-c_ExtentOfAffectedGW_Map.mxd

Map Location

Soil Sampling Location Map

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- Soil Sample Location

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

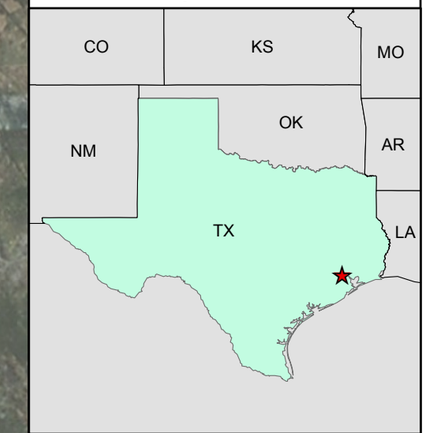
Figure C-d1

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-d1_Soil_Sample_Location_Map.mxd

Map Location



Groundwater Sampling Location Map

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- Well Location

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure C-d2

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-d2_MW_Location_Map.mxd

Map Location

EHC-M Injection Point Location Map

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- EHC-M Injection Point

0 50 100 Feet

N W E S

Georgia-Pacific

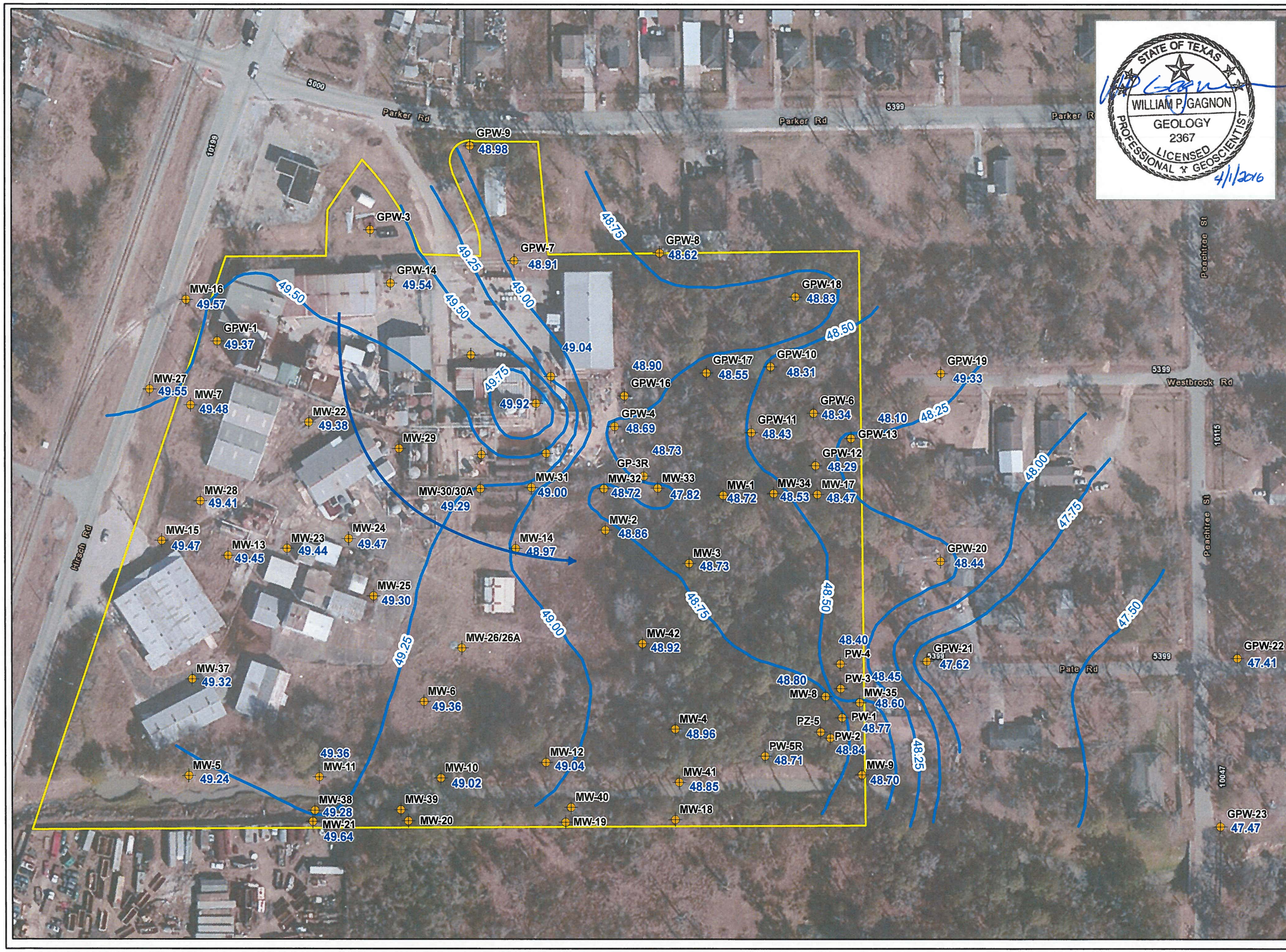
Chemetall expect more

Figure C-d3

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-d3_Injection_Well_Location_Map.mxd



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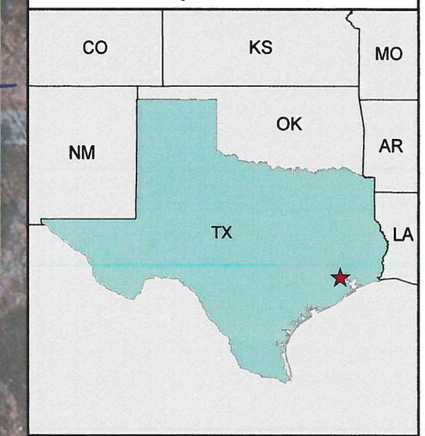
Map Location



Groundwater Elevation Map March 26, 2013

10100 and 10120 Hirsch Road Properties

Legend

- Designated Property
- Well Location
- Groundwater Elevation Contour
- Groundwater Flow Direction

0 65 130 Feet

N W E S

Georgia-Pacific

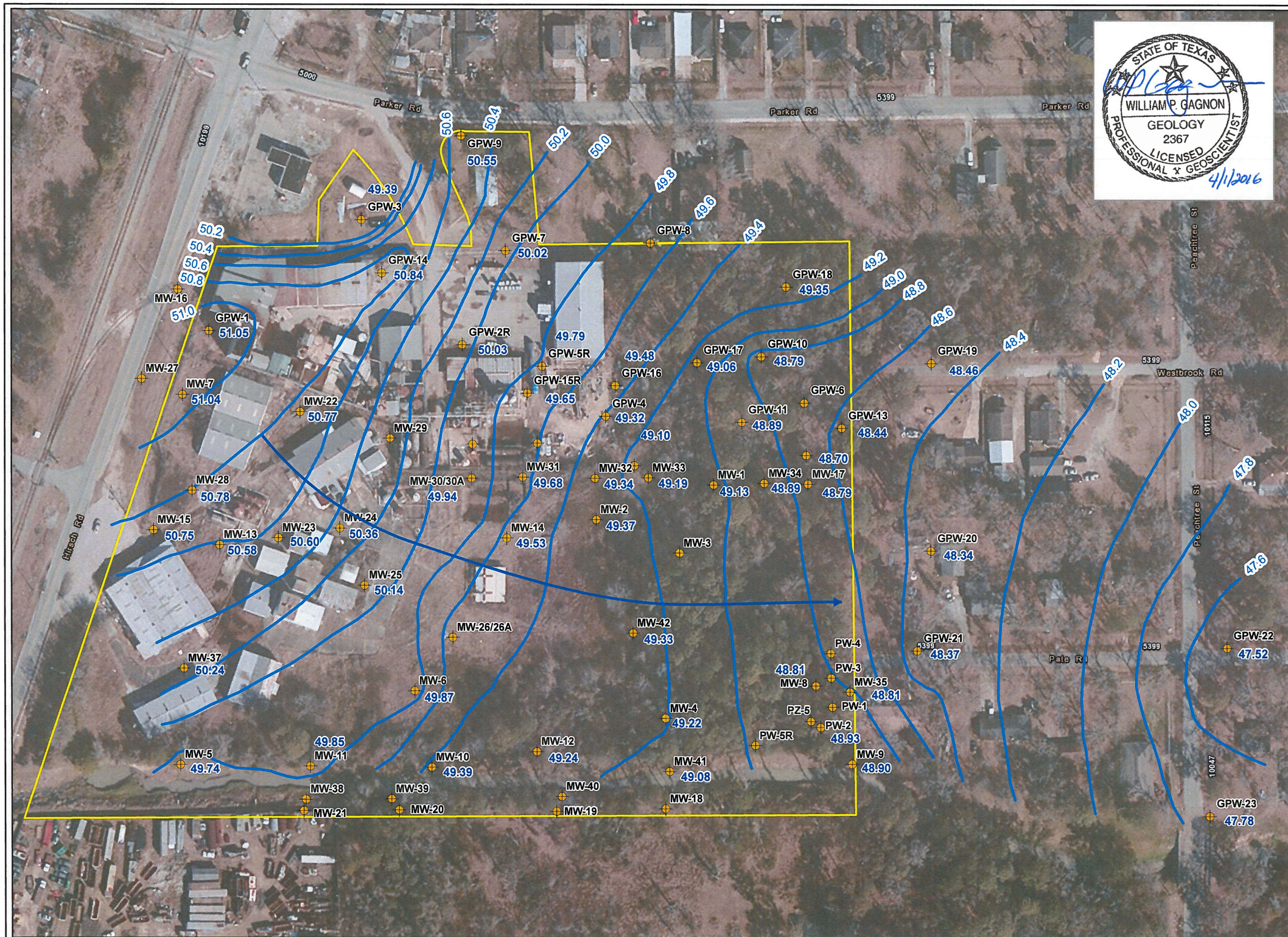
Chemetall expect more

Figure C-e1

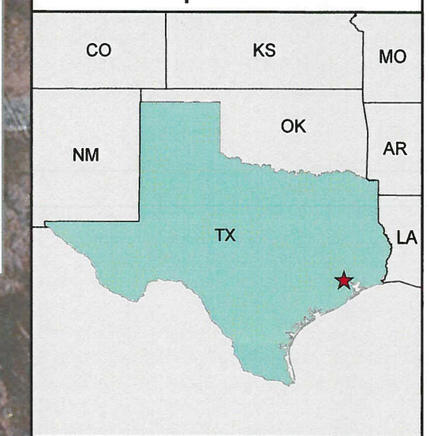
Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-e1_GW_Elevation_March_2013_1.mxd



Map Location



Groundwater Elevation Map January 7, 2014

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- Well Location
- Groundwater Elevation Contour
- Groundwater Flow Direction

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure C-e2

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-e2_GW_Elevation_Jan_2014.mxd

Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

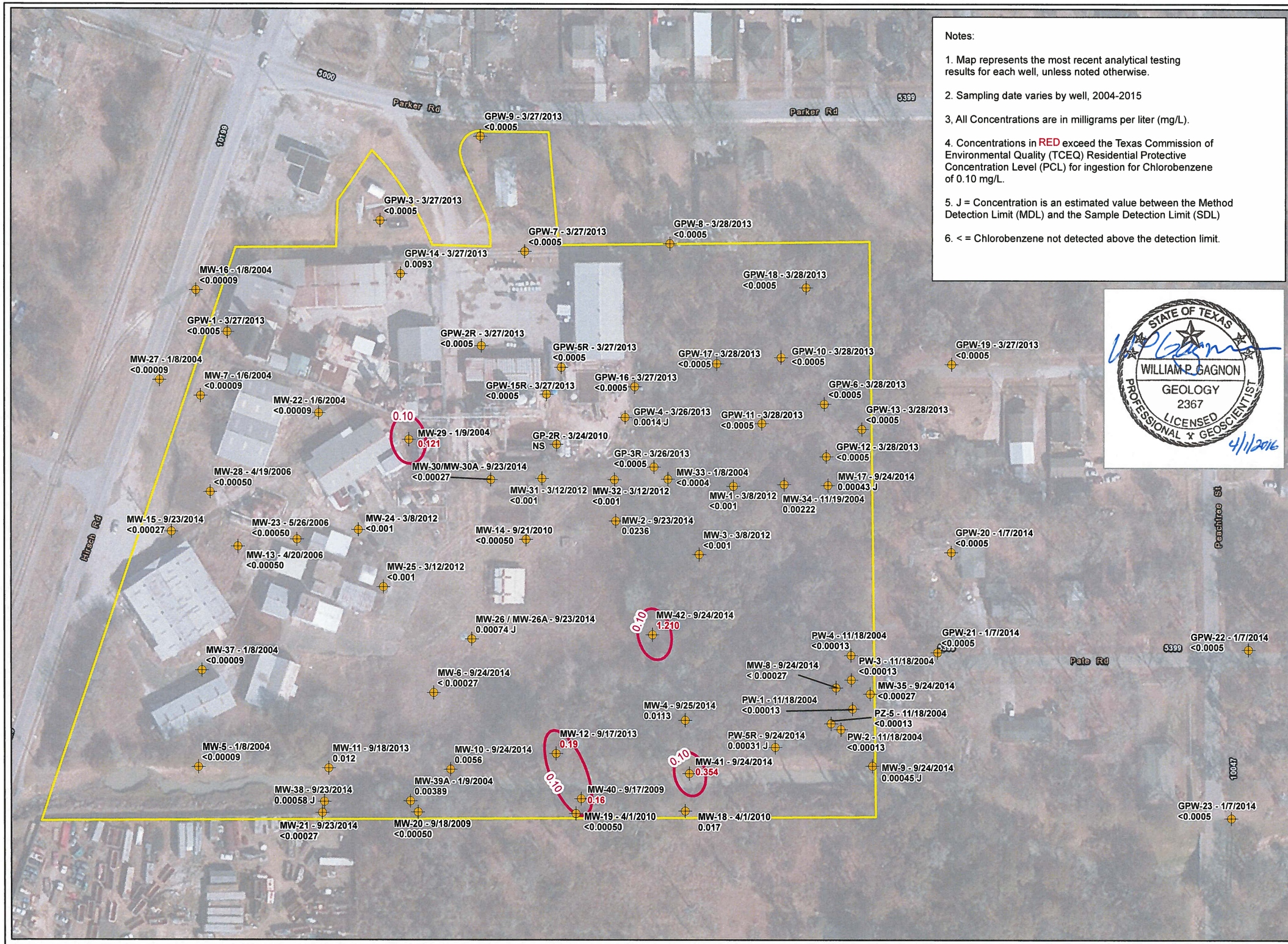
2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Chlorobenzene of 0.10 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Chlorobenzene not detected above the detection limit.



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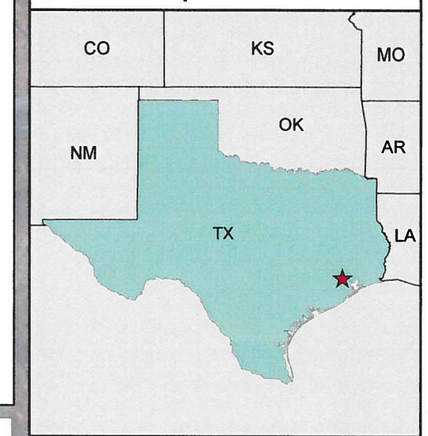
Map Location



Estimated Extent of Chlorobenzene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 1/7/2014 — Monitoring Well Location and Date Last Sampled
- 0.10 — Chlorobenzene Exceedance
- NS — Not Sampled

0 65 130 Feet

N W E S

Georgia-Pacific

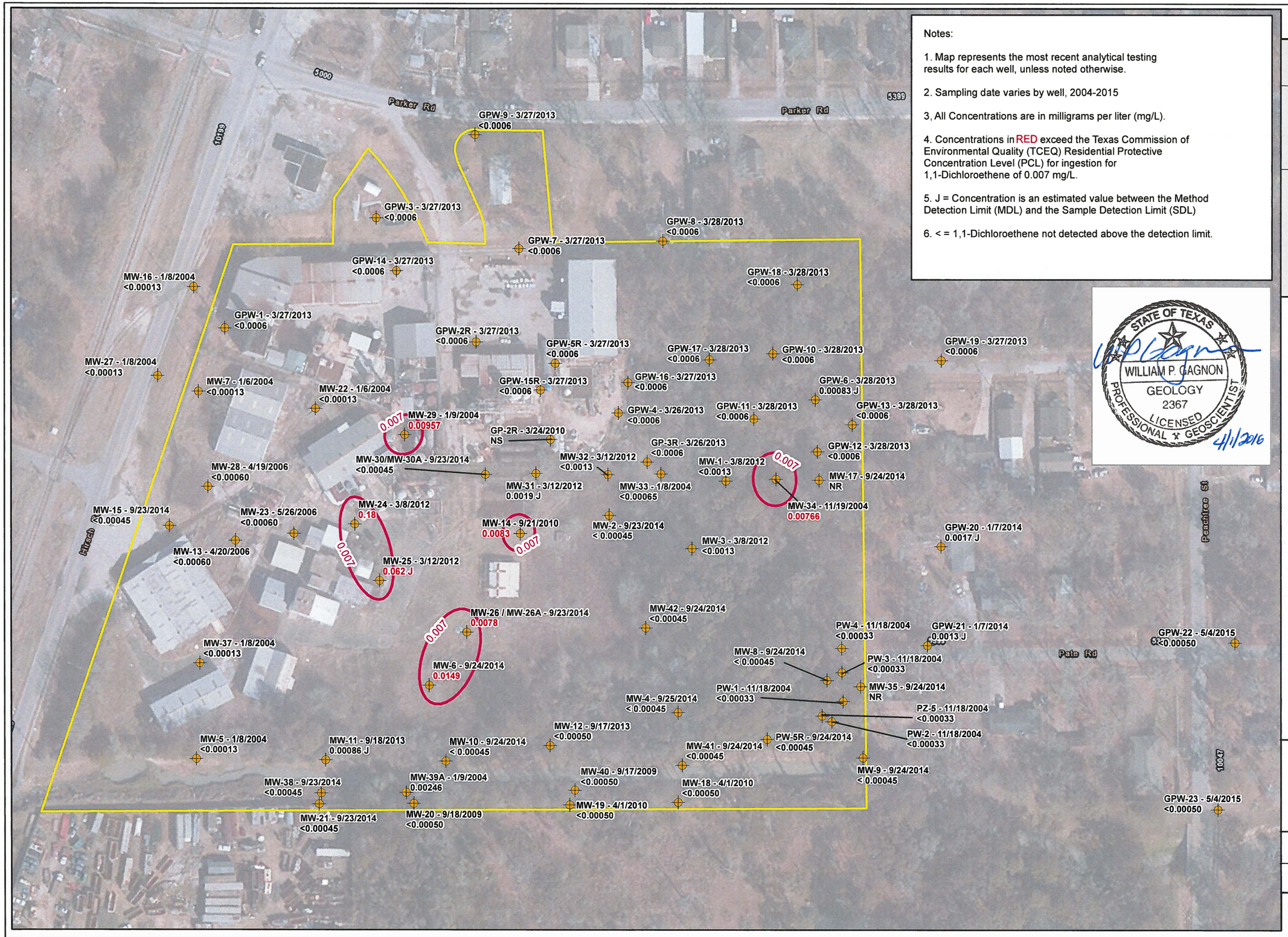
Chemetall expect more

Figure C-f1

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f1_Chlorobenzene_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for 1,1-Dichloroethene of 0.007 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = 1,1-Dichloroethene not detected above the detection limit.

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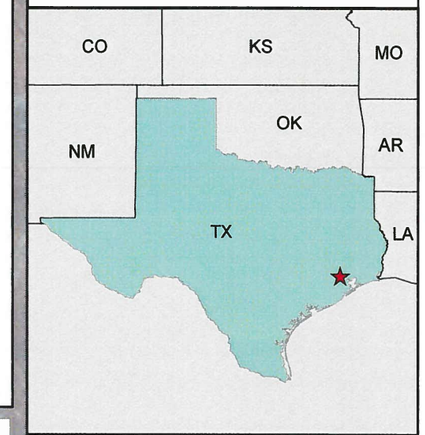
Map Location



Estimated Extent of 1,1-Dichloroethene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 — Monitoring Well Location and Date Last Sampled
- 0.007 — 1,1-Dichloroethene Exceedance
- NS — Not Sampled
- NR — Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

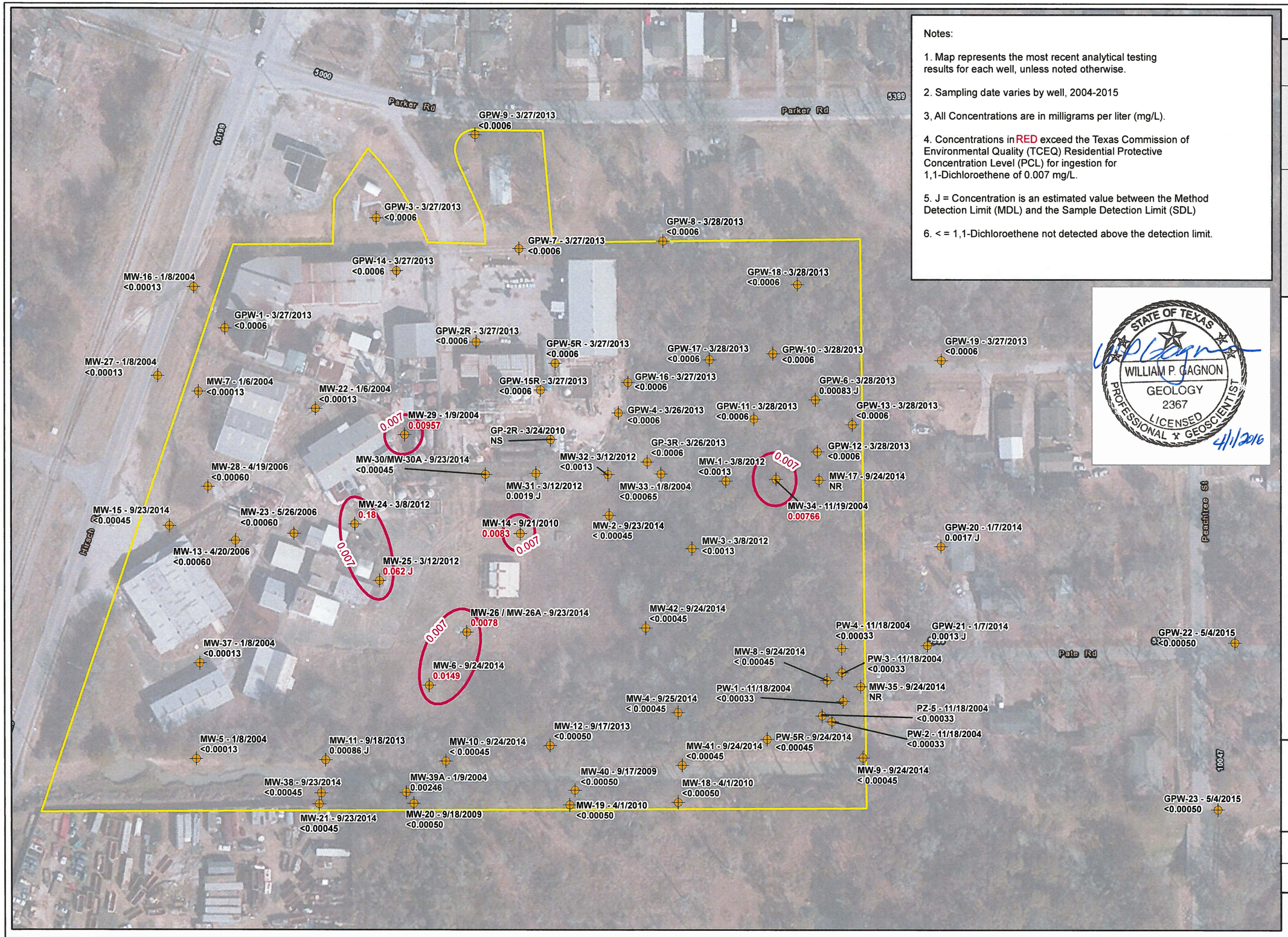
Chemetall expect more

Figure C-f2

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f2_1_1_DCE_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for 1,1-Dichloroethene of 0.007 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = 1,1-Dichloroethene not detected above the detection limit.

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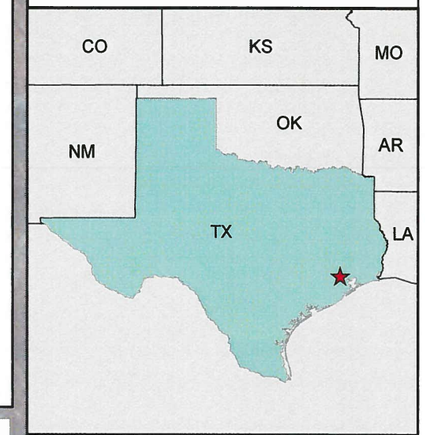
Map Location



Estimated Extent of 1,1-Dichloroethene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 — Monitoring Well Location and Date Last Sampled
- 0.007 — 1,1-Dichloroethene Exceedance
- NS — Not Sampled
- NR — Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

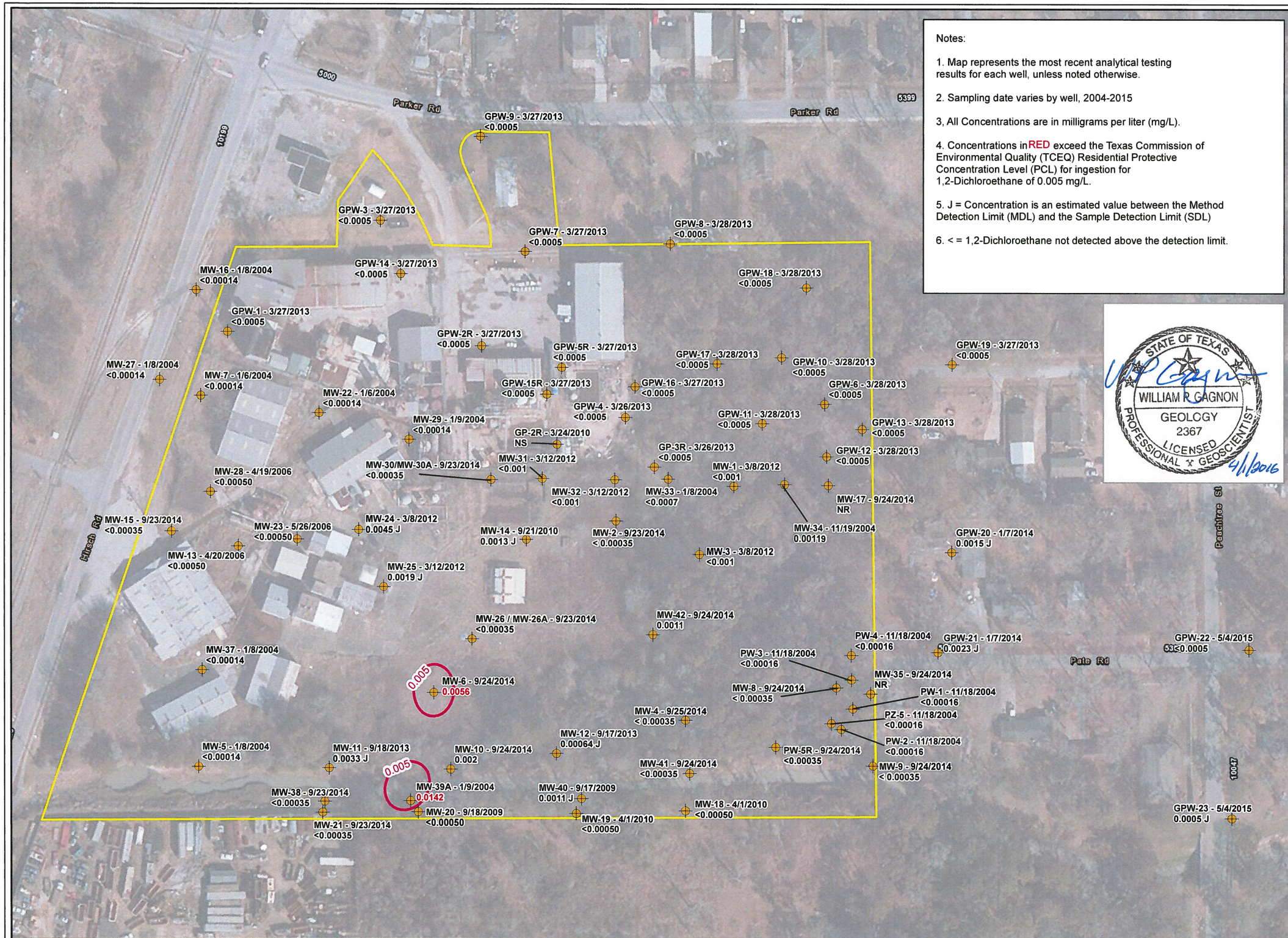
Chemetall expect more

Figure C-f2

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f2_1_1_DCE_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for 1,2-Dichloroethane of 0.005 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = 1,2-Dichloroethane not detected above the detection limit.

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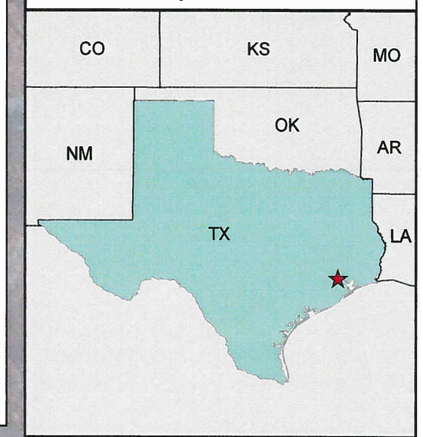
Map Location



Estimated Extent of 1,2-Dichloroethane Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/42015 — Monitoring Well Location and Date Last Sampled
- 0.005 — 1,2-Dichloroethane Exceedance
- NS — Not Sampled
- NR — Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

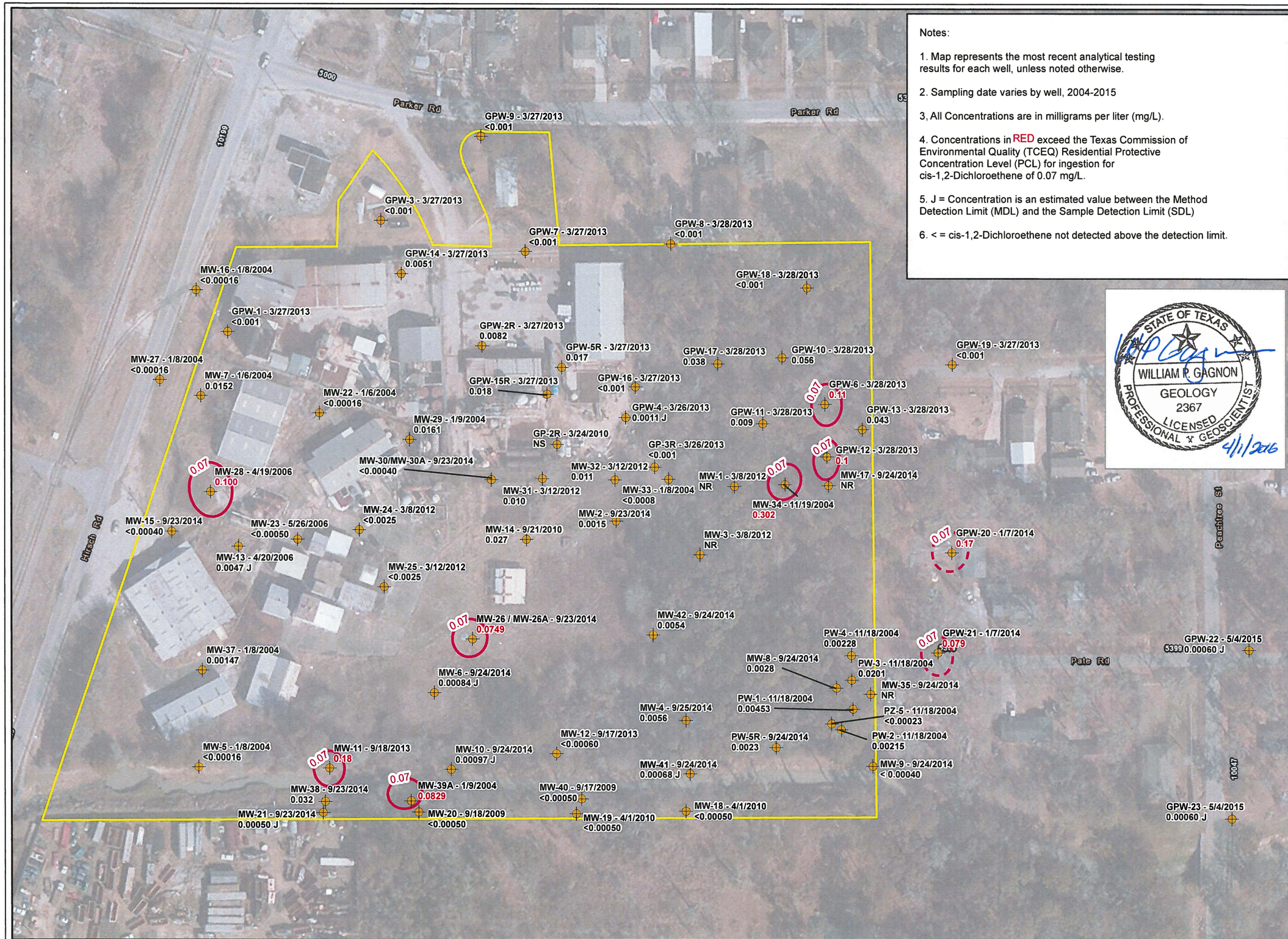
Chemetall expect more

Figure C-f3

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f3_1_2_DCA_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for cis-1,2-Dichloroethene of 0.07 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = cis-1,2-Dichloroethene not detected above the detection limit.

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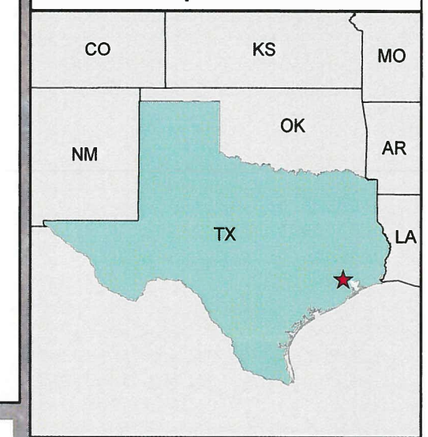
Map Location



Estimated Extent of cis-1,2-Dichloroethene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 Monitoring Well Location and Date Last Sampled
- 0.07 cis-1,2-Dichloroethene Exceedance
- NS Not Sampled
- NR Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

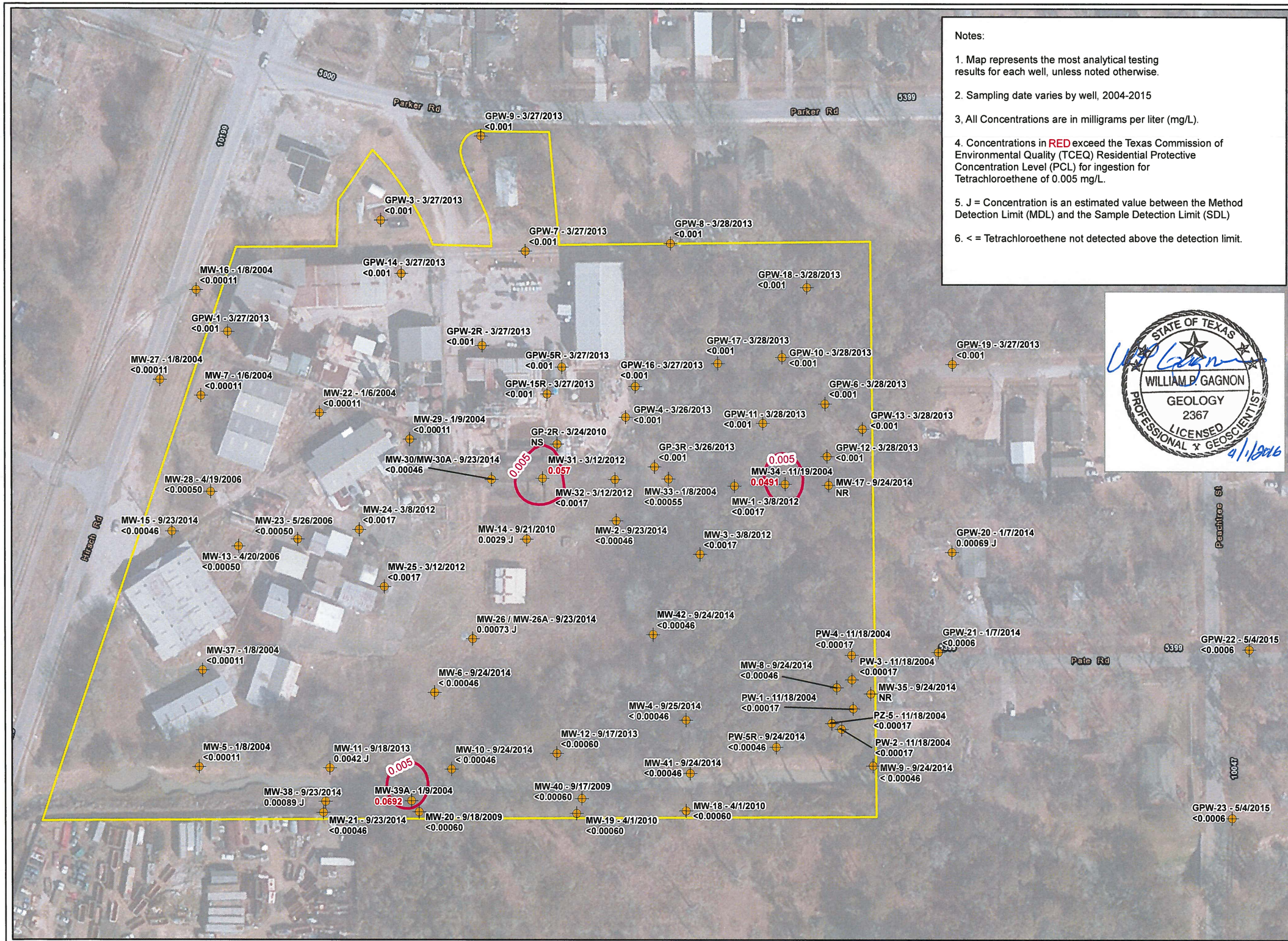
Chemetall expect more

Figure C-f4

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f4_cis1,2-DCE_Map.mxd



Notes:

1. Map represents the most analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Tetrachloroethene of 0.005 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Tetrachloroethene not detected above the detection limit.

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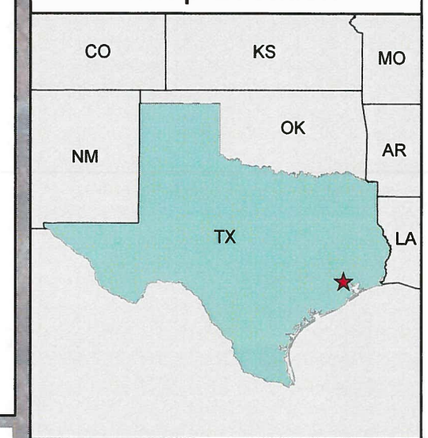
Map Location



Estimated Extent of Tetrachloroethene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 Monitoring Well Location and Date Last Sampled
- 0.005 Tetrachloroethene Exceedance
- NS Not Sampled
- NR Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

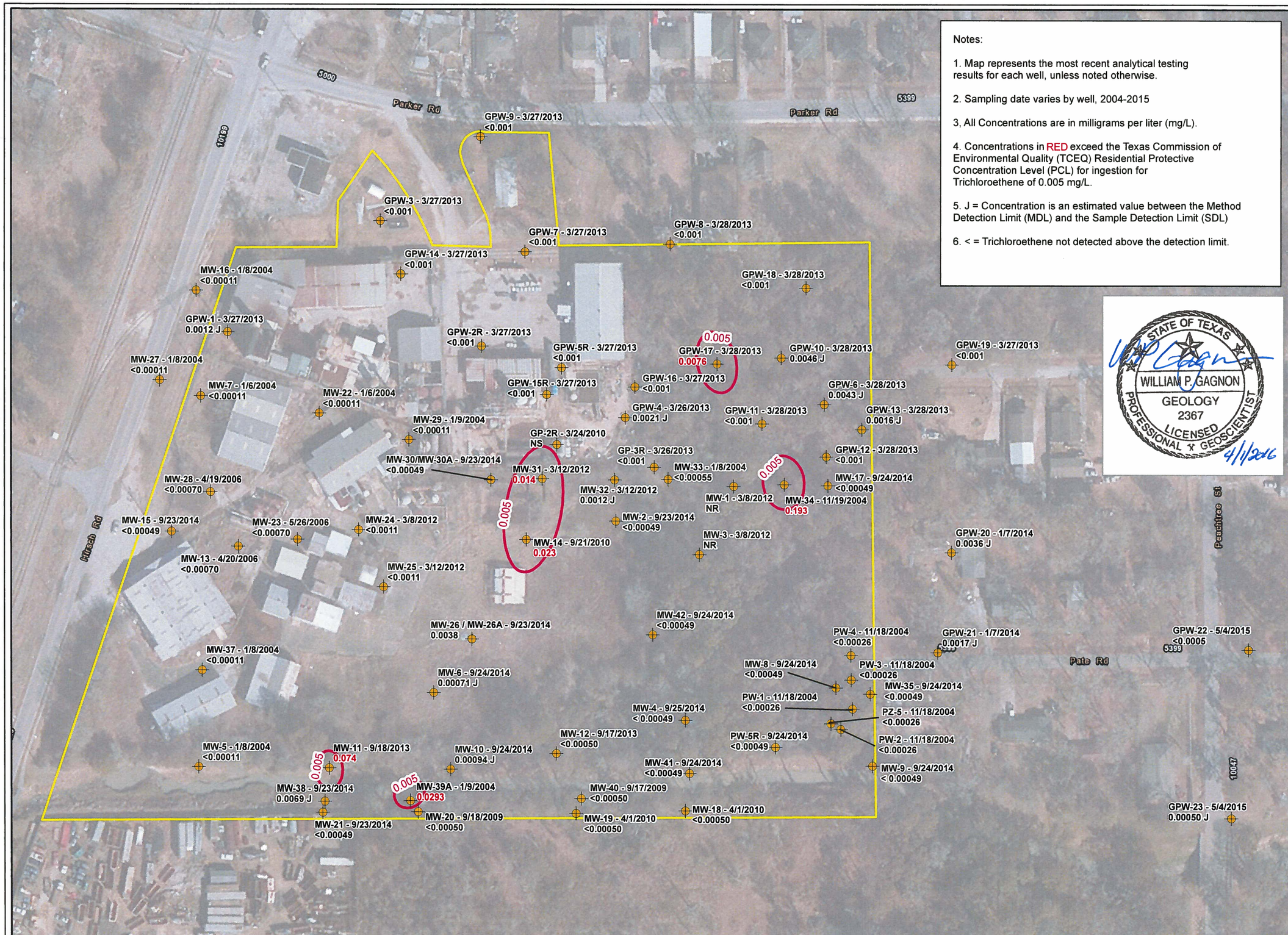
Chemetall expect more

Figure C-f5

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f5_Tetrachloroethene_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Trichloroethene of 0.005 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Trichloroethene not detected above the detection limit.

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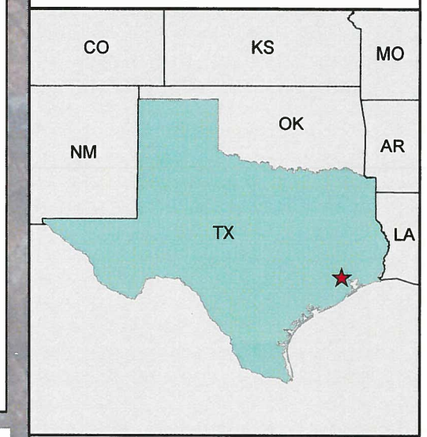
Map Location



Estimated Extent of Trichloroethene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 — Monitoring Well Location and Date Last Sampled
- 0.005 — Trichloroethene Exceedance
- NS — Not Sampled
- NR — Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure C-f6

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f6_Trichloroethene_Map.mxd

Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Vinyl Chloride of 0.002 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Vinyl Chloride not detected above the detection limit.

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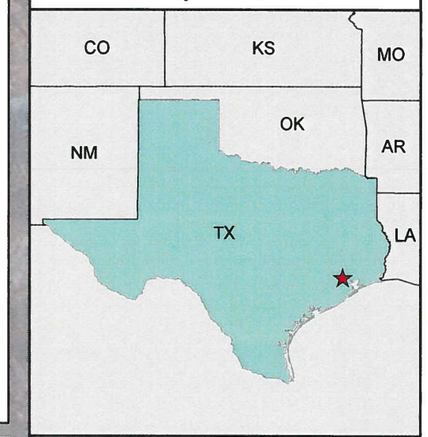
Map Location



Estimated Extent of Vinyl Chloride Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 5/4/2015 Monitoring Well Location and Date Last Sampled
- 0.002 Vinyl Chloride Exceedance
- NS Not Sampled
- NR Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

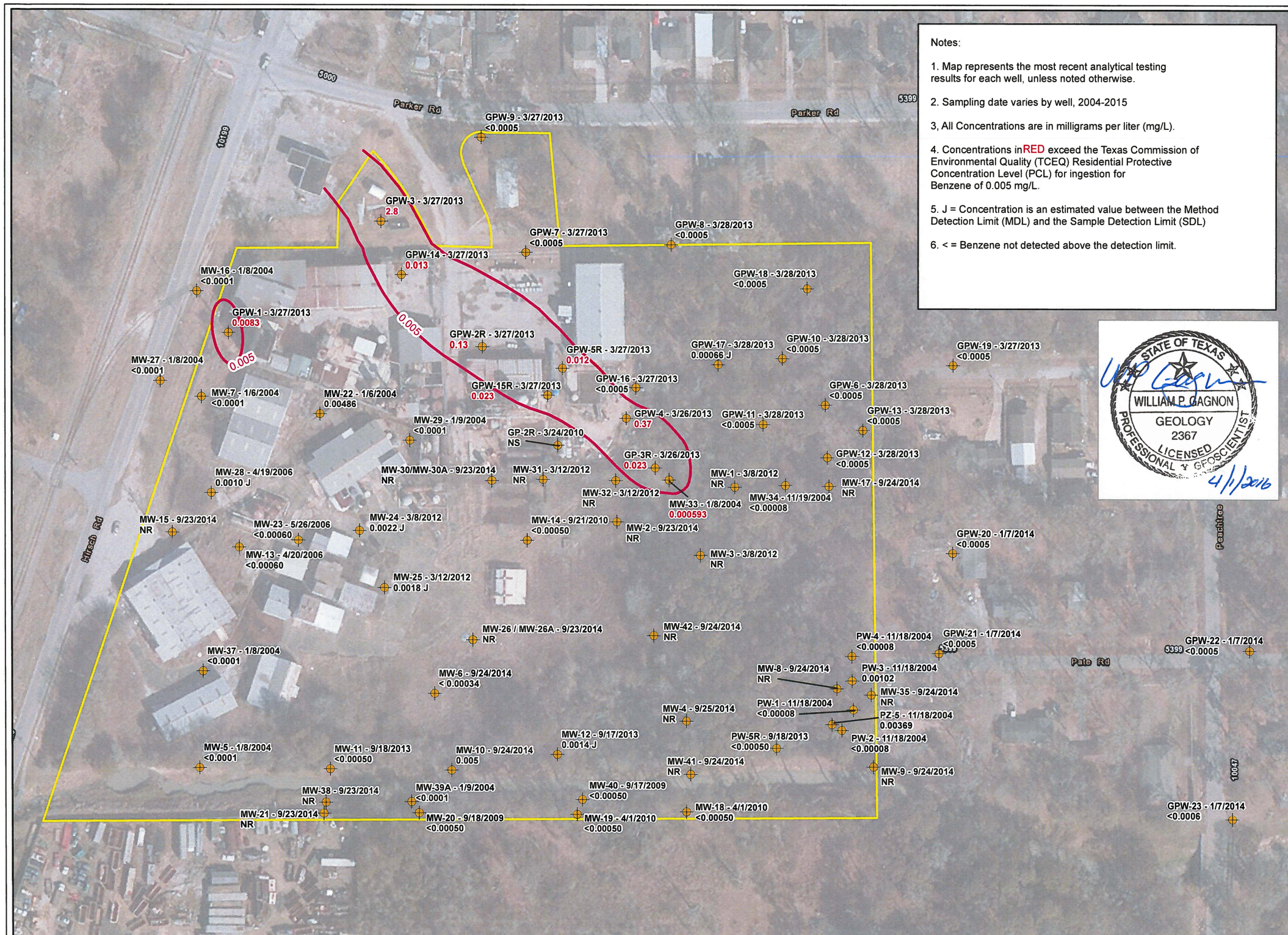
Chemetall expect more

Figure C-f7

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f7_VinylChloride_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

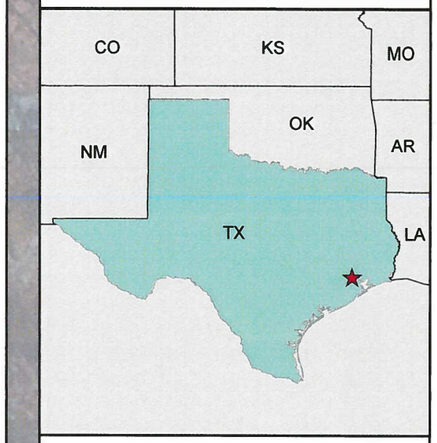
4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Benzene of 0.005 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Benzene not detected above the detection limit.

STATE OF TEXAS
WILLIAM P. GAGNON
GEOLOGY
2367
LICENSED
PROFESSIONAL GEOSCIENTIST
4/1/2016

Map Location



Estimated Extent of Benzene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 1/7/2014 — Monitoring Well Location and Date Last Sampled
- 0.005 — Benzene Exceedance
- NS — Not Sampled
- NR — Not Reported

0 65 130 Feet

N W E S

Georgia-Pacific

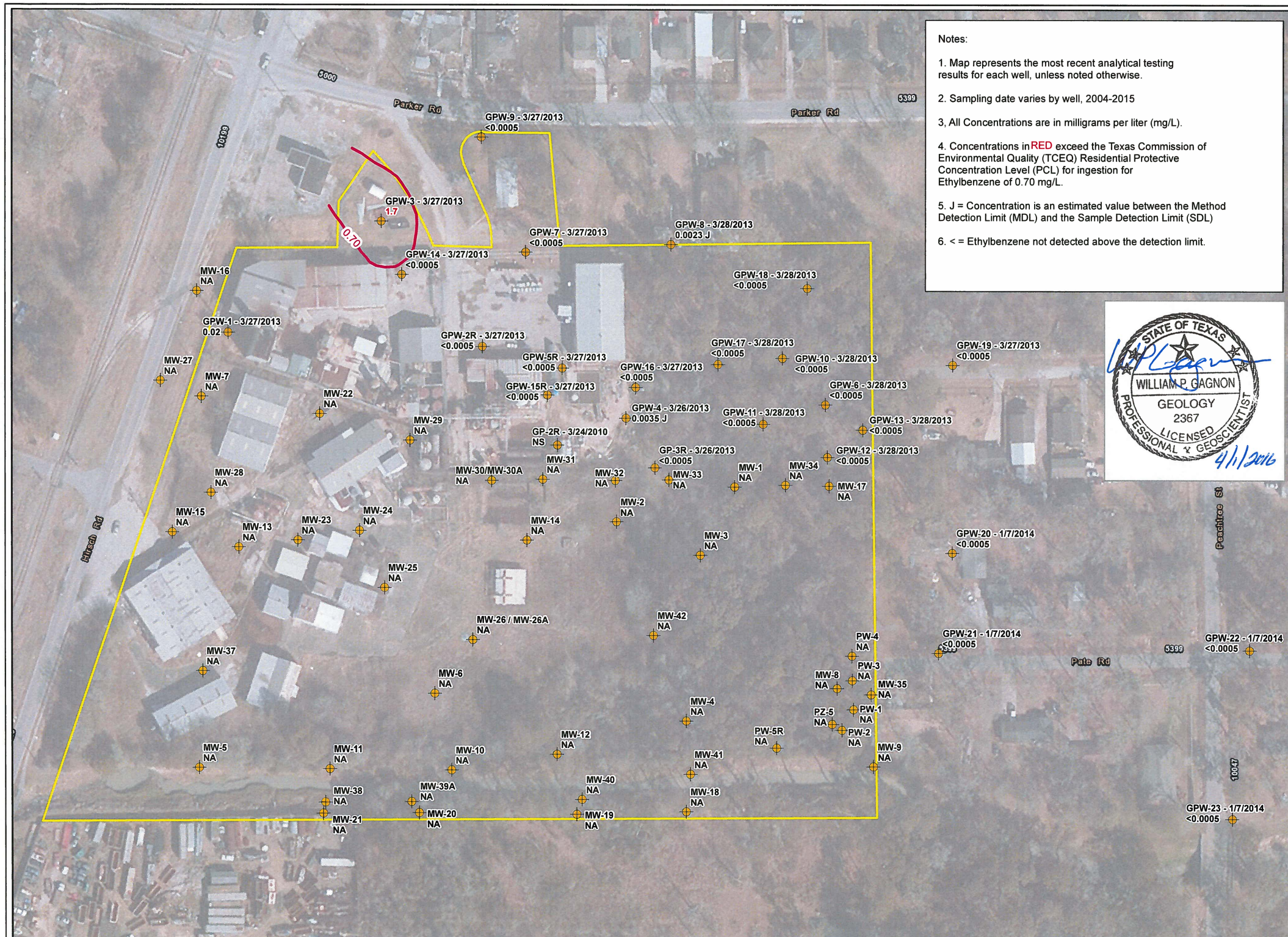
Chemetall expect more

Figure C-f8

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f8_Benzene_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2004-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for Ethylbenzene of 0.70 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = Ethylbenzene not detected above the detection limit.

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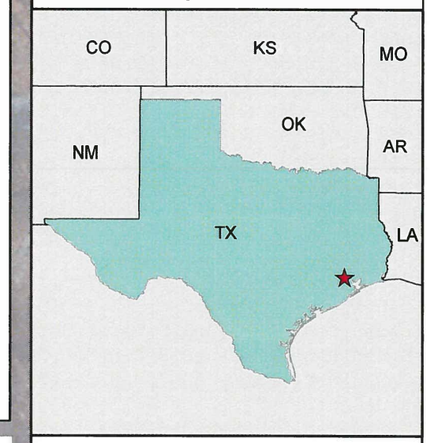
4/1/2016

Map Location



Estimated Extent of Ethylbenzene Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 1/7/2014 — Monitoring Well Location and Date Last Sampled
- 0.70 — Ethylbenzene Exceedance
- NS — Not Samped
- NA — Not Applicable

0 65 130 Feet

N W E S

Georgia-Pacific

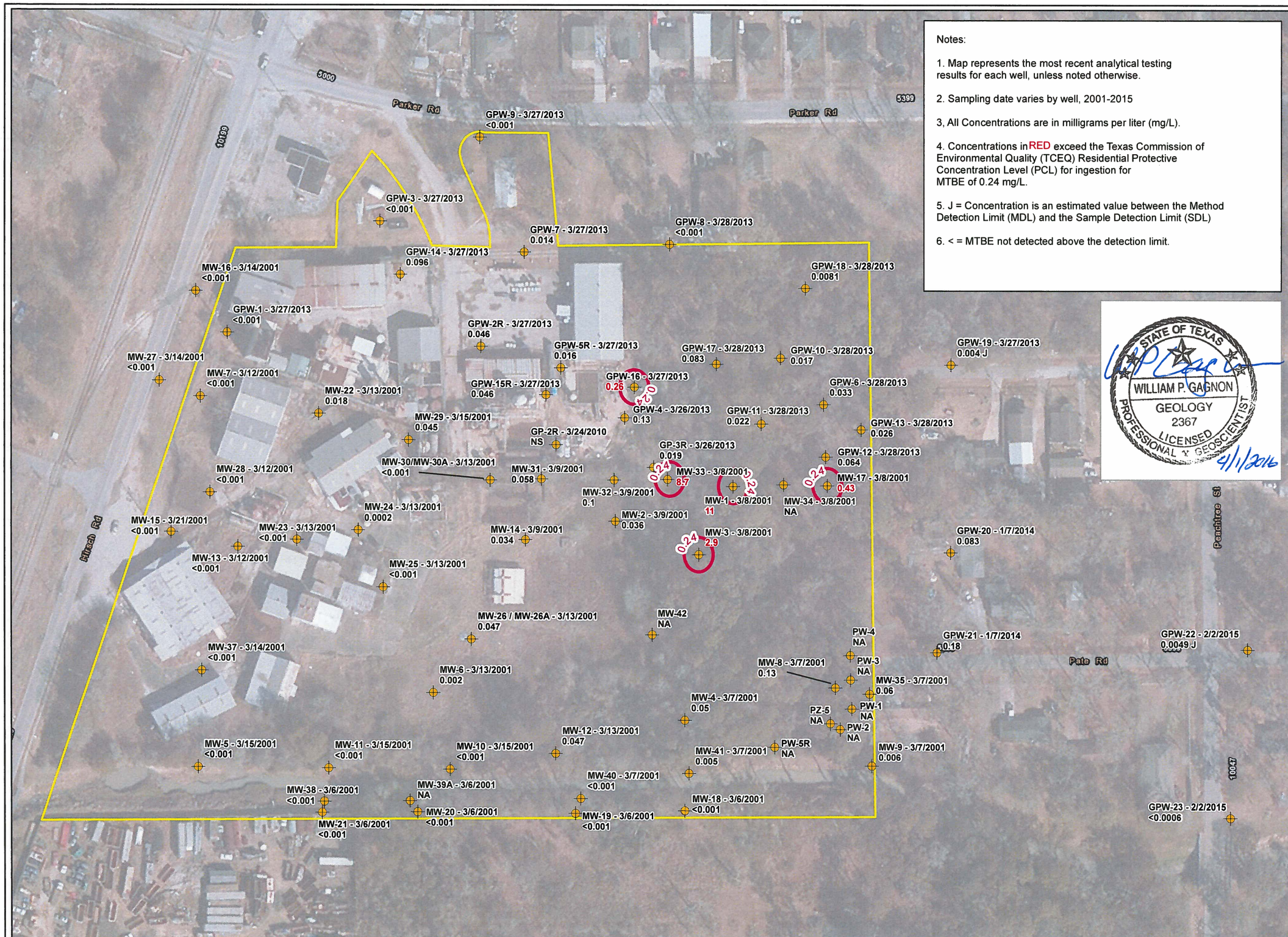
Chemetall expect more

Figure C-f9

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f9_Ethylbenzene_Map.mxd



Notes:

1. Map represents the most recent analytical testing results for each well, unless noted otherwise.

2. Sampling date varies by well, 2001-2015

3, All Concentrations are in milligrams per liter (mg/L).

4. Concentrations in RED exceed the Texas Commission of Environmental Quality (TCEQ) Residential Protective Concentration Level (PCL) for ingestion for MTBE of 0.24 mg/L.

5. J = Concentration is an estimated value between the Method Detection Limit (MDL) and the Sample Detection Limit (SDL)

6. < = MTBE not detected above the detection limit.

STATE OF TEXAS
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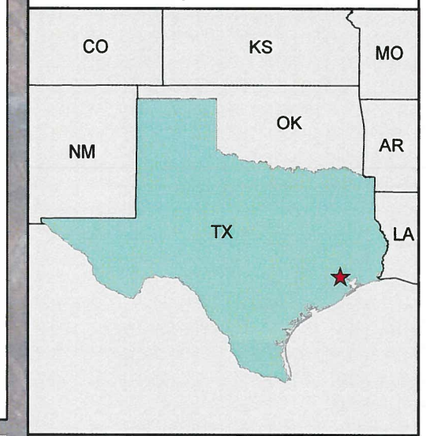
GEOLOGY
2367
LICENSED
PROFESSIONAL GEOSCIENTIST
4/1/2016

Map Location



Estimated Extent of MTBE Exceedance in Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- GPW-22 - 1/7/2014 — Monitoring Well Location and Date Last Sampled
- 0.24 — MTBE Exceedance
- NS — Not Samped
- NA — Not Applicable

0 65 130 Feet

N S E W

Georgia-Pacific

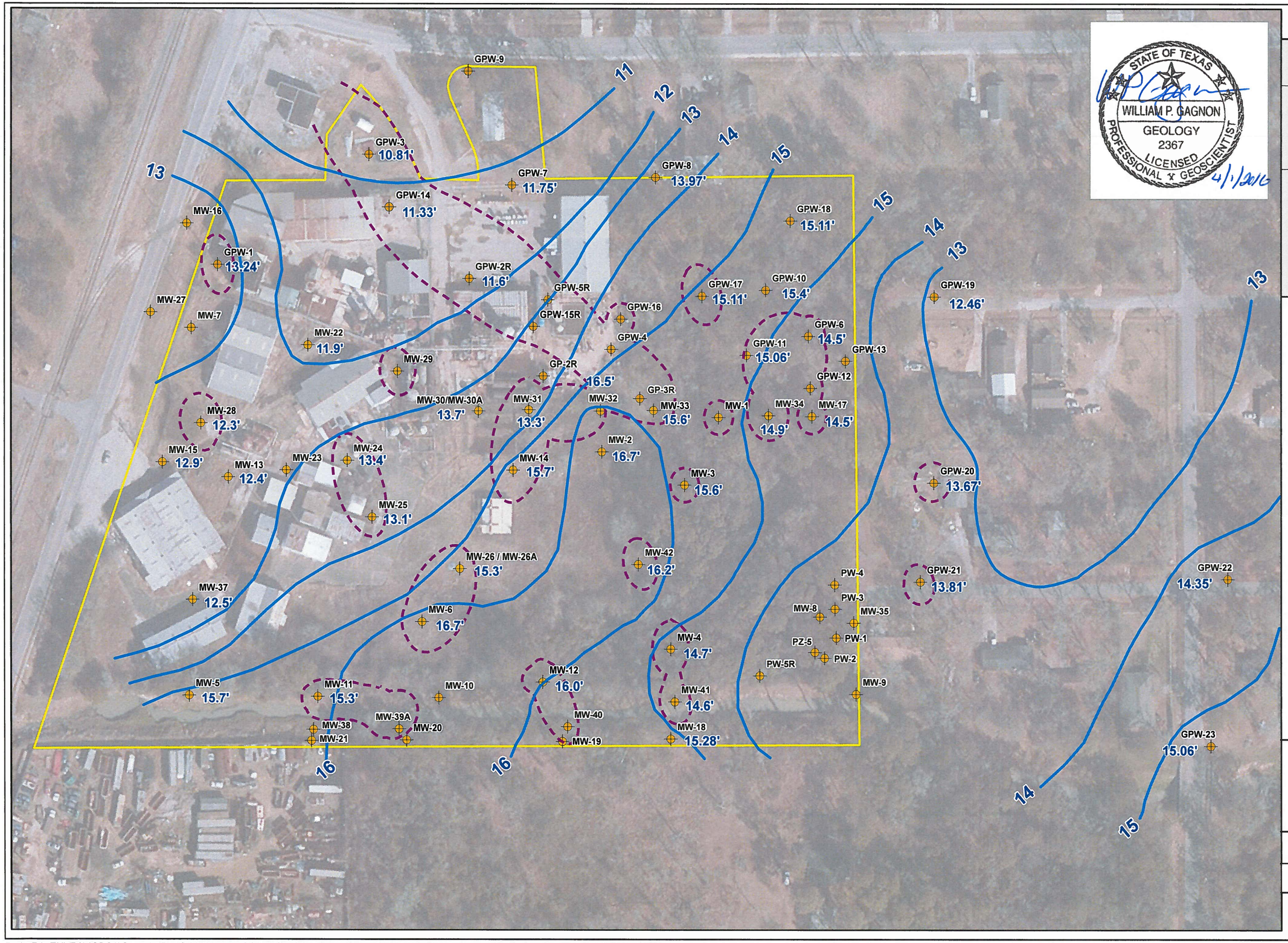
Chemetall expect more

Figure C-f10

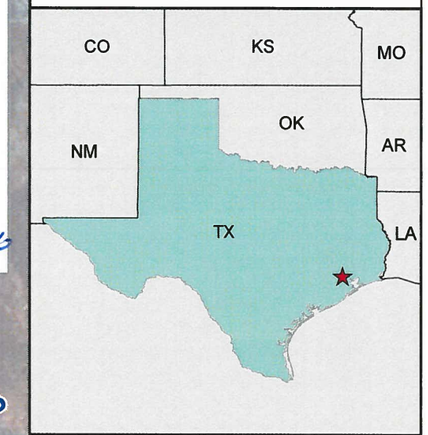
Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-f10_MTBE_Map.mxd



Map Location



Depth of Affected Groundwater

10100 and 10120
Hirsch Road Properties

Legend

- Designated Property
- Monitoring Well Location
- Approximate Extent of Affected Groundwater
- 15' Average Approximate Depth to Groundwater

0 65 130 Feet

N W E S

Georgia-Pacific

Chemetall expect more

Figure C-g

Date: April 2016

Datum: North American 1983
Aerial Source: ESRI World Imagery
By: Natalie Forbes

Path: P:_ENVP2\JOBS2\Georgia-Pacific\60305565 COH MSD\GIS_CAD\Hirsch Rd MSD\Draft Figures for MSD\FigureC-g_DepthOfAffectedGW_Map.mxd

Appendix D

Provide for each contaminant of concern within the designated groundwater:

a. A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.

b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.

c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).

Appendix D

Provide for each contaminant of concern within the designated groundwater:

a. **A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.**

b. **The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.**

c. **Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).**

There are ten COCs present in the affected groundwater at the Designated Property at concentrations exceeding the ingestion PCLs (Tier 1 $^{GW}GW_{Ing}$ PCLs). These COCs are:

- Chlorobenzene,
- 1,1-DCE,
- 1,2-DCA,
- Cis-1,2-DCE,
- PCE,
- TCE,
- VC,
- Benzene,
- Ethylbenzene, and
- MTBE.

The findings for the affected groundwater related to the COCs are based on the results for samples collected from 72 monitoring wells installed at, or near, the Designated Property. Twenty-nine groundwater sampling events have been conducted at the Designated Property over 19 years of environmental investigation activities.

a. **A description of the ingestion protective concentration level exceedence zone and the non-ingestion protective concentration level exceedence zone, including a specification of the horizontal area and the minimum and maximum depth below ground surface.**

The top of the affected groundwater lies in a sandy unit. The top of the sandy unit lies between approximately 10 to 16 feet below ground surface (bgs). The bottom of the sandy unit is between approximately 22 and 26 feet bgs. The material in the sandy unit is described as fine-grained sand with silt, light-gray to reddish-brown, and dense. The depth to the affected groundwater ranges between approximately 11 to 16 feet bgs. The affected groundwater zone in the sandy unit has a thickness of between approximately 10.8 and 16.7 feet.

Stiff red-brown dense clay was observed underlying the sandy unit at a depth of approximately 25 feet bgs. The clay forms a vertical barrier to potential downward groundwater flow at the bottom of the affected groundwater zone.

The affected groundwater zone extends offsite to the east of the Designated Property. COCs were detected in groundwater samples from on-site monitoring wells as shown on Figures C-f1 through C-f9 at concentrations exceeding the ingestion PCLs. This indicates that the area of affected groundwater extends approximately 150 feet east of the boundary of the Designated Property at monitoring wells GPW-20 and GPW-21 into a residential area between Westbrook Road and Pate Road. The eastern extent of the affected groundwater has been delineated by sampling at monitoring wells GPW-22 and GPW-23.

Flow directions in the affected groundwater zone are variable based on seasonal rainfall events and flow conditions in the HCFCD drainage channel located along the southern part of the Designated Property. However, the predominant flow direction in the affected groundwater zone is from the northwest to the southeast.

There are 15 separate areas of affected groundwater at the Designated Property. These areas total approximately 3.77 acres of which approximately 0.1 acres are offsite in the residential area east of the Designated Property. The estimated extent (horizontal area) of the ingestion PCL exceedance zone in the affected groundwater is depicted on **Figure C-c**. Historical COC concentrations observed during the more than 19 years of environmental investigation activities indicate that the area of affected groundwater is stable or decreasing. The minimum and maximum depth for the affected groundwater at the Designated Property is between the top of the saturated zone and the bottom of the uppermost groundwater-bearing unit. This interval is approximately 11 to 26 feet bgs.

The following sections provide a description of the ingestion PCL exceedance zones and the non-ingestion PCL exceedance zones in groundwater for each COC based on the most recent sampling result for each of the 65 monitoring wells on the Designated Property and the seven off-site monitoring wells.

COC concentrations in groundwater were compared to PCLs indicated below:

- Ingestion-Based PCLs = TRRP Tier1 $^{GW}GW_{Ing}$ PCLs for residential properties for 0.5-acre source area based on potential human ingestion of affected groundwater.
- Non-Ingestion-Based PCLs
    - Groundwater-to-Vapor Inhalation (Tier 1 $^{Air}GW_{Inh\text{-}V}$ PCLs): for residential properties for 0.5-acre source area based on potential human inhalation of vapors from affected groundwater.
    - Groundwater to Surface Water (Site-specific ^{SW}GW PCLs): are concentrations of COCs in groundwater protective of potential human and ecological receptors by the pathway of groundwater discharge to surface water. Groundwater COC concentrations protective of surface water were established in the APAR and approved by the TCEQ. Surface water downstream of the Designated Property is not used for ingestion purposes. Subsequent collection and analysis of groundwater samples demonstrated that the groundwater COC concentrations are protective of surface water quality.

Table D-1 presents the groundwater ingestion PCLs and the applicable non-ingestion PCLs for each COC. Table D-1 indicates the critical non-ingestion PCL for each COC as the lowest of the applicable non-ingestion PCLs. The COCs and the relevant groundwater ingestion PCLs and the critical non-ingestion PCLs are described in the following sections.

Chlorobenzene

- Ingestion PCL: 0.1 mg/L
- Critical Non-Ingestion PCL (Tier 1$^{Air}GW_{Inh\text{-}V}$ PCL) : 1,200 mg/L

Ingestion PCL Exceedance Area: The chlorobenzene ingestion PCL exceedance zone consists of four small areas encompassing five monitoring wells. The cumulative area of these four zones is approximately 13,700 square feet. The maximum chlorobenzene concentration, 1.21 mg/L, is observed in the sample from MW-42.

The identified chlorobenzene ingestion PCL exceedance zone remains within the Designated Property.

Delineation: The chlorobenzene ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for chlorobenzene at the Designated Property.

1,1-DCE

- Ingestion PCL: 0.007 mg/L
- Critical Non-Ingestion PCL (Site-specific ^{SW}GW PCL): 750 mg/L

Ingestion PCL Exceedance Area: The 1,1-DCE ingestion PCL exceedance zone consists of five areas encompassing seven monitoring wells. The largest zone is located near the center of the Designated Property and is associated with a former historical source that has been removed. The cumulative area of these five zones is approximately 18,500 square feet. The maximum 1,1-DCE concentration, 0.18 mg/L, is observed in the sample from MW-24.

The identified 1,1-DCE ingestion PCL exceedance zone remains within the Designated Property.

Delineation: The 1,1-DCE ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for 1,1-DCE at the Designated Property.

1,2-DCA

- Ingestion PCL: 0.005 mg/L
- Critical Non-Ingestion PCL (Tier 1^{Air}GW$_{Inh-V}$ PCL): 33 mg/L

Ingestion PCL Exceedance Area: The 1,2-DCA ingestion PCL exceedance zone consists of two small areas encompassing two monitoring wells. The cumulative area of these two zones is approximately 5,900 square feet. The maximum 1,2-DCA concentration, 0.0142 mg/L, is observed in the sample from MW-39A.

The identified 1,2-DCA ingestion PCL exceedance zone remains within the Designated Property.

Delineation: The 1,2-DCA ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for 1,2-DCA at the Designated Property.

cis-1,2-DCE

- Ingestion PCL: 0.07 mg/L
- Critical Non-Ingestion PCL (Tier 1$^{Air}GW_{Inh-V}$ PCL) : 1,200 mg/L

Ingestion PCL Exceedance Area: The cis-1,2-DCE ingestion PCL exceedance zone consists of nine small areas encompassing nine monitoring wells. The cumulative area of these nine zones is approximately 52,400 square feet. The maximum cis-1,2-DCE concentration, 0.302 mg/L, is observed in the sample from MW-34.

Two of the identified cis-1,2-DCE ingestion PCL exceedance zone areas are located east of the Designated Property at monitoring wells GPW-20 and GPW-21.

Delineation: The cis-1,2-DCE ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for cis-1,2-DCE at the Designated Property.

PCE

- Ingestion PCL: 0.005 mg/L
- Critical Non-Ingestion PCL (Tier 1$^{Air}GW_{Inh-V}$ PCL): 500 mg/L

Ingestion PCL Exceedance Area: The PCE ingestion PCL exceedance zone consists of three small areas each encompassing one monitoring well. The cumulative area of these three zones is approximately 17,500 square feet. The maximum PCE concentration, 0.0692 mg/L, is observed in the sample from MW-39A.

The identified PCE ingestion PCL exceedance zone remains within the Designated Property.

Delineation: The PCE ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for PCE at the Designated Property.

TCE

- Ingestion PCL: 0.005 mg/L
- Critical Non-Ingestion PCL (Tier $1^{Air}GW_{Inh-V}$ PCL): 24 mg/L

Ingestion PCL Exceedance Area: The TCE ingestion PCL exceedance zone consists of five small areas encompassing six monitoring wells. The cumulative area of these four zones is approximately 15,000 square feet. The maximum TCE concentration, 0.193 mg/L, is observed in the sample from MW-34.

The identified TCE ingestion PCL exceedance zone remains within the Designated Property.

Delineation: The TCE ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for TCE at the Designated Property.

VC

- Ingestion PCL: 0.002 mg/L
- Critical Non-Ingestion PCL (Tier $1^{Air}GW_{Inh-V}$ PCL): 3.8 mg/L

Ingestion PCL Exceedance Area: The VC ingestion PCL exceedance zone consists of eleven areas encompassing 17 monitoring wells. The largest area is located near the center of the Designated Property and is associated with a former historical source that has been removed. The cumulative area of these eleven zones is approximately 45,100 square feet. The maximum VC concentration, 0.140 mg/L, is observed in the sample from MW-39A.

One of the exceedance zones is located outside the Designated Property to the east at monitoring well GPW-20.

Delineation: The VC ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for VC at the Designated Property.

Benzene

- Ingestion PCL: 0.005 mg/L
- Critical Non-Ingestion PCL (Tier 1$^{Air}GW_{Inh-V}$ PCL): 180 mg/L

Ingestion PCL Exceedance Area: The benzene ingestion PCL exceedance zone consists of two areas encompassing nine monitoring wells: a small area at GPW-1 approximately 50 feet by 50 feet and longer plume approximately 600 feet long by 130 feet wide. The cumulative area of exceedance zones is approximately 72,000 square feet. The maximum benzene concentration, 2.8 mg/L, is observed in the sample from GPW-3 at the northwestern corner of the Designated Property.

Benzene in groundwater at the Designated Property is related to an offsite source. Releases of fuels from the underground storage tanks located at the adjoining property at 10138 Hirsch Road have resulted in petroleum hydrocarbons in shallow groundwater. The property at 10138 Hirsch Road is identified in the TCEQ's Petroleum Storage Tank Registry as JC & J Grocery (PST No. 24211) with two 6,000-gallon gasoline tanks and one 4,000-gallon diesel tank. The tanks were installed in 1981. Petroleum hydrocarbons released from the fuel systems have migrated southeastward onto and across the Designated Property.

An Innocent Owner Certification was granted by the TCEQ in 2000 for benzene in groundwater for a portion of the Designated Property.

Delineation: The benzene ingestion PCL exceedance zones are delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for benzene at the Designated Property.

Ethylbenzene

- Ingestion PCL: 0.7 mg/L
- Critical Non-Ingestion PCL (Site-specific ^{SW}GW PCL): 14,000

Ingestion PCL Exceedance Area: The ethylbenzene ingestion PCL exceedance zone consists of one small area encompassing one monitoring well with an area of approximately 2,500 sq feet. The maximum ethylbenzene concentration, 1.7 mg/L, is observed in the sample from GPW-3.

Ethylbenzene in groundwater at the Designated Property is related to the offsite underground storage tanks located at the adjoining property at 10138 Hirsch Road, JC & J Grocery (PST No. 24211). Petroleum hydrocarbons, including the component ethylbenzene, have migrated southeastward onto and across the Designated Property.

Delineation: The ethylbenzene ingestion PCL exceedance zone is delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for ethylbenzene at the Designated Property.

MTBE

- Ingestion PCL: 0.24 mg/L
- Critical Non-Ingestion PCL (Tier $1^{Air}GW_{Inh-V}$ PCL): 4,000 mg/L

Ingestion PCL Exceedance Area: The MTBE ingestion PCL exceedance zone consists of approximately 10,000 square feet. The maximum MTBE detection is groundwater at the Designated Property, 11 mg/L, is observed in the sample from MW-1.

MTBE in groundwater at the Designated Property is related to the offsite underground storage tanks located at the adjoining property at 10138 Hirsch Road, JC & J Grocery (PST No. 24211). Petroleum hydrocarbons, including the component MTBE, have migrated southeastward onto and across the Designated Property. The TCEQ issued an Innocent Owner Certification for MTBE in groundwater in 2000 for a portion of the Designated Property.

Delineation: The MTBE ingestion PCL exceedance zone is delineated by groundwater samples collected from nearby and downgradient monitoring wells.

Non-Ingestion PCL Exceedance Area: There is no non-ingestion PCL exceedance zone for MTBE at the Designated Property.

b. The level of contamination, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/L units.

Table D-1 presents the maximum COC concentrations in groundwater, groundwater ingestion PCL for each COC, and the groundwater non-ingestion PCL for each COC.

c. Its basic geochemical properties (e.g., whether the contaminant of concern migrates with groundwater, floats or is soluble in water).

The following information on the geochemical properties of the nine COCs detected in affected groundwater at concentrations exceeding the TRRP Tier 1 GW PCLs is from United States Department of Labor, Occupational Safety & Health Administration, OSHA Occupation Chemical Database, (https://www.osha.gov/chemicaldata) and the Chemical Book

(http://www.chemicalbook.com/ChemicalProductProperty_EN_CB8481427.htm).

Chlorobenzene	
CAS #	108-90-7
Synonyms	Benzene chloride; Chlorobenzol; MCB; Monochlorobenzene; Phenyl chloride
Physical State	Colorless liquid with an almond-like odor.
Molecular Weight	112.6 grams per mole
Density	0.876 grams/cubic centimeter
Specific Gravity	1.11 (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	0.5 grams/liter of water at 25 degrees C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

1,1-DCE	
CAS #	75-35-4
Synonyms	1,1-Dichloroethene; 1,1-Dichloroethylene; VDC; Vinylidene chloride monomer; Vinylidene chloride, inhibited; Vinylidene dichloride
Physical State	colorless liquid with a chloroform-like odor
Molecular Weight	96.94 grams per mole
Density	1.21 grams/cubic centimeter
Specific Gravity	1.213 (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	0.04% (20°C) – poorly soluble
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

1,2-DCA	
CAS #	107-06-2
Synonyms	Ethylene chloride; Glycol dichloride
Physical State	Colorless liquid with a pleasant, chloroform-like odor
Molecular Weight	99.0 grams per mole
Density	0.876 grams/cubic centimeter
Specific Gravity	1.24 (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	0.9 grams/liter of water at 25 degrees C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

cis-1,2-DCE	
CAS #	156-59-2
Synonyms	Cis-Dichloroethylene; (Z)-1,2-Dichloroethylene; Cis-1,2-Dichloroethene; (Z)-1,2-Dichloroethene; Cis-Acetylene dichloride;
Physical State	clear colorless liquid
Molecular Weight	96.94 grams per mole
Density	1.284 g/mL at 25 °C
Specific Gravity	1.28 (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	3,500 mg/L at 25° C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

PCE	
CAS #	127-18-4
Synonyms	Perchloroethene; Perchloroethylene; Perc; PCE
Physical State	colorless liquid with a sharp sweet odor
Molecular Weight	165.8 grams per mole
Density	1.62 grams per cubic centimeter
Specific Gravity	1.62 (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	150 mg/L at 25° C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

TCE	
CAS #	79-01-6
Synonyms	Ethylene trichloride; TCE; Trichloroethene; Trilene
Physical State	Colorless liquid (unless dyed blue) with a chloroform-like odor.
Molecular Weight	131.4 grams per mole
Density	1.46 grams/cubic centimeter
Specific Gravity	1.465 at 20 degrees C (sinks in water if in non-aqueous form; does not sink when in dissolved phase)
Solubility	1.0 gram/liter of water at 25 degrees C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

Vinyl Chloride	
CAS #	75-01-4
Synonyms	Chloroethene, Chloroethylene, Ethylene monochloride, Monochloroethene, Monochloroethylene, VC, Vinyl chloride monomer
Physical State	Colorless gas or liquid (below 7°F) with a pleasant odor at high concentrations.
Molecular Weight	62.5 grams per mole
Density	Not applicable (Gas)
Specific Gravity	Not applicable (Gas)
Solubility	2.7 g/L of water; slightly soluble in water
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

Benzene	
CAS #	71-43-2
Synonyms	Benzol; Phenyl hydride
Physical State	Colorless to light-yellow liquid with an aromatic odor.
Molecular Weight	78.1 grams per mole
Density	0.876 grams/cubic centimeter
Specific Gravity	0.88 (floats on water)
Solubility	1.8 grams per liter (g/L) of water at 25 deg C; Slightly soluble in water
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

Ethylbenzene	
CAS #	100-41-4
Synonyms	Ethylbenzol; Phenylethane
Physical State	Colorless liquid with an aromatic odor.
Molecular Weight	106.2 grams per mole
Density	0.876 grams/cubic centimeter
Specific Gravity	0.87 (floats on water)
Solubility	1.0 grams/liter of water at 25 degrees C
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

MTBE	
CAS #	1634-04-4
Synonyms	Methyl *tertiary*-butyl ether; Methyl *tert*-butyl ether; Methyl *t*-butyl ether; *tert*-Butyl methyl ether; tBME; *tert*-BuOMe
Physical State	colorless liquid
Molecular Weight	88.15 grams per mole
Density	0.7404 grams/cubic centimeter
Specific Gravity	0.74 (floats on water)
Solubility	26 grams/liter of water at 20 degrees C – moderately soluble
Migration with Groundwater	Migrates with groundwater when dissolved, but at a slower velocity due to sorption to aquifer solids.

Table D-1

Protective Concentrations for Groundwater - Ingestion and Non-Ingestion Values

Hirsch Road Properties - MSD Application

Chemical of Concern	Highest Detected Concentration in Groundwater based on Current Conditions		Ingestion PCL	Non-Ingestion PCL		Exceedance of Non-Ingestion PCL?
		Sample Location and Date	Residential Tier 1 $^{GW}GW_{Ing}$ PCL	Vapor Inhalation: Residential Tier 1 $^{Air}GW_{Inh}$ PCL	Groundwater to Surface Water: Site-Specific ^{SW}GW PCL	
	mg/L		mg/L	mg/L	mg/L	
Chlorobenzene	1.21	MW-42 - 9/24/2014	0.1	1,200	21,000	No
1,1-DCE	0.18	MW-24 - 3/8/2012	0.007	1,700	750	No
1,2-DCA	0.0142	MW-39A - 1/9/2004	0.005	33	2,100	No
cis-1,2-DCE	0.302	MW-34 - 11/19/2004	0.07	1,200	240,000	No
PCE	0.0692	MW-39A - 1/9/2004	0.005	500	49,000	No
TCE	0.193	MW-34 - 11/19/2004	0.005	24	23,000	No
VC	0.14	MW-39A - 1/9/2004	0.002	3.8	3,100	No
Benzene	2.8	GPW-3 - 3/27/2013	0.005	180	2,100	No
Ethylbenzene	1.7	GPW-3 - 3/27/2013	0.7	30,000	14,000	No
MTBE	11	MW-1 - 3/8/2001	0.24	4,000	650,000	No

mg/L - milligrams per liter

PCL - Protective Concentration Limit

Blue shading indicates applicable Ingestion PCL

Green shading indicates applicable citical Non-Ingestion PCL

Appendix E

A table displaying the following information for each contaminant of concern, to the extent known:

a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/kg for soils and mg/L for groundwater.

b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences.

Appendix E

A table displaying the following information for each contaminant of concern, to the extent known:

a. The maximum concentration level for soil and groundwater, the ingestion protective concentration level, and the non-ingestion protective concentration level, all expressed as mg/kg for soils and mg/L for groundwater.

b. The critical protective concentration level without the municipal setting designation, highlighting any exceedences.

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a. **Table E – a1 – Maximum COC Concentration Levels for Soil.** Table E-a1 presents the maximum COC concentration levels for soil, the ingestion based PCLs, and the non-ingestion PCLs, expressed as milligrams per kilogram (mg/kg).

Soils with TCE exceedances at the former Pit B were excavated and removed in November 2005. Pit B was excavated to a depth of between 12 and 13 feet bgs and backfilled with clean imported material. Soil samples SB-39, SB-41, HVE-11 were located in the area of excavation and the soils associated with these samples have been removed.

Table E –a2 - Maximum COC Concentration Levels for Groundwater. Table E–a2 presents maximum COC concentration levels for groundwater, the ingestion PCLs, and the non-ingestion PCLs expressed as milligrams per liter (mg/L).

b. The critical PCLs with and without the MSD for each COC are indicated in **Table E-a1** for soils and **Table E-a2** for groundwater. The critical PCLs for soils without the MSD are Tier 1 $^{GW}Soil_{Ing}$ PCLs. The critical PCLs for groundwater without the MSD are Tier 1 GW_{Ing} PCLs.

Without the MSD, the concentration of each of the COCs exceeds the ingestion PCLs in soil and groundwater. With the MSD, the potential groundwater ingestion pathway is eliminated and there are no exceedances of the remaining non-ingestion PCLs for soil and groundwater.

Table E – a1
Maximum COC Concentration Levels for Soil
Hirsch Road Properties – MSD Application
10100 and 10120 Hirsch Road, Houston, Texas

Chemical of Concern (COCs)	**Residential Use (0.5-acre source area)** (mg/kg)			Sample ID	Sample Depth (ft bgs)	Sample Date	Maximum COC Concentration (mg/kg)
	Ingestion -Based PCL	Non Ingestion-Based PCLs					
	${}^{GW}Soil_{Ing}$ (critical PCL without MSD)	${}^{Tot}Soil_{IComb}$ (critical PCL with MSD)	${}^{Air}Soil_{Inh-v}$				
Chlorobenzene	1.1	520	770	SB-22	12-14	3/5/1998	**0.6**
1,1-Dichloroethene	0.05	2,300	5,200	SB-7	6.3-6.9	3/3/1998	**3.0**
1,2-Dichloroethane	0.014	11	14	SB-7	6.3-6.9	3/3/1998	**1.3**
cis-1,2-Dichloroethene	0.25	140	920	OP-34-2	10-12	11/12/1996	**48**
Tetrachloroethene	0.05	710	940	HVE-11	10-12	10/20/1998	**550**
Trichloroethene	0.034	18	31	OP-34-2	10-12	11/12/1998	**14**
Vinyl Chloride	0.022	3.7	43	VE-2	6-8	10/20/1998	**0.092**
Benzene	0.026	120	160	SB-41	6-8	2/24/2000	**53**
Ethylbenzene	7.6	6,400	29,000	SB-41	6-8	2/24/2000	**370**
MTBE	0.62	800	1400	GPW-14	17.5-20	9/2006	**0.17**

Notes:

Protective Concentration Levels (PCLs) identified from Texas Risk Reduction Program Tier 1 Tables, 0.5-acre source area

${}^{GW}Soil_{Ing}$ - PCL for soil to groundwater (ingestion exposure pathway)

${}^{Tot}Soil_{Comb}$ - PCL for the total soil combined exposure pathway (non-ingestion)

${}^{Air}Soil_{Ing}$ - PCL for the soil to air exposure pathway (non-ingestion)

ft bgs - feet below ground surface

mg/kg – milligrams per kilogram

Tan shading indicates critical ingestion PCLs without the MSD.

Green shading indicates the critical non-ingestion PCLs with the MSD.

Bolded concentration indicates the result exceeded the ingestion PCL.

Table E – a2

Maximum COC Concentration Levels for Groundwater

Hirsch Road Properties – MSD Application

10100 and 10120 Hirsch Road, Houston, Texas

Chemical of Concern (COC)	Residential Property Use (mg/L)			Sample ID	Sample Date	Maximum COC Concentration (mg/L)
	Ingestion-Based PCL	Non-Ingestion-Based PCL				
	${}^{GW}GW_{Ing}$ (critical PCL without MSD)	${}^{Air}GW_{Ing-v}$	${}^{SW}GW$			
Chlorobenzene	0.1	1,200	21,000	MW-12	09/22/10	**1.8**
1,1-Dichloroethene	0.007	1,700	750	MW-6	11/19/96	**1.9**
1,2-Dichloroethane	0.005	33	2,100	MW-6	05/13/97	**0.034**
cis-1,2-Dichloroethene	0.07	1,200	240,000	MW-23	04/19/06	**3.3**
Tetrachloroethene	0.005	500	49,000	MW-23	04/19/06	**6.5**
Trichloroethene	0.005	24	23,000	MW-23	04/19/06	**0.73**
Vinyl Chloride	0.002	3.8	3,100	GPW-2R	09/10/08	**1.7**
Benzene	0.005	180	2,100	GPW-14	10/31/2007	**12**
Ethylbenzene	0.7	30,000	14,000	GPW-3	2/28/2012 and 3/27/2013	**1.7**
MTBE	0.24	4,000	650,000	MW-1	3/8/2001	**11**

Notes:

Protective Concentration Levels (PCLs) from Texas Risk Reduction Tier 1 Tables, 0.5-acre source area

mg/L –milligrams per liter

${}^{GW}GW_{Ing}$ - PCL for soil to groundwater through the ingestion exposure pathway

${}^{Air}GW_{Inh-V}$ - PCL for the soil to air exposure pathway

${}^{SW}GW$ PCL – Groundwater to surface water exposure pathway. Tier 2 calculations developed in the 2003 APAR.

Bolded concentration indicates that the result exceeded the ingestion PCL.

Tan shading indicates critical ingestion PCLs without the MSD.

Green shading indicates the critical non-ingestion PCLs with the MSD.

Appendix F

If the plume extends beyond the limits of property owners listed in this application, list the owners of the additional property beneath which the plume(s) extend(s), and a summary of interactions with those property owners about the plume(s) and this MSD application.

Please Note: You are not required under this item to notify affected property owners, only to provide a summary of who affected property owners are, and if there have been any communications. "No contact” can be an acceptable answer.

Appendix F

If the plume extends beyond the limits of property owners listed in this application, list the owners of the additional property beneath which the plume(s) extend(s), and a summary of interactions with those property owners about the plume(s) and this MSD application.

Please Note: You are not required under this item to notify affected property owners, only to provide a summary of who affected property owners are, and if there have been any communications. "No contact" can be an acceptable answer.

The plume of COC concentrations in groundwater exceeding the ingestion PCLs extends off-site approximately 150 feet to the east of the designated property. Groundwater COC concentrations for cis-1,2-DCE and VC exceeded the ingestion PCLs in samples collected in January 2014 from monitoring wells GPW-20 and GPW-21. The area of the ingestion PCL exceedance is delineated by the downgradient monitoring wells GPW-22 and GPW-23. Historical COC concentrations indicate that the plume is stable or shrinking.

The affected off-site property owners beneath which the ingestion PCLs are exceeded:

Edmond Davis, Jr. (owner of lots 59, 60, 61, 62 and 63 block 5 Bristol Place Subdivision
5301 Pate Road
Single family residential, 0.7576 and 0.1894 acres
HCAD ID No. 0760190050060 and 0760190050059

Audrey T. Robbins (owner of lot 64, block 6, Bristol (Place subdivision)
5206 Pate Road
Single family residential, 0.1768
HCAD ID. No. 0760190060064

Guadalupe R. Martinez (owner of lots 51 and 52, block 5, Bristol Place subdivision)
5214 Westbrook Road
Single family residential, 0.3788 acres
HCAD ID. No. 0760190050052

The property owners of the affected properties were notified that their property is more likely than not to contain chemicals of concern in the groundwater at concentrations exceeding the residential assessment levels beneath their property. The affected property owners were notified by Georgia-Pacific Corporation via written letters dated August 25 or 26, 2006. No further notifications have been made. Copies of the Notification Letters are included as **Appendix F**.

Although affected groundwater exists beneath these affected properties, none of the concentrations exceed the groundwater to air ($^{Air}GW_{Ing\text{-}v}$) non-ingestion PCLs.

TEXAS RISK REDUCTION PROGRAM
NOTIFICATION DOCUMENTATION

FORMER GEORGIA-PACIFIC HOUSTON LIGNIN PLANT
VCP #1116
GEORGIA-PACIFIC CORPORATION
HOUSTON, TEXAS

To comply with Texas Risk Reduction Program (TRRP) notification requirements set forth in 30 TAC §350.55, the following property owners were notified by letter that their property is more likely than not affected with contamination originating from the Former Georgia-Pacific Houston Lignin Plant located at 10120 Hirsch Road, Houston, Texas 77016:

City of Houston (Pate Road and Westbrook Road)
Attn: Ms. Anna Russell, City Secretary
Office of the City Secretary
City Hall Annex
901 Bagby, Rm P101
Houston, Texas 77002

Mr. N. J. Dugas (owner of lots 65 and 66, block 6 of Bristol Place subdivision)
5208 Pate Road
Houston, Texas 77016-4006

Ms. Audrey T. Robbins
c/o Estate of Cleophas Robbins (owner of lot 64, block 6 of Bristol Place subdivision)
5206 Pate Road
Houston, Texas 77016-4006

Ms. Nilta J. Jones (owner of lots 67 and 68, block 6 of Bristol Place subdivision)
5310 Pate Road
Houston, Texas 77016-4008

Mr. Edmond Davis, Jr. (owner of lots 60-63, block 5 of Bristol Place subdivision)
5301 Pate Road
Houston, Texas 77016-4007

Ms. Guadalupe R. Martinez (owner of lots 51 and 52, block 5 of Bristol Place subdivision)
5214 Westbrook Road
Houston, Texas 77016-3631

Chemetall Oakite
Attn: Mr. Dale Joly, Plant Manager
10100 Hirsch Road
Houston, Texas 77016

Georgia-Pacific Corporation

Julie Raming

Ms. Julie Raming
Field Services Manager
Remediation and Acquisitions/Divestitures

8/31/06
Date

TEXAS RISK REDUCTION PROGRAM
NOTIFICATION DOCUMENTATION

FORMER GEORGIA-PACIFIC HOUSTON LIGNIN PLANT
VCP #1116
GEORGIA-PACIFIC CORPORATION
HOUSTON, TEXAS

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 31st day of August, 2006.

Margaret Casteel
Notary Public

Margaret Casteel
Notary Public, State of Texas
My Commission Expires:
April 28, 2010

April 28, 2010
My Commission Expires

ENSR | AECOM

ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Chemetall Oakite
Attn: Mr. Dale Joly, Plant Manager
10100 Hirsch Road
Houston, Texas 77016

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Mr. Joly,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels on your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

J:\03060-Georgia-Pacific\03060-55 Lignin Plant\2005\2006 Report and Tables\FINAL Report\Landowner Notification Letters\G-P Landowner Notification_Chemetall.doc

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ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

City of Houston
Attn: Ms. Anna Russell, City Secretary
Office of the City Secretary
City Hall Annex
901 Bagby, Room P101
Houston, Texas 77002

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Ms. Russell,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath the City owned right of ways along portions of Pate Road and Westbrook Road. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

J:\03060-Georgia-Pacific\03060-55 Lignin Plant\2005\2006 Report and Tables\FINAL Report\Landowner Notification Letters\G-P Landowner Notification_City Secretary.doc

ENSR | AECOM

ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Ms. Nilta J. Jones
5310 Pate Road
Houston, Texas 77016-4008

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Ms. Jones,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

J:\03060-Georgia-Pacific\03060-55 Lignin Plant\2005\2006 Report and Tables\FINAL Report\Landowner Notification Letters\G-P Landowner Notification_5310 Pate.doc

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ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Mr. Edmond Davis, Jr.
5301 Pate Road
Houston, Texas 77016-4007

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Mr. Davis,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

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ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Ms. Guadalupe R. Martinez
5214 Westbrook Road
Houston, Texas 77016-3631

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Ms. Martinez,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

ENSR | AECOM

ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Mr. N.J. Dugas
5208 Pate Road
Houston, Texas 77016-4006

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Mr. Dugas,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

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ENSR
4888 Loop Central Drive, Suite 600, Houston, Texas 77081-2214
T 713.520.9900 F 713.520.6802 www.ensr.aecom.com

August 25, 2006

Ms. Audrey T. Robbins
c/o Estate of Cleophas Robbins
5206 Pate Road
Houston, Texas 77016-4006

Subject: Notification of Soil and Groundwater Sampling
Georgia-Pacific Corporation – Former Houston Lignin Plant
10120 Hirsch Road
Houston, Texas 77016

Dear Ms. Robbins,

On behalf of Georgia-Pacific Corporation, ENSR is notifying you that subsurface soil and groundwater samples were collected in November 2004 and September 2005 from several parcels of land east of the former Georgia-Pacific property (now Dallas Chemical) located at 10120 Hirsch Road, Houston, Texas. Results from the sampling events indicate that it is more likely than not that chemicals of concern in the groundwater exceed the residential assessment levels beneath your property. The impacts are limited to the uppermost transmissive zone.

The assessment of the former Georgia-Pacific facility and the properties to the east of the facility are being conducted under the Texas Commission on Environmental Quality (TCEQ) Texas Risk Reduction Program (TRRP). Currently, Tier 1 Protective Concentration Levels (PCLs) are being used as the critical human health PCLs.

If you would like to receive a copy of the sampling information from Georgia-Pacific, please submit a written request to Georgia-Pacific Corporation, Attn. Julie B. Raming, 133 Peachtree Street, Atlanta, Georgia 30303.

Sincerely yours,

Priscilla Gandara
Staff Geologist

Donald R. Morgan, P.G.
Project Manager

cc: Julie B. Raming – Georgia-Pacific Corporation
Kevin W. Behrens, P.G. – ENSR

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WESLAYAN STATION
HOUSTON, Texas
772779998
4841490032-0098
08/25/2006 (800)275-8777 02:45:33 PM

Sales Receipt

Product Description	Sale Qty	Unit Price	Final Price
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218439		
Issue PVI:			$2.79
HOUSTON TX 77002			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218446		
Issue PVI:			$2.79
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218453		
Issue PVI:			$2.79
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218460		
Issue PVI:			$2.79
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218477		
Issue PVI:			$2.79
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218484		
Issue PVI:			$2.79
HOUSTON TX 77016			$0.39
First-Class			
0.40 oz.			
Certified			$2.40
Label #:	70053110000381218491		
Issue PVI:			$2.79
Total:			$19.53

Paid by:
Visa $19.53
Account #: XXXXXXXXXXXX4808
Approval #: 04558B
Transaction #: 367
23903140184

Bill#:1000200012903
Clerk:13

All sales final on stamps and postage.
Refunds for guaranteed services only.
Thank you for your business.

Customer Copy

Receipt for Certified letters sent to landowners, Chemetall, and City Secretary regarding availability of Report.

Appendix G

A statement as to whether the source of the plume has been removed, the plume of contamination is stable (i.e. no change) or contracting, and the plume is delineated, with the basis for that statement. Please include historical sampling data.

Appendix G

A statement as to whether the source of the plume has been removed, the plume of contamination is stable (i.e. no change) or contracting, and the plume is delineated, with the basis for that statement. Please include historical sampling data.

The sources of COCs detected in groundwater have been removed. Chemical operations were terminated on the northern portion of the Designated Property in about 1969 and on the southern portion in about 2002. As such, there has been no potential for releases after these dates. The former potential COC source areas for affected soil and groundwater at the Designated Property include the former tank areas, earthen pits/lagoons, sanitary line, and the former off-site JC & J Grocery's Pit Stop gasoline station**.**

The results from soil and groundwater sampling activities conducted at the Designated Property during the period from 1995 to 2014 have provided delineation of the area of affected soil and groundwater. Additionally, these data demonstrate that the area of affected groundwater is stable and/or shrinking.

Historical summaries of soil and groundwater sampling results for the northern portion of the Designated Property are presented in **Tables G-1 and G-2.** Historical summaries of soil and groundwater sampling results for the southern portion of the Designated Property are presented in **Tables G-3 and G-4.**

Potential Source Areas - Northern Portion of the Designated Property

The aboveground tanks associated with the chemical activities located on the northern portion of the Designated Property remain in place but have reportedly been inactive since about 1969 or for more than 40 years. The sanitary sewer line was reportedly used to convey spent chemicals associated with the previous chemical activity for off-site disposal for treatment. The use of the sanitary sewer line ceased about 1969. The majority of the chemical activity pits were active from about the mid 1950s and 1960s until about the mid 1960s, but they were all inactive by at the latest 1980 or have been inactive for at least 35 to 50 years. The pits were used as temporary product and waste storage.

Chemical activities in the northern portion of the Designated Property were terminated in about 1969 and the soil and groundwater in those areas has been fully assessed in the source areas. The TCEQ has concurred that the concentrations remaining in soil are protective of groundwater. The northern portion of the Designated Property is currently occupied by the active RC Transportation, Inc., for the transportation, transfer, storage, and shipping of bulk materials.

Potential Source Areas - Southern Portion of the Designated Property

Potential sources of COCs identified from historical activities on the southern portion of the Designated Property have been removed. Operations at the property were discontinued in December 2002. Many of the potential source areas were closed or removed prior to the cessation of operations. Buildings and facilities related to the former operations have been demolished and removed. The southern portion of the Designated Property is currently vacant with the concrete slabs of several of the former buildings currently in-place.

Soil removal activities were conducted at former Pit B in November 2005. Pit B was a historic pre-Resource Conservation and Recovery Act (RCRA) waste management pit operated by Dixie Chemical, the former owner of the facility. The exact processes associated with and waste streams that entered Pit B are unknown. The estimated extent of affected soil was determined based on the results of previous site assessment activities, visual evidence of affected materials during excavation, and field screening during excavation. Approximately 996 cubic yards of material were excavated and transported off-site to the BFI Blueridge Processing Facility in Fresno, Texas. The excavation was backfilled with imported material and compacted. The results for confirmation soil sampling demonstrated that:

- COC concentrations in the soil remaining in-place at the Designated Property are below the Tier 1 $^{Tot}Soil_{Comb}$ PCLs (non-ingestion PCLs)
- COC concentrations in the soil remaining in-place at the horizontal limits of the excavation are protective of groundwater ingestion.
- Concentrations of 11 VOCs in soil remaining in-place at the bottom of the excavation exceeded levels protective of groundwater ingestion (Tier 1 $^{GW}Soil_{Ing}$ PCLs). However, only two of these VOCs (1,2-dichloroethane and benzene) are present in groundwater downgradient of the former Pit B at concentrations exceeding Tier 1 $^{GW}GW_{Ing}$ PCLs.
- Arsenic and chromium in the soil remaining in-place in the area of former Pit B are not likely to leach into groundwater at concentrations above the ingestion PCLs.

Geochemical evaluations indicate that reducing conditions are present in the eastern part of the Designated Property. These reducing conditions degrade the chlorinated COCs by natural attenuation. These natural attenuation processes have resulted in the overall stability of the chlorinated COC plumes.

Potential Source Area - Off-Site

The former JC & J Grocery, a registered petroleum storage tank site, located north of the Designated Property has been inactive since before 2001. Available records indicate that the underground storage tanks and fuel system remain in-place. Petroleum hydrocarbons detected in the groundwater at the Designated Property are likely related to releases from the fuel system at the former JC & J Grocery. The TCEQ has granted an Innocent Owner certification for benzene and MTBE for a portion of the Designated Property.

Table G - 1
Summary of Soil Analytical Results - Georgia-Pacific (10130 Hirsch Road)
MSD Application - Hirsch road Properties

Sample ID	Depth (feet)	EPA 6020 (mg/kg)		EPA 8260 (mg/Kg)																		
		Arsenic	Chromium (III)	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trimethylbenzene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,2-Dichloropropane	1,4-Dichlorobenzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone	Benzene	Bromodichloromethane	Bromoform	Bromomethane
Ingestion Protective Value (Tier 1 $^{GW}Soil_{Ing}$ PCL - residential)		5	2,400	1.6	1.4	0.02	18	0.05	0.00053	49	18	0.014	0.023	2.1	29	0.32	4.9	43	0.026	0.065	0.63	0.13
Non-ingestion Protective Value (Tier 1 $^{Tot}Soil_{Comb}$ PCL - residential)		24	33,000	53,000	65	18	11,000	2,300	0.2	150	720	11	61	250	40,000	270	5,900	66,000	120	98	400	46
Non-ingestion Protective Value (Tier 1 $^{Air}Soil_{Inh-V}$ PCL - residential)		nv	nv	78,000	91	22	37,000	5,200	14	160	800	14	61	12,000	200,000	830	58,000	600,000	160	970	840	77
SB-67	0-2.5	21.9	87.6	<0.0055	<0.0038	<0.0048	<0.0049	<0.0067	<0.0031	0.022	<0.004	<0.0044	<0.0046	0.0066	<0.0077	<0.0047	0.005	0.092	0.035	<0.0053	<0.0025	<0.010
	5-7.5	0.773	4.97	<0.001	<0.00072	<0.00092	<0.00094	<0.0013	<0.00059	<0.00061	<0.00077	<0.00085	<0.00088	<0.00083	0.054	<0.00090	<0.00065	0.36	<0.00079	<0.001	<0.00048	<0.002
GPW-14	15-17.5	2.91	7.77	<0.0012	<0.00081	<0.001	<0.0011	<0.0014	<0.00065	<0.00068	<0.00086	<0.00095	<0.00099	<0.00092	<0.0016	<0.001	<0.00073	<0.00099	<0.00089	<0.0011	<0.00054	<0.0022
	17.5-20	0.231	4.3	<0.0012	<0.00082	<0.001	0.003	<0.0015	<0.00066	<0.00069	<0.00087	<0.00096	<0.001	<0.00094	0.013	<0.001	<0.00074	0.048	0.051	<0.0011	<0.00055	<0.0022
GPW-15	10-12.5	6.82	2.18	<0.0011	<0.00073	<0.00092	<0.00095	<0.0013	<0.00059	<0.00061	<0.00077	<0.00085	<0.00089	<0.00083	<0.0015	<0.00090	<0.00066	<0.00089	<0.00080	<0.001	<0.00048	<0.002
	17.5-20	3.07	3.6	<0.0011	<0.00077	<0.00097	<0.001	<0.0014	<0.00062	<0.00064	<0.00081	<0.00090	<0.00094	<0.00088	<0.0016	<0.00095	<0.00069	<0.00094	<0.00084	<0.0011	<0.00051	<0.0021
GPW-15R	25-26	4.88	9.71	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.0013	<0.0026	<0.032	<0.0011	<0.00066	<0.0013
GPW-16	2.5-5	1.41	12.5	<0.0011	<0.00074	<0.00094	<0.00096	<0.0013	<0.00060	<0.00062	<0.00078	<0.00087	<0.00090	<0.00084	<0.0015	<0.00091	<0.00067	<0.00090	<0.00081	<0.001	<0.00049	<0.002
	17.5-20	0.215	18.6	<0.0012	<0.00083	<0.0011	<0.0011	<0.0015	<0.00068	<0.00070	<0.00089	<0.00098	<0.001	<0.0017	<0.0017	<0.001	<0.00076	<0.001	<0.00091	<0.0012	<0.00056	<0.0023
GPW-17	7.5-10	5.44	2.43	<0.001	<0.00072	<0.00091	<0.00094	<0.0013	<0.00058	<0.00060	<0.00076	<0.00084	<0.00088	<0.00082	<0.0015	<0.00089	<0.00065	<0.00088	<0.00079	<0.001	<0.00048	<0.0019
	17.5-20	0.364	1.53	<0.0011	<0.00074	<0.00094	<0.00096	<0.0013	<0.00060	<0.00062	<0.00079	<0.00087	<0.00091	<0.00085	<0.0015	<0.00092	0.0007	<0.00091	<0.00081	<0.001	<0.00049	<0.002
GPW-18	2.5-5	0.539	4.55	<0.001	<0.00071	<0.00091	<0.00093	<0.0013	<0.00058	<0.00060	<0.00076	<0.00084	<0.00087	<0.00082	<0.0015	<0.00088	<0.00065	<0.00087	<0.00078	<0.001	<0.00048	<0.0019
	17.5-20	0.215	2.28	<0.0011	<0.00074	<0.00094	<0.00096	<0.0013	<0.00060	<0.00062	<0.00079	<0.00087	<0.00091	<0.00085	<0.0015	<0.00092	<0.00067	<0.00091	<0.00081	<0.001	<0.00049	<0.002
GPW-19	7.5-10	0.382	3.16	<0.001	<0.00072	<0.00092	<0.00094	<0.0013	<0.00058	<0.00061	<0.00077	<0.00085	<0.00088	<0.00082	<0.0015	<0.00089	<0.00065	0.0036	<0.00079	<0.001	<0.00048	<0.0019
	22.5-25	1.86	3.71	<0.0011	<0.00078	<0.00099	<0.001	<0.0014	<0.00063	<0.00066	<0.00083	<0.00092	<0.00096	<0.00089	<0.0016	<0.00097	<0.00071	<0.00096	<0.00086	<0.0011	<0.00052	<0.0021
GPW-20	7.5-10	0.294	3.32	<0.0011	<0.00073	<0.00092	<0.00095	<0.0013	<0.00059	<0.00061	<0.00077	<0.00085	<0.00089	<0.00083	<0.0015	<0.00090	<0.00066	<0.00089	<0.00080	<0.001	<0.00048	<0.002
	27.5-30	1.77	5.4	<0.0011	<0.00077	<0.00098	<0.001	<0.0014	<0.00063	<0.00065	<0.00082	<0.00091	<0.00095	<0.00089	<0.0016	<0.00096	<0.00070	<0.00095	<0.00085	<0.0011	<0.00052	<0.0021
GPW-21	7.5-10	0.613	4.38	<0.0011	<0.00073	<0.00093	<0.00095	<0.0013	<0.00059	<0.00062	<0.00078	<0.00086	<0.00089	<0.00084	<0.0015	<0.00091	<0.00066	<0.00089	<0.00080	<0.001	<0.00049	<0.002
	22.5-25	1.69	14	<0.0012	<0.00086	<0.0011	<0.0011	<0.0015	<0.00069	<0.00072	<0.00091	<0.001	<0.001	<0.00098	<0.0017	<0.0011	<0.00077	<0.001	<0.00094	<0.0012	<0.00057	<0.0023
MW-22	12.5-15	0.744	3.07	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0120	<0.012	<0.012	0.0083	<0.0059	<0.0059	<0.0059	<0.012
	22.5-25	1.1	7.26	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0066	<0.0130	<0.013	<0.013	0.0052	<0.0066	<0.0066	<0.0066	<0.013
MW-23	12.5-15	1.65	4.26	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0120	<0.012	<0.012	0.0081	<0.0058	<0.0058	<0.0058	<0.012
	22.5-25	1.32	6.51	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	0.00094 J	<0.012	<0.012	0.0091	<0.0061	<0.0061	<0.0061	<0.012

Notes:

All values are in milligrams per kilogram (mg/kg)
TRRP - Texas Risk Reduction Program
< - analyte was not detected at the listed concentrations
na - not analyzed
J Analyte detected at an estimated concentration below the method detection limit

nv - no published value
PCL - TRRP Protective Concentration Limits for 0.5-acre source area (December 2015 tables)

Table G - 1
Summary of Soil Analytical Results - Georgia-Pacific (10130 Hirsch Road)
MSD Application - Hirsch road Properties

Sample ID	Depth (feet)	EPA 8260 (mg/kg)																			
		Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromochloromethane	Ethylbenzene	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride	Total Xylenes
Ingestion Protective Value (Tier 1 $^{GW}Soil_{Ing}$ PCL - residential)		14	0.062	1.1	31	1	0.41	0.25	0.0066	0.049	7.6	0.62	0.41	3.3	0.05	8.2	0.49	0.036	0.034	0.022	120
Non-ingestion Protective Value (Tier 1 $^{Tot}Soil_{Comb}$ PCL - residential)		4,600	35	520	27,000	16	140	140	8	72	6,400	800	140	6,700	710	5,900	590	36	18	3.7	6,000
Non-ingestion Protective Value (Tier 1 $^{Air}Soil_{Inh-V}$ PCL - residential)		11,000	60	770	150,000	16	200	920	310	nv	29,000	1,400	200	11,000	940	63,000	920	90	31	43	9,400
SB-67	0-2.5	<0.0066	<0.0084	0.11	<0.0096	<0.0054	<0.0066	<0.005	<0.006	<0.004	0.27	<0.0049	<0.048	<0.0043	<0.0046	0.88	<0.009	<0.0033	<0.0049	<0.0081	1.1
	5-7.5	<0.0013	<0.0016	<0.00091	<0.0018	<0.001	<0.0013	<0.00095	<0.00065	<0.00077	<0.0011	<0.00093	<0.0092	<0.00083	<0.00088	<0.0012	<0.0017	<0.00063	<0.00093	<0.0015	<0.0041
GPW-14	15-17.5	<0.0014	<0.0018	<0.001	<0.0021	<0.0012	<0.0014	<0.0011	<0.00077	<0.00086	<0.0012	0.012	<0.010	<0.00092	<0.00099	<0.0013	<0.0019	<0.00071	<0.001	<0.0017	<0.0046
	17.5-20	<0.0014	<0.0018	<0.001	<0.0021	<0.0012	<0.0014	0.0087	<0.00078	<0.00087	<0.0012	0.17	<0.01	<0.00094	<0.001	<0.0013	<0.002	<0.00072	<0.0011	<0.0017	<0.0047
GPW-15	10-12.5	<0.0013	<0.0016	<0.00091	<0.0018	<0.001	<0.0013	<0.00096	<0.00069	<0.00077	<0.0011	<0.00093	0.013	<0.00083	<0.00089	<0.0012	<0.0017	<0.0063	<0.00093	<0.0015	<0.0042
	17.5-20	<0.0013	<0.0017	<0.00096	<0.0019	<0.0011	<0.0013	0.018	<0.00073	<0.00081	<0.0011	0.01	0.012	<0.00088	<0.00094	<0.0012	<0.0018	<0.00067	<0.00098	<0.0016	<0.0044
GPW-15R	25-26	<0.0016	<0.0013	<0.00093	<0.0021	<0.0012	<0.0015	0.0016 J	<0.00079	<0.00079	<0.0011	0.058	<0.004	<0.00093	<0.00079	<0.00079	<0.0013	<0.00079	<0.00079	<0.00079	<0.002
GPW-16	2.5-5	<0.0013	<0.0016	<0.00092	<0.0019	<0.0011	<0.0013	<0.00097	<0.00070	<0.00078	<0.0011	<0.00095	<0.0094	<0.00084	<0.00090	<0.0012	<0.0018	<0.00064	<0.00095	<0.0016	<0.0042
	17.5-20	<0.0015	<0.0019	<0.001	<0.0021	<0.0012	<0.0015	<0.0011	<0.00080	<0.00089	<0.0012	0.019	<0.011	<0.00095	<0.001	<0.0013	<0.002	<0.00073	<0.0011	<0.0018	<0.0048
GPW-17	7.5-10	<0.0013	<0.0016	<0.00090	<0.0018	<0.001	<0.0013	<0.00095	<0.00068	<0.00076	<0.001	<0.00092	<0.0091	<0.00082	<0.00088	<0.0012	<0.0017	<0.00063	<0.00092	<0.0015	<0.0041
	17.5-20	<0.0013	<0.0016	<0.00093	<0.0019	<0.0011	<0.0013	<0.00098	<0.00071	<0.00079	<0.0011	<0.00095	<0.0094	<0.00085	<0.00091	<0.0012	<0.0018	<0.00065	<0.00095	<0.0016	<0.0042
GPW-18	2.5-5	<0.0012	<0.0016	<0.00090	<0.0018	<0.001	<0.0012	<0.00094	<0.00068	<0.00076	<0.001	<0.00092	<0.0091	<0.00082	<0.00087	<0.0011	<0.0017	<0.00062	<0.00092	<0.0015	<0.0041
	17.5-20	<0.0013	<0.0016	<0.00093	<0.0019	<0.0011	<0.0013	<0.00098	<0.00071	<0.00079	<0.0011	<0.00095	<0.0094	<0.00085	<0.00091	<0.0012	<0.0018	<0.00065	<0.00095	<0.0016	<0.0042
GPW-19	7.5-10	<0.0013	<0.0016	<0.00090	<0.0018	<0.001	<0.0013	<0.00095	<0.00069	<0.00077	<0.0011	<0.00093	<0.0092	<0.00082	<0.00088	<0.0012	<0.0017	<0.00063	<0.00093	<0.0015	<0.0041
	22.5-25	<0.0014	<0.0017	<0.00098	<0.002	<0.0011	<0.0014	<0.001	<0.00074	<0.00083	<0.0011	<0.001	<0.0099	<0.00089	<0.00096	<0.0013	<0.0019	<0.00068	<0.001	<0.0017	<0.0045
GPW-20	7.5-10	<0.0013	<0.0016	<0.00091	<0.0018	<0.001	<0.0013	<0.00096	<0.00069	<0.00077	<0.0011	<0.00094	<0.0092	<0.00083	<0.00089	<0.0012	<0.0017	<0.00063	<0.00094	<0.0015	<0.0042
	27.5-30	<0.0014	<0.0017	<0.00097	<0.002	<0.0011	<0.0014	<0.0033	<0.00074	<0.00082	<0.0011	<0.001	<0.0098	<0.00089	0.0011	<0.0012	<0.0018	<0.00068	0.0024	<0.0016	<0.0044
GPW-21	7.5-10	<0.0013	<0.0016	<0.00092	<0.0019	<0.001	<0.0013	<0.00096	<0.00070	<0.00078	<0.0011	<0.00094	<0.0093	<0.00084	<0.00089	<0.0012	<0.0017	<0.00064	<0.00094	<0.0016	<0.0042
	22.5-25	<0.0015	<0.0019	<0.0011	<0.0022	<0.0012	<0.0015	<0.0011	<0.00081	<0.00091	<0.0012	<0.0011	<0.011	<0.00098	<0.001	<0.0014	<0.002	<0.00075	<0.0011	<0.0018	<0.0049
MW-22	12.5-15	<0.012	<0.0059	<0.0059	<0.012	<0.0059	<0.012	<0.0059	<0.0059	<0.012	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0059	<0.0024	<0.018
	22.5-25	<0.013	<0.0066	<0.0066	<0.013	<0.0066	<0.013	<0.0066	<0.0066	<0.013	<0.0066	<0.0066	<0.0066	<0.0066	0.00091 J	<0.0066	<0.0066	<0.0066	<0.0066	<0.0026	<0.020
MW-23	12.5-15	<0.012	<0.0058	<0.0058	<0.012	<0.0058	<0.012	<0.0058	<0.0058	<0.012	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0058	<0.0023	<0.018
	22.5-25	<0.012	<0.0061	<0.0061	<0.012	<0.0061	<0.012	<0.0061	<0.0061	<0.012	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0061	<0.0024	<0.018

Notes:

All values are in milligrams per kilogram (mg/kg)
TRRP - Texas Risk Reduction Program
< - analyte was not detected at the listed concentrations
na - not analyzed
J Analyte detected at an estimated concentration below the method detection limit

nv - no published value
PCL - TRRP Protective Concentration Limits for 0.5-acre source area (December 2015 tables)

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				OP-1-3	OP-2-6	OP-2-8	OP-3-6	OP-3-7	OP-4-5	OP-4-6	OP-5-3	OP-6-4	OP-6-7	OP-6-8	OP-7-6	OP-7-7	OP-7-8	OP-8-6	OP-8-7	OP-9-6	OP-9-8	OP-10-5	OP-10-6	OP-11-3	OP-12-6	OP-12-8	OP-13-6	OP-13-8	OP-14-6
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	8-10	10-12	14-16	10-12	12-14	8-10	10-12	8-10	6-8	12-14	14-16	10-12	12-14	14-16	10-12	12-14	10-12	14-16	8-10	10-12	8-10	10-12	14-16	10-12	14-16	10-12
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	3/7/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/8/1995	3/8/1995	3/7/1995	3/8/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/8/1995	3/7/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995	3/2/1995
Volatile Organic Compounds																														
Benzene	0.026	120	160	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Ethylbenzene	7.6	6,400	29,000	nv	< 0.01	na	na	na	na	na	< 0.01	na	**0.31**	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Toluene	8.2	5,900	63,000	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Total Xylenes	120	6,000	9,400	nv	< 0.02	na	na	na	na	na	< 0.02	na	**0.49**	na	na	< 0.02	< 0.02	na	na	na	na	na	na	< 0.02	< 0.02	na	na	na	na	na
Tert-Butylbenzene	100	3,300	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon Tetrachloride	0.062	35	60	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Chloroform	1	16	16	nv	< 0.025	na	na	na	na	na	< 0.025	na	< 0.025	na	na	< 0.025	< 0.025	na	na	na	na	na	na	< 0.025	< 0.025	na	na	na	na	na
Chlorobenzene	1.1	520	770	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,2-Dichlorobenzene	18	720	800	nv	< 1.0	na	na	na	na	na	< 1.0	na	< 1.0	na	na	< 1.0	< 1.0	na	na	na	na	na	na	< 1.0	< 1.0	na	na	na	na	na
1,3-Dichlorobenzene	6.7	120	120	nv	< 1.0	na	na	na	na	na	< 1.0	na	< 1.0	na	na	< 1.0	< 1.0	na	na	na	na	na	na	< 1.0	< 1.0	na	na	na	na	na
1,4-Dichlorobenzene	2.1	250	12,000	nv	< 1.0	na	na	na	na	na	< 1.0	na	< 1.0	na	na	< 1.0	< 1.0	na	na	na	na	na	na	< 1.0	< 1.0	na	na	na	na	na
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,2-Dichloroethane	0.014	11	14	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.025	na	na	na	na	na	< 0.025	na	< 0.025	na	na	< 0.025	< 0.025	na	na	na	na	na	na	< 0.025	< 0.025	na	na	na	na	na
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Isopropylbenzene	350	4,300	9,200	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene Chloride	0.41	140	200	nv	< 0.025	na	na	na	na	na	< 0.025	na	< 0.025	na	na	< 0.025	< 0.025	na	na	na	na	na	na	< 0.025	< 0.025	na	na	na	na	na
Naphthalene	31	220	270	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	3.3	6,700	11,000	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Tetrachloroethene	0.05	710	940	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
Trichloroethene	0.034	18	31	nv	< 0.01	na	na	na	na	na	< 0.01	na	< 0.01	na	na	< 0.01	< 0.01	na	na	na	na	na	na	< 0.01	< 0.01	na	na	na	na	na
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl Chloride	0.022	3.7	43	nv	< 0.025	na	na	na	na	na	< 0.025	na	< 0.025	na	na	< 0.025	< 0.025	na	na	na	na	na	na	< 0.025	< 0.025	na	na	na	na	na
Metals																														
Arsenic	5	24	nv	5.9	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	na	< 0.75	< 0.75	< 0.75	na	**0.95**	**1.0**	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	< 0.75	**1.3**	**2.4**	< 0.75	**1.1**	< 0.75
Barium	440	8,100	nv	300	**20.0**	**16.0**	**5.8**	**22.0**	**3.1**	**26.0**	**6.9**	**13.0**	na	**15.0**	**8.6**	**6.2**	na	**48**	**14**	**13**	**19**	**5.9**	**36.0**	**5.1**	**40.0**	**6.8**	**13.0**	**21.0**	**81.0**	**28.0**
Cadmium	1.5	52	nv	nv	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	na	< 0.025	< 0.025	< 0.025	na	< 0.025	**0.044**	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.77	< 0.025	< 0.025	0.89	0.76
Chromium	2,400	33,000	nv	30	**0.6**	**0.9**	**0.6**	**0.9**	**0.9**	**4.4**	**0.9**	**1.2**	na	**280**	**6.4**	**1.7**	na	**1.6**	**1.0**	**1.2**	**1.9**	**1.2**	**1.7**	**2.3**	**1.8**	**1.3**	**1.7**	**1.0**	**3.0**	**2.2**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	**11**	**0.94**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	**2**	**2.8**	**2.6**	**1.9**	**2.5**	**3.6**	**3.2**	**3.8**	na	**2.5**	**1.7**	**3.5**	na	**3.6**	**2.9**	**2.8**	**4.4**	**1.9**	**4.9**	**3.4**	**3.1**	**4.2**	**2.8**	**2.6**	**6.2**	**4.6**

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				OP-14-8	OP-15-3	OP-16-5	OP-16-6	MW-2	MW-2	MW-1	MW-1	MW-3	MW-3	OP-20-1	OP-20-2	OP-21-1	OP-21-2	OP-22-1	OP-22-2	OP-23-1	OP-23-2	OPB-1	OPB-2	OPB-3	OPB-1C-1	OPB-1C-2	OPB-2C-1
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	14-16	8-12	8-10	10-12	6-8	12-14	6-8	12-14	8-10	18-20	8-10	12-13	8-10	0-4	8-10	0-4	0-4	10-12	0.5-1	0.5-1	0.5-1	8-10	14-15	2-4
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	3/8/1995	3/7/1995	3/8/1995	3/8/1995	10/2/1995	10/2/1995	10/2/1995	10/2/1995	10/2/1995	10/2/1995	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/21/1995	11/21/1995	11/20/1995	11/20/1995	10/2/1995	10/2/1995	10/2/1995	11/20/1995	11/20/1995	11/20/1995
Volatile Organic Compounds																												
Benzene	0.026	120	160	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Ethylbenzene	7.6	6,400	29,000	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Toluene	8.2	5,900	63,000	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Total Xylenes	120	6,000	9,400	nv	< 0.02	< 0.02	< 0.02	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Tert-Butylbenzene	100	3,300	nv	nv	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Carbon Tetrachloride	0.062	35	60	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Chloroform	1	16	16	nv	< 0.025	< 0.025	< 0.025	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Chlorobenzene	1.1	520	770	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,2-Dichlorobenzene	18	720	800	nv	< 1.0	< 1.0	< 1.0	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,3-Dichlorobenzene	6.7	120	120	nv	< 1.0	< 1.0	< 1.0	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,4-Dichlorobenzene	2.1	250	12,000	nv	< 1.0	< 1.0	< 1.0	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,2-Dichloroethane	0.014	11	14	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.025	< 0.025	< 0.025	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.01	< 0.01	< 0.01	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.01	< 0.01	< 0.01	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Isopropylbenzene	350	4,300	9,200	nv	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Methylene Chloride	0.41	140	200	nv	< 0.025	< 0.025	< 0.025	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Naphthalene	31	220	270	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	3.3	6,700	11,000	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Tetrachloroethene	0.05	710	940	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
Trichloroethene	0.034	18	31	nv	< 0.01	< 0.01	< 0.01	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	na	na	na
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl Chloride	0.022	3.7	43	nv	< 0.025	< 0.025	< 0.025	na	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	na	na	na	na	na	na	na	na	< 0.01	< 0.01	< 0.01	na	na	na
Metals																												
Arsenic	5	24	nv	5.9	< 0.75	< 0.75	< 0.75	< 0.75	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	< 1.0	< 1.0	**3.0**	< 1.0	< 1.0	< 1.0	< 1.0	1.0	< 1.0	**3**	**3**	**3**	< 1.0	< 1.0	< 1.0
Barium	440	8,100	nv	300	**77.0**	**33.0**	**42.0**	**21.0**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	1.5	52	nv	nv	< 0.025	< 0.025	**1.2**	< 0.025	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	2,400	33,000	nv	30	**0.8**	**4.8**	**3.7**	**1.8**	**2.6**	**0.6**	**3.0**	**2.0**	**0.8**	**1.4**	**1.0**	**1.0**	**1.0**	**6.0**	**2.0**	**4.0**	**5.0**	**1.1**	**29**	**2.8**	**12**	< 2	< 2	**4.0**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	<0.05	<0.05	<0.05	<0.05	<0.05	<0.05	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	< 0.05	< 0.05	< 0.05	< 0.1	< 0.1	< 0.1
Lead	1.5	500	nv	15	**2.9**	**3.4**	**6.4**	**2.6**	**4.6**	**2.6**	**5.2**	**3.5**	**7.4**	**1**	**3.0**	**3.1**	**2.1**	**4.3**	**3.3**	**3.7**	**4.4**	**1.6**	**29**	**14**	**21**	**1.9**	**3.4**	**5.2**

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				OPB-2C-2	OPB-2C-3	OPB-3C-1	OPB-3C-2	OPB-4C-1	OPB-4C-2	OPB-5C-1	OPB-5C-2	OP-24-1	OP-24-2	OP-25-1*	OP-25-2*	OP-26-1	OP-27-1	OP-27-2	OP-28-1	OP-28-2	OP-29-1	OP-34-1	OP-34-2	OP-39-1	OP-39-2
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	8-10	12-14	6-8	12-14	0-2	6-8	0-2	8-10	12-14	14-16	3-4	8-12	10-11	6-8	10-12	8-10	10-12	10-12	1-2	10-12	6-8	8-12
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/20/1995	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/11/1996	11/12/1996	11/12/1996	11/12/1996	11/13/1996	11/13/1996
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	**26**	**7.4**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Ethylbenzene	7.6	6,400	29,000	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	**250**	**82**	< 0.005	< 0.005	< 0.005	**0.009**	**0.019**	< 0.005	< 0.005	< 0.005	na	na
Toluene	8.2	5,900	63,000	nv	na	na	< 0.005	na	na	na	na	na	**0.005**	< 0.005	**76**	**23**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Total Xylenes	120	6,000	9,400	nv	na	na	< 0.005	na	na	na	na	na	**0.026**	< 0.005	**590**	**190**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Tert-Butylbenzene	100	3,300	nv	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon Tetrachloride	0.062	35	60	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Chloroform	1	16	16	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Chlorobenzene	1.1	520	770	nv	na	na	< 0.005	na	na	na	na	na	**0.028**	**0.012**	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,2-Dichlorobenzene	18	720	800	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3-Dichlorobenzene	6.7	120	120	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	2.1	250	12,000	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethane	18	11,000	37,000	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,2-Dichloroethane	0.014	11	14	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,1- Dichloroethene	0.05	23,000	5,200	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
cis-1,2-Dichloroethene	0.25	140	920	nv	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.01**	**5**	**48**	na	na
trans-1,2-Dichloroethene	0.49	590	720	nv	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Isopropylbenzene	350	4,300	9,200	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Methylene Chloride	0.41	140	200	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Naphthalene	31	220	270	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	3.3	6,700	11,000	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	**91**	**140**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	na	na	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Tetrachloroethene	0.05	710	940	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	**7.1**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
1,1,2-Trichloroethane	0.02	18	22	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	< 2.5	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na
Trichloroethene	0.034	18	31	nv	na	na	< 0.005	na	na	na	na	na	< 0.005	< 0.005	**41**	< 3.1	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**5**	**14**	na	na
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	na	na	na	na	na	na	na	na	**na**	na	na	na	na	na	na	na	**na**	**na**	na	na
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	na	na	na	na	na	na	na	na	**na**	na	na	na	na	na	na	na	**na**	**na**	na	na
Vinyl Chloride	0.022	3.7	43	nv	na	na	< 0.01	na	na	na	na	na	< 0.01	< 0.01	< 5	< 6.2	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	na	na
Metals																										
Arsenic	5	24	nv	5.9	< 1.0	< 1.0	**1.0**	< 1.0	< 1.0	**1.0**	**3**	**3**	na	na	**120**	na	na	na	na	na	na	na	na	na	< 1	< 1
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	**31.2**	na	na	na	na	na	na	na	na	na	**61.2**	**72.7**
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	**0.8**	na	na	na	na	na	na	na	na	na	< 0.5	< 0.5
Chromium	2,400	33,000	nv	30	**3.0**	**2.0**	**10**	< 2	**7.0**	< 2	**11.0**	**5.0**	na	na	**358.0**	na	na	na	na	na	na	na	na	na	**1.0**	< 1
Hexavalent Chromium	28	120	nv	nv	< 0.1	< 0.1	< 0.1	< 0.2	< 0.1	< 0.1	< 0.1	< 0.1	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	**4.8**	**2.9**	**7.7**	**2**	**5.5**	**3.1**	**6.9**	**7.4**	na	na	< 5	na	na	na	na	na	na	na	na	na	< 5	< 5

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				OPB-6	OPB-7	SB-32	SB-32	SB-33	SB-33	SB-34	SB-35	SB-36	MW-17	MW-22	MW-22	MW-23	MW-23	MW-24	MW-24	MW-25	MW-25	MW-26	MW-28	MW-29	MW-29
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	1-2	1-2	0-2	10-12	0-2	10-12	12-14	12-14	12-14	10-12.5	8-10	12-14	2-4	12-14	0-2	12-14	6-8	12-14	12-14	14-16	4-6	14-15
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	11/13/1996	11/13/1996	10/21/1998	10/21/1998	10/21/1998	10/21/1998	12/29/1998	12/29/1998	12/29/1998	10/15/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	12/28/1998	12/29/1998	12/29/1998
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	7.6	6,400	29,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	8.2	5,900	63,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylenes	120	6,000	9,400	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.034**	< 0.005
Tert-Butylbenzene	100	3,300	nv	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	0.062	35	60	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	1	16	16	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chlorobenzene	1.1	520	770	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.15**	< 0.005
1,2-Dichlorobenzene	18	720	800	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.28**	< 0.005	< 0.005	< 0.005	< 0.005	**0.028**	< 0.005
1,3-Dichlorobenzene	6.7	120	120	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	2.1	250	12,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.027**	< 0.005
1,1-Dichloroethane	18	11,000	37,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.006**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichloroethane	0.014	11	14	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1- Dichloroethene	0.05	23,000	5,200	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.056**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,2-Dichloroethene	0.25	140	920	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
trans-1,2-Dichloroethene	0.49	590	720	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	350	4,300	9,200	nv	na	na	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylene Chloride	0.41	140	200	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	31	220	270	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.025**	< 0.005
Styrene	3.3	6,700	11,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	0.05	710	940	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	0.02	18	22	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Trichloroethene	0.034	18	31	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.055**
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.007**
Vinyl Chloride	0.022	3.7	43	nv	na	na	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	< 0.01
Metals																										
Arsenic	5	24	nv	5.9	< 1	< 1	**28.1**	**1.1**	**2.3**	**0.8**	na	na	na	**2.9**	na	na	na	na	na	na	na	na	na	na	na	na
Barium	440	8,100	nv	300	**23.9**	na	na	na	**21.1**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	1.5	52	nv	nv	< 0.5	na	na	na	<0.05	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	2,400	33,000	nv	30	**6.0**	**10.0**	na	na	**8.0**	na	**2.0**	**4.0**	**6.0**	**1.0**	na	na	na	na	na	na	na	na	na	**2.0**	**11.0**	**13.0**
Hexavalent Chromium	28	120	nv	nv	na	na	< 0.01	< 0.01	NA	< 0.01	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	**5**	**11**	**91.6**	**3.2**	**5.7**	**4**	**3.8**	**3.3**	**2.5**	na	na	na	na	na	na	na	na	na	na	na	na	na

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				MW-30	MW-31	MW-32	MW-33	MW-34	MW-37	VE-1*	VE-2	VE-3	VE-4	HVE-1*	HVE-2	HVE-3	HVE-4	HVE-4	HVE-5	HVE-6	HVE-7	HVE-7	HVE-8	HVE-9	HVE-9
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	12-14	12-14	14-16	12-14	12-14	12-14	6-8	6-8	8-10	6-8	10-12	10-12	12-14	4-6	14-16	12-14	12-14	8-10	10-12	12-14	4-8	12-14
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	12/28/1998	12/28/1998	12/28/1998	12/28/1998	12/28/1998	12/28/1998	10/19/1998	10/20/1998	10/20/1998	10/20/1998	10/20/1998	10/20/1998	10/21/1998	10/19/1998	10/19/1998	10/19/1998	10/19/1998	10/22/1998	10/22/1998	10/19/1998	10/19/1998	10/19/1998
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**25**	< 0.005	**0.82**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	7.6	6,400	29,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**200**	< 0.005	**14**	< 0.005	< 0.005	< 0.005	< 0.005	**0.008**	< 0.005	**0.075**	< 0.005	< 0.005	**0.02**	< 0.005	< 0.005
Toluene	8.2	5,900	63,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**68**	< 0.005	**12**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylenes	120	6,000	9,400	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.008**	**480**	**0.011**	**37**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.12**	< 0.005	< 0.005	**0.021**	< 0.005	< 0.005
Tert-Butylbenzene	100	3,300	nv	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	0.062	35	60	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	1	16	16	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.2**	< 0.005	**0.039**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chlorobenzene	1.1	520	770	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	18	720	800	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	**0.036**	**0.014**
1,3-Dichlorobenzene	6.7	120	120	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	2.1	250	12,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	**0.052**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichloroethane	0.014	11	14	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	< 0.005	**0.3**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	**0.012**
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	< 0.005	**0.28**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.005	**0.012**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	**0.04**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	**0.032**
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	**0.028**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Isopropylbenzene	350	4,300	9,200	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.18**	< 0.005	**0.07**	< 0.005	< 0.005	< 0.005	**0.008**	**0.074**	< 0.005	< 0.025	< 0.005	< 0.005	**0.066**	< 0.005	< 0.005
Methylene Chloride	0.41	140	200	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.32**	< 0.005	**0.21**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	31	220	270	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	3.3	6,700	11,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**360**	< 0.005	**11**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.055**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	0.05	710	940	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.1**	< 0.005	**0.18**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.028**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	**0.046**	**0.056**
Trichloroethene	0.034	18	31	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2,4-Trimethylbenzene	49	150	160	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3,5-Trimethylbenzene	53	110	120	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl Chloride	0.022	3.7	43	nv	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	<0.01	**0.094**	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	<0.01	<0.01	< 0.01
Metals																										
Arsenic	5	24	nv	5.9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**120**
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**31.2**
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**0.8**
Chromium	2,400	33,000	nv	30	**2.0**	**2.0**	**5.0**	**3.0**	**2.0**	**4.0**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**358.0**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				HVE-10	HVE-10	HVE-11*	HVE-12	HVE-12	HVE-13	HVE-14	HVE-15	HVE-16	HVE-16	HVE-17	HVE-17	HVE-18	HVE-18	HVE-19	HVE-20	I-1	SB-1	SB-2	SB-3	SB-4	SB-5
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	6-8	12-14	10-12	4-6	10-12	10-12	10-12	10-12	0-2	10-12	8-10	10-12	4-8	10-12	10-12	10-12	0-1	10-12	12-14	12-14	14-16	14-16
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	10/19/1998	10/19/1998	10/20/1998	10/20/1998	10/20/1998	10/20/1998	10/20/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/13/1998	10/22/1998	10/22/1998	10/13/1998	10/20/1998	10/21/1998	3/2/1998	3/2/1998	3/2/1998	3/2/1998	3/2/1998
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	**0.1**	<0.62	**4.8 J**	**3.8**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.009**	< 0.005	**0.5**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	7.6	6,400	29,000	nv	**4.2**	<0.62	**66**	**40**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.024**	< 0.005	**2.4**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Toluene	8.2	5,900	63,000	nv	**0.86**	<0.62	**18 J**	**14**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.005**	< 0.005	**1.8**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylenes	120	6,000	9,400	nv	**12**	<0.62	**160**	**96**	**0.009**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.026**	< 0.005	**6.6**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tert-Butylbenzene	100	3,300	nv	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Carbon Tetrachloride	0.062	35	60	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	1	16	16	nv	**0.03**	<0.62	< 0.025	**0.16**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.032**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	1.1	520	770	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichlorobenzene	18	720	800	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	**0.027**	< 0.005	< 0.005	**0.16**	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,3-Dichlorobenzene	6.7	120	120	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.005**	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,4-Dichlorobenzene	2.1	250	12,000	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.06**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	0.014	11	14	nv	< 0.025	<0.62	**0.036**	**0.062**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.64**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.025	<0.62	**0.035**	**0.057**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.065**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.025	<0.62	**0.041**	**0.27**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.056**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.027**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isopropylbenzene	350	4,300	9,200	nv	< 0.025	<0.62	**0.078**	**0.07**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.047**	< 0.005	**0.026**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Methylene Chloride	0.41	140	200	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.27**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	31	220	270	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na
Styrene	3.3	6,700	11,000	nv	**8.7**	<0.62	**130**	**47**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**1.4**	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethene	0.05	710	940	nv	< 0.025	<0.62	**550**	**11**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.025	<0.62	< 0.025	< 0.025	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.025	<0.62	< 0.025	**0.12**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	0.034	18	31	nv	**0.041**	<0.62	**0.42**	**0.8**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.025	< 0.005	< 0.005	< 0.005	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	49	150	160	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na
1,3,5-Trimethylbenzene	53	110	120	nv	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	na	na	na	na
Vinyl Chloride	0.022	3.7	43	nv	< 0.05	<1.2	<0.05	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.05	< 0.01	< 0.01	< 0.01	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Metals																										
Arsenic	5	24	nv	5.9	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**5.2**	< 0.5	< 0.5	< 0.5	< 0.5	**0.5**
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**30.5**	na	na	na	na	na
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.5	na	na	na	na	na
Chromium	2,400	33,000	nv	30	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**115.0**	**2**	**4**	< 1	< 1	**1**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**16.6**	**1.9**	**4.6**	**2.3**	**2**	**5.2**

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				SB-6	SB-7	SB-7	SB-8	SB-9	SB-10	SB-10	SB-11	MW-11	SB-12	SB-12	SB-13	SB-14*	SB-15	MW-12	SB-16*	SB-16	SB-17	SB-18	SB-19	MW-14	SB-22
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	12-14	6.3-6.9'	14-16	14-16'	14-16	12-14	14-16	12-14	12.5-15	2-4	4-6	12-14	14-16	10-12	5-7.5	6-8	10-12	6-8	6-8	1-2'	17.5-20	12-14
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	3/3/1998	3/3/1998	3/3/1998	3/3/1998	3/3/1998	3/3/1998	3/3/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/4/1998	3/5/1998	3/5/1998	3/5/1998
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	< 0.05	**4.0**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Ethylbenzene	7.6	6,400	29,000	nv	< 0.05	**50**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	**10.0**	na	< 0.05	< 0.05	< 0.05	**2.0**	na	na	< 0.05	< 0.05	**20**	< 0.05	**0.9**
Toluene	8.2	5,900	63,000	nv	< 0.05	**40**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	**0.3**	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Total Xylenes	120	6,000	9,400	nv	< 0.05	**200**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**2.0**	**53**	na	< 0.05	< 0.05	< 0.05	**8.0**	na	na	< 0.05	< 0.05	**64**	< 0.05	**1.0**
Tert-Butylbenzene	100	3,300	nv	nv	< 0.05	**200**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**1.4**	**22**	na	< 0.05	< 0.05	< 0.05	**1.4**	na	na	< 0.05	< 0.05	< 0.05	< 0.05	**0.5**
Carbon Tetrachloride	0.062	35	60	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chloroform	1	16	16	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Chlorobenzene	1.1	520	770	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	**0.6**
1,2-Dichlorobenzene	18	720	800	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**3.0**	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	**0.2**
1,3-Dichlorobenzene	6.7	120	120	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**1.0**	**30**	na	**0.3**	< 0.05	< 0.05	**0.6**	na	na	< 0.05	< 0.05	< 0.05	< 0.05	**0.5**
1,4-Dichlorobenzene	2.1	250	12,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**0.3**	**15**	na	**0.3**	< 0.05	< 0.05	**2.0**	na	na	< 0.05	< 0.05	< 0.05	< 0.05	**0.1**
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.05	**0.2**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2-Dichloroethane	0.014	11	14	nv	< 0.05	**1.3**	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.05	**3.0**	< 0.05	< 0.05	**1.4**	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Isopropylbenzene	350	4,300	9,200	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	**2.0**	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	**1.0**	< 0.05	< 0.05
Methylene Chloride	0.41	140	200	nv	< 0.05	**1.3**	< 0.05	< 0.05	**2.0**	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Naphthalene	31	220	270	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Styrene	3.3	6,700	11,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Tetrachloroethene	0.05	710	940	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Trichloroethene	0.034	18	31	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Vinyl Chloride	0.022	3.7	43	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	na	< 0.05	< 0.05	< 0.05	< 0.05	na	na	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Metals																										
Arsenic	5	24	nv	5.9	< 0.5	**100**	na	**3.6**	< 0.5	< 0.5	< 0.5	< 0.5	**0.7**	**6.7**	**2.0**	na	na	na	**1.9**	**0.8**	**1.7**	< 0.5	< 0.5	**0.5**	< 0.5	**1**
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	2,400	33,000	nv	30	**3**	**150**	na	**9**	**4**	**2**	**1**	< 1	**3**	**27**	**10**	na	na	na	**10**	**16**	**15**	**5**	**8**	**2**	< 1	**2**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	**4.6**	**150**	na	**14**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				SB-23	MW-15	SB-24	SB-25	MW-16	MW-16	SB-47 (6-8)	SB-47 (18-20)	SB-48 (4-6)	SB-48 (14-16)	SB-49 (3-4)	SB-49 (15-16)	SB-50 (2-3)	SB-50 (14-15)	SB-51 (4-5)	SB-51 (17-18)	MW-27 (6-8)	MW-27 (12-14)	MW-35 (0-4)	MW-35 (10-12)	MW-41 (0-2)	MW-41 (9-10.5)
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	10-11	17.5-20	10-12	14-16	5-7.5	12.5-15	6-8	18-20	4-6	14-16	3-4	15-16	2-3	14-15	4-5	17-18	6-8	12-14	0-4	10-12	0-2	9-10.5
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	3/5/1998	3/5/1998	3/5/1998	3/5/1998	4/15/1998	3/5/1998	2/23/2000	2/23/2000	2/24/2000	2/24/2000	2/23/2000	2/23/2000	2/23/2000	2/23/2000	2/23/2000	2/23/2000	2/24/2000	2/24/2000	2/22/2000	2/22/2000	2/22/2000	2/22/2000
Volatile Organic Compounds																										
Benzene	0.026	120	160	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Ethylbenzene	7.6	6,400	29,000	nv	**0.3**	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.018**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Toluene	8.2	5,900	63,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Total Xylenes	120	6,000	9,400	nv	**0.1**	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Tert-Butylbenzene	100	3,300	nv	nv	< 0.05	< 0.05	< 0.05	**0.2**	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Carbon Tetrachloride	0.062	35	60	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chloroform	1	16	16	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chlorobenzene	1.1	520	770	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,2-Dichlorobenzene	18	720	800	nv	**0.2**	< 0.05	< 0.05	**0.2**	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3-Dichlorobenzene	6.7	120	120	nv	< 0.05	< 0.05	< 0.05	**0.3**	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,4-Dichlorobenzene	2.1	250	12,000	nv	**0.2**	< 0.05	< 0.05	**0.2**	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1-Dichloroethane	18	11,000	37,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2-Dichloroethane	0.014	11	14	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1- Dichloroethene	0.05	23,000	5,200	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
cis-1,2-Dichloroethene	0.25	140	920	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.048**	<0.005	**0.046**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
trans-1,2-Dichloroethene	0.49	590	720	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Isopropylbenzene	350	4,300	9,200	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005																
Methylene Chloride	0.41	140	200	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Naphthalene	31	220	270	nv	na	na	na	na	na	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Styrene	3.3	6,700	11,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Tetrachloroethene	0.05	710	940	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.940**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
1,1,2-Trichloroethane	0.02	18	22	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Trichloroethene	0.034	18	31	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.160**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,2,4-Trimethylbenzene	49	150	160	nv	na	na	na	na	na	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.006**	**2.00**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
1,3,5-Trimethylbenzene	53	110	120	nv	na	na	na	na	na	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.160**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
Vinyl Chloride	0.022	3.7	43	nv	< 0.05	< 0.05	< 0.05	< 0.05	< 0.01	< 0.01	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Metals																										
Arsenic	5	24	nv	5.9	< 0.5	< 0.5	< 0.5	< 0.5	**1**	< 0.5	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	2,400	33,000	nv	30	< 1	< 1	< 1	< 1	**3**	**1**	**3.66**	**6.15**	**6.85**	**2.820**	**1.71**	**4.33**	**7.34**	**4.83**	**4.18**	**4.38**	**4.17**	**2.66**	**3.59**	**1.67**	**6.13**	**1.81**
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	na	na	na	na	**6.1**	**3.7**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Table G - 2
Summary of Soil Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Analyte	TRRP Residential Tier 1 Protective Concentration Level (0.5-acre source area)				SB-37 (2-4)	SB-38 (6-9)	SB-39 (3-4)*	SB-40 (10-12)*	SB-41 (6-8)*	SB-42 (12-14)	SB-43 (0-2)	SB-44 (12-14)	SB-45 (14-16)	SB-46 (10-12)	G1 -12-14	G2 -4-6	G2 -12-14	G3 -0-2	G3 -4-6	G4 -4-6	G4- 8-10	G4 14-16	G5 -4-6	G5 14-16	G6- 4-6	G6 -8-10	G6 -14-16
	Ingestion PCL (without MSD)	Non-Ingestion PCL (with MSD)	Non-Ingestion PCL (with MSD)	TSBC	2-4	6-9	3-4	10-12	6-8	12-14	0-2	12-14	14-16	10-12	12-14	4-6	12-14	0-2	4-6	4-6	8-10	14-16	4-6	14-16	4-6	8-10	14-16
	$^{GW}Soil_{Ing}$ (mg/kg)	$^{Tot}Soil_{Comb}$ (mg/kg)	$^{Air}Soil_{Inh-V}$ (mg/kg)	(mg/kg)	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	2/24/2000	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001	5/29/2001
Volatile Organic Compounds																											
Benzene	0.026	120	160	nv	<0.005	**1.30**	**0.830**	**1.70 J**	**53**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Ethylbenzene	7.6	6,400	29,000	nv	<0.005	**11**	**44**	**23**	**370**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Toluene	8.2	5,900	63,000	nv	<0.005	**8.20**	**10.00 J**	**6.60**	**120**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.070**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Total Xylenes	120	6,000	9,400	nv	<0.005	**29.50**	**110**	**62**	**870**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.028**	< 0.005	**0.004 J**	**2.1**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tert-Butylbenzene	100	3,300	nv	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Carbon Tetrachloride	0.062	35	60	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chloroform	1	16	16	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Chlorobenzene	1.1	520	770	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.007**	**0.003 J**	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichlorobenzene	18	720	800	nv	<0.005	<0.005	<0.005	<0.005	<0.005	na	na	na	**0.010**	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.009**	**22.0**	**0.005**	< 0.005	< 0.005	< 0.005	**0.004 J**
1,3-Dichlorobenzene	6.7	120	120	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.066**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,4-Dichlorobenzene	2.1	250	12,000	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**1.9**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1-Dichloroethane	18	11,000	37,000	nv	<0.005	**0.006**	<0.005	<0.005	<0.005	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,2-Dichloroethane	0.014	11	14	nv	<0.005	**0.041**	<0.005	<0.005	**0.170**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.002 J**	< 0.005	**0.002 J**	< 0.005	< 0.005	< 0.005
1,1- Dichloroethene	0.05	23,000	5,200	nv	<0.005	**0.036**	<0.005	<0.005	<0.005	na	na	na	**0.007**	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
cis-1,2-Dichloroethene	0.25	140	920	nv	<0.005	0.005	**0.770**	<0.005	<0.005	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.070**	< 0.005	**0.290**	< 0.005	< 0.005	**0.030**
trans-1,2-Dichloroethene	0.49	590	720	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.002 J**	< 0.005	**0.003 J**	< 0.005	< 0.005	< 0.005
Isopropylbenzene	350	4,300	9,200	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	**0.065**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Methylene Chloride	0.41	140	200	nv	<0.005	**0.045**	<0.005	<0.005	**0.390**	na	na	na	**0.140**	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Naphthalene	31	220	270	nv	<0.005	**0.010**	**5.90 J**	**0.026**	**20 J**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.190**	**0.009**	**0.023**	**14.0**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Styrene	3.3	6,700	11,000	nv	<0.005	**13**	<0.005	**58**	**660**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,1,2-Tetrachloroethane	1.4	65	91	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2,2-Tetrachloroethane	0.023	30	nv	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Tetrachloroethene	0.05	710	940	nv	<0.005	<0.005	**0.025**	**0.140**	**0.110**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.640**	< 0.005	**0.002 J**	< 0.005	< 0.005	**0.002 J**
1,1,1-Trichloroethane	1.6	53,000	78,000	nv	na	na	na	na	na	na	na	na	na	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,1,2-Trichloroethane	0.02	18	22	nv	<0.005	<0.005	**0.084**	<0.005	<0.005	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Trichloroethene	0.034	18	31	nv	<0.005	<0.005	**45**	**0.016**	**0.052**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.094**	< 0.005	**0.015**	< 0.005	< 0.005	**0.002 J**
1,2,4-Trimethylbenzene	49	150	160	nv	<0.005	0.006	**9.40 J**	**0.061**	**29**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.940**	**0.003 J**	**0.013**	**4.1**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
1,3,5-Trimethylbenzene	53	110	120	nv	<0.005	<0.005	**5.60 J**	**0.021**	**0.97**	na	na	na	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	**0.690**	< 0.005	**0.004 J**	**1.5**	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Vinyl Chloride	0.022	3.7	43	nv	<0.010	<0.010	<0.010	<0.010	<0.010	na	na	na	<0.010	<0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	< 0.010	**0.007 J**	< 0.010	< 0.010	**0.008 J**
Metals																											
Arsenic	5	24	nv	5.9	na	na	na	na	na	**1.62**	**3.37**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Barium	440	8,100	nv	300	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Cadmium	1.5	52	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Chromium	2,400	33,000	nv	30	na	na	**212**	na	na	na	na	**0.354**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Hexavalent Chromium	28	120	nv	nv	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na
Lead	1.5	500	nv	15	na	**43.1**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na

Notes:

All values are in milligrams per kilogram

na - not analyzed

< - analyte not detected at the listed detection limit.

Bold - analyte was detected

Yellow shading - concentration exceeded residental assessment level (ingestion PCL)

J - estimated concentration

nv - no value

* - Soil associated with this sample was excavated and removed during the Pit B response action conducted in 2005.

TRRP Protective Concentration Limits (PCLs) based on Dec 2015 tables

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.01	2	0.1	0.05	0.015	1.1	0.01	0.1	0.015	0.2	0.0046	0.005	4.9	0.007	0.0003	0.07	1.2	0.6	0.005	0.005	0.075	15	0.12	2	22
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		nv	nv	nv	nv	nv	nv	nv	nv	nv	41,000	nv	80	43,000	1,700	32	160	190	1,200	33	120	17,000	1,000,000	12,000	670,000	1,000,000
On-Site Wells																										
GP-2R	11/1/2007	**0.0129**	NA	0.00424	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0061	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.013
	4/24/2008	0.0063	NA	0.000614 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0025 J	0.00075 J	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/11/2008	**0.0161**	NA	0.00163 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.011	0.014	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.00580	NA	0.000802 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0082	**0.0083**	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0083 J
	9/16/2009	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/24/2010	NS	NA	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-3	6/30/1998	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	0.0393	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	<0.005	NA	<0.005	NA	NA	<0.020	<0.011	<0.010	<0.100
	11/14/2000	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	0.0345	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	NA	NA	<0.005	NA	<0.005	NA	NA	<0.020	<0.021	<0.010	<0.100
	4/24/2003	<0.005	NA	<0.005	NA	<0.005	NA	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.015	**0.008**	NA	NA	<0.005	NA	**0.022**	NA	NA	<0.020	<0.057	<0.010	<0.100
	1/12/2004	0.00566	NA	<0.005	NA	<0.005	NA	<0.005	0.0265	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	<0.005	NA	<0.005	NA	NA	<0.020	<0.028	<0.010	<0.100
	11/19/2004	<0.005	NA	0.0926	NA	<0.005	NA	<0.005	**0.175**	<0.005	<0.005	<0.005	<0.005	0.059	<0.005	NA	NA	<0.005	NA	<0.005	NA	NA	<0.020	<0.039	<0.010	<0.100
	9/15/2005	NA	NA	NA	NA	NA	NA	<0.005	0.00393	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.080	<0.010	<0.010
GP-3R	10/31/2007	**0.0149**	NA	**0.431**	NA	0.0013 J	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0032 J	0.0006 U	0.0011 U	0.0006 U	NA	0.00094 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.011
	4/23/2008	**0.0171**	NA	**0.459**	NA	0.000691 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0032 J	0.0005 U	0.0007 U	0.0005 U	NA	0.00085 J	0.00056 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0062 J
	09/11/2008	0.00822	NA	**0.393**	NA	0.000269 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0025 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.00054 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.03
	03/25/2009	0.00726	NA	**0.348**	NA	0.00136 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0011 J	0.0005 U	0.0007 U	0.0005 U	NA	0.00053 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0046 J
	09/15/2009	0.00173 J	NA	0.0977	NA	0.000554 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0012 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	**0.0127**	**0.429**	0.00128 J	0.00050 U	0.00050 U	0.00050 U	0.0027 J	0.00050 U	0.00070 U	0.00050 U	NA	0.0011 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.00603	NA	**0.349**	NA	0.000735 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.003 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00094 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00518	NA	0.0862	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.016
	3/26/2013	0.00155 J	NA	**0.106**	NA	0.000847 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0012 J	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-1	3/9/1999	0.00624	NA	0.00286	NA	0.00101	NA	0.00624	0.00286 J	0.00101 J	<0.005	<0.005	<0.005	0.0023 J	0.00062 J	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.100	<0.010	<0.010
	11/13/2000	0.00658	NA	0.0708	NA	0.00197	NA	0.00658	0.0708	0.00197 J	<0.005	<0.005	<0.005	0.00099 J	<0.005	<0.005	0.00097 J	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.045	<0.010	<0.010
	4/22/2003	NA	NA	NA	NA	NA	NA	0.00722	0.00171	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.090	<0.010	<0.010
	1/9/2004	0.00719	NA	**0.717**	NA	0.005	NA	0.00754	**0.811**	0.005	<0.005	<0.005	<0.005	0.007	<0.005	NA	NA	<0.005	NA	<0.005	NA	NA	<0.020	<0.010	<0.010	<0.100
	11/16/2004	0.002	NA	0.002	NA	0.001	NA	0.00795	0.00353	0.001	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	<0.020	NA	NA
	9/14/2005	NA	NA	NA	NA	NA	NA	0.00923	**0.372**	NA	<0.005	<0.005	<0.005	0.0094	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.044	<0.010	<0.010
	9/13/2006	NA	NA	NA	NA	NA	NA	0.00448 J	0.00696	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/2/2007	NA	NA	NA	NA	NA	NA	0.0031 J	0.00265 J	0.000694 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/31/2007	0.0018 U	NA	0.00144 J	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.0018 U	NA	0.000831 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/11/2008	0.0018 U	NA	0.00157 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.0018 U	NA	0.00115 J	**NA**	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	0.00124 J	NA	0.00206 J	NA	0.000936 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/25/2010	NA	NA	NA	NA	NA	NA	0.00110 J	0.00819	0.00167 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.001 J	NA	0.00548	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00144 J	NA	0.00166 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.0010 U	NA	0.00383 J	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.01	2	0.1	0.05	0.015	1.1	0.01	0.1	0.015	0.2	0.0046	0.005	4.9	0.007	0.0003	0.07	1.2	0.6	0.005	0.005	0.075	15	0.12	2	22
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		nv	nv	nv	nv	nv	nv	nv	nv	nv	41,000	nv	80	43,000	1,700	32	160	190	1,200	33	120	17,000	1,000,000	12,000	670,000	1,000,000
GPW-2	3/9/1999	NA	NA	NA	NA	NA	NA	0.0189	0.0048	0.018	NA	NA	NA	0.008	0.003	NA	NA	<0.001	<0.001	0.004	NA	NA	NA	<0.121	NA	NA
	4/8/1999	NA	NA	NA	NA	NA	NA	0.0189	0.0048	0.018	NA	NA	NA	0.009	0.005	NA	NA	<0.001	NA	<0.001	NA	NA	NA	<0.094	NA	NA
	11/14/2000	NA	NA	NA	NA	NA	NA	0.02	1.03	0.01	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	NA	<0.005	NA	NA	<0.010	<0.010	<0.010	0.014
	4/23/2003	0.0298	NA	0.261	NA	0.005	NA	0.0298	0.261	<0.005	<0.005	<0.005	<0.005	0.0051	<0.005	<0.005	<0.005	NA	0.0016 J	0.0049 J	<0.005	<0.005	0.0078 J	<0.143	<0.010	0.019
	1/7/2004	0.0145	NA	0.005	NA	0.005	NA	0.0362	0.156	0.0319	<0.005	<0.005	<0.005	0.029	<0.005	NA	NA	0.006	NA	<0.005	NA	NA	<0.020	<0.049	<0.010	<0.100
	11/16/2004	NA	NA	NA	NA	NA	NA	0.0529	3.15	NA	<0.005	<0.005	<0.005	0.0049	<0.005	<0.005	<0.005	NA	0.0018	<0.005	<0.005	<0.005	<0.010	<0.142	<0.010	0.016
	9/14/2005	<0.005	NA	0.000613	NA	0.000288	NA	<0.005	0.000613 J	0.000288 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.155	<0.010	<0.010
GPW-2R	4/24/2008	0.0164	NA	0.000934 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.006	0.001 J	0.0007 U	0.0005 U	NA	0.001 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.014
	09/10/2008	0.0316	NA	0.00123 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0077	0.0005 U	0.0007 U	0.0005 U	NA	0.0031 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.019	0.035
	03/25/2009	0.00804	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0065 J
	09/16/2009	0.0219	NA	0.00113 J	NA	0.000962 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0025 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0018 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.0014 J	0.0057 J
	3/25/2010	NA	NA	NA	NA	NA	NA	0.0187	0.000847 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.0052	0.00050 U	0.00070 U	0.00050 U	NA	0.0027 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.0123	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0016 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00581	NA	0.0010 U	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-3	3/9/1999	<0.005	NA	0.00224	NA	0.000703	NA	<0.005	0.00224	0.000703	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.081	<0.010	<0.010
	11/13/2000	<0.005	NA	0.0034	NA	0.000785	NA	<0.005	0.00340 J	0.000785 J	<0.005	<0.005	<0.005	0.0097	0.0055	<0.005	<0.005	NA	0.0033 J	0.00074 J	<0.005	<0.005	<0.010	<0.109	<0.010	<0.010
	4/22/2003	<0.005	NA	0.000771	NA	<0.005	NA	<0.005	0.000771 J	<0.005	<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.062	<0.010	<0.010
	1/9/2004	NA	NA	NA	NA	NA	NA	<0.005	0.0148	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.033	<0.010	<0.010
	11/15/2004	NA	NA	NA	NA	NA	NA	<0.005	0.00696	NA	<0.005	<0.005	<0.005	0.00099	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.061	<0.010	<0.010
	9/5/2005	NA	NA	NA	NA	NA	NA	<0.005	0.00456	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.099	<0.010	<0.010
	9/13/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.0148	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/2/2007	NA	NA	NA	NA	NA	NA	0.0022 J	0.0135	0.000899 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.00281 J	NA	0.00249	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.0018 U	NA	0.000632 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/11/2008	0.00210 J	NA	0.00369	NA	0.000362 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	0.00206 J	NA	0.00145 J	NA	0.000673 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00624	0.0510	0.00371 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.00198 J	NA	0.000839 J	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.0282	NA	0.00165 J	NA	0.00304 J	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.016	0.0030 U	0.0018 U	0.039
	3/27/2013	0.00356 J	NA	0.00146 J	NA	0.00508	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-4	3/9/1999	0.00372	NA	0.042	NA	**0.0257**	NA	0.00372 J	0.042	**0.0257**	<0.005	<0.005	<0.005	0.0078	0.0024 J	<0.005	<0.005	NA	0.0015 J	<0.005	<0.005	<0.005	<0.010	<0.118	<0.010	<0.010
	4/8/1999	0.004	NA	0.000923	NA	0.000554	NA	0.004 J	0.000923 J	0.000554 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.091	<0.010	<0.010
	11/14/2000	<0.005	0.0354	0.00138	<0.005	<0.005	0.0216	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	NA	NA	<0.010	<0.096	<0.010	<0.010
	4/23/2003	0.00280 J	NA	0.000640 J	NA	NA	0.0439	NA	NA	NA	<0.005	<0.005	<0.005	0.0042	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.106	<0.010	<0.010
	1/7/2004	0.0073	NA	0.00851	NA	NA	0.0449	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.014	<0.010	<0.01
	11/19/2004	<0.005	0.0919	0.002	0.00194	0.000222	0.0816	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	<0.005	NA	NA	<0.010	<0.013	<0.010	<0.010
	9/14/2005	<0.005	0.0935	0.002	0.00322	0.001	0.0876	NA	NA	NA	<0.005	<0.005	<0.005	0.0086	0.005	NA	NA	NA	<0.005	0.0025	NA	NA	<0.010	<0.058	<0.010	<0.010
	9/12/2006	NA	NA	NA	NA	NA	NA	0.00923	**0.372**	NA	0.0006 U	0.0015 U	0.0005 U	0.0094	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/2/2007	NA	NA	NA	NA	NA	NA	0.00658	0.0708	0.00197 J	0.0006 U	0.0015 U	0.0005 U	0.00099 J	0.0006 U	0.0011 U	0.0006 U	NA	0.00097 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/31/2007	0.00279 J	NA	0.0174	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.00341 J	NA	0.0282	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.00051 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	**0.0692**	NA	**5.94**	NA	0.000395 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0069	0.0005 U	0.0007 U	0.0005 U	NA	0.00097 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.016
	03/25/2009	0.0018 U	NA	0.0106	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	**0.103**	NA	**3.72**	NA	0.00842 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0093	0.0005 U	0.0007 U	0.0005 U	NA	0.0017 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.0037 J	0.001 U
	3/25/2010	NA	NA	NA	NA	NA	NA	**0.0273**	**2.27**	0.00568	0.00050 U	0.00050 U	0.00050 U	0.0011 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00080 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.025
	03/31/2011	**0.0993**	NA	**2.24**	NA	0.0040 U	NA	NA	NA	NA	0.0025 U	0.0025 U	0.0025 U	0.0038 J	0.0025 U	0.0035 U	0.0025 U	NA	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0050 U	0.0050 U	0.0050 U	0.0050 U
	2/28/2012	**0.0310**	NA	**0.572**	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0027 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00089 J	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/26/2013	**0.0234**	NA	**0.505**	NA	0.000753 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0036 J	0.0006 U	0.0005 U	0.0008 U	NA	0.00084 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-5R	11/1/2007	**0.0108**	NA	0.00217	NA	0.000247 J	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.01	0.00093 J	0.0011 U	0.0006 U	NA	0.0015 J	0.0018 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.016
	4/24/2008	0.00466 J	NA	0.00212	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0051	0.00071 J	0.0007 U	0.0005 U	NA	0.00085 J	0.00069 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0036 J
	09/11/2008	**0.0181**	NA	0.00215	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.00183 J	NA	0.000640 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0011 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	0.00611	NA	0.00306 J	NA	0.00108 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00073 J	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/25/2010	NA	NA	NA	NA	NA	NA	0.00620	0.00129 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.0027 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.00199 J	NA	0.000829 J	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00577	NA	0.00137 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0037 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00889	NA	0.00658	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-6	3/9/1999	0.0077	NA	**0.155**	NA	NA	0.617	NA	NA	NA	<0.005	<0.005	<0.005	0.0011 J	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.031	<0.010	0.0051 J
	11/14/2000	**0.0171**	NA	0.00116	NA	NA	0.834	NA	NA	NA	<0.005	<0.005	<0.005	0.053	**0.016**	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.136	<0.010	<0.010
	1/12/2004	**0.0195**	NA	0.0501	NA	NA	0.861	NA	NA	NA	<0.005	<0.005	<0.005	0.0029	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.140	<0.010	<0.010
	11/16/2004	**0.0119**	NA	<0.005	NA	NA	0.911	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.052	<0.010	<0.010
	9/15/2005	0.004	0.215	0.00908	0.00295	0.000389	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	NA	NA	NA	<0.005	**0.0058**	NA	NA	<0.01	<0.01	<0.01	<0.01
	9/12/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00696	NA	0.0006 U	0.0015 U	0.0005 U	0.00099 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.000771 J	0.0002 U	0.0006 U	0.0015 U	0.0005 U	0.0012 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.0051	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.00098 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.0019 J	NA	0.000217 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0014 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00184 J	NA	0.000656 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00086 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/15/2009	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0012 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/30/2011	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00147 J	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0019 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050	0.00060 U	NA	0.00080 U	NA	0.00050 J	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.00106 J	NA	0.00152 J	NA	0.000767 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0064	0.00083 J	0.0005 U	0.0008 U	NA	0.0014 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-7	9/12/2006	NA	NA	NA	NA	NA	NA	0.00417 J	0.0044 J	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.081
	5/2/2007	NA	NA	NA	NA	NA	NA	**0.0119**	0.00083 J	0.0002 U	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/31/2007	0.00376 J	NA	0.00318	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.00214 J	NA	0.00109 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.00368 J	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.00274 J	NA	0.00162 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	0.00253 J	NA	0.000647 J	NA	0.000538 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00339 J	0.000615 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.00179 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00249 J	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00156 J	NA	0.0010 U	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-8	4/8/1999	0.00524	NA	<0.0005	NA	<0.00020	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	11/13/2000	<0.0018	NA	<0.0005	NA	<0.00020	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	4/24/2003	<0.0018	NA	<0.0005	NA	<0.00020	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0012 J	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	11/16/2004	<0.0018	NA	<0.0005	NA	<0.00020	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	9/15/2005	<0.0018	NA	<0.0005	NA	<0.00020	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	9/12/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00393 J	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.00224 J	0.000703 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00719	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.00274	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2009	0.00216 J	NA	0.00077 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.000967 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.0101	0.00105 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.00090 U	NA	0.00574	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.00678	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/28/2013	0.00126 J	NA	0.00663	NA	0.000752 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-9	9/12/2006	NA	NA	NA	NA	NA	NA	0.00722	0.00171 J	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/2/2007	NA	NA	NA	NA	NA	NA	0.004 J	0.000923 J	0.000554 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.00198 J	NA	0.00257	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.00206 J	NA	0.000555 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.00524	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.0018 U	NA	0.00126 J	NA	0.000235 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/16/2009	0.00237 J	NA	0.000882 J	NA	0.000754 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00193 J	0.00209 J	0.000559 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.00264 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00547	NA	0.00303 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00187 J	NA	0.0010 U	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.01	2	0.1	0.05	0.015	1.1	0.01	0.1	0.015	0.2	0.0046	0.005	4.9	0.007	0.0003	0.07	1.2	0.6	0.005	0.005	0.075	15	0.12	2	22
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		nv	nv	nv	nv	nv	nv	nv	nv	nv	41,000	nv	80	43,000	1,700	32	160	190	1,200	33	120	17,000	1,000,000	12,000	670,000	1,000,000
GPW-10	5/7/2001	0.00466 J	NA	0.00212	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0051	0.00071 J	<0.005	<0.005	NA	0.00085 J	0.00069 J	<0.005	<0.005	<0.010	<0.055	<0.010	0.0036 J
	4/24/2003	<0.005	NA	0.00235	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.012	0.0019 J	<0.005	<0.005	NA	0.0014 J	<0.005	<0.005	<0.005	<0.010	<0.110	<0.010	<0.010
	1/12/2004	0.00281 J	NA	0.00249	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.035	<0.0.10	<0.010
	11/16/2004	0.00198	NA	0.00257	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.092	<0.010	<0.010
	9/15/2005	<0.005	NA	0.00265	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.004 J	0.00073 J	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.119	<0.010	<0.010
	9/12/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00456 J	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.00624	0.00286 J	0.00101 J	0.0006 U	0.0015 U	0.0005 U	0.0023 J	0.00062 J	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.00272 J	NA	0.0005 U	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.00175 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.0018 U	NA	0.000537 J	NA	0.000306 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2009	0.00206 J	NA	0.000875 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0011 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00317 J	0.0105	0.00676	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.000986 J	NA	0.000747 J	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00290 J	NA	0.00148 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0026 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	5/7/2001	<0.005	NA	0.00354	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0081	0.0081 J	<0.005	<0.005	NA	0.00079 J	0.00081 J	<0.005	<0.005	<0.010	<0.151	<0.010	<0.010
	4/24/2003	**0.0129**	NA	0.00424	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0061	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.010	<0.010	0.013
	1/12/2004	<0.005	NA	0.0051	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.00098 J	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.063	<0.010	<0.010
	11/19/2004	0.00458 J	NA	0.00532	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0046 J	<0.025	<0.025	<0.025	<0.050	<0.134	<0.050	<0.050
	9/15/2005	<0.005	NA	0.00719	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.082	<0.010	<0.010
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 J	0.00060 U	NA	0.00080 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.00363 J	NA	0.00144 J	NA	0.000798 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0021 J	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-11	9/12/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00743	NA	0.0006 U	0.0015 U	0.0005 U	0.02	0.0057	0.0011 U	0.0006 U	NA	0.0043 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.0034 J	0.000785 J	0.0006 U	0.0015 U	0.0005 U	0.0097	0.0055	0.0011 U	0.0006 U	NA	0.0033 J	0.00074 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00235	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.012	0.0019 J	0.0011 U	0.0006 U	NA	0.0014 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.00149 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0061	0.00096 J	0.0007 U	0.0005 U	NA	0.0006 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00101 J	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0033 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.00206 J	NA	0.0013 J	NA	0.0002 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0036 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.00112 J	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0044 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.00224 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.0060	0.00050 U	0.00070 U	0.00050 U	NA	0.00094 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.00275 J	NA	0.00079 J	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0034 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00058 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00990	NA	0.00256 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.014	0.0013 U	0.0018 U	0.0011 U	NA	0.0019 J	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	5/7/2001	0.00272 J	NA	<0.002	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.101	<0.010	<0.010
	4/24/2003	0.00206 J	NA	0.000555 J	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.093	<0.010	<0.010
	1/12/2004	<0.005	NA	0.000802 J	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0012 J	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.128	<0.010	<0.010
	11/19/2004	0.00214 J	NA	0.00109 J	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.074	<0.010	<0.010
	9/15/2005	<0.005	NA	0.00144 J	NA	<0.005	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.018	<0.010	<0.010
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050	0.00060 U	NA	0.00080 U	NA	0.00050 J	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	**0.0108**	NA	0.00217 J	NA	0.000759 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.004 J	0.0006 U	0.0005 U	0.0008 U	NA	0.00057 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-12	9/12/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00691	NA	0.0006 U	0.0015 U	0.0005 U	0.0035 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.00372 J	0.042	**0.0257**	0.0006 U	0.0015 U	0.0005 U	0.0078	0.0024 J	0.0011 U	0.0006 U	NA	0.0015 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00265	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.004 J	0.00073 J	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.000821 J	NA	0.00136 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0018 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0012 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.0018 U	NA	0.00166 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0019 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0018 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.00104 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.0015 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0019 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00142 J	NA	0.00128 J	NA	0.0007	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0025 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	5/7/2001	0.00822	NA	**0.393**	NA	0.000269 J	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0025 J	<0.0005	<0.0007	<0.0005	NA	<0.0005	0.00054 J	<0.0005	<0.0005	<0.001	<0.001	<0.001	0.03
	4/23/2003	<0.0018	NA	0.000537 J	NA	0.000306 J	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	1/12/2004	0.0021 J	NA	0.00369	NA	0.000362 J	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	<0.001
	11/19/2004	**0.0321**	NA	0.0036	NA	0.000381 J	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0052	<0.0005	<0.0007	<0.0005	NA	<0.0005	<0.0005	<0.0005	<0.0005	3.7	0.018	0.0044 J	13
	9/15/2005	**0.0692**	NA	0.0005 U	NA	0.000395 J	NA	NA	NA	NA	<0.0005	<0.0005	<0.0005	0.0069	<0.0005	<0.0007	<0.0005	NA	0.00097 J	<0.0005	<0.0005	<0.0005	<0.001	<0.001	<0.001	0.016
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050	0.00060 J	NA	0.00080 U	NA	0.00050 J	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.00108 J	NA	0.00155 J	NA	0.000793 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0088	0.0006 U	0.0005 U	0.0008 U	NA	0.0015 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.0078 J
GPW-13	9/11/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.00108 J	NA	0.0006 U	0.0015 U	0.0005 U	0.00052 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.00274 J	0.000379 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.000802 J	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0012 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.0005 U	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.0018 U	NA	0.00261	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.00063 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.000649 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.00090 U	NA	0.000634 J	NA	0.000622 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00152 J	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	11/16/2004	<0.005	NA	0.000821	NA	0.00136 J	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0018 J	0.0018	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.120	<0.010	<0.010
	9/14/2005	0.00618	NA	0.0005	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.088	<0.010	<0.010
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 J	0.00060 U	NA	0.00080 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.0010 U	NA	0.0010 U	NA	0.000739 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0041 J	0.0006 U	0.0005 U	0.0008 U	NA	0.00064 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-14	9/12/2006	0.00573	NA	0.00565	NA	NA	NA	0.00523	0.00994	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0029 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/2/2007	NA	NA	NA	NA	NA	NA	0.00539	0.00396 J	0.000592 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0041 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/31/2007	0.00458 J	NA	0.00532	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0046 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/24/2008	0.00268 J	NA	0.00303	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.014	0.001 U	0.001 U	0.001 U
	09/10/2008	0.00264 J	NA	0.00249	NA	0.000269 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0018 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	03/25/2009	0.00225 J	NA	0.00305	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0063 J
	09/16/2009	0.00331 J	NA	0.00252 J	NA	0.000544 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0024 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.012
	3/25/2010	NA	NA	NA	NA	NA	NA	0.00288 J	0.00554	0.000596 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.0072	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.029
	03/31/2011	0.00249 J	NA	0.00311 J	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00308 J	NA	0.00322 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.0064	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00198 J	NA	0.00310 J	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0061	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-15R	11/1/2007	**0.0106**	NA	0.00195 J	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.019	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.05	0.0025 U	0.0037 J	0.26
	4/24/2008	**0.0109**	NA	0.0029	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.016	0.0005 U	0.0007 U	0.0005 U	NA	0.00061 J	0.0005 U	0.0005 U	0.0005 U	0.031	0.001 U	0.0024 J	0.13
	09/11/2008	**0.0321**	NA	0.00360	NA	0.000381 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0052	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	3.7	0.018	0.0044 J	13
	03/25/2009	0.00341 J	NA	0.000619 J	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.00057 J	0.0005 U	0.0007 U	0.0005 U	NA	0.00083 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0091 J
	09/16/2009	0.00261 J	NA	0.000949 J	NA	0.000965 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.00066 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0097 J
	3/25/2010	NA	NA	NA	NA	NA	NA	0.00286 J	0.00368 J	0.00191 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00077 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/31/2011	0.00126 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	0.00256 J	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.012	**0.0079**	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	0.00193 J	NA	0.00469 J	NA	0.00070 U	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0052	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-16	11/15/2004	0.00843	NA	0.00239	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.130	<0.010	<0.010
	9/14/2005	0.0093	NA	0.00255	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.0018 J	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.043	<0.010	<0.010
	9/12/2006	NA	NA	NA	NA	NA	NA	**0.0529**	**3.15**	NA	0.0006 U	0.0015 U	0.0005 U	0.0049 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0018 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.016
	5/2/2007	NA	NA	NA	NA	NA	NA	**0.0298**	**0.261**	0.0002 U	0.0006 U	0.0015 U	0.0005 U	0.0051	0.0006 U	0.0011 U	0.0006 U	NA	0.0016 J	0.0049 J	0.0007 U	0.0007 U	0.0078 J	0.0025 U	0.0016 U	0.019
	10/31/2007	**0.019**	NA	0.095	NA	0.000268 J	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0017 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0012 J	0.0017 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.011
	4/24/2008	0.00913	NA	0.0432	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0018 J	0.0005 U	0.0007 U	0.0005 U	NA	0.00086 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.011
	09/11/2008	**0.0293**	NA	0.0970	NA	0.000403 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.002 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.011
	03/25/2009	**0.0196**	NA	**0.110**	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0016 J	0.0005 U	0.0007 U	0.0005 U	NA	0.00072 J	0.0013 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0085 J
	09/16/2009	**0.0491**	NA	**0.233**	NA	0.00392 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.002 J	0.0005 U	0.0007 U	0.0005 U	NA	0.001 J	0.0024 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.011
	3/25/2010	NA	NA	NA	NA	NA	NA	**0.0178**	**0.102**	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.0017 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00060 J	0.00073 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/31/2007	**0.0262**	NA	**0.171**	NA	0.0020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.002 J	0.00050 U	0.00070 U	0.00050 U	NA	0.0011 J	0.0016 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/28/2012	**0.0203**	NA	**0.959**	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0026 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/27/2013	**0.0309**	NA	**4.96**	NA	0.00103 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0043 J	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-17	9/12/2006	NA	NA	NA	NA	NA	NA	0.00197 J	0.00938	NA	0.0006 U	0.0015 U	0.0005 U	0.043	**0.0093**	0.0011 U	0.0006 U	NA	0.0075	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.00314 J	0.000304 J	0.0006 U	0.0015 U	0.0005 U	0.027	**0.009**	0.0011 U	0.0006 U	NA	0.0081	0.00072 J	0.0007 U	0.0012 J	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00332	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.011	0.00098 J	0.0011 U	0.0006 U	NA	0.0022 J	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.00354	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0081	0.00081 J	0.0007 U	0.0005 U	NA	0.00079 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.0018 U	NA	0.00217	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0046 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0006 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2009	0.00214 J	NA	0.00254	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0093	0.0011 J	0.0007 U	0.0005 U	NA	0.0011 J	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00110 J	NA	0.00512	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.048	0.0033 J	0.0007 U	0.0005 U	NA	0.0064	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00257 J	0.00346 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.031	0.0026 J	0.00070 U	0.00050 U	NA	0.0058	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.0014 J	NA	0.00294 J	NA	0.000555 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.013	0.0013 J	0.00070 U	0.00050 U	NA	0.0026 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00227 J	NA	0.00250 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.011	0.0013 U	0.0018 U	0.0011 U	NA	0.0021 J	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	11/16/2004	0.00358 J	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.079	<0.010	<0.010
	9/15/2005	0.00409 J	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.010	<0.070	<0.010	<0.010
	09/25/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050	0.00060 J	NA	0.00080 U	NA	0.00050 J	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.00525	NA	0.00565	NA	0.000887 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0087	0.0006 U	0.0005 U	0.0008 U	NA	0.0012 J	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-18	9/12/2006	NA	NA	NA	NA	NA	NA	0.00182 J	0.0066	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	5/1/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.000613 J	0.000288 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00981	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.0005 U	NA	0.00025 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/10/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2009	0.00246 J	NA	0.00133 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00116 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/24/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.000685 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	03/30/2011	0.0011 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	3/28/2013	0.00194 J	NA	0.0010 U	NA	0.000747 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.00075 J	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
Off-Site Wells																										
GPW-19	11/19/2004	0.00272 J	NA	<0.005	NA	NA	0.325	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
	9/15/2005	0.00206	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
	9/11/2006	NA	NA	NA	NA	NA	NA	0.0018 U	0.0005 U	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/30/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.000639 J	0.000364 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	10/30/2007	0.0018 U	NA	0.00664	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.0005 U	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.0018 U	NA	0.000813 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.00474 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/29/2011	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	09/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00060 U	NA	0.00080 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/27/2013	0.00104 J	NA	0.0010 U	NA	0.000776 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-20	9/11/2006	0.0018 U	0.00109 J	NA	NA	NA	NA	0.0018 U	0.000592 J	NA	0.0006 U	0.0015 U	0.0005 U	0.0023 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0026 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/30/2007	NA	NA	NA	NA	NA	NA	**0.0172**	0.0906	**0.0745**	0.0006 U	0.0015 U	0.0005 U	0.0022 J	0.0017 J	0.0011 U	0.0006 U	NA	0.0009 U	0.0027 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.0018 U	NA	0.00359	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0023 J	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0024 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.000761 J	NA	0.000254 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.00097 J	0.00056 J	0.0007 U	0.0005 U	NA	0.0005 U	0.0012 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.000829 J	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00092 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.0013 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.0018 U	NA	0.00103 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0007 J	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0015 J	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.000677 J	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00567	0.00165 J	0.000644 J	0.00050 U	0.00050 U	0.00050 U	0.00093 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.0015 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/29/2011	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0012 J	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00069 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0012 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0012 J	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	11/19/2004	0.00327	NA	0.000574	NA	NA	0.195	NA	NA	NA	<0.005	<0.005	<0.005	0.0036 J	<0.005	<0.005	<0.005	NA	<0.005	**0.018**	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
	9/15/2005	0.00365 J	NA	0.000657	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	0.015	**0.012**	<0.005	<0.005	NA	<0.005	**0.0098**	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
	09/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 J	0.00060 J	NA	0.00080 U	NA	0.00050 U	0.00050 J	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.0010 U	NA	0.0010 U	NA	0.000743 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0069	0.0022 J	0.0005 U	0.0008 U	NA	0.0014 J	0.0015 J	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	1/7/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0069	0.0017 J	0.0005 U	0.0008 U	NA	0.0014 J	0.0015 J	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.01	2	0.1	0.05	0.015	1.1	0.01	0.1	0.015	0.2	0.0046	0.005	4.9	0.007	0.0003	0.07	1.2	0.6	0.005	0.005	0.075	15	0.12	2	22
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		nv	nv	nv	nv	nv	nv	nv	nv	nv	41,000	nv	80	43,000	1,700	32	160	190	1,200	33	120	17,000	1,000,000	12,000	670,000	1,000,000
GPW-21	9/11/2006	0.0018 U	0.000687 J	NA	NA	NA	NA	0.0018 U	0.00225 J	NA	0.0006 U	0.0015 U	0.0005 U	0.011	**0.0076**	0.0011 U	0.0006 U	NA	0.0009 U	**0.0092**	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0082 J
	4/30/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.00133 J	0.0004 J	0.0006 U	0.0015 U	0.0005 U	0.0069	0.0057	0.0011 U	0.0006 U	NA	0.0009 U	**0.0052**	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.0018 U	NA	0.00759	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.01	0.0068	0.0011 U	0.0006 U	NA	0.0012 J	**0.0064**	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.00189 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0064	0.0032 J	0.0007 U	0.0005 U	NA	0.00059 J	**0.0056**	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.000823 J	NA	0.000222 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0072	0.0040 J	0.00070 U	0.00050 U	NA	0.00079 J	0.0047 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.0018 U	NA	0.0013 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0063	0.003 J	0.0007 U	0.0005 U	NA	0.0005 J	**0.0078**	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/15/2009	0.00090 U	NA	0.000860 J	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0045 J	0.0019 J	0.0007 U	0.0005 U	NA	0.0005 U	**0.0054**	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.000984 J	0.00772	0.00561	0.00050 U	0.00050 U	0.00050 U	0.0031 J	0.0014 J	0.00070 U	0.00050 U	NA	0.00050 U	0.0031 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/29/2011	0.000944 J	NA	0.00111 J	NA	0.000619 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0032 J	0.0014 J	0.00070 U	0.00050 U	NA	0.00050 U	0.0018 J	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0057	0.0026 J	0.0018 U	0.0011 U	NA	0.00080 U	0.0022 J	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	09/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050	0.00060 J	NA	0.00080 U	NA	0.00050 J	0.00050 J	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/28/2013	0.0010 U	NA	0.00116 J	NA	0.000791 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0073	0.0014 J	0.0005 U	0.0008 U	NA	0.00081 J	0.0028 J	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	1/7/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0073	0.0013 J	0.0005 U	0.0008 U	NA	0.00081 J	0.0023 J	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
GPW-22	9/11/2006	NA	NA	NA	NA	NA	NA	0.00198 J	0.0005 U	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/30/2007	NA	NA	NA	NA	NA	NA	0.0018 U	0.00471 J	0.00158 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.00084 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.0018 U	NA	0.00226	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.00071 J	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.0018 U	NA	0.000607 J	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.0018 U	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.00194 J	NA	0.0005 U	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/14/2009	0.000978 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00090 U	0.00297 J	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/29/2011	0.00090 U	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/1/2012	0.0013 U	NA	0.00457 J	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0014 J	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0015 J	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	9/14/2005	0.00766	NA	<0.002	NA	NA	NA	NA	NA	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.01	<0.01	<0.01	<0.01
	09/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 J	0.00060 J	NA	0.00080 U	NA	0.00050 U	0.00050 J	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/27/2013	0.00148 J	NA	0.0010 U	NA	0.000823 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0019 J	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	1/7/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.00094 J	0.0005 U	0.0008 U	NA	0.0005 U	0.0041 J	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	5/15/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.0011 J	0.00050 U	NA	NA	NA	NA	0.0032 J	NA	NA	NA	NA	NA	NA
	8/1/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA
	11/3/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00069 J	0.00054 J	NA	NA	NA	NA	0.0014 J	NA	NA	NA	NA	NA	NA
	2/2/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00090 J	NA	NA	NA	NA	NA	NA
	5/4/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA 6020 (mg/L) - Dissolved						EPA 6020 (mg/L) - Total			EPA Method 8260 (mg/L)															
		Arsenic	Barium	Chromium	Selenium	Lead	Manganese	Arsenic	Chromium	Lead	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,3-Trichloropropane	1,2,4-Trichlorobenzene	1,2,4-Trimethylbenzene	1,2-Dichloro-benzene	1,2-Dichloroethane	1,2-Dichloro-propane	1,4-Dichloro-benzene	2-Butanone (MEK)	2-Hexanone	4-Methyl-2-pentanone	Acetone
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.01**	**2**	**0.1**	**0.05**	**0.015**	**1.1**	**0.01**	**0.1**	**0.015**	**0.2**	**0.0046**	**0.005**	**4.9**	**0.007**	**0.0003**	**0.07**	**1.2**	**0.6**	**0.005**	**0.005**	**0.075**	**15**	**0.12**	**2**	**22**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**nv**	**41,000**	**nv**	**80**	**43,000**	**1,700**	**32**	**160**	**190**	**1,200**	**33**	**120**	**17,000**	**1,000,000**	**12,000**	**670,000**	**1,000,000**
GPW-23	9/11/2006	NA	NA	NA	NA	NA	NA	0.0092	0.0005 U	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.12
	4/30/2007	NA	NA	NA	NA	NA	NA	**0.0266**	0.00148 J	0.000723 J	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	11/1/2007	0.00938	NA	0.00319	NA	0.0002 U	NA	NA	NA	NA	0.0006 U	0.0015 U	0.0005 U	0.0005 U	0.0006 U	0.0011 U	0.0006 U	NA	0.0009 U	0.0005 U	0.0007 U	0.0007 U	0.0008 U	0.0025 U	0.0016 U	0.0025 U
	4/23/2008	0.00581	NA	0.0005 U	NA	0.0002 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/09/2008	0.00891	NA	0.00050 U	NA	0.00020 U	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.0012 J	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/24/2009	0.00441 J	NA	0.0005 U	NA	0.000343 J	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	09/14/2009	0.00412 J	NA	0.00060 U	NA	0.00040 U	NA	NA	NA	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0007 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U
	3/23/2010	NA	NA	NA	NA	NA	NA	0.00701	0.00060 U	0.00040 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	3/29/2011	0.00349 J	NA	0.00060 U	NA	0.000495 J	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00070 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U
	2/29/2012	0.00494 J	NA	0.0012 U	NA	0.00070 U	NA	NA	NA	NA	0.0013 U	0.00070 U	0.00080 U	0.0011 U	0.0013 U	0.0018 U	0.0011 U	NA	0.00080 U	0.0010 U	0.00090 U	0.00090 U	0.0020 U	0.0030 U	0.0018 U	0.0040 U
	09/24/2012	NS	NS	NS	NS	NS	NS	NS	NS	NS	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00060 U	NA	0.00080 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0020 U	0.0020 U	0.0018 U	0.0030 U
	3/27/2013	0.00375 J	NA	0.0010 U	NA	0.000731 J	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	1/7/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0008 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.002 U	0.002 U	0.0018 U	0.003 U
	5/15/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA
	8/1/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA
	11/3/2014	NS	NS	NS	NS	NS	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA
	2/2/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 U	NA	NA	NA	NA	NA	NA
	5/4/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00050 U	0.00050 U	0.00050 U	0.00040 U	0.00050 U	NA	NA	NA	NA	0.00050 J	NA	NA	NA	NA	NA	NA

Notes:
All units in milligrams per liter (mg/L)
U or < - Analyte was not detected at or above the method quantitation limit (MQL)
TRRP - Texas Risk Reduction Program
$^{GW}GW_{Ing}$ PCL - Residential Protective Concentration Level for Groundwater Ingestion
Protective Concentration Limits (PCL) - based on TRRP values for 0.5-acre source area (December 2015 tables)
J - Result is less than the MQL but greater than or equal to the sample quantitation limit (SQL) and the concentration is an estimated value.
NA - Not Analyzed nv - no value
NS - Not Sampled
Bold Text with Gray Shading - Analyte exceeds the Ingestion PCL

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
On-Site Wells																									
GP-2R	11/1/2007	0.2	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.11	0.0005 U	0.0005 U	0.0005 U	NA	0.19	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.53	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.052	0.0005 U	0.0005 U	0.0005 U	NA	0.18	0.0005 U	0.0005 U	0.0006 U	0.00056 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/11/2008	1.9	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0011 J	0.0005 U	0.0005 U	0.0005 U	0.18	0.0005 U	0.0005 U	0.0009 J	NA	0.44	0.0005 U	0.0005 U	0.0006 U	0.0067	0.0005 U	0.0005 U	0.001 J	0.016
	03/25/2009	2.3	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.18	0.0005 U	0.0005 U	0.00054 J	NA	0.19	0.0005 U	0.0005 U	0.0006 U	0.0044 J	0.0005 U	0.0005 U	0.0005 U	0.026
	9/16/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	3/24/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
GP-3	6/30/1998	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.002
	11/14/2000	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	0.14	NA	<0.005	<0.005	<0.005	0.39	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	0.023
	4/24/2003	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	0.23	NA	<0.005	<0.005	<0.005	0.02	<0.005	<0.005	0.064	<0.005	<0.005	NA	0.13	0.003
	1/12/2004	2.4	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005	NA	<0.005	0.018	<0.005	3.2	<0.005	<0.005	<0.005	0.01	<0.005	NA	<0.005	<0.002
	11/19/2004	0.016	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005	NA	<0.005	<0.005	<0.005	7.2	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.004	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
GP-3R	10/31/2007	0.002 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.29	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0039 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.001 J	0.0005 U	0.0005 U	0.0005 U	0.0016 J	0.0005 U	0.0005 U	0.0005 U	NA	0.33	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/11/2008	0.0031 J	0.0005 U	0.0005 U	0.0009 U	0.0035 J	0.0005 U	0.0011 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.38	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0065
	03/25/2009	0.0019 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0008 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.19	0.0005 U	0.0005 U	0.0006 U	0.00051 J	0.0005 U	0.0005 U	0.0005 U	0.0035
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00063 J	0.0005 U	0.0005 U	0.0005 U	0.023	0.0005 U	0.0005 U	0.0005 U	NA	0.038	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0025 J	0.0005 U	0.0005 U	0.049
	3/24/2010	0.0018 J	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.0013 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.17	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.092	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.014	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/26/2013	0.023	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.019	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-1	3/9/1999	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0064	<0.005	<0.005	<0.005	NA	0.0016 J	<0.010	<0.005	0.00072	<0.005	<0.005	<0.005	0.003	<0.002
	11/13/2000	0.0041 J	<0.005	<0.005	<0.005	<0.010	<0.005	0.0025 J	<0.005	<0.005	<0.005	0.11	<0.005	<0.005	<0.005	NA	0.38	<0.010	<0.005	0.049	0.00094	<0.005	<0.005	0.19	0.066
	4/22/2003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	1/9/2004	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005	NA	<0.005	<0.005	<0.005	8.9	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.002
	11/16/2004	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
	9/14/2005	0.0044	<0.005	<0.005	<0.005	<0.010	<0.005	0.0025	<0.005	<0.005	<0.005	0.00073	<0.005	<0.005	<0.005	NA	0.32	<0.010	<0.005	<0.005	0.00094	<0.005	<0.005	<0.005	<0.002
	9/13/2006	0.0011 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	0.00087 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/31/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/11/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	03/25/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/25/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0012 U	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	0.0083	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.02	NA	0.001 U	0.001 U	0.0009 U	0.001 U	0.023	0.001 U	0.0009 U	0.0012 J	0.0005 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-2	3/9/1999	<0.001	NA	NA	NA	NA	NA	<0.001	<0.001	NA	NA	0.17	NA	NA	<0.001	<0.001	0.009	<0.001	NA	0.045	<0.001	0.005	NA	0.13	0.004
	4/8/1999	<0.001	NA	NA	NA	NA	NA	0.002	<0.001	NA	NA	0.18	NA	NA	<0.001	<0.001	0.013	<0.001	NA	0.07	<0.001	0.006	NA	0.18	0.003
	11/14/2000	0.006	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	<0.005	NA	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.002
	4/23/2003	0.011	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.17	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	1/7/2004	0.33	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.010	<0.005	<0.010	0.048	NA	<0.005	<0.005	<0.005	0.60	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	0.009
	11/16/2004	0.011	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.19	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	9/14/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.01	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
GPW-2R	4/24/2008	1.8	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0028 J	0.0005 U	0.0005 U	0.0005 U	1.0	0.0005 U	0.0005 U	0.0037 J	NA	0.35	0.0005 U	0.0005 U	0.0006 U	0.012	0.0005 U	0.0005 U	0.0005 U	0.32
	09/10/2008	0.43	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0071	0.0052	0.0005 U	0.0005 U	3.1	0.0005 U	0.0005 U	0.016	NA	0.39	0.0005 U	0.0005 U	0.0006 U	0.044	0.0005 U	0.0005 U	0.0005 U	1.7
	03/25/2009	5.9	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00051 J	0.003 J	0.0005 U	0.0005 U	0.2	0.0005 U	0.0005 U	0.016	NA	0.19	0.0005 U	0.0005 U	0.0006 U	0.039	0.0005 U	0.0005 U	0.0005 U	0.17
	09/16/2009	0.41	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0045 J	0.0005 U	0.0005 U	0.0005 U	0.43	0.0005 U	0.0005 U	0.0094	NA	0.16	0.0005 U	0.0005 U	0.0006 U	0.025	0.0076	0.0005 U	0.0005 U	0.64
	3/25/2010	0.18	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.0067	0.021	0.00050 U	0.00050 U	0.76	0.00050 U	0.00050 U	0.021	NA	0.20	0.00050 U	0.00050 U	0.00060 U	0.025	0.00050 U	0.00050 U	0.00050 U	0.88
	2/28/2012	1.0	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0015 J	0.0043 J	0.0010 U	0.0011 U	0.056	0.00090 U	0.00090 U	0.0011 U	NA	0.067	0.0013 U	0.00090 U	0.0017 U	0.0045 J	0.0010 U	0.00090 U	0.0011 U	0.031
	3/27/2013	0.13	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0082	0.0005 U	0.0009 U	0.0005 U	NA	0.046	0.001 U	0.0009 U	0.001 U	0.0012 J	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-3	3/9/1999	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0074	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/13/2000	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	0.0039 J	<0.005	<0.005	<0.005	0.31	<0.005	<0.005	<0.005	NA	0.098	<0.010	<0.005	0.041	<0.005	<0.005	<0.005	0.2	0.0085
	4/22/2003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0047 J	<0.005	<0.005	<0.005	NA	0.0036 J	<0.010	<0.005	0.0005 J	<0.005	<0.005	<0.005	0.0017 J	<0.002
	1/9/2004	*0.38*	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.00098	NA	0.18	<0.010	<0.005	<0.005	0.0021	<0.005	<0.005	<0.005	<0.002
	11/15/2004	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0027	<0.005	<0.005	<0.005	NA	0.0071	<0.010	<0.005	0.0015	<0.005	<0.005	<0.005	0.0036	<0.002
	9/5/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0012	<0.005	<0.005	<0.005	NA	0.0021 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.00081 J	<0.002
	9/13/2006	0.38	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00098 J	NA	0.18	0.0006 U	0.0005 U	0.0005 U	0.0021 J	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	*1.4*	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.019	NA	0.96	0.0006 U	0.0005 U	0.0005 U	0.0087	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	11/1/2007	0.042	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.038	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0052	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/11/2008	0.003 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.058	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	03/25/2009	0.15	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.076	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	8.8	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0011 J	0.0005 U	0.0005 U	0.032	NA	1.5	0.0005 U	0.0005 U	0.0006 U	0.019	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.012	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.0006 J	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0091	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	2.5	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	1.7	NA	0.05	0.0013 U	0.00090 U	0.0017 U	2.4	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	2.8	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	1.7	NA	0.001 U	0.001 U	0.0009 U	0.001 U	2.5	0.001 U	0.0009 U	0.001 U	0.0005 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-4	3/9/1999	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.0019 J	<0.005	<0.005	<0.005	0.068	<0.005	<0.005	<0.005	NA	0.077	<0.010	<0.005	0.015	<0.005	<0.005	<0.005	0.051	<0.002
	4/8/1999	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.00059 J	<0.005	<0.005	<0.005	NA	0.0045 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/14/2000	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0095	NA	<0.005	<0.005	NA	0.0015	<0.010	<0.005	0.0047	<0.005	<0.005	NA	0.0091	<0.002
	4/23/2003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.049	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	0.0075	<0.005	<0.005	<0.005	0.029	<0.002
	1/7/2004	0.0018 J	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/19/2004	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.002
	9/14/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.16	NA	<0.005	<0.005	NA	0.025	<0.010	<0.005	0.051	<0.005	0.0062	NA	0.14	<0.002
	9/12/2006	0.0044 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0025 J	0.0006 U	0.0005 U	0.0005 U	0.00073 J	0.0005 U	0.0005 U	0.0005 U	NA	0.32	0.0006 U	0.0005 U	0.0005 U	0.00094 J	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	0.0041 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0025 J	0.0006 U	0.0005 U	0.0005 U	0.11	0.0005 U	0.0005 U	0.0005 U	NA	0.38	0.0006 U	0.0005 U	0.049	0.00094 J	0.0006 U	0.0005 U	0.19	0.066
	10/31/2007	0.0019 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.00093 J	0.0005 U	0.0005 U	0.0005 U	NA	0.041	0.0006 U	0.0005 U	0.00093 J	0.0005 U	0.0006 U	0.0005 U	0.0014 J	0.0006 U
	4/24/2008	0.0051	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.032	0.0005 U	0.0005 U	0.0005 U	NA	0.055	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0065	0.012
	09/10/2008	0.059	0.0005 U	0.0005 U	0.0009 U	0.0025 J	0.0005 U	0.00071 J	0.0005 U	0.0005 U	0.0005 U	0.048	0.0005 U	0.0005 U	0.011	NA	0.95	0.0005 U	0.0005 U	0.0006 U	0.0072	0.026	0.0005 U	0.011	0.11
	03/25/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0066	0.0005 U	0.0005 U	0.0005 U	NA	0.058	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.03
	09/16/2009	0.032	0.0005 U	0.0005 U	0.0009 U	0.0044 J	0.0005 U	0.0011 J	0.0005 U	0.0005 U	0.0005 U	0.11	0.0005 U	0.0005 U	0.022	NA	0.99	0.0005 U	0.0005 U	0.0008 J	0.053	0.048	0.0005 U	0.064	0.29
	3/25/2010	0.020	0.00050 U	0.00050 U	0.00090 U	0.0050 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.058	0.00050 U	0.00050 U	0.012	NA	0.25	0.00050 U	0.00050 U	0.042	0.016	0.031	0.00050 U	0.076	0.70
	03/31/2011	0.022 J	0.0025 U	0.0025 U	0.0045 U	0.0050 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.0025 U	0.092	0.0025 U	0.0025 U	0.013 J	NA	0.41	0.0025 U	<0.0025 U	<0.0030 U	0.033	<0.0025 U	<0.0025 U	0.12	0.36
	2/28/2012	0.015	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0057	0.00090 U	0.00090 U	0.0029 J	NA	0.094	0.0013 U	0.00090 U	0.0017 U	0.0094	0.0010 U	0.00090 U	0.0026 J	0.032
	3/26/2013	0.37	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0014 J	0.001 U	0.001 U	0.001 U	0.0011 J	0.0005 U	0.0009 U	0.0035 J	NA	0.13	0.001 U	0.0009 U	0.001 U	0.01	0.001 U	0.0009 U	0.0021 J	0.0005 U
GPW-5R	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.2	0.0005 U	0.0005 U	0.0005 U	NA	1.9	0.0006 U	0.0005 U	0.018	0.0005 U	0.0006 U	0.0005 U	0.067	0.0006 U
	4/24/2008	0.0028 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00087 J	0.0005 U	0.0005 U	0.0005 U	0.15	0.0005 U	0.0005 U	0.0005 U	NA	1.1	0.0005 U	0.0005 U	0.032	0.0005 U	0.0005 U	0.0005 U	0.097	0.0005 U
	09/11/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.015	0.0005 U	0.0005 U	0.0005 U	NA	0.0059	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0024 J	0.0005 U	0.0055	0.0068
	03/25/2009	0.0059	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.013	0.0005 U	0.0005 U	0.0005 U	NA	0.19	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0029 J	0.0088
	09/16/2009	0.0011 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.066	0.0005 U	0.0005 U	0.0005 U	NA	0.034	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.023	0.0005 U	0.015	0.042
	3/25/2010	0.0046 J	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0050 J	0.00050 U	0.00050 U	0.00050 U	NA	0.072	0.00050 U	0.00050 U	0.00060 U	0.00074 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.00056 J	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00094 J	0.00050 U	0.00050 U	0.00050 U	0.0096	0.00050 U	0.00050 U	0.00050 U	NA	0.038	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.0013 J	0.012
	2/28/2012	0.18	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.070	0.00090 U	0.00090 U	0.0011 U	NA	0.097	0.0013 U	0.00090 U	0.0017 U	0.0035 J	0.0010 U	0.00090 U	0.0011 U	0.028
	3/27/2013	0.012	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.017	0.0005 U	0.0009 U	0.0005 U	NA	0.016	0.001 U	0.0009 U	0.001 U	0.0005 U	0.008	0.0009 U	0.001 U	0.019
GPW-6	3/9/1999	0.0011 J	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	0.0027 J	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.31	<0.010	<0.005	<0.005	0.0017	<0.005	<0.005	<0.005	<0.002
	11/14/2000	0.69	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	4.8	<0.005	<0.005	<0.005	NA	1.4	<0.010	<0.005	0.17	0.0029 J	<0.005	<0.005	0.11	<0.002
	1/12/2004	0.011	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	0.0016	<0.005	0.065	<0.005	<0.005	<0.005	NA	1.8	NA	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/16/2004	0.18	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	NA	0.13	<0.010	<0.005	0.0038 J	<0.005	<0.005	<0.005	<0.005	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	NA	<0.005	<0.005	NA	0.0044	<0.01	<0.005	<0.005	<0.005	<0.005	NA	0.0088	<0.002
	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0027 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0071	0.0006 U	0.0005 U	0.0015 J	0.0005 U	0.0006 U	0.0005 U	0.0036 J	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0047 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0036 J	0.0006 U	0.0005 U	0.0005 J	0.0005 U	0.0006 U	0.0005 U	0.0017 J	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0017 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0015 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0018 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0048 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0015 J	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00098 J	0.00050 U	0.00050 U	0.00050 U	NA	0.0050 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/1/2009	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0019 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0056	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.00053 J	0.0005 U
	3/24/2010	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS	NS
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0058	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0,0011 U	0.018	0.00090 U	0.00090 U	0.0011 U	NA	0.017	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0016 J	0.0010 U
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010	0.00050
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.11	0.0005 U	0.0009 U	0.0005 U	NA	0.033	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.0043 J	0.008

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-7	9/12/2006	0.0019 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0043 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	0.001 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/31/2007	0.00077 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.002 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0038 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	0.00093 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0026 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	03/25/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0014 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0044 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00074 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0016 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.010	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.014	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-8	4/8/1999	<0.0005	<0.0005	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	11/13/2000	<0.0005	<0.0005	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.01	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	4/24/2003	<0.0005	<0.0005	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.0034 J	<0.0005	<0.0005	<0.0005	NA	0.0036 J	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	0.0014 J	<0.0005
	11/16/2004	<0.0005	<0.0005	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.0096	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/15/2005	<0.0005	<0.0005	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.0059	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.004 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0074	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0096	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.015	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.01	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.016	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0079	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0019 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0012 U	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0023 J	NA	0.001 U	0.001 U	0.0009 U	0.001 U	0.00081 J	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-9	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.00059 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0045 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0015 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	03/25/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0012 U	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.001 U	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-10	5/7/2001	.0028 J	<0.005	<0.005	<0.005	<0.010	<0.005	0.00087 J	<0.005	<0.005	<0.005	0.15	<0.005	<0.005	<0.005	NA	1.1	<0.010	<0.005	0.032	<0.005	<0.005	<0.005	0.097	<0.002
	4/24/2003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	0.0018 J	<0.005	<0.005	<0.005	0.073	<0.005	<0.005	<0.005	NA	0.034	<0.010	<0.005	0.0045 J	<0.005	0.0039 J	<0.005	0.028	0.044
	1/12/2004	0.042	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.038	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/16/2004	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005	<0.005	<0.005	NA	0.0071	<0.010	<0.005	0.0023 J	<0.005	0.00068 J	<0.005	0.0082	<0.002
	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0012 J	0.0005 U	0.0005 U	0.0005 U	NA	0.002 J	0.0006 U	0.0005 U	0.0013 J	0.0005 U	0.0006 U	0.0005 U	0.0022 J	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0064	0.0005 U	0.0005 U	0.0005 U	NA	0.0016 J	0.0006 U	0.0005 U	0.00072 J	0.0005 U	0.0006 U	0.0005 U	0.003 J	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0063	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.00079 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0015 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.003 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0069	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0069	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0050	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.012	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.028	0.00090 U	0.00090 U	0.0011 U	NA	0.0034 J	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0026 J	0.0010 U
	5/7/2001	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	0.00083 J	<0.005	<0.005	<0.005	0.022	<0.005	<0.005	<0.005	NA	0.008	<0.010	<0.005	0.002 J	<0.005	0.00054 J	<0.005	0.0097	<0.002
	4/24/2003	0.2	0.00090 U	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	0.11	<0.005	<0.005	<0.005	NA	0.19	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	1/12/2004	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0017 J	<0.005	<0.005	<0.005	NA	0.0015 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/19/2004	12.0	0.00090 U	<0.025	<0.025	<0.050	<0.025	0.0091 J	<0.025	<0.025	<0.025	<0.025	<0.025	<0.025	0.18	NA	2.1	<0.010	<0.025	<0.025	0.026	<0.025	<0.025	<0.025	<0.010
	9/15/2005	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0096	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 J	NA	0.00090 U	0.0010 J	0.00050 U
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.056	0.0005 U	0.0009 U	0.0005 U	NA	0.017	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.0046 J	0.0005 U
GPW-11	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0044 J	0.0006 U	0.0005 U	0.0005 U	0.39	0.0005 U	0.0005 U	0.0005 U	NA	0.18	0.0006 U	0.0005 U	0.055	0.0005 U	0.0006 U	0.0005 U	0.25	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0039 J	0.0006 U	0.0005 U	0.0005 U	0.31	0.0005 U	0.0005 U	0.0005 U	NA	0.098	0.0006 U	0.0005 U	0.041	0.0005 U	0.0006 U	0.0005 U	0.2	0.0085
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0018 J	0.0006 U	0.0005 U	0.0005 U	0.073	0.0005 U	0.0005 U	0.0005 U	NA	0.034	0.0006 U	0.0005 U	0.0045 J	0.0005 U	0.0039 J	0.0005 U	0.028	0.044
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.048	0.0005 U	0.0005 U	0.0005 U	NA	0.027	0.0005 U	0.0005 U	0.00092 J	0.0005 U	0.0024 J	0.0005 U	0.0071	0.0092
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.024	0.00050 U	0.00050 U	0.00050 U	NA	0.0098	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.0012 J	0.00050 U	0.003	0.0013 J
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 J	0.0005 U	0.0005 U	0.0005 U	0.03	0.0005 U	0.0005 U	0.0005 U	NA	0.011	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0011 J	0.0005 U	0.0031	0.0013 J
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.026	0.0005 U	0.0005 U	0.0005 U	NA	0.0088	0.0005 U	0.0005 U	0.0009 J	0.0005 U	0.00066 J	0.0005 U	0.0062	0.00098 J
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.0012 J	0.00050 U	0.00050 U	0.00050 U	0.086	0.00050 U	0.00050 U	0.00050 U	NA	0.035	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.0023 J	0.00050 U	0.0055	0.0018 J
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.025	0.00050 U	0.00050 U	0.00050 U	NA	0.037	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.0011 J	0.00050 U	0.0022 J	0.005
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0018 J	0.0015 U	0.0010 U	0.0011 U	0.14	0.00090 U	0.00090 U	0.0011 U	NA	0.069	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0013 J	0.067
	5/7/2001	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0063	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	4/24/2003	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0015 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	1/12/2004	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0027 J	<0.005	<0.005	<0.005	NA	0.0082	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	11/19/2004	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	.0038 J	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 U	0.00050
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.009	0.0005 U	0.0009 U	0.0005 U	NA	0.022	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0066

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-12	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.02	0.0005 U	0.0005 U	0.0005 U	NA	0.024	0.0006 U	0.0005 U	0.0034 J	0.0005 U	0.0006 U	0.0005 U	0.012	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0019 J	0.0006 U	0.0005 U	0.0005 U	0.068	0.0005 U	0.0005 U	0.0005 U	NA	0.077	0.0006 U	0.0005 U	0.015	0.0005 U	0.0006 U	0.0005 U	0.051	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.014	0.0005 U	0.0005 U	0.0005 U	NA	0.0071	0.0006 U	0.0005 U	0.0023 J	0.0005 U	0.00068 J	0.0005 U	0.0082	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0072	0.0005 U	0.0005 U	0.0005 U	NA	0.0041 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0015 J	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0034 J	0.00050 U	0.00050 U	0.00050 U	NA	0.0036 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.0014 J	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.007	0.0005 U	0.0005 U	0.0005 U	NA	0.004 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0019 J	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0086	0.0005 U	0.0005 U	0.0005 U	NA	0.0088	0.0005 U	0.0005 U	0.00075 J	0.0005 U	0.0005 U	0.0005 U	0.0034 J	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0083	0.00050 U	0.00050 U	0.00050 U	NA	0.01	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.0024 J	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.012	0.00050 U	0.00050 U	0.00050 U	NA	0.0056	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.0011 J	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.047	0.00090 U	0.00090 U	0.0011 U	NA	0.042	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0043 J	0.0010 U
	5/7/2001	0.0031 J	0.00090 U	<0.0005	<0.00090	0.0035 J	<0.0005	0.0011 J	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.38	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	0.0065
	4/23/2003	<0.0005	0.00090 U	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.003 J	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	1/12/2004	0.003 J	0.00090 U	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	NA	0.058	<0.0005	<0.0005	<0.00060	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
	11/19/2004	0.052	0.00090 U	<0.0005	<0.00090	<0.001	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	0.028	<0.0005	<0.0005	0.00061 J	NA	1.1	<0.0005	<0.0005	<0.00060	0.0012 J	<0.0005	<0.0005	<0.0005	0.027
	9/15/2005	0.059	0.00090 U	<0.0005	<0.00090	0.0025 J	<0.0005	0.00071 J	<0.0005	<0.0005	<0.0005	0.048	<0.0005	<0.0005	0.011	NA	0.95	<0.0005	<0.0005	<0.00060	0.0072	0.026	<0.0005	0.011	0.11
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 U	0.00050
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.1	0.0005 U	0.0009 U	0.0005 U	NA	0.064	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0068
GPW-13	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0024 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0012 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0029 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0018 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.00089 J	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0027 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0082	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.012	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0096	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.01	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0077	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0010 J	0.00050 U	0.00050 U	0.00050 U	NA	0.0021 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0035 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0031 J	0.00090 U	0.00090 U	0.0011 U	NA	0.0048 J	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	11/16/2004	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.0072	<0.005	<0.005	<0.005	NA	0.0041 J	<0.010	<0.005	0.0023 J	<0.005	0.00068 J	<0.005	0.0015	<0.002
	9/14/2005	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 U	0.00050 U
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.043	0.0005 U	0.0009 U	0.0005 U	NA	0.026	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.0016 J	0.0007 J
GPW-14	9/12/2006	5.7	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0044 J	0.0054	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.17	NA	2.2	0.0006 U	0.0005 U	0.0005 U	0.014	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	9.8	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0072	0.0059	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.35	NA	2.7	0.0006 U	0.0005 U	0.0005 U	0.063	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/31/2007	12	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0091 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.18	NA	2.1	0.0006 U	0.0005 U	0.0005 U	0.026	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	7.6	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.013	0.0063	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.2	NA	1.1	0.0005 U	0.0005 U	0.0006 U	0.037	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	5.1	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0067	0.0034 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.012	NA	1.3	0.0098 J	0.0005 U	0.0006 U	0.0067	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	03/25/2009	8.4	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0072	0.0019 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.027	NA	1.8	0.0005 U	0.0005 U	0.0006 U	0.012	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	0.9	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0089	0.0034 J	0.0005 U	0.0005 U	0.00071 J	0.0005 U	0.0005 U	0.0073	NA	0.89	0.0005 U	0.0005 U	0.0006 U	0.0042 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/25/2010	2.6	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.027	0.0043 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.25	NA	1.2	0.00050 U	0.00050 U	0.00060 U	0.046	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.9	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.016	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.012	NA	1.2	0.00050 U	0.00050 U	0.00060 U	0.0088	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	0.39	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.018	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.55	0.0013 U	0.00090 U	0.0017 U	0.0037 J	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	0.013	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0093	0.001 U	0.001 U	0.001 U	0.0051	0.0005 U	0.0009 U	0.0005 U	NA	0.096	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-15R	11/1/2007	0.15	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.31	0.0005 U	0.0005 U	0.0048 J	NA	1.5	0.0006 U	0.0005 U	0.0074	0.017	0.041	0.0005 U	0.0022 J	0.0006 U
	4/24/2008	0.19	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.27	0.0005 U	0.0005 U	0.0068	NA	1.3	0.0005 U	0.0005 U	0.0019 J	0.012	0.0005 U	0.0005 U	0.00099 J	0.0005 U
	09/11/2008	0.052	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.028	0.0005 U	0.0005 U	0.00061 J	NA	1.1	0.0005 U	0.0005 U	0.0006 U	0.0012 J	0.0005 U	0.0005 U	0.0005 U	0.027
	03/25/2009	0.0037 J	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00065 J	0.0005 U	0.0005 U	0.0005 U	NA	0.16	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/16/2009	0.0062	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0026 J	0.0005 U	0.0005 U	0.0005 U	NA	0.26	0.0005 U	0.0005 U	0.0006 U	0.004 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/25/2010	0.023	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0032 J	0.00050 U	0.00050 U	0.00050 U	NA	0.093	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/31/2011	0.29	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.0031 J	0.00050 U	0.00050 U	0.00050 U	NA	0.083	0.00050 U	0.00050 U	0.00060 U	0.002 J	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/28/2012	0.28	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.021	0.00090 U	0.00090 U	0.0011 U	NA	0.17	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.017
	3/27/2013	0.023	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.018	0.0005 U	0.0009 U	0.0005 U	NA	0.046	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-16	11/15/2004	0.011	<0.005	<0.005	<0.005	<0.010	<0.005	0.0062	<0.005	<0.005	<0.005	0.046	<0.005	<0.005	0.64	NA	12.0	<0.010	<0.005	<0.005	0.2	<0.005	NA	<0.005	<0.002
	9/14/2005	0.016	<0.005	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	NA	0.9	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.08
	9/12/2006	0.011	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	3.0	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/2/2007	0.011	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.17	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/31/2007	0.0074	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0017 J	0.0005 U	0.0005 U	0.0005 U	NA	0.16	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.025	0.0005 U	0.0007 U	0.0006 U
	4/24/2008	0.0091	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00071 J	0.0005 U	0.0005 U	0.0005 U	0.0026 J	0.0005 U	0.0005 U	0.0005 U	NA	0.13	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.016	0.0005 U	0.0005 U	0.0005 U
	09/11/2008	0.058	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00077 J	0.0005 U	0.0005 U	0.0005 U	0.0036 J	0.0005 U	0.0005 U	0.0005 U	NA	0.34	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.047	0.0005 U	0.0005 U	0.0071
	03/25/2009	0.0055	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.13	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.029	0.0005 U	0.0005 U	0.0048
	09/16/2009	0.012	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00074 J	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.28	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.035	0.0005 U	0.0005 U	0.0066
	3/25/2010	0.0022 J	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00087 J	0.00050 U	0.00050 U	0.00050 U	NA	0.15	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/31/2007	0.0054	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00098 J	0.00050 U	0.00050 U	0.00050 U	NA	0.11	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00075 J	0.00050 U
	2/28/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.054	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.26	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-17	9/12/2006	0.00098 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0082	0.0006 U	0.0005 U	0.0005 U	0.76	0.0005 U	0.0005 U	0.0005 U	NA	0.16	0.0006 U	0.0005 U	0.12	0.0005 U	0.0006 U	0.0005 U	0.46	0.0058
	5/1/2007	0.00069 J	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0083	0.0006 U	0.0005 U	0.0005 U	0.63	0.0005 U	0.0005 U	0.0005 U	NA	0.081	0.0006 U	0.0005 U	0.12	0.0005 U	0.022	0.0005 U	0.44	0.0072
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.05	0.0005 U	0.0005 U	0.0005 U	NA	0.012	0.0006 U	0.0005 U	0.005 J	0.0005 U	0.0016 J	0.0005 U	0.027	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00083 J	0.0005 U	0.0005 U	0.0005 U	0.022	0.0005 U	0.0005 U	0.0005 U	NA	0.008	0.0005 U	0.0005 U	0.002 J	0.0005 U	0.00054 J	0.0005 U	0.0097	0.0005 U
	09/10/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.032	0.0005 U	0.0005 U	0.0005 U	NA	0.018	0.0005 U	0.0005 U	0.0026 J	0.0005 U	0.00093 J	0.0005 U	0.018	0.0005 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.00092 J	0.0005 U	0.0005 U	0.0005 U	0.06	0.0005 U	0.0005 U	0.0005 U	NA	0.032	0.0005 U	0.0005 U	0.0068	0.0005 U	0.0005 U	0.0005 U	0.033	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0059	0.0005 U	0.0005 U	0.0005 U	0.19	0.0005 U	0.0005 U	0.0005 U	NA	0.01	0.0005 U	0.0005 U	0.0011 J	0.0005 U	0.0067	0.0005 U	0.017	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.0053	0.00050 U	0.00050 U	0.00050 U	0.30	0.00050 U	0.00050 U	0.00050 U	NA	0.017	0.00050 U	0.00050 U	0.0011 J	0.00050 U	0.0069	0.00050 U	0.021	0.0043
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.0023 J	0.00050 U	0.00050 U	0.00050 U	0.19	0.00050 U	0.00050 U	0.00050 U	NA	0.026	0.00050 U	0.00050 U	0.0015 J	0.00050 U	0.0048 J	0.00050 U	0.012	0.0035
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0021 J	0.0015 U	0.0010 U	0.0011 U	0.17	0.00090 U	0.00090 U	0.0011 U	NA	0.093	0.0013 U	0.00090 U	0.0085	0.0010 U	0.0010 U	0.00090 U	0.073	0.0046
	11/16/2004	<0.005	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.00054	<0.005	<0.005	<0.005	NA	0.024 J	<0.010	<0.005	0.0012	<0.005	<0.005	<0.005	0.0016	<0.002
	9/15/2005	0.0071	0.00090 U	<0.005	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.010	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	09/25/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 J	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010	0.00050 U
	3/28/2013	0.00066 J	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.038	0.0005 U	0.0009 U	0.0005 U	NA	0.083	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.0076	0.0005 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.005**	**0.015**	**0.12**	**0.034**	**2.4**	**0.005**	**0.1**	**9.8**	**0.24**	**0.07**	**0.07**	**0.0017**	**0.011**	**0.7**	**2.4**	**0.24**	**0.07**	**0.1**	**0.005**	**1**	**0.1**	**0.0091**	**0.005**	**0.002**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**180**	**nv**	**5100**	**46**	**4,900**	**20**	**1,200**	**120,000**	**20**	**36**	**1,200**	**690**	**nv**	**30,000**	**4,400**	**4,000**	**36**	**15,000**	**500**	**64,000**	**770**	**190**	**24**	**3.8**
GPW-18	9/12/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0042 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	5/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.01	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0071	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0088	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/10/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0059	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0054	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0068	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/24/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	03/30/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0047 J	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.0081	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
Off-Site Wells																									
GPW-19	11/19/2004	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	NA	0.0018	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0011 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0013 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	10/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0035 J	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0023 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0055	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0055	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0048 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0048 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/29/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.0045 J	0.00057 J	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0033 J	0.0013 U	0.00090 U	0.0017	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	09/24/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 U	0.00050 U
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.004 J	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
GPW-20	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.039	0.0005 U	0.0005 U	0.0005 U	NA	0.0046 J	0.0006 U	0.0005 U	**0.019**	0.0005 U	0.00092 J	0.0005 U	**0.031**	0.0006 U
	4/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.06	0.0005 U	0.0005 U	0.0005 U	NA	0.011	0.0006 U	0.0005 U	**0.032**	0.0005 U	0.0006 U	0.0005 U	**0.058**	0.0006 U
	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.037	0.0005 U	0.0005 U	0.0005 U	NA	0.015	0.0006 U	0.0005 U	**0.013**	0.0005 U	0.0011 J	0.0005 U	**0.028**	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.026	0.0005 U	0.0005 U	0.0005 U	NA	0.006	0.0005 U	0.0005 U	**0.01**	0.0005 U	0.00058 J	0.0005 U	**0.019**	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.025	0.00050 U	0.00050 U	0.00050 U	NA	0.0039 J	0.00050 U	0.00050 U	**0.0057**	0.00050 U	0.00067 J	0.00050 U	**0.017**	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.017	0.0005 U	0.0005 U	0.0005 U	NA	0.0036 J	0.0005 U	0.0005 U	0.0045 J	0.0005 U	0.0005 U	0.0005 U	**0.01**	0.0005 U
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0074	0.0005 U	0.0005 U	0.0005 U	NA	0.0027 J	0.0005 U	0.0005 U	0.0017 J	0.0005 U	0.0005 U	0.0005 U	0.0045	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.038	0.00050 U	0.00050 U	0.00050 U	NA	0.014	0.00050 U	0.00050 U	0.0018 J	0.00050 U	0.00050 U	0.00050 U	0.004	0.00050 U
	3/29/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.016	0.00050 U	0.00050 U	0.00050 U	NA	0.01	0.00059 J	0.00050 U	0.0024 J	0.00050 U	0.00050 U	0.00050 U	**0.0071**	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.021	0.00090 U	0.00090 U	0.0011 U	NA	0.020	0.0013 U	0.00090 U	0.0034 J	0.0010 U	0.0010 U	0.00090 U	**0.0067**	0.0010 U
	11/19/2004	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	0.069	<0.005	<0.005	<0.005	NA	<0.005	<0.01	<0.005	**0.019**	<0.005	<0.005	<0.005	**0.028**	<0.002
	9/15/2005	<0.005	<0.005	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	**0.08**	<0.005	<0.005	<0.005	NA	0.21	<0.01	<0.005	**0.019**	<0.005	<0.005	<0.005	**0.046**	<0.002
	09/24/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 J	0.00050 U
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	**0.2**	0.0005 U	0.0009 U	0.0005 U	NA	0.089	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	**0.011**	0.0013 J
	1/7/2014	0.0006 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	**0.17**	0.0005 U	0.0009 U	0.0005 U	NA	0.083	0.001 U	0.0009 U	0.00069 J	0.0005 U	0.005 J	0.0009 U	0.0036 J	**0.0022**

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		0.005	0.015	0.12	0.034	2.4	0.005	0.1	9.8	0.24	0.07	0.07	0.0017	0.011	0.7	2.4	0.24	0.07	0.1	0.005	1	0.1	0.0091	0.005	0.002
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		180	nv	5100	46	4,900	20	1,200	120,000	20	36	1,200	690	nv	30,000	4,400	4,000	36	15,000	500	64,000	770	190	24	3.8
GPW-21	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.086	0.0005 U	0.0005 U	0.0005 U	NA	0.21	0.0006 U	0.0005 U	0.025	0.0005 U	0.0006 U	0.0005 U	0.053	0.0006 U
	4/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.00052 J	0.0006 U	0.0005 U	0.0005 U	0.12	0.0005 U	0.0005 U	0.0005 U	NA	0.062	0.0006 U	0.0005 U	0.032	0.0005 U	0.0006 U	0.0005 U	0.094	0.0006 U
	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.18	0.0005 U	0.0005 U	0.0005 U	NA	0.17	0.0006 U	0.0005 U	0.038	0.0005 U	0.0074	0.0005 U	0.13	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.12	0.0005 U	0.0005 U	0.0005 U	NA	0.094	0.0005 U	0.0005 U	0.029	0.0005 U	0.0036 J	0.0005 U	0.082	0.0017 J
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.13	0.00050 U	0.00050 U	0.00050 U	NA	0.20	0.00050 U	0.00050 U	0.023	0.00050 U	0.0039 J	0.00050 U	0.085	0.0015 J
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.087	0.0005 U	0.0005 U	0.0005 U	NA	0.13	0.0005 U	0.0005 U	0.024	0.0005 U	0.0005 U	0.0005 U	0.056	0.0019 J
	09/15/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.049	0.0005 U	0.0005 U	0.0005 U	NA	0.16	0.0005 U	0.0005 U	0.012	0.0005 U	0.0005 U	0.0005 U	0.036	0.001 J
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.035	0.00050 U	0.00050 U	0.00050 U	NA	0.074	0.00050 U	0.00050 U	0.0099	0.00050 U	0.00087 J	0.00050 U	0.023	0.00050 U
	3/29/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.055	0.00050 U	0.00050 U	0.00050 U	NA	0.12	0.00050 U	0.00050 U	0.0039 J	0.00050 U	0.0018 J	0.00050 U	0.0084	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.12	0.00090 U	0.00090 U	0.0011 U	NA	0.41	0.0013 U	0.00090 U	0.0030 J	0.0010 U	0.0010 U	0.00090 U	0.027	0.0010 U
	09/24/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.010	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010	0.00050 J
	3/28/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.100	0.0005 U	0.0009 U	0.0005 U	NA	0.11	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.0041 J	0.0005 U
	1/7/2014	0.0006 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.079	0.0005 U	0.0009 U	0.0005 U	NA	0.18	0.001 U	0.0009 U	0.0006 U	0.0005 U	0.0004 U	0.0009 U	0.0017 J	0.00086 J
GPW-22	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.00096 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.002 J	0.0005 U	0.0006 U	0.0005 U	0.0018 J	0.0006 U
	4/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.005 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0029 J	0.0006 U	0.0005 U	0.0061	0.0005 U	0.0006 U	0.0005 U	0.0076	0.0006 U
	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.00087 J	0.0005 U	0.0005 U	0.0005 U	NA	0.016	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.00092 J	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0061	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00054 J	0.00050 U	0.00050 U	0.00050 U	NA	0.0035 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0025 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/14/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.002 J	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00052 J	0.00050 U	0.00050 U	0.00050 U	NA	0.0033 J	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/29/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/1/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.025	0.00090 U	0.00090 U	0.0011 U	NA	0.0020 J	0.0013 U	0.00090 U	0.0085	0.0010 U	0.0010 U	0.00090 U	0.022	0.0010 U
	9/14/2005	<0.005	0.00090 U	<0.005	<0.005	<0.01	<0.005	0.001	<0.005	<0.005	<0.005	0.00066 J	<0.005	<0.005	<0.005	NA	0.00087	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002
	09/24/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010	0.0010 U	0.00090 U	0.0010	0.00050 U	NA	0.00090 U	0.0010	0.00050 J
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.045	0.0005 U	0.0009 U	0.0005 U	NA	0.05	0.001 U	0.0009 U	0.0094	0.0005 U	0.001 U	0.0009 U	0.038	0.0005 U
	1/7/2014	0.0006 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.018	0.0005 U	0.0009 U	0.0005 U	NA	0.026	0.001 U	0.0009 U	0.0024 J	0.0005 U	0.0004 J	0.0009 U	0.011	0.00043 J
	5/15/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.010	NA	NA	NA	NA	0.0058	NA	NA	0.00060 J	NA	0.00040 U	NA	0.0066	0.00040 U
	8/1/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA	NA	0.00060 U	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U
	11/3/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0086	NA	NA	NA	NA	0.013	NA	NA	0.0017 J	NA	0.00040 U	NA	0.0055	0.00040 U
	2/2/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0033 J	NA	NA	NA	NA	0.0049 J	NA	NA	0.00064 J	NA	0.00040 U	NA	0.0023 J	0.00040 U
	5/4/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 J	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U

Table G - 3
Summary of Groundwater Analytical Results - Georgia-Pacific (10120 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	EPA Method 8260 (mg/L)																							
		Benzene	Bromodichloro-methane	Bromoform	Bromomethane	Carbon Disulfide	Carbon Tetrachloride	Chlorobenzene	Chloroethane	Chloroform	Chloromethane	cis-1,2-Dichloroethene	cis-1,3-Dichloropropene	Dibromo-chloromethane	Ethylbenzene	Isopropylbenzene (Cumene)	Methyl tert-Butyl Ether	Methylene Chloride	Styrene	Tetrachloro-ethene	Toluene	trans-1,2-Dichloroethene	trans-1,3-Dichloropropene	Trichloroethene	Vinyl Chloride
Ingestion PCL (Tier 1 $^{GW}GW_{ING}$ PCL - residential) (mg/L)		**0.005**	**0.015**	**0.12**	**0.034**	**2.4**	**0.005**	**0.1**	**9.8**	**0.24**	**0.07**	**0.07**	**0.0017**	**0.011**	**0.7**	**2.4**	**0.24**	**0.07**	**0.1**	**0.005**	**1**	**0.1**	**0.0091**	**0.005**	**0.002**
Non-ingestion PCL (Tier 1 $^{Air}GW_{Inh-V}$ PCL - residential) (mg/L)		**180**	**nv**	**5100**	**46**	**4,900**	**20**	**1,200**	**120,000**	**20**	**36**	**1,200**	**690**	**nv**	**30,000**	**4,400**	**4,000**	**36**	**15,000**	**500**	**64,000**	**770**	**190**	**24**	**3.8**
GPW-23	9/11/2006	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/30/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	11/1/2007	0.0006 U	0.0005 U	0.0008 U	0.0005 U	0.0007 U	0.0006 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0007 U	0.0006 U
	4/23/2008	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/09/2008	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00068 J	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/24/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00079 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	09/14/2009	0.0005 U	0.0005 U	0.0005 U	0.0009 U	0.001 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.00056 J	0.0005 U	0.0005 U	0.0005 U	NA	0.0005 U	0.0005 U	0.0005 U	0.0006 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U	0.0005 U
	3/23/2010	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	3/29/2011	0.00050 U	0.00050 U	0.00050 U	0.00090 U	0.0010 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	NA	0.00050 U	0.00050 U	0.00050 U	0.00060 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U	0.00050 U
	2/29/2012	0.0010 U	0.00090 U	0.00090 U	0.0019 U	0.0023 U	0.0018 U	0.0010 U	0.0015 U	0.0010 U	0.0011 U	0.0025 U	0.00090 U	0.00090 U	0.0011 U	NA	0.0012 U	0.0013 U	0.00090 U	0.0017 U	0.0010 U	0.0010 U	0.00090 U	0.0011 U	0.0010 U
	09/24/2012	0.00050 U	0.00090 U	0.00090 U	0.0010 U	0.0020 U	0.0010 U	0.00050 U	0.0010 U	0.0010 U	0.0010 U	0.0010 U	0.00050 U	0.00090 U	0.00050 U	0.00050 U	0.0010 U	0.0010 U	0.00090 U	0.0010 U	0.00050 U	NA	0.00090 U	0.0010 U	0.00050 U
	3/27/2013	0.0005 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.001 U	0.0005 U	0.0009 U	0.0005 U	NA	0.001 U	0.001 U	0.0009 U	0.001 U	0.0005 U	0.001 U	0.0009 U	0.001 U	0.0005 U
	1/7/2014	0.0006 U	0.0009 U	0.0009 U	0.001 U	0.002 U	0.001 U	0.0005 U	0.001 U	0.001 U	0.001 U	0.0006 U	0.0005 U	0.0009 U	0.0005 U	NA	0.0006 U	0.001 U	0.0009 U	0.0006 U	0.0005 U	0.0004 U	0.0009 U	0.0005 U	0.0004 U
	5/15/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA	NA	0.00060 U	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U
	8/1/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA	NA	0.00060 U	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U
	11/3/2014	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA	NA	0.00060 U	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U
	2/2/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	NA	NA	NA	0.00060 U	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 U	0.00040 U
	5/4/2015	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.00060 J	NA	NA	NA	NA	NA	NA	NA	0.00060 U	NA	0.00040 U	NA	0.00050 J	0.00040 U

Notes:
All units in milligrams per liter (mg/L)
U or < - Analyte was not detected at or above the method quantitation limit (MQL)
TRRP - Texas Risk Reduction Program
$^{GW}GW_{Ing}$ PCL - Residential Protective Concentration Level for Groundwater Ingestion
Protective Concentration Limits (PCL) - based on TRRP values for 0.5-acre source area (December 2015 tables)
J - Result is less than the MQL but greater than or equal to the sample quantitation limit (SQL) and the concentration is an estimated value.
NA - Not Analyzed
nv - no value
NS - Not Sampled
Bold Text with Gray Shading - Analyte exceeds the Ingestion Protective Concentration Level

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-1	10/10/95	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	0.038	<0.005	<0.005	NA	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	<0.005
	11/19/96	<0.005	<0.005	<0.005	na	<0.005	na	na	<0.005	<0.005	0.002 J	na	<0.005	NA	na	<0.005	<0.005	0.003 J	<0.005	<0.010	<0.005
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	NA	na	na	na	na	na	0.0077	-
	02/11/97	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.005	<0.005	0.021	<0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.018	na
	05/13/97	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.008	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.021	<0.005
	11/06/97	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	0.008	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.014	<0.005
	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.008	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/11/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005	<0.005	0.36	<0.005	<0.005	<0.005	<0.005	0.006	<0.010	<0.005
	02/22/00	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.028	<0.005	<0.005	4.4	<0.005	<0.005	<0.005	<0.005	<0.005	0.062	<0.005
	03/08/01	<0.001	0.006	<0.001	<0.001	0.009 J	<0.001	<0.001	0.096	0.001	0.043	<0.001	<0.001	11	0.003	<0.001	<0.001	0.004	0.024	0.069	< 0.003
	06/18/01	<0.001	0.007	<0.001	<0.001	0.001 J	<0.001	<0.001	0.077	<0.001	0.033	<0.001	<0.001	na	0.002	<0.001	<0.001	0.003	0.002	0.046	<0.003
	01/08/04	<0.002	0.0415	<0.0026	na	<0.0028	na	na	0.0742	<0.002	0.0578	na	<0.014	na	NR	<0.0022	<0.002	0.0225	<0.0022	<0.002	<0.0084
	09/09/08	<0.00050	0.0085	<0.00050	0.0014 J	0.00072 J	<0.00050	<0.00050	na	0.0012 J	na	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/25/09	<0.00050	0.0023 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0016 J	na	0.015	<0.0010
	09/15/09	<0.00050	0.0040 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0023 J	na	0.019	<0.0010
	03/30/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0023 J	na	<0.00050	<0.0010
	09/22/10	<0.00050	0.0049 J	0.00062 J	0.0029 J	<0.00050	0.00085 J	0.00078 J	na	0.0014 J	na	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	na	0.021	<0.0010
	03/29/11	<0.00050	0.0062	<0.00050	0.00066 J	<0.00050	<0.00050	<0.00050	na	0.00072 J	na	<0.00050	<0.00050	na	0.00071 J	<0.00060	<0.00050	<0.00050	na	0.0084	<0.0010
	09/01/11	<0.0013	0.0042 J	<0.0013	<0.0008	<0.0010	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0014 J	na	0.0029	<0.0031
	03/08/12	<0.0013	0.0027 J	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	na	<0.0010	<0.0031
MW-2	10/10/95	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	0.032	<0.005	0.021	0.074	<0.005	na	0.010	<0.005	0.014	0.008	<0.005	0.034	<0.005
	11/19/96	<0.005	0.010	<0.005	na	0.011	na	na	0.007	0.032	0.150	na	<0.005	na	na	<0.005	<0.005	0.010	0.007	0.240	<0.005
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.160	na
	02/11/97	<0.005	0.006	<0.005	0.026	0.012	<0.005	0.005	0.011	0.036	0.740	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.050	0.031	0.550	<0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.530	na
	05/13/97	<0.005	0.010	<0.005	0.008	0.014	<0.005	<0.005	0.012	0.006	0.045	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.077	<0.005
	11/06/97	<0.005	0.012	<0.005	0.012	<0.005	<0.005	<0.005	0.031	0.028	0.005	0.029	<0.005	na	0.008	<0.005	<0.005	0.020	<0.005	0.079	<0.005
	03/13/98	<0.005	0.014	<0.005	<0.005	<0.005	<0.005	<0.005	0.007	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/07/99	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	< 0.005	<0.005	0.006	<0.005	<0.005	0.12	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
	02/23/00	<0.005	0.052	<0.005	<0.005	<0.005	<0.005	<0.005	0.017	<0.005	0.006	<0.005	<0.005	0.39	<0.005	<0.005	<0.005	0.008	<0.005	0.018	<0.005
	03/09/01	<0.001	0.004	0.001	0.002	0.002	<0.001	<0.001	0.008	0.005	0.220	<0.001	<0.001	0.036	0.004	<0.001	<0.001	0.006	<0.001	0.160	< 0.003
	06/13/01	<0.001	0.006	<0.001	0.007	0.004	<0.001	<0.001	0.012	0.002	0.180	<0.001	<0.001	na	0.003	<0.001	<0.001	0.010	<0.001	0.220	0.001 J
	01/09/04	<0.0001	0.00933	<0.00013	na	<0.00014	na	na	0.0069	0.00186	0.0125	na	<0.00069	na	NR	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	0.00327
	04/17/06	<0.00060	<0.00050	<0.00060	<0.00090	0.0089	na	<0.00070	0.840	<0.00050	0.0079	na	<0.00060	na	NR	<0.00050	0.0026 J	<0.00060	<0.00070	<0.00060	<0.0015
	09/09/08	<0.00050	0.011	<0.00050	0.0012 J	<0.00050	<0.00050	<0.00050	NR	<0.00050	<0.00050	<0.00050	<0.00050	na	0.023	<0.00060	0.00052 J	<0.00050	<0.00050	<0.00050	<0.0010
	03/26/09	<0.00050	0.0051	<0.00050	0.00080 J	<0.00050	<0.00050	<0.00050	NR	<0.00050	0.00094 J	0.00058 J	<0.00050	na	0.0081	<0.00060	0.0028 J	<0.00050	<0.00050	0.029	<0.0010
	09/16/09	<0.00050	0.0067	<0.00050	0.0010 J	<0.00050	<0.00050	<0.00050	NR	<0.00050	0.0029 J	0.012	<0.00050	na	0.014	<0.00060	0.0032 J	<0.00050	<0.00050	0.0064	0.0065 J
	03/31/10	<0.00050	0.0019 J	<0.00050	0.00071 J	<0.00050	<0.00050	<0.00050	NR	<0.00050	0.025	0.0048 J	<0.00050	na	0.0095	<0.00060	0.0016 J	0.0038 J	<0.00050	0.045	<0.0010
	09/21/10	<0.00050	0.0026 J	<0.00050	0.00075 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.0013 J	0.0046 J	<0.00050	na	0.010	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/29/11	<0.00050	0.0028 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	0.17	<0.00050	<0.00050	na	0.011	<0.00060	0.017	<0.00050	<0.00050	0.21	0.0046 J
	09/01/11	<0.0013	0.011	<0.0013	0.00081 J	<0.0010	<0.0009	<0.0009	na	0.0010 J	0.0049 J	<0.0012	<0.0013	na	0.0086	<0.0017	0.0017 J	0.011	<0.0011	<0.001	<0.0031
	03/12/12	<0.0013	0.020	0.0081	0.00091 J	<0.001	<0.0009	0.0015 J	na	0.0110	0.90	<0.0012	<0.0013	na	0.0048 J	<0.0017	0.0017 J	<0.001	0.012	0.41	<0.0031
	09/21/12	<0.00050	0.026	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	na	0.0038 J	0.013	<0.00050	<0.0010	na	0.0028 J	<0.0010	<0.00050	<0.0010	<0.0010	0.083	<0.0015
	03/26/13	<0.00050	0.021	<0.00060	<0.00050	<0.00050	<0.00050	<0.00080	na	0.0028 J	0.012	<0.00050	<0.0010	na	0.0017 J	<0.0010	<0.00050	<0.0010	<0.0010	0.014	<0.0015
	09/17/13	<0.00050	0.0081	<0.00050	<0.00060	<0.00050	<0.00050	<0.00060	na	0.0086	0.016	<0.00050	<0.0010	na	0.0012 J	<0.00060	<0.00050	<0.00040	<0.00050	0.023	<0.0015
	09/23/14	< 0.00043	0.0033	< 0.00045	0.0015	< 0.00035	NR	0.0023	na	0.0236	0.0015	< 0.00040	< 0.0016	na	0.00067 J	<0.00046	<0.00033	0.00082 J	<0.00049	0.0015	<0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-3	10/10/95	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.007	<0.005	<0.010	<0.005
	11/19/96	<0.005	0.006	<0.005	NR	<0.005	na	na	0.008	<0.005	<0.005	na	<0.005	na	NR	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.00180	na
	02/11/97	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	na	0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.00198 J	na
	05/13/97	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005
	11/06/97	<0.005	0.006	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	<0.005	<0.005	<0.005	<0.005	na	0.007	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/12/99	<0.005	0.008	<0.005	<0.005	<0.005	<0.005	<0.005	0.061	<0.005	<0.005	<0.005	<0.005	15	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005
	02/23/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	<0.005	<0.005	<0.005	<0.005	10	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/08/01	<0.001	0.021	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	2.9	0.004	<0.001	<0.001	0.002	<0.001	<0.001	<0.003
	06/18/01	<0.001	0.029	<0.001	<0.001	0.001 J	<0.001	<0.001	0.008	<0.001	<0.001	<0.001	<0.001	na	0.003	<0.001	<0.001	0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	0.198	<0.00009	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	0.0051
	09/09/08	<0.00050	0.0028 J	<0.00050	0.00092 J	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.0058	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/25/09	<0.00050	0.0032 J	<0.00050	0.00097 J	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.0067	<0.00060	<0.00050	<0.00050	na	0.0058	<0.0010
	09/15/09	<0.00050	0.0021 J	<0.00050	0.00066 J	<0.00050	<0.00050	<0.00050	na	0.0012 J	na	<0.00050	<0.00050	na	0.0012 J	<0.00060	<0.00050	<0.00050	na	0.0067	<0.0010
	03/30/10	<0.00050	0.0013 J	<0.00050	0.00059 J	<0.00050	<0.00050	<0.00050	na	0.00071 J	na	<0.00050	<0.00050	na	0.0041 J	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	09/22/10	<0.00050	0.0012 J	<0.00050	0.0015 J	<0.00050	<0.00050	0.0014 J	NR	0.00080 J	NR	<0.00050	<0.00050	NA	0.00065 J	<0.00060	<0.00050	<0.00050	NR	0.0087	<0.0010
	03/29/11	<0.00050	0.0014 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	NR	<0.00050	NR	<0.00050	<0.00050	NA	0.0015 J	<0.00060	<0.00050	<0.00050	NR	0.051	<0.0010
	09/01/11	<0.0013	0.0023 J	<0.0013	<0.0008	<0.0010	<0.0009	<0.0009	NR	0.0010 J	NR	<0.0012	<0.0013	NA	0.0036 J	<0.0017	<0.001	0.0029 J	NR	0.017	<0.0031
	03/08/12	<0.0013	0.0017 J	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	NR	<0.001	NR	<0.0012	<0.0013	NA	0.0031 J	<0.0017	<0.001	<0.001	NR	<0.0010	<0.0031
MW-4	11/19/96	< 0.005	< 0.005	< 0.005	NR	< 0.005	NR	NR	< 0.005	< 0.005	0.160	NR	< 0.005	NA	NR	< 0.005	< 0.005	0.005	0.007	0.140	< 0.005
	11/19/96	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA	NR	NR	NR	NR	na	0.110	na
	02/11/97	< 0.005	< 0.005	< 0.005	0.031	0.008	<0.005	<0.005	0.006	0.021	0.210	< 0.005	< 0.005	NA	< 0.005	<0.005	< 0.005	< 0.005	0.014	0.440	< 0.005
	02/11/97	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NA	NR	NR	NR	NR	na	0.480	na
	05/13/97	< 0.005	< 0.005	< 0.005	0.027	0.013	<0.005	0.006	0.007	0.060	0.940	< 0.005	< 0.005	NA	< 0.005	<0.005	< 0.005	0.024 J	0.011	0.560	< 0.005
	11/06/97	< 0.005	< 0.005	< 0.005	0.033	0.009	<0.005	0.009	0.007	0.070	0.830	< 0.005	< 0.005	NA	0.005	<0.005	< 0.005	< 0.120	0.031	0.310	< 0.005
	03/13/98	< 0.005	< 0.005	< 0.005	0.016	0.006	<0.005	<0.005	0.005	0.044	0.450	< 0.005	< 0.005	NA	<0.005	<0.005	< 0.005	<0.025	<0.005	0.190	< 0.005
	01/12/99	< 0.005	0.006	< 0.005	0.016	0.007	<0.005	<0.005	<0.005	0.021	0.220	< 0.005	< 0.005	0.05	< 0.005	<0.005	< 0.005	<0.025	0.010	0.280	< 0.005
	02/23/00	<0.005	0.006	<0.005	0.019	0.007	<0.005	<0.005	0.006	0.028	0.220	<0.005	<0.005	0.13	<0.005	<0.005	<0.005	<0.005	<0.005	0.180	<0.005
	03/07/01	<0.001	0.004	0.001	0.052	0.004	<0.001	0.009	0.006	0.078	0.280	<0.001	<0.001	0.05	0.002	<0.001	0.002	0.013	0.003	0.380	< 0.003
	06/19/01	<0.001	0.004	0.002	0.048	0.007	<0.001	0.008	0.005	0.100	0.620	<0.001	<0.001	na	0.002	<0.001	0.002	<0.025	0.007	0.330	<0.003
	01/09/04	<0.0001	0.00485	0.00227	NR	0.00447	na	na	0.00114	0.00885	0.308	na	<0.00069	na	na	<0.00011	<0.00009	0.00643	0.0204	0.0355	0.00316
	04/19/06	<0.00060	0.027	<0.00060	0.0034 J	<0.00050	na	<0.00070	0.0062	0.0034 J	0.050	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	<0.00060	<0.0015
	09/11/08	<0.00050	0.0093	0.0034 J	0.0017 J	<0.00050	<0.00050	<0.00050	na	0.0084	0.200	<0.00050	<0.00050	na	0.0013 J	<0.00060	<0.00050	<0.00050	<0.00050	0.069	<0.0010
	03/25/09	<0.00050	0.013	0.0020 J	0.0032 J	<0.00050	<0.00050	0.0019 J	na	0.013	0.23	<0.00050	<0.00050	na	0.0017 J	<0.00060	<0.00050	<0.00050	<0.00050	0.083	<0.0010
	09/15/09	<0.00050	0.015	0.0022 J	0.0019 J	<0.00050	<0.00050	<0.00050	na	0.011	0.21	<0.00050	<0.00050	na	0.0012 J	<0.00060	<0.00050	<0.00050	<0.00050	0.13	<0.0010
	03/30/10	<0.00050	0.0088	<0.00050	0.0011 J	<0.00050	<0.00050	<0.00050	na	0.0011 J	0.011	<0.00050	<0.00050	na	0.0026 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/22/10	<0.00050	0.0097	0.0017 J	0.0027 J	0.0030 J	<0.00050	0.00053 J	na	0.0013 J	0.054	<0.00050	<0.00050	na	0.0030 J	<0.00060	0.0013 J	<0.00050	<0.00050	0.19	<0.0010
	03/29/11	<0.00050	0.010	0.0043 J	0.00080 J	<0.00050	<0.00050	<0.00050	na	0.0017	0.084	<0.00050	<0.00050	na	0.0027 J	<0.00060	<0.00050	<0.00050	<0.00050	0.090	<0.0010
	09/01/11	<0.0013	0.015	0.0051	<0.0008	<0.0010	<0.0009	<0.0009	na	0.0036 J	0.077	<0.0012	<0.0013	na	0.0021 J	<0.0017	<0.001	0.0023 J	<0.0011	0.039	<0.0031
	03/08/12	<0.0013	0.025	0.022	0.0019 J	<0.001	<0.0009	<0.0009	na	0.0063	0.260	<0.0012	<0.0013	na	0.0018 J	<0.0017	<0.001	<0.001	0.0031 J	0.120	<0.0031
	09/19/12	<0.00050	0.018	0.033	0.00093 J	<0.00050	<0.00050	<0.00050	na	0.0042 J	0.410	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	0.0067	0.027	<0.0015
	03/27/13	<0.00050	0.018	0.02	0.0029 J	<0.00050	<0.00050	<0.00090	na	0.0042 J	0.24	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	0.0023 J	0.070	<0.0015
	10/23/13	<0.00050	0.0050	0.0051	0.0083	<0.00050	<0.00050	0.0056	na	0.029	0.13	<0.00050	<0.0010	na	<0.00060	<0.00060	<0.00050	<0.00040	<0.00050	0.057	<0.0015
	09/25/14	< 0.00043	0.0016	< 0.00045	0.0068	< 0.00035	na	0.002	na	0.0113	0.0056	< 0.00040	< 0.0016	na	< 0.00045	< 0.00046	< 0.00033	< 0.00047	< 0.00049	0.0032	< 0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-5	11/19/96	< 0.005	< 0.005	< 0.005	na	< 0.005	na	na	< 0.005	< 0.005	< 0.005	NR	< 0.005	na	NR	< 0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.00180	na
	02/11/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	<0.00005	na
	05/13/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	11/06/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	03/13/98	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	01/08/99	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.010	< 0.005
	02/24/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/15/01	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.003
	06/14/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	NR	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
MW-6	11/19/96	**0.810**	**0.050**	**1.900**	na	**0.013**	na	na	< 0.005	< 0.005	**0.023**	NR	**0.520**	na	na	< 0.005	< 0.005	**0.005**	**0.028**	**0.011**	**0.005**
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**0.020**	na
	02/11/97	**0.320**	**0.042**	**1.200**	**0.070**	**0.027**	< 0.005	< 0.005	< 0.005	< 0.005	**0.020**	< 0.005	**0.019**	na	< 0.005	< 0.005	< 0.005	< 0.005	**0.020**	**0.011**	< 0.005
	02/11/97	na	na	na	**na**	na	na	na	na	na	na	na	na	na	na	na	na	na	na	**0.019**	na
	05/13/97	**0.033**	**0.030**	**0.250**	**0.009**	**0.034**	< 0.005	< 0.005	< 0.005	< 0.005	**0.017**	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	0.003 J	**0.016**	**0.009**	< 0.005
	11/06/97	**0.023**	**0.027**	**0.170**	**0.010**	**0.022**	< 0.005	< 0.005	< 0.005	< 0.005	**0.010**	<0.005	<0.005	na	<0.005	< 0.005	<0.005	<0.005	**0.009**	< 0.010	<0.005
	03/13/98	**0.068**	**0.027**	**0.340**	**0.034**	**0.018**	< 0.005	< 0.005	< 0.005	< 0.005	**0.011**	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.004 J	**0.012**	< 0.010	<0.005
	05/27/98	**0.072**	**0.033**	**0.370**	**0.036**	**0.021**	<0.005	<0.005	<0.005	<0.005	NR	NR	<0.005	na	NR	<0.005	<0.005	**0.006**	**0.009**	< 0.010	NR
	01/08/99	**0.014**	**0.020**	**0.095**	**0.017**	**0.007**	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.010	<0.005
	02/24/00	<0.005	**0.011**	**0.046**	**0.005**	**0.008**	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	**0.004**	<0.005
	03/13/01	**0.032**	**0.025**	**0.250**	**0.031**	**0.017**	<0.001	<0.001	<0.001	<0.001	**0.005**	<0.001	<0.001	**0.002**	<0.001	**0.001**	<0.001	**0.001**	**0.005**	**0.007**	< 0.003
	06/14/01	<0.001	**0.024**	**0.170**	**0.008**	**0.013**	<0.001	<0.001	<0.001	<0.001	**0.005**	<0.001	<0.001	na	<0.001	<0.001	<0.001	**0.001**	**0.004**	**0.007**	<0.003
	01/08/04	<0.0001	**0.118**	**0.0203**	na	**0.0042**	na	na	<0.0001	<0.00009	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	**0.00262**	<0.00011	**0.00251**	0.00129 J
	04/18/06	<0.00060	**0.013**	0.0046 J	**0.024**	<0.00050	na	<0.00070	<0.00060	<0.00050	0.00055 J	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	<0.00060	<0.0015
	09/10/08	<0.00050	**0.0071**	0.0042 J	**0.023**	<0.00050	<0.00050	0.0027 J	<0.00050	<0.00050	0.0017 J	<0.00050	<0.00050	na	<0.00060	0.00089 J	<0.00050	0.00097 J	0.0012 J	<0.00050	<0.0010
	03/24/09	<0.00050	0.0037 J	**0.0058**	**0.0096**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0033 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.00068 J	0.00094 J	<0.0010
	09/16/09	<0.00050	**0.0060**	0.0025 J	**0.028**	<0.00050	<0.00050	0.0030 J	<0.00050	<0.00050	**0.010**	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0011 J	<0.00050	0.0011 J	<0.0010
	03/30/10	<0.00050	**0.0068**	0.0043 J	**0.076**	<0.00050	0.0011 J	**0.0077**	<0.00050	<0.00050	0.0040 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0010 J	0.00080 J	0.00080 J	<0.0010
	09/22/10	<0.00050	**0.048**	0.0036 J	**0.079**	<0.00050	0.0010 J	**0.0072**	<0.00050	0.0012 J	0.0018 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.00067 J	**0.0021**	<0.0010
	03/30/11	<0.00050	**0.013**	**0.0085**	**0.052**	<0.00050	<0.00050	0.0045 J	<0.00050	<0.00050	0.0022 J	<0.00050	<0.00050	na	<0.00060	0.0022 J	<0.00050	0.0019 J	0.0018 J	<0.00050	<0.0010
	09/02/11	<0.0013	**0.0072**	<0.0013	**0.054**	<0.0010	<0.0009	0.0044 J	<0.0010	<0.0010	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.0010	0.0044 J	<0.0011	<0.0010	<0.0031
	03/12/12	<0.0013	**0.009**	**0.0083**	**0.0280**	<0.0010	<0.0009	0.0022 J	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0032 J	<0.0011	0.0019 J	<0.0031
	09/20/12	<0.00050	**0.0063**	0.0034 J	**0.012**	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	0.0012 J	<0.0015
	03/27/13	<0.00050	**0.0060**	**0.0066**	0.0045 J	0.0016 J	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	0.0018 J	<0.0015
	09/16/13	<0.00050	**0.0060**	**0.014**	0.0031 J	**0.0054**	<0.00050	<0.00090	<0.00050	<0.00050	0.0012 J	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	0.0016 J	**0.0047**	<0.0015
	09/24/14	< 0.00043	**0.0061**	**0.0149**	**0.003**	**0.0056**	na	< 0.00032	< 0.00034	< 0.00027	0.00084 J	< 0.00040	< 0.0016	na	< 0.00045	< 0.00046	< 0.00033	0.00051 J	0.00071 J	**0.0065**	< 0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-7	11/19/96	< 0.005	< 0.005	< 0.005	na	< 0.005	na	na	< 0.005	< 0.005	0.120	na	< 0.005	na	na	< 0.005	< 0.005	0.005	0.036	< 0.010	< 0.005
	11/19/96	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.0099	-
	02/11/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.800	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	0.170	0.088	< 0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.069	na
	05/13/97	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.500	<0.005	<0.005	na	<0.005	< 0.005	<0.005	0.015 J	0.100	0.031	<0.005
	11/06/97	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.210	<0.005	<0.005	na	<0.005	< 0.005	<0.005	<0.025	0.046	0.010	<0.005
	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.290	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.010	0.063	< 0.010	<0.005
	01/08/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.190	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.006	0.028	0.010	<0.005
	02/25/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/12/01	<0.001	<0.001	<0.001	<0.001	< 0.002	<0.001	<0.001	<0.001	<0.001	0.015	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.002	<0.001	<0.003
	06/12/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.013	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/06/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	0.0152	NR	0.00172	na	NR	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
MW-8	02/11/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	0.006	< 0.005	< 0.005	na	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	<0.010	<0.005
	02/11/97	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	na	0.00685	na
	05/13/97	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	< 0.005	< 0.005	0.013	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.008	< 0.005
	11/06/97	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.047	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	0.012	<0.010	< 0.005
	03/13/98	< 0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.038	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	0.020	<0.010	< 0.005
	01/12/99	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.032	< 0.005	< 0.005	0.13	< 0.005	<0.005	< 0.005	< 0.005	0.009	0.017	< 0.005
	02/25/00	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.062	<0.005	<0.005	0.12	<0.005	<0.005	<0.005	0.006	0.018	0.036	<0.005
	12/20/00	<0.005	<0.005	<0.005	na	<0.005	na	na	na	na	0.022	NR	NR	na	na	<0.005	na	na	0.005	0.019	na
	03/07/01	<0.001	0.003	<0.001	0.001	0.002	<0.001	<0.001	0.001	<0.001	0.018	<0.001	<0.001	0.13	0.001	<0.001	<0.001	0.003	0.003	0.014	< 0.003
	06/19/01	<0.001	0.004	<0.001	<0.001	0.003	<0.001	<0.001	0.001	<0.001	0.02	<0.001	<0.001	na	0.001	<0.001	<0.001	0.004	0.002	0.022	<0.003
	01/10/03	<0.002	<0.002	<0.002	na	<0.002	na	na	0.009	<0.001	<0.003	na	<0.002	na	na	<0.002	<0.001	<0.002	<0.002	<0.002	<0.003
	07/11/03	na	<0.001	<0.0013	na	<0.0016	na	na	<0.001	<0.0009	<0.0016	<0.0011	na	na	na	<0.0011	<0.0009	<0.0012	<0.0011	<0.0009	<0.0044
	12/22/03	<0.00067	0.00792	<0.00110	na	<0.00101	na	na	0.00104 J	<0.00068	<0.00124	NR	<0.00245	na	na	<0.00109	<0.00079	<0.00117	<0.00100	<0.00119	<0.00229
	01/09/04	<0.005	<0.005	<0.0065	na	<0.007	na	na	<0.005	<0.004	<0.008	NR	<0.034	na	na	<0.0055	<0.004	<0.006	<0.0055	<0.004	<0.021
	05/04/04	<0.00104	0.0121	<0.00152	na	0.00152 J	na	na	0.0136	<0.00155	0.00392 J	NR	<0.00130	na	na	<0.00113	<0.00136	<0.00157	<0.00108	0.0244	<0.00441
	10/07/04	<0.0050	0.0086	<0.0050	<0.0050	<0.0050	na	<0.0050	0.0051	<0.0050	0.0032 J	NR	<0.010	na	na	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	<0.015
	11/18/04	<0.00019	0.0118	<0.00033	0.00134	<0.00016	na	<0.00014	0.00459	<0.00013	0.00234	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048
	09/10/08	<0.00050	0.011	<0.00050	0.0013 J	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.0015 J	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/25/09	<0.00050	0.0081	<0.00050	0.00076 J	<0.00050	<0.00050	<0.00050	na	0.00077 J	na	<0.00050	<0.00050	na	0.0018 J	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	09/17/09	<0.00050	0.0074	<0.00050	0.0018 J	<0.00050	<0.00050	<0.00050	na	0.00098 J	na	<0.00050	<0.00050	na	0.0024 J	<0.00060	<0.00050	0.0032 J	na	0.0098	<0.0010
	03/30/10	<0.00050	0.0099	<0.00050	0.0017 J	0.0013 J	<0.00050	<0.00050	na	0.0014 J	na	<0.00050	<0.00050	na	0.0014 J	<0.00060	<0.00050	0.0032 J	na	<0.00050	<0.0010
	09/21/10	<0.00050	0.0064	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.00072 J	<0.00060	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/30/11	<0.00050	0.0071	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.0021 J	<0.00060	<0.00050	<0.00050	na	0.0066	<0.0010
	09/01/11	<0.0013	0.0058	<0.0013	<0.0008	<0.0010	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	0.0023 J	<0.0017	<0.001	0.0031 J	na	0.0093	<0.0031
	03/08/12	<0.0013	0.0030 J	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	0.0014 J	<0.0017	<0.001	<0.001	na	0.0041	<0.0031
	09/21/12	<0.00050	0.0023 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	na	<0.00050	na	<0.00050	<0.0010	na	0.0016 J	<0.0010	<0.00050	0.0014 J	na	<0.00050	<0.0015
	03/27/13	<0.00050	0.0036 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	na	<0.00050	na	<0.00050	<0.0010	na	0.0014 J	<0.0010	<0.00050	<0.001	na	0.0059	<0.0015
	09/18/13	<0.00050	0.0036 J	<0.00050	<0.00060	<0.00050	<0.00050	<0.00060	na	<0.00040	na	<0.00050	<0.0010	na	0.0014 J	<0.00060	<0.00050	<0.00040	na	<0.00040	<0.0015
	09/24/14	<0.00043	0.00094 J	< 0.00045	< 0.00028	< 0.00035	na	< 0.00032	na	< 0.00027	0.0028	<0.00040	< 0.0016	na	0.0011	<0.00046	<0.00033	0.00059 J	<0.00049	0.0065	<0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-9	03/13/98	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	<0.005	<0.005	0.030	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.003 J	0.008	0.014	<0.005
	05/27/98	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	na	na	<0.005	na	na	<0.005	<0.005	<0.005	0.012	<0.010	NR
	01/13/99	<0.005	<0.005	<0.005	<0.005	< 0.0025	<0.005	<0.005	<0.005	<0.005	0.036	<0.005	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	0.007	0.014	<0.005
	02/25/00	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	0.026	<0.005	<0.005	0.036	<0.005	<0.005	<0.005	<0.005	0.005	0.004	<0.005
	12/20/00	<0.005	<0.005	<0.005	na	0.012	na	na	na	na	0.021	na	na	na	na	<0.005	na	na	<0.005	0.010	NR
	04/04/00	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	<0.005	<0.005	<0.005	0.044	<0.005	<0.005	0.041	<0.005	<0.005	<0.005	<0.005	0.003	0.017	<0.005
	03/07/01	<0.001	<0.001	<0.001	0.003	0.006	<0.001	0.001	<0.001	0.008	0.016	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	0.0008 J	<0.0005	0.006	<0.003
	06/19/01	<0.001	<0.001	<0.001	<0.001	0.016	<0.001	<0.001	<0.001	0.010	0.032	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.001	0.0009	0.012	<0.003
	06/25/02	<0.005	<0.005	<0.005	<0.005	0.003 J	<0.005	<0.005	<0.005	0.008	0.024	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.009	<0.005
	01/10/03	<0.002	<0.002	<0.002	na	0.003 J	na	na	<0.002	0.021	0.013	na	<0.002	na	na	<0.002	<0.001	<0.002	<0.002	0.004	<0.003
	07/11/03	na	<0.0001	<0.00013	na	0.00323	na	na	<0.0001	0.0271	0.0123	<0.00011	na	na	na	<0.00011	<0.00009	<0.00012	<0.00011	0.00677	<0.00044
	12/22/03	<0.00067	<0.00094	<0.00110	na	<0.001	na	na	<0.00077	0.0305	0.0140	NR	<0.00245	na	na	<0.00109	<0.00079	<0.00117	<0.001	<0.00119	<0.00229
	01/09/04	<0.0001	<0.0001	<0.00013	na	0.00474	na	na	<0.0001	0.0197	0.0168	NR	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	0.00886	0.00316
	05/04/04	<0.00104	<0.00140	<0.00152	na	0.00298 J	na	na	<0.00143	0.0303	0.0146	NR	<0.00130	na	na	<0.00113	<0.00136	<0.00157	0.00195 J	<0.00142	<0.00441
	10/07/04	<0.0050	<0.0050	0.0022 J	<0.0050	0.0097	na	<0.0050	<0.0050	0.0040 J	0.052	NR	<0.010	na	na	0.0015 J	<0.0050	<0.0050	0.023	<0.0020	<0.015
	11/19/04	<0.00019	0.00104	0.00215	<0.00011	0.0105	na	<0.00014	<0.00008	0.00685	0.0508	<0.00014	<0.00074	na	na	0.00352	<0.00015	0.00244	0.0234	<0.00018	<0.00048
	11/03/06	na	na	na	na	0.0042 J	na	na	na	na	na	na	na	na	na	na	na	na	<0.00070	na	NR
	09/11/08	<0.00050	0.0029 J	na	<0.00050	0.0041 J	<0.00050	<0.00050	na	0.0056	0.057	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	0.011	<0.00050	<0.0010
	03/25/09	<0.00050	na	na	0.00065 J	na	<0.00050	0.0012 J	na	0.017	0.027	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	<0.00050	0.00054 J	<0.0010
	09/17/09	<0.00050	na	na	0.00095 J	na	<0.00050	0.0015 J	na	0.020	0.016	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	0.00058 J	<0.00050	<0.0010
	03/31/10	<0.00050	na	na	0.00099 J	na	<0.00050	0.0015 J	na	0.0013 J	0.10	<0.00050	<0.00050	na	0.00089 J	na	<0.00050	0.0057	0.012	<0.00050	<0.0010
	09/21/10	<0.00050	na	na	0.00064 J	na	<0.00050	<0.00050	na	0.0021 J	0.16	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	0.019	<0.00050	<0.0010
	03/30/11	<0.00050	na	na	<0.00050	na	<0.00050	<0.00050	na	0.0072	0.061	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	0.0028 J	<0.00050	<0.0010
	09/01/11	<0.0013	na	na	<0.0008	na	<0.0009	<0.0009	na	0.0072	0.023	<0.0012	<0.0013	na	<0.0011	na	<0.001	<0.0010	<0.0011	<0.0010	<0.0031
	03/08/12	<0.0013	na	na	<0.0008	na	<0.0009	<0.0009	na	0.0018 J	0.0029 J	<0.0012	<0.0013	na	<0.0011	na	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/21/12	<0.00050	na	na	<0.00050	na	<0.00050	<0.00090	na	0.0034 J	<0.0010	<0.00050	<0.0010	na	<0.0010	na	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	03/27/13	<0.00050	na	na	<0.00050	na	<0.00050	<0.00090	na	0.0057	0.0070	<0.00050	<0.0010	na	<0.0010	na	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/18/13	<0.00050	na	na	<0.00060	na	<0.00050	<0.00060	na	<0.00040	<0.00060	<0.00050	<0.0010	na	<0.00060	na	<0.00050	<0.00040	<0.00050	<0.00040	<0.0015
	09/24/14	< 0.00043	<0.00034	< 0.00045	< 0.00028	< 0.00035	na	<0.00032	na	0.00045 J	< 0.00040	< 0.00040	< 0.0016	na	< 0.00045	< 0.00046	< 0.00033	< 0.00047	< 0.00049	< 0.00079	< 0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-10	03/13/98	<0.005	0.045	0.023	<0.005	0.010	<0.005	<0.005	<0.005	<0.005	0.022	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	0.020	<0.010	<0.005
	01/08/99	<0.005	0.017	< 0.005	<0.005	< 0.005	<0.005	<0.005	0.010	<0.005	0.010	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	0.006	<0.010	<0.005
	02/24/00	<0.005	0.017	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.036	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.050	0.005	0.002	<0.005
	03/15/01	<0.001	0.023	0.002	0.001	<0.002	<0.001	<0.001	0.003	<0.001	0.029	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.002	0.012	0.003	< 0.003
	06/14/01	<0.001	0.016	0.0009 J	<0.001	<0.002	<0.001	<0.001	0.002	<0.001	0.006	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.003
	01/09/04	<0.0002	0.0135	0.150	na	0.0165	na	na	0.00345	<0.0002	0.0026	NR	<0.0014	na	na	<0.00022	<0.0002	<0.00024	<0.00011	0.0272	0.00941
	04/18/06	<0.00060	0.0026 J	<0.00060	0.0018 J	<0.00050	na	<0.00070	0.0029 J	<0.00050	<0.00050	NR	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	<0.00060	<0.0015
	09/10/08	<0.00050	0.0044 J	0.00066 J	0.0032 J	0.0086	<0.00050	<0.00050	0.015	<0.00050	0.00052 J	<0.00050	<0.00050	na	<0.00060	<0.00060	0.00065 J	<0.00050	0.00062 J	0.00065 J	<0.0010
	03/24/09	<0.00050	0.0013 J	<0.00050	<0.00050	0.010	<0.00050	<0.00050	0.0010 J	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/16/09	<0.00050	0.0028 J	<0.00050	<0.00050	0.010	<0.00050	<0.00050	0.0011 J	<0.00050	0.00050 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.00073 J	<0.0010
	03/31/10	<0.00050	0.0012 J	<0.00050	<0.00050	0.00092 J	<0.00050	<0.00050	0.00076 J	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/22/10	<0.00050	0.012	0.0019 J	0.0053	0.0013 J	0.00058 J	0.00053 J	0.0012 J	<0.00050	0.00068 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.0047	<0.0010
	03/29/11	<0.00050	0.0026 J	0.0038 J	0.00066 J	0.0062	<0.00050	<0.00050	0.0016 J	<0.00050	0.00052 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.00095 J	<0.0010
	09/02/11	<0.0013	0.018	<0.0013	0.0079	0.0042 J	<0.0009	<0.0009	0.028	0.0016 J	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0011 J	<0.0011	0.0028	<0.0031
	03/12/12	<0.0013	0.0087	<0.0013	0.0036 J	0.0056	<0.0009	<0.0009	0.0041 J	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	0.0011 J	<0.0031
	09/21/12	<0.00050	0.0028 J	<0.00060	0.00091 J	0.0041 J	<0.00050	<0.00090	0.0014 J	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	03/27/13	<0.00050	0.010	<0.00060	0.0044 J	0.0039 J	<0.00050	<0.00090	0.039	0.0027 J	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/16/13	<0.00050	0.0063	<0.00060	0.0072	0.0025 J	<0.00050	<0.00090	0.016	0.0022 J	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/24/14	< 0.00043	0.0012	< 0.00045	0.001	0.002	NR	0.00077 J	0.005	0.0056	0.00097 J	< 0.00040	< 0.0016	na	< 0.00045	< 0.00046	< 0.00033	< 0.00047	0.00094 J	< 0.00079	< 0.00087
MW-11	03/13/98	<0.005	<0.005	<0.005	<0.005	0.005	<0.005	0.006	<0.005	0.120	1.100	<0.005	<0.005	na	<0.005	0.820	<0.005	<0.050	0.440	0.030	<0.005
	01/12/99	<0.005	<0.005	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.005	0.085	0.160	<0.005	<0.005	na	<0.005	0.077	<0.005	<0.050	0.037	0.012	<0.005
	02/24/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.190	<0.005	<0.005	na	<0.005	0.140	<0.005	<0.005	0.080	0.011	<0.005
	03/15/01	<0.001	<0.001	0.002	0.003	0.004	0.0008 J	0.0008 J	<0.001	0.011	0.680	<0.001	<0.001	<0.001	0.002	0.320	0.002	0.007 J	0.240	0.040	< 0.003
	06/14/01	<0.001	<0.001	0.003	<0.001	0.004	<0.001	<0.001	<0.001	0.006	1.300	<0.001	<0.001	na	<0.001	0.320	<0.001	<0.010	0.220	0.045	<0.003
	01/08/04	<0.0001	0.00248	<0.00013	na	0.00194	na	na	<0.0001	0.00453	0.141	na	<0.00069	na	na	0.00852	<0.00009	0.0086	0.0451	0.0678	<0.00042
	04/18/06	<0.00060	0.062	0.0026 J	0.0036 J	0.0060	na	0.0029 J	<0.00060	0.016	0.470	na	<0.00060	na	na	0.110	0.00062 J	0.011 J	0.180	0.086	0.0015 J
	09/10/08	<0.00050	0.037	0.0020 J	0.0014 J	0.0037 J	<0.00050	<0.00050	0.00055 J	0.0024 J	0.210	0.00057 J	<0.00050	na	<0.00060	0.130	<0.00050	0.0081	0.210	0.036	<0.0010
	03/24/09	<0.00050	0.041	0.0035 J	0.0032 J	0.0076	<0.00050	0.0020 J	0.0011 J	0.0083	0.56	0.00067 J	<0.00050	na	<0.00060	0.084	<0.00050	0.015	0.35	0.088	<0.0010
	09/16/09	<0.00050	0.042	0.0058	0.0016 J	0.0079	<0.00050	0.00065 J	0.00061 J	0.0026 J	0.50	<0.00050	<0.00050	na	<0.00060	0.15	<0.00050	0.012	0.70	0.041	<0.0010
	03/31/10	<0.00050	0.041	0.0050	0.0055	0.0087	<0.00050	0.0033 J	0.0015 J	0.012	0.52	<0.00050	<0.00050	na	0.00087 J	0.11	<0.00050	0.014	0.46	0.089	<0.0010
	09/22/10	<0.00050	0.020	0.0038 J	0.0022 J	0.0056	0.0012 J	0.0011 J	0.00067 J	0.0028 J	0.31	<0.00050	<0.00050	na	<0.00060	0.055	<0.00050	0.007	0.45	0.036	<0.0010
	03/29/11	<0.00050	0.039	0.0037 J	0.0015 J	0.0066	<0.00050	0.0010 J	0.00065 J	0.0036 J	0.31	<0.00050	<0.00050	na	<0.00060	0.087	<0.00050	0.0088	0.46	0.030	<0.0010
	09/01/11	<0.0013	0.027	0.0032 J	<0.0008	0.0033 J	<0.0009	<0.0009	<0.001	0.0016 J	0.21	<0.0012	<0.0013	na	<0.0011	0.041	<0.001	0.0070	0.29	0.019	<0.0031
	03/12/12	<0.0013	0.0029 J	<0.0013	<0.0008	0.0011 J	<0.0009	<0.0009	<0.001	<0.001	0.082	<0.0012	<0.0013	na	<0.0011	0.011	<0.001	0.0019 J	0.081	0.005	<0.0031
	09/21/12	<0.00050	0.0020 J	<0.00060	0.00099 J	0.0012 J	<0.00050	<0.00090	<0.00050	0.0034 J	0.085	<0.00050	<0.0010	na	<0.0010	0.0058	<0.00050	0.0041 J	0.086	0.0063	<0.0015
	03/27/13	<0.00050	0.0042 J	0.0015 J	<0.00050	0.0046 J	<0.00050	<0.00090	<0.00050	0.0094	0.14	<0.00050	<0.0010	na	<0.0010	0.0130	<0.00050	0.0097	0.20	0.0061	<0.0015
	09/18/13	<0.00050	0.0022 J	0.00086 J	0.00098 J	0.0033 J	<0.00050	0.0021 J	<0.00050	0.012	0.18	<0.00050	<0.0010	na	<0.0010	0.0042 J	<0.00050	0.011	0.074	0.0020	<0.0015

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-12	03/13/98	<0.005	0.026	0.016	2.200	<0.005	0.012	0.140	<0.005	0.370	0.120	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.017	0.028	0.065	<0.005
	01/07/99	<0.005	0.044	0.010	2.300	0.006	0.011	0.110	<0.005	0.360	0.033	<0.005	<0.005	0.011	<0.005	<0.005	<0.005	0.015	< 0.005	0.100	<0.005
	02/23/00	<0.005	0.037	<0.005	1.000	0.006	<0.005	0.042	<0.005	0.200	0.008	<0.005	<0.005	0.017	<0.005	<0.005	<0.005	0.009	<0.005	0.092	<0.005
	03/13/01	<0.001	0.071	0.006	1.500	0.009	0.005	0.060	0.004	0.300	0.017	<0.001	<0.001	0.047	<0.001	<0.001	0.001	0.012	<0.001	0.088	<0.003
	06/15/01	<0.001	0.100	0.003	1.700	0.015	0.005	0.048	0.003	0.340	0.008	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.012	na	0.140	0.002 J
	01/09/04	<0.0001	0.065	0.00216	na	0.00666	na	na	0.0024	0.115	0.0142	na	<0.00069	na	na	<0.00011	<0.00009	0.00486	<0.00011	0.135	0.00477
	04/18/06	<0.00060	0.0087	<0.00060	0.530	0.0029 J	na	0.035	0.0014 J	0.140	0.011	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	0.038	<0.0015
	09/10/08	<0.00050	0.0054	<0.00050	3.100	0.0021 J	0.036	0.280	0.0097	0.820	0.016	0.0016 J	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0022 J	<0.00050	0.019	<0.0010
	03/25/09	<0.00050	0.010	<0.00050	0.58	0.0022 J	0.0048 J	0.046	0.0016 J	0.14	0.016	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0015 J	<0.00050	0.0018 J	<0.0010
	09/16/09	<0.00050	0.0097	<0.00050	1.7	0.0021 J	0.013	0.13	0.0042 J	0.45	0.013	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0024 J	<0.00050	0.026	<0.0010
	03/31/10	<0.00050	0.013	<0.00050	1.5	0.0017 J	0.014	0.12	0.0057	0.53	0.016	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0016 J	0.00052 J	0.0032	<0.0010
	09/22/10	<0.00050	0.0074	<0.00050	4.6	<0.00050	0.056	0.54	0.015	1.8	0.0083	0.0013 J	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0023 J	<0.00050	0.014	<0.0010
	03/29/11	<0.00050	0.0089	<0.00050	1.2	0.0044 J	0.016	0.13	0.0044 J	0.50	0.014	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0043 J	<0.00050	0.020	<0.0010
	09/02/11	<0.0013	0.0093	<0.0013	0.55	0.0031 J	0.0049 J	0.057	0.0022 J	0.32	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.0010	<0.0011	0.015	<0.0031
	03/12/12	<0.0013	<0.0011	<0.0013	0.018	<0.001	<0.0009	0.0027 J	<0.001	0.0170	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/21/12	<0.00050	0.014	<0.00060	0.73	0.0011 J	0.0041 J	0.029	0.0015 J	0.20	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	0.0013 J	<0.0010	0.0075	<0.0015
	03/27/13	<0.00050	0.010	<0.00060	0.21	<0.00050	0.0020 J	0.011	<0.00050	0.086	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	0.0034	<0.0015
	09/17/13	<0.00050	0.011	<0.00050	0.25	0.00064 J	0.0023 J	0.015	0.0014 J	0.19	<0.00060	<0.00050	<0.0010	na	<0.00060	<0.00060	<0.00050	0.0016 J	<0.00050	0.0071	<0.0015
MW-13	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/08/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/25/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.002	<0.005
	03/12/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	06/14/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	0.0014	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	04/20/06	<0.00060	<0.00050	<0.00060	<0.00090	<0.00050	na	<0.00070	<0.00060	<0.00050	0.0047 J	na	<0.00060	na	na	<0.00050	0.0074	<0.00060	<0.00070	<0.00060	<0.0015
MW-14	03/13/98	<0.005	0.017	<0.005	0.990	<0.005	0.006	0.075	<0.005	0.330	0.220	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	0.020	0.072	<0.005
	01/07/99	<0.005	0.022	0.025	2.400	<0.005	0.006	0.083	<0.005	0.140	0.140	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	0.006	0.060	<0.005
	02/23/00	<0.005	0.038	0.009	2.900	<0.005	0.006	0.084	0.005	0.031	0.059	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.040	<0.005
	03/09/01	<0.001	0.032	0.004	3.300	0.017	0.018	0.160	0.010	0.510	0.130	<0.001	<0.001	0.034	<0.001	0.004	0.001	0.006	0.053	0.019	< 0.003
	06/13/01	<0.001	0.032	0.001	0.820	0.052	<0.001	0.035	0.006	0.210	0.093	<0.001	<0.001	na	<0.001	<0.001	0.002	0.006	0.006	0.079	<0.003
	01/08/04	<0.0001	0.00412	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	0.00132	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	04/18/06	<0.00060	<0.00050	<0.00060	0.0028 J	<0.00050	na	<0.00070	<0.00060	0.0061	0.047	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	0.00093 J	0.0031	<0.0015
	09/10/08	<0.00050	0.0032 J	0.0014 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0017 J	<0.00050	<0.00050	na	<0.00060	0.00072 J	<0.00050	<0.00050	0.0011 J	<0.00050	<0.0010
	03/30/09	<0.00050	0.0026 J	0.00053 J	0.00075 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00058 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/16/09	<0.00050	0.0025 J	0.0011 J	0.0045 J	0.0011 J	<0.00050	<0.00050	<0.00050	<0.00050	0.015	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.0065	0.00072 J	<0.0010
	03/30/10	<0.00050	0.0051	0.0049 J	0.0033 J	0.00062 J	<0.00050	<0.00050	<0.00050	<0.00050	0.018	<0.00050	<0.00050	na	<0.00060	0.0011 J	<0.00050	<0.00050	0.011	<0.00050	<0.0010
	09/21/10	<0.00050	0.0083	0.0083	0.0022 J	0.0013 J	<0.00050	<0.00050	<0.00050	<0.00050	0.027	<0.00050	<0.00050	na	<0.00060	0.0029 J	<0.00050	<0.00050	0.023	<0.00050	<0.0010

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		**0.20**	**4.9**	**0.007**	**0.60**	**0.005**	**0.73**	**0.075**	**0.005**	**0.10**	**0.070**	**2.4**	**0.005**	**0.24**	**0.98**	**0.005**	**1.0**	**0.10**	**0.005**	**0.002**	**10**
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		**41,000**	**43,000**	**1,700**	**1,200**	**33**	**190**	**3,600**	**180**	**1,200**	**1,200**	**4,400**	**21,000**	**4,000**	no value	**500**	**64,000**	**770**	**24**	**3.8**	**10,000**
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	**52**	**120,000**	**11**	**2,500**	**9.3**	**0.054**	**3,200**	**30,200**	**28,000**	**2.9**	**0.77**	not established	**1.6**	**2,400**	**68**	**9.5**	**13,000**	**153**	**510**
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		**330,000**	**140,000**	**750**	**61,000**	**2,100**	**2,900**	**230,000**	**2,100**	**21,000**	**240,000**	**130,000**	**98,000**	**650,000**	**76,000**	**49,000**	**140,000**	**250,000**	**23,000**	**3,100**	**150,000**
MW-15	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/08/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/25/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/21/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.003
	06/14/01	<0.001	<0.001	<0.001	0.0009 J	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/06/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	na	**0.0021**	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	09/10/08	<0.00050	<0.00050	<0.00050	0.00092 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/30/09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/16/09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/30/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/22/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/30/11	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/02/11	<0.0013	<0.0011	<0.0013	<0.0008	<0.0010	<0.0009	<0.0009	<0.0010	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.0010	<0.0011	<0.0010	<0.0031
	03/12/12	<0.0013	<0.0011	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/20/12	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	03/27/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/17/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/23/14	<0.00043	<0.00034	<0.00045	<0.00028	<0.00035	na	<0.00032	na	<0.00027	<0.00040	<0.00040	<0.0016	na	<0.00045	<0.00046	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087
MW-16	04/15/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/12/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/28/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/14/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	06/15/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	NR	<0.00014	NR	NR	<0.0001	<0.00009	<0.00016	NR	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
MW-17	10/16/98	<0.005	<0.005	<0.005	<0.005	**0.020**	<0.005	<0.005	<0.005	<0.005	**0.120**	<0.005	<0.005	<0.01	<0.005	**0.100**	<0.005	0.004 J	**0.120**	< 0.010	<0.005
	01/12/99	<0.005	<0.005	<0.005	<0.005	**0.021**	<0.005	<0.005	<0.005	<0.005	**0.110**	<0.005	<0.005	<0.01	<0.005	**0.060**	<0.005	0.004 J	**0.100**	< 0.010	<0.005
	02/22/00	<0.005	<0.005	<0.005	na	**0.009**	na	na	na	na	**0.081**	na	na	na	na	**0.024**	na	na	**0.056**	na	NR
	03/08/01	<0.001	**0.012**	**0.011**	<0.001	**0.008**	<0.001	<0.001	<0.001	<0.001	**0.073**	<0.001	<0.001	**0.430**	<0.001	**0.013**	<0.001	**0.003**	**0.039**	**0.003**	< 0.003
	06/18/01	<0.001	**0.014**	**0.011**	NR	**0.010**	NR	NR	na	na	**0.081**	na	na	na	na	**0.006**	na	na	**0.032**	NR	NR
	01/08/04	<0.0001	**0.0223**	**0.0124**	NR	**0.00504**	NR	NR	<0.0001	<0.00009	**0.174**	na	<0.00069	na	na	**0.0145**	<0.00009	<0.00012	**0.0791**	<0.00009	<0.00042
	11/19/04	<0.00019	**0.00624**	**0.00362**	<0.00011	**0.0033**	NR	<0.00014	<0.00008	<0.00013	**0.134**	<0.00014	<0.00074	na	na	**0.00976**	<0.00015	<0.00025	**0.0845**	<0.00018	<0.00048
	09/09/08	<0.00050	0.0032 J	na	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	0.00055 J	na	<0.00050	<0.0010
	03/26/09	<0.00050	na	na	<0.00050	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	0.00055 J	na	<0.00050	<0.0010
	09/15/09	<0.00050	na	na	0.00061 J	na	<0.00050	<0.00050	na	0.00061 J	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	0.0012 J	na	<0.00050	<0.0010
	03/30/10	<0.00050	na	na	0.00080 J	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	0.00097 J	na	<0.00050	<0.0010
	09/21/10	<0.00050	na	na	<0.00050	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/29/11	<0.00050	na	na	<0.00050	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	na	<0.00050	<0.0010
	09/01/11	<0.0013	na	na	<0.0008	na	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	<0.0011	na	<0.001	0.0022 J	na	<0.001	<0.0031
	03/08/12	<0.0013	na	na	0.00099 J	na	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	<0.0011	na	<0.001	<0.001	na	<0.0010	<0.0031
	09/20/12	<0.00050	na	na	0.0014 J	na	<0.00050	<0.00090	na	0.0018 J	na	<0.00050	<0.0010	na	<0.0010	na	<0.00050	<0.0010	na	**0.035**	<0.0015
	03/26/13	<0.00050	na	na	0.0012 J	na	<0.00050	<0.00090	na	0.0011 J	na	<0.00050	<0.0010	na	<0.0010	na	<0.00050	<0.0010	na	**0.014**	<0.0015
	09/17/13	<0.00050	na	na	0.00073 J	na	<0.00050	<0.00060	na	0.00043	na	<0.00050	<0.0010	na	<0.00060	na	<0.00050	<0.00040	na	0.00090 J	<0.0015
	09/24/14	<0.00043	na	na	0.00046 J	na	na	<0.00032	na	<0.00043 J	na	<0.00040	<0.0016	na	0.0014	na	<0.00033	0.0012	<0.00049	<0.00079	<0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		**0.20**	**4.9**	**0.007**	**0.60**	**0.005**	**0.73**	**0.075**	**0.005**	**0.10**	**0.070**	**2.4**	**0.005**	**0.24**	**0.98**	**0.005**	**1.0**	**0.10**	**0.005**	**0.002**	**10**
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		**41,000**	**43,000**	**1,700**	**1,200**	**33**	**190**	**3,600**	**180**	**1,200**	**1,200**	**4,400**	**21,000**	**4,000**	no value	**500**	**64,000**	**770**	**24**	**3.8**	**10,000**
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	**52**	**120,000**	**11**	**2,500**	**9.3**	**0.054**	**3,200**	**30,200**	**28,000**	**2.9**	**0.77**	not established	**1.6**	**2,400**	**68**	**9.5**	**13,000**	**153**	**510**
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		**330,000**	**140,000**	**750**	**61,000**	**2,100**	**2,900**	**230,000**	**2,100**	**21,000**	**240,000**	**130,000**	**98,000**	**650,000**	**76,000**	**49,000**	**140,000**	**250,000**	**23,000**	**3,100**	**150,000**
MW-18	10/16/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.028**	<0.005	**0.026**	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/13/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.029**	<0.005	**0.024**	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/29/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.023**	<0.005	**0.030**	<0.005	<0.05	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/06/01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	**0.003**	< 0.001	**0.030**	< 0.005	**0.032**	< 0.005	<0.001	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.002	< 0.005
	04/03/01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	**0.003**	**0.002**	**0.032**	<0.001	**0.029**	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.003
	06/20/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	**0.003**	**0.003**	**0.032**	<0.001	**0.026**	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/07/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	**0.0176**	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	**0.00318**
	09/18/09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0016 J	<0.00050	**0.020**	<0.00050	0.00052 J	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	04/01/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0016 J	<0.00050	**0.017**	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	Sept. 2010	Not Sampled/Well Destroyed																			
MW-19	03/13/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.020**	<0.005	**0.005**	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	10/16/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.020**	<0.005	**0.005**	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/13/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.037**	<0.005	**0.009**	<0.005	<0.01	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/29/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	**0.012**	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/06/01	< 0.001	< 0.001	< 0.001	**0.120**	< 0.002	< 0.001	**0.012**	< 0.001	**0.110**	< 0.001	< 0.002	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003
	04/03/01	< 0.001	< 0.001	< 0.001	**0.002**	< 0.002	< 0.001	**0.002**	<0.001	**0.014**	< 0.001	**0.002**	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.003
	06/20/01	<0.001	<0.001	<0.001	**0.001**	<0.002	<0.001	**0.002**	<0.001	**0.009**	<0.001	**0.002**	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/07/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	**0.00584**	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	09/18/09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	04/01/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	Sept. 2010	Not Sampled/Well Destroyed																			
MW-20	10/16/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/13/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/29/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/06/01	< 0.001	< 0.001	< 0.001	< 0.001	**0.013**	< 0.001	< 0.001	< 0.001	< 0.001	**0.022**	< 0.001	< 0.001	<0.001	< 0.001	**0.007**	< 0.001	**0.005**	**0.012**	**0.004**	< 0.003
	04/03/01	<0.001	<0.001	<0.001	<0.001	**0.003**	<0.001	<0.001	<0.001	<0.001	**0.006**	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	06/20/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	**0.001**	**0.004**	**0.001**	<0.003
	01/07/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	09/18/09	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	March 2010	Not Sampled/Well Destroyed																			
MW-21	10/16/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	01/13/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/29/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/06/01	< 0.001	< 0.001	< 0.001	< 0.001	< 0.002	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003
	06/20/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/07/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	**0.0649**	na	<0.00069	na	na	**0.0164**	<0.00009	**0.00247**	**0.0153**	**0.00644**	<0.00042
	09/18/09	<0.00050	**0.010**	0.00099 J	0.00061 J	<0.00050	<0.00050	0.00076 J	<0.00050	0.0015 J	**0.049**	<0.00050	<0.00050	na	<0.00050	**0.011**	<0.00050	0.0040 J	**0.018**	0.0012 J	<0.0010
	03/31/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**0.0062**	<0.00050	<0.00050	na	<0.00060	0.0012 J	<0.00050	<0.00050	0.0016 J	<0.00050	<0.0010
	09/23/10	<0.00050	0.0046 J	<0.00050	<0.00050	0.00084 J	<0.00050	<0.00050	<0.00050	<0.00050	**0.020**	<0.00050	<0.00050	na	<0.00060	0.0038 J	<0.00050	0.0013 J	**0.0076**	<0.00050	<0.0010
	03/29/11	<0.00050	0.0046 J	<0.00050	<0.00050	0.0011 J	<0.00050	<0.00050	<0.00050	<0.00050	**0.017**	<0.00050	<0.00050	na	<0.00060	0.0034 J	<0.00050	0.00083 J	**0.0067**	<0.00050	<0.0010
	09/01/11	<0.0013	**0.013**	<0.0013	<0.0008	0.0027 J	<0.0009	<0.0009	<0.001	0.0012 J	**0.035**	<0.0012	<0.0013	na	<0.0011	**0.0075**	<0.001	0.0030 J	**0.013**	<0.0010	<0.0031
	03/07/12	<0.0013	<0.0011	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/20/12	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	0.0042 J	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	03/26/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	0.0032 J	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/17/13	<0.00050	0.0013 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	0.0043 J	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/23/14	<0.00043	<0.00034	<0.00045	<0.00028	<0.00035	na	<0.00032	na	<0.00027	0.00050 J	<0.00040	<0.0016	na	<0.00045	<0.00046	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-22	10/16/98	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.007	0.006	< 0.010	<0.005
	01/11/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	0.005	0.005	<0.005	< 0.010	0.005
	02/28/00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	<0.005	0.002	< 0.005
	03/13/01	<0.001	0.002	<0.001	<0.001	0.001 J	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.018	<0.001	<0.001	0.002	0.002	<0.001	<0.001	< 0.003
	06/14/01	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	0.003	<0.001	na	<0.001	<0.001	0.001	0.002	<0.001	0.002	0.001 J
	01/06/04	<0.0001	0.00174	<0.00013	na	<0.00014	na	na	0.00486	<0.00009	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	0.00247	<0.00011	0.00146 J	0.00598
MW-23	10/16/98	<0.005	0.100	0.009	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.038	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.004 J	0.016	0.011	<0.005
	01/08/99	<0.005	0.048	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.020	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	0.005	<0.010	<0.005
	02/24/00	< 0.005	0.012	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	<0.005	<0.002	< 0.005
	03/13/01	<0.001	0.057	0.002	<0.001	< 0.002	<0.001	<0.001	<0.001	<0.001	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.001	0.002	0.003	< 0.003
	06/12/01	<0.001	0.140	0.005	<0.001	<0.002	<0.001	<0.001	<0.001	< 0.001	0.012	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.002	0.003	0.008	<0.003
	01/06/04	<0.0001	0.003	<0.00013	na	0.00166	na	na	<0.0001	<0.00009	<0.00016	NR	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	04/19/06	<0.00060	0.0038 J	0.012	<0.00090	0.0018 J	na	<0.00070	<0.00060	0.0018 J	3.300	NR	<0.00060	na	na	6.500	0.0017 J	<0.030	0.730	0.240	0.024
	05/26/06	<0.00060	0.0015 J	<0.00060	<0.00090	<0.00050	na	<0.00070	<0.00060	<0.00050	<0.00050	NR	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	<0.00060	<0.0015
MW-24	10/16/98	0.310 E	<0.005	0.250	0.019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.320	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	0.011
	01/08/99	0.570	0.030	0.930	0.054	0.015	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	0.350	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.020	<0.005
	02/24/00	0.110	0.015	0.300	0.024	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	0.091	na	< 0.005	<0.005	< 0.005	<0.005	<0.005	0.014	< 0.005
	03/13/01	0.022	0.012	0.230	0.014	0.020	<0.001	<0.001	<0.001	<0.001	0.002	<0.001	0.100	0.0002	<0.001	<0.001	<0.001	0.001	0.001	0.015	< 0.003
	06/12/01	0.064	0.024	0.350	0.046	0.013	<0.001	0.002	<0.001	<0.001	0.002	<0.001	0.260	na	<0.001	<0.001	0.001	0.001	0.0009 J	0.068	0.002 J
	01/06/04	<0.0001	0.00658	0.0708	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	na	0.00428	na	na	<0.00011	<0.00009	<0.00012	<0.00011	0.0349	0.00465
	05/26/06	<0.00060	0.017	0.0012 J	0.020	0.0016 J	na	<0.00070	0.0017 J	<0.00050	<0.00050	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	<0.00060	<0.0015
	09/09/08	<0.00050	0.018	0.0026 J	0.0056	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00067 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0017 J	0.00069 J	0.0018 J	<0.0010
	03/30/09	<0.00050	0.019	0.0039 J	0.0069	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0011 J	<0.00050	0.0027	<0.0010
	09/16/09	<0.00050	0.039	0.0041 J	0.021	<0.00050	<0.00050	<0.00050	0.00085 J	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	0.00053 J	0.0028 J	<0.00050	0.0022	0.0018 J
	03/30/10	<0.00050	0.0038 J	0.0031 J	0.0025 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.0027	<0.0010
	09/23/10	<0.00050	0.025	0.011	0.010	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0012 J	<0.00050	<0.00050	na	<0.00060	0.0018 J	<0.00050	0.0022 J	0.00087 J	0.0091	<0.0010
	03/30/11	0.0023 J	0.019	0.031	0.0047 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0010 J	<0.00050	0.0099	<0.0010
	09/01/11	0.0058	0.039	0.058	0.0083	0.0016 J	<0.00090	<0.00090	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0022 J	<0.0011	0.026	<0.0031
	03/08/12	<0.0013	0.033	0.18	0.010	0.0045 J	<0.0009	<0.0009	0.0022 J	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0021 J	<0.0011	0.034	0.0032 J
MW-25	10/16/98	0.380	0.024	0.260	0.034	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.068	na	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.010	<0.005
	01/08/99	0.023	0.033	0.063	<0.005	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/24/00	< 0.005	0.027	0.035	<0.005	0.011	<0.005	<0.005	<0.005	<0.005	0.006	< 0.005	< 0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	0.011	<0.005
	03/13/01	<0.001	0.027	0.005	<0.001	0.011	<0.001	<0.001	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	< 0.003
	06/13/01	<0.001	0.028	0.008	<0.001	0.024	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	0.010	<0.003
	01/06/04	<0.001	0.0401	0.851	na	<0.0014	na	na	<0.001	<0.0009	<0.0016	na	0.244	na	na	<0.0011	<0.0009	<0.0012	<0.0011	0.242	0.0451
	04/17/06	<0.00060	0.017	0.026	0.019	<0.00050	na	<0.00070	<0.00060	<0.00050	<0.00050	na	<0.00060	na	na	<0.00050	<0.00050	0.0010 J	<0.00070	0.026	<0.0015
	09/09/08	<0.00050	0.0093	<0.00050	0.0052	0.0023 J	<0.00050	<0.00050	<0.00050	0.00077 J	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0012 J	<0.00050	0.00094 J	<0.0010
	03/30/09	<0.00050	0.013	0.0088	0.0035 J	0.0020 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0010 J	<0.00050	0.0051	<0.0010
	09/16/09	<0.00050	0.054	0.014	0.017	0.0010 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00052 J	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0026 J	<0.00050	0.0088	<0.0010
	03/30/10	<0.00050	0.034	0.023	0.0042 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0023 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0028 J	0.0013 J	0.012	<0.0010
	09/23/10	<0.00050	0.047	0.0063	0.0093	<0.00050	<0.00050	<0.00050	0.00089 J	<0.00050	0.0028 J	0.0026 J	<0.00050	na	<0.00060	0.0012 J	<0.00050	0.0056	0.0020 J	0.014	<0.0010
	03/30/11	0.0027 J	0.055	0.086	0.016	<0.00050	<0.00050	<0.00050	0.00060 J	<0.00050	0.0017 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0032 J	<0.00050	0.042	<0.0010
	09/01/11	<0.0013	0.048	0.089	0.017	0.0017 J	<0.00090	<0.00090	<0.0010	<0.0010	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0024 J	<0.0011	0.057	<0.0031
	03/12/12	<0.0013	0.062	0.062 J	0.041	0.0019 J	<0.0009	<0.0009	0.0018 J	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0024 J	<0.0011	0.095	0.0035 J

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-26 / MW-26A	10/16/98	<0.005	0.130	0.032	0.038	0.018	<0.005	<0.005	<0.005	<0.005	0.006	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.007	0.006	<0.010	<0.005
	01/07/99	<0.005	0.110	0.018	0.045	0.011	<0.005	<0.005	<0.005	<0.005	0.012	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.006	0.009	< 0.010	<0.005
	02/23/00	< 0.005	0.048	< 0.005	0.008	0.007	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	na	<0.005	<0.005	< 0.005	<0.005	<0.005	<0.002	< 0.005
	03/13/01	<0.001	0.130	0.004	0.045	0.005	<0.001	0.006	<0.001	<0.001	0.007	<0.001	<0.001	0.047	<0.001	<0.001	<0.001	0.006	0.002	0.002	< 0.003
	06/13/01	<0.001	0.110	0.005	0.026	0.008	<0.001	0.003	<0.001	<0.001	0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.005	<0.001	0.004	<0.003
	01/06/04	<0.0001	0.0434	0.00204	NR	0.00338	na	na	0.00119	<0.00009	0.225	na	<0.00069	na	na	<0.00011	<0.00009	0.00463	<0.00011	0.0734	0.00444
	04/17/06	<0.00060	0.028	0.0048 J	4.000	<0.00050	na	0.110	0.015	0.051	0.130	na	<0.00060	na	na	0.0011 J	0.00056 J	0.0027 J	0.0024 J	0.016	<0.0015
	09/10/08	<0.00050	0.012	0.0023 J	0.380	0.0019 J	0.0014 J	0.013	0.0019 J	0.062	0.260	<0.00050	<0.00050	na	<0.00060	0.00066 J	<0.00050	0.0054	0.0024 J	0.049	<0.0010
	03/30/09	<0.00050	0.0084	0.0013 J	0.26	0.00086 J	0.0011 J	0.013	0.0029 J	0.15	0.18	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0050 J	0.00093 J	0.040	<0.0010
	09/15/09	<0.00050	0.0061	0.0018 J	0.12	<0.00050	0.00061 J	0.0058	0.0015 J	0.064	0.089	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0028 J	0.0014 J	0.0089	<0.0010
	03/30/10	<0.00050	0.0047 J	0.0020 J	0.24	0.00071 J	0.00082 J	0.0074	0.00078 J	0.0068	0.071	<0.00050	<0.00050	na	<0.00060	0.00065 J	<0.00050	0.0018 J	0.0018 J	0.0049	<0.0010
	09/22/10	<0.00050	0.0062	0.0026 J	0.34	0.00059 J	0.00083 J	0.0099	0.0019 J	0.0034 J	0.091	<0.00050	<0.00050	na	<0.00060	0.00073 J	<0.00050	0.0043 J	0.0030 J	0.018	<0.0010
	03/30/11	<0.00050	0.012	0.0028 J	1.3	<0.00050	0.0032 J	0.034	0.0042 J	0.027	0.047	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0042 J	0.0026 J	0.0059	<0.0010
	09/01/11	<0.0013	0.0059	0.0032 J	0.38	<0.0010	0.0012 J	0.011	<0.001	0.0062	0.045	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0043 J	0.0039 J	0.0071	<0.0031
	03/12/12	<0.0013	0.027	0.0062	0.20	0.0012 J	0.00097 J	0.0072	<0.001	0.0056	0.097	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	0.0110	0.0044 J	0.014	<0.0031
	09/20/12	<0.00050	0.018	0.0049 J	0.27	<0.00050	0.00095 J	0.0089	<0.00050	0.0096	0.040	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	0.0059	0.0041 J	0.0020 J	<0.0015
	03/27/13	<0.00050	0.034	0.0081	0.050	<0.00050	<0.00050	0.0043 J	<0.00050	<0.00050	0.061	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	0.0090	0.0042 J	0.0058	<0.0015
	09/17/13	<0.00050	0.041	0.0049 J	0.057	<0.00050	0.00085 J	0.0056	0.00074 J	0.00090 J	0.096	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	0.018	0.0023 J	0.012	<0.0015
	09/23/14	<0.00043	0.029	0.0078	0.0448	<0.00035	NR	0.0044	NR	0.00074 J	0.0749	<0.00040	<0.0016	na	<0.00045	0.00073 J	<0.00033	0.0148	0.0038	0.0067	<0.00087
MW-27	02/28/00	< 0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	< 0.005	< 0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/14/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.003
	06/15/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
MW-28	01/08/99	<0.005	0.007	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	<0.005	< 0.005	0.120	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.008	<0.005	<0.010	<0.005
	02/25/00	< 0.005	0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.099	<0.005	< 0.005	na	< 0.005	<0.005	< 0.005	0.006	< 0.005	0.006	< 0.005
	03/12/01	<0.001	0.007	<0.001	<0.001	< 0.002	<0.001	<0.001	<0.001	<0.001	0.064	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	0.002	< 0.003
	06/12/01	<0.001	0.013	<0.001	<0.001	<0.002	<0.001	<0.001	0.001	<0.001	0.140	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.006	<0.001	0.007	<0.003
	01/06/04	<0.0001	0.0137	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	0.144	na	0.00197	na	na	<0.00011	<0.00009	0.00356	<0.00011	0.00209	<0.00042
	04/19/06	<0.00060	0.0096	<0.00060	<0.00090	<0.00050	na	<0.00070	0.0010 J	<0.00050	0.100	na	<0.00060	na	na	<0.00050	<0.00050	0.0036 J	<0.00070	0.0049	<0.0015
MW-29	01/11/99	<0.005	0.007	< 0.005	0.025	<0.005	< 0.005	< 0.005	<0.005	0.017	0.021	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	< 0.005	0.016	<0.005
	02/28/00	< 0.005	0.007	0.006	0.011	< 0.005	<0.005	0.007	< 0.005	0.068	< 0.005	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	0.005	< 0.005
	03/15/01	<0.001	0.022	0.018	1.800	<0.002	0.007	0.076	0.001	0.160	0.002	0.002	<0.001	0.045	<0.001	<0.001	0.002	<0.001	<0.001	0.006	0.006
	06/13/01	<0.001	0.018	0.012	0.410	<0.002	<0.001	0.032	0.001	0.180	0.002	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	0.007	<0.003
	01/09/04	<0.0001	0.0136	0.00957	NR	<0.00014	NR	NR	<0.0001	0.121	0.0161	NR	0.00112	na	NR	<0.00011	<0.00009	<0.00012	<0.00011	0.0257	0.00316

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-30/MW-30A	01/11/99	<0.005	0.008	0.020	1.000	0.009	<0.005	0.039	<0.005	0.011	0.420	<0.005	<0.005	na	<0.005	0.042	<0.005	<0.005	0.036	0.150	<0.005
	02/23/00	< 0.005	< 0.005	< 0.005	0.030	< 0.005	<0.005	<0.005	< 0.005	0.005	< 0.005	< 0.005	< 0.005	na	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	<0.002	< 0.005
	03/13/01	< 0.001	< 0.001	< 0.001	0.014	< 0.002	< 0.001	0.001	< 0.001	0.002	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.003
	07/19/01	<0.001	0.017	0.004	0.780	<0.002	<0.001	0.025	<0.001	0.017	0.180	<0.001	<0.001	na	<0.001	<0.001	<0.001	0.002	0.014	0.091	<0.003
	01/09/04	<0.0001	0.0156	0.00737	na	0.0129	na	na	0.001	0.00941	0.592	na	<0.00069	na	na	0.0124	<0.00009	0.00825	0.0904	0.343	0.00316
	04/17/06	<0.00060	0.019	0.0041 J	0.028	0.015	na	0.0046 J	<0.00060	0.0057	0.150	na	<0.00060	na	na	0.020	<0.00050	<0.00060	0.047	0.016	<0.0015
	09/09/08	<0.00050	0.012	0.020	<0.00050	<0.00050	<0.00050	<0.00050	0.00086 J	<0.00050	0.120	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.00064 J	0.040	<0.0010
	03/30/09	<0.00050	<0.00050	<0.00050	0.00053 J	<0.00050	<0.00050	<0.00050	<0.00050	0.0011 J	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/15/09	<0.00050	0.0044 J	0.0027 J	0.0059	0.0070	<0.00050	0.0010 J	<0.00050	0.0021 J	0.078	<0.00050	<0.00050	na	<0.00060	<0.00060	0.0023 J	0.0011 J	0.0014 J	0.0038	<0.0010
	03/30/10	<0.00050	0.0042 J	0.0029 J	0.0048 J	0.0034 J	<0.00050	<0.00050	<0.00050	0.0035 J	0.028	<0.00050	<0.00050	na	<0.00060	0.0058	<0.00050	<0.00050	0.017	<0.00050	<0.0010
	09/21/10	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.00091 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/30/11	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0026 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/01/11	<0.0013	<0.0011	<0.0013	0.0013 J	<0.001	<0.00090	<0.00090	<0.001	<0.001	0.015	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	03/12/12	<0.0013	<0.0011	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/20/12	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	03/27/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/17/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/23/14	<0.00043	<0.00034	<0.00045	0.00074 J	<0.00035	na	<0.00032	na	<0.00027	<0.00040	<0.00040	<0.0016	na	<0.00045	<0.00046	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087
MW-31	01/11/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.620	<0.005	<0.005	0.1	<0.005	0.007	<0.005	<0.005	0.042	0.098	<0.005
	02/23/00	< 0.005	0.006	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	0.400	< 0.005	< 0.005	0.12	< 0.005	<0.005	< 0.005	< 0.005	0.014	0.016	< 0.005
	03/09/01	<0.001	0.002	0.002	0.007	0.010	<0.001	<0.001	0.001	<0.001	0.190	<0.001	<0.001	0.058	<0.001	0.027	<0.001	0.004	0.046	0.021	< 0.003
	06/15/01	<0.001	<0.001	0.002	0.007	0.012	<0.001	<0.001	0.002	<0.001	0.440	<0.001	<0.001	na	<0.001	0.020	<0.001	0.005	0.050	0.021	<0.003
	01/09/04	<0.0001	<0.0001	<0.00013	NR	<0.00014	NR	NR	<0.0001	<0.00009	0.00325	NR	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	05/26/06	<0.00060	0.0025 J	0.0031 J	<0.00090	<0.00050	NR	<0.00070	0.00074 J	<0.00050	0.130	NR	<0.00060	na	na	0.0057	<0.00050	<0.00060	0.0042 J	0.0099	<0.0015
	09/09/08	<0.00050	<0.00050	<0.00050	0.0018 J	<0.00050	<0.00050	<0.00050	na	0.0015 J	0.0044 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.00086 J	<0.00050	<0.0010
	03/30/09	<0.00050	0.018	0.034	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	0.016	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.033	<0.0010
	09/15/09	<0.00050	0.026	0.029	<0.00050	<0.00050	<0.00050	<0.00050	na	0.00064 J	0.0039 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.012	<0.0010
	03/31/10	<0.00050	0.0039 J	0.0052	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	0.020	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.0017 J	<0.00050	0.013	<0.0010
	09/21/10	<0.00050	0.039	0.040	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	0.037	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	0.00079 J	0.066	0.0010 J
	03/30/11	<0.00050	0.052	0.087	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00050	0.0085	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.031	0.0010 J
	09/01/11	<0.0013	0.0093	0.0052	<0.0008	<0.001	<0.00090	<0.00090	na	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	0.0027	<0.0031
	03/12/12	<0.0013	<0.0011	0.0019 J	<0.0008	<0.001	<0.0009	<0.0009	na	<0.001	0.010	<0.0012	<0.0013	na	<0.0011	0.057	<0.001	<0.001	0.014	0.024	<0.0031
MW-32	01/07/99	<0.005	0.010	<0.005	<0.005	<0.005	<0.005	<0.005	0.015	<0.005	0.010	<0.005	<0.005	4.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/22/00	< 0.005	0.029	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	0.025	< 0.005	< 0.005	0.026	< 0.005	3.2	0.010	<0.005	< 0.005	< 0.005	< 0.005	<0.002	< 0.005
	03/09/01	<0.001	0.011	<0.001	<0.001	0.001 J	<0.001	<0.001	0.004	<0.001	0.002	<0.001	<0.001	0.1	0.011	<0.001	<0.001	<0.001	<0.001	0.014	< 0.003
	06/13/01	<0.001	0.009	<0.001	0.001	<0.002	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	na	0.004	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.001	0.0248	<0.0013	na	<0.0014	na	na	0.115	<0.0009	0.063	NR	0.0168	na	NR	<0.0011	<0.0009	<0.0012	<0.0011	<0.0009	0.0318
	09/09/08	<0.00050	0.0015 J	<0.00050	0.0012 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.00068 J	<0.00050	<0.00050	na	0.0060	0.00076 J	<0.00050	<0.00050	0.0024 J	<0.00050	<0.0010
	03/26/09	<0.00050	0.0031 J	<0.00050	0.00096 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.00095 J	<0.00050	<0.00050	na	0.0064	<0.00060	<0.00050	<0.00050	0.0042 J	<0.00050	<0.0010
	09/16/09	<0.00050	0.0037 J	<0.00050	0.0012 J	<0.00050	<0.00050	<0.00050	na	<0.00050	<0.00050	<0.00050	<0.00050	na	0.0080	<0.00060	<0.00050	<0.00050	0.00076 J	<0.00050	<0.0010
	03/31/10	<0.00050	0.0022 J	<0.00050	0.0010 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.055	<0.00050	<0.00050	na	0.0060	<0.00060	<0.00050	0.0036 J	<0.00050	<0.00050	<0.0010
	09/21/10	<0.00050	0.0031 J	<0.00050	0.00069 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.0016 J	<0.00050	<0.00050	na	0.0039 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/29/11	<0.00050	0.0024 J	<0.00050	0.00088 J	<0.00050	<0.00050	<0.00050	na	<0.00050	0.00099 J	<0.00050	<0.00050	na	0.0070	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/01/11	<0.0013	<0.0011	<0.0013	0.0011 J	<0.001	<0.00090	<0.00090	na	<0.001	0.012	0.0051	<0.0013	na	0.0088	<0.0017	0.005	<0.001	<0.0011	<0.0010	<0.0031
	03/12/12	<0.0013	<0.0011	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	na	<0.001	0.011	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	0.0012 J	0.015	<0.0031

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-33	01/11/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.024	<0.005	<0.005	<0.005	<0.005	3.2	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/22/00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	0.036	< 0.005	0.005	< 0.005	< 0.005	6.5	< 0.005	<0.005	< 0.005	< 0.005	< 0.005	0.019	< 0.005
	03/08/01	<0.001	0.010	<0.001	<0.001	< 0.002	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	<0.001	8.7	0.004	<0.001	<0.001	<0.001	<0.001	0.002	< 0.003
	06/18/01	<0.001	0.026	<0.001	<0.001	<0.002	<0.001	<0.001	0.006	<0.001	<0.001	<0.001	<0.001	na	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/08/04	<0.0005	<0.0005	<0.00065	na	<0.0007	na	na	0.00593	<0.0004	<0.0008	NR	<0.0034	na	na	<0.00055	<0.0004	<0.0006	<0.00055	<0.0004	0.0158
MW-34	01/12/99	<0.005	0.013	0.007	<0.005	0.009	<0.005	<0.005	< 0.005	<0.005	0.045	<0.005	<0.005	0.11	<0.005	<0.005	<0.005	<0.005	0.008	<0.010	<0.005
	02/22/00	<0.005	0.011	0.009	na	<0.005	na	na	na	na	0.047	na	na	na	na	<0.005	na	na	<0.005	na	na
	03/08/01	< 0.001	0.008	<0.001	na	0.003	na	na	na	na	0.062	na	na	na	na	<0.001	na	na	0.003	na	na
	06/18/01	<0.001	0.011	<0.001	na	0.003	na	na	na	na	0.021	na	na	na	na	<0.001	na	na	0.001	NR	na
	01/08/04	<0.0001	0.021	0.00696	na	<0.00014	na	na	<0.0001	<0.00009	0.093	na	<0.00069	na	na	0.00269	<0.00009	<0.00012	0.0372	<0.00009	0.00317
	11/19/04	<0.00019	0.0164	0.00766	0.00206	0.00119	na	<0.00014	<0.00008	0.00222	0.302	<0.00014	<0.00074	na	na	0.0491	<0.00015	<0.00025	0.193	<0.00018	<0.00048
MW-35	02/25/00	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.029	< 0.005	<0.005	0.041	< 0.005	<0.005	< 0.005	< 0.005	0.008	0.004	< 0.005
	04/04/00	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.027	< 0.005	<0.005	0.046	< 0.005	<0.005	< 0.005	< 0.005	0.008	0.004	< 0.005
	12/20/00	< 0.005	< 0.005	< 0.005	na	< 0.005	na	na	na	na	0.038	na	na	na	na	< 0.005	na	na	0.013	0.006	NR
	03/07/01	<0.001	0.001	0.002	<0.001	0.002	<0.001	<0.001	<0.001	<0.001	0.038	<0.001	<0.001	0.06	0.001	<0.001	<0.001	0.002	0.011	0.010	< 0.003
	06/15/01	<0.001	<0.001	0.002	0.008	0.002	<0.001	<0.001	<0.001	<0.001	0.041	<0.001	<0.001	na	0.0009 J	<0.001	<0.001	0.003	0.005	0.013	<0.003
	06/25/02	<0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.006	< 0.005	< 0.005	na	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	<0.002	< 0.005
	01/10/03	<0.002	<0.002	<0.002	na	<0.002	na	na	<0.002	<0.001	0.011	na	<0.002	na	na	<0.002	<0.001	<0.002	<0.002	<0.002	<0.003
	07/11/03	na	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	<0.00016	<0.00011	NR	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00044
	12/22/03	<0.00067	<0.00094	<0.00110	na	<0.00101	na	na	<0.00077	<0.00068	0.00278 J	na	<0.00245	na	na	<0.00109	<0.00079	<0.00117	<0.00100	<0.00119	<0.00229
	01/09/04	<0.0001	<0.0001	<0.00013	na	0.0012	na	na	<0.0001	<0.00009	0.00258	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	<0.00042
	05/04/04	<0.00104	0.00143 J	<0.00152	na	0.00362 J	na	na	<0.00143	<0.00155	0.0123	na	<0.00130	na	na	<0.00113	<0.00136	<0.00157	0.00383 J	<0.00142	<0.00441
	10/07/04	<0.0050	0.0021 J	<0.0050	<0.0050	0.0046 J	na	<0.0050	<0.0050	<0.0050	0.021	na	<0.010	na	na	<0.0050	<0.0050	<0.0050	0.0057	<0.0020	<0.015
	11/18/04	<0.00019	0.00305	0.00198	<0.00011	0.00367	na	<0.00014	<0.00008	<0.00013	0.0229	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	0.00491	<0.00018	<0.00048
	09/10/08	<0.00050	0.0098	na	0.0019 J	0.00086 J	<0.00050	<0.00050	na	0.0012 J	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/25/09	<0.00050	na	na	0.00065 J	na	<0.00050	<0.00050	na	0.00075 J	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	na	0.00093 J	<0.0010
	09/17/09	<0.00050	na	na	0.0011 J	na	<0.00050	<0.00050	na	0.0012 J	na	<0.00050	<0.00050	na	0.0016 J	na	<0.00050	0.0046 J	na	0.0011 J	<0.0010
	03/31/10	<0.00050	na	na	0.00099 J	na	<0.00050	<0.00050	na	0.0013 J	na	<0.00050	<0.00050	na	0.00088 J	na	<0.00050	<0.00050	na	<0.00050	<0.0010
	09/21/10	<0.00050	na	na	0.00073 J	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	<0.00060	na	<0.00050	<0.00050	na	<0.00050	<0.0010
	03/30/11	<0.00050	na	na	<0.00050	na	<0.00050	<0.00050	na	<0.00050	na	<0.00050	<0.00050	na	0.0012 J	na	<0.00050	0.0034 J	na	<0.00050	<0.0010
	09/01/11	<0.0013	na	na	0.00091 J	na	<0.00090	<0.00090	na	<0.001	na	<0.0012	<0.0013	na	0.0020 J	na	<0.0010	0.0033 J	na	<0.0010	<0.0031
	03/08/12	<0.0013	na	na	<0.0008	na	<0.0009	<0.0009	na	<0.001	na	<0.0012	<0.0013	na	0.0016 J	na	<0.001	<0.001	na	0.0020 J	<0.0031
	09/21/12	<0.00050	na	na	<0.00050	na	<0.00050	<0.00090	na	<0.00050	na	<0.00050	<0.0010	na	0.0019	na	<0.00050	0.0018 J	na	<0.00050	<0.0015
	03/27/13	<0.00050	na	na	<0.00050	na	<0.00050	<0.00090	na	<0.00050	na	<0.00050	<0.0010	na	0.0012 J	na	<0.00050	<0.0010	na	<0.00050	<0.0015
	09/18/13	<0.00050	na	na	<0.00060	na	<0.00050	<0.00060	na	<0.00040	na	<0.00050	<0.0010	na	0.0015 J	na	<0.00050	<0.00040	na	<0.00040	<0.0015
	09/24/14	<0.00043	na	na	<0.00028	na	na	<0.00032	na	<0.00027	na	<0.00040	<0.0016	na	0.00097 J	na	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		0.20	4.9	0.007	0.60	0.005	0.73	0.075	0.005	0.10	0.070	2.4	0.005	0.24	0.98	0.005	1.0	0.10	0.005	0.002	10
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		41,000	43,000	1,700	1,200	33	190	3,600	180	1,200	1,200	4,400	21,000	4,000	no value	500	64,000	770	24	3.8	10,000
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	52	120,000	11	2,500	9.3	0.054	3,200	30,200	28,000	2.9	0.77	not established	1.6	2,400	68	9.5	13,000	153	510
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		330,000	140,000	750	61,000	2,100	2,900	230,000	2,100	21,000	240,000	130,000	98,000	650,000	76,000	49,000	140,000	250,000	23,000	3,100	150,000
MW-37	01/07/99	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.010	<0.005
	02/24/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	na	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.005
	03/14/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.003	< 0.003
	06/12/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.003
	01/08/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	<0.00009	0.00147	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	<0.00009	0.00321
MW-38	02/29/00	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	0.500	<0.005	<0.005	na	<0.005	0.190	<0.005	<0.005	0.170	0.031	<0.005
	03/06/01	< 0.001	< 0.001	< 0.001	< 0.001	0.004	< 0.001	< 0.001	< 0.001	< 0.001	0.440	<0.001	<0.001	<0.001	<0.001	0.160	<0.001	0.006	0.150	0.024	< 0.003
	06/20/01	<0.001	<0.001	<0.001	<0.001	0.003	<0.001	<0.001	<0.001	0.001	0.710	<0.001	<0.001	na	<0.001	0.180	<0.001	<0.010	0.140	0.035	<0.003
	01/09/04	<0.0001	0.00369	0.00165	na	0.0023	na	na	<0.0001	0.00137	0.339	NR	<0.00069	na	NR	0.0259	<0.00009	0.0106	0.137	0.0825	<0.00042
	09/11/08	<0.00050	0.016	0.00068 J	<0.00050	0.00087 J	<0.00050	<0.00050	<0.00050	<0.00050	0.083	<0.00050	<0.00050	na	<0.00060	0.060	<0.00050	0.0037 J	0.050	0.010	<0.0010
	03/24/09	<0.00050	0.050	0.0026 J	0.0014 J	0.0040 J	<0.00050	0.0013 J	0.00064 J	0.0016 J	0.25	0.00051 J	<0.00050	na	<0.00060	0.20	<0.00050	0.013	0.20	0.075	<0.0010
	09/17/09	<0.00050	0.039	0.0012 J	0.00084 J	0.00055 J	<0.00050	0.00055 J	<0.00050	<0.00050	0.072	<0.00050	<0.00050	na	<0.00060	0.088	<0.00050	0.0031 J	0.069	0.0082	<0.0010
	04/01/10	<0.00050	0.030	0.0020 J	<0.00050	0.0022 J	<0.00050	<0.00050	0.00061 J	0.0011 J	0.20	<0.00050	<0.00050	na	<0.00060	0.075	<0.00050	0.0059	0.20	0.024	<0.0010
	09/23/10	<0.00050	0.064	0.0065	0.0023 J	0.0072	<0.00050	<0.00050	0.0010 J	<0.00050	0.80	0.0024 J	<0.00050	na	<0.00060	0.21	<0.00050	0.015	0.68	0.083	<0.0010
	03/29/11	<0.00050	0.061	0.0065	0.0027 J	0.011	<0.00050	<0.00050	0.0012 J	0.0034 J	0.77	0.00081 J	<0.00050	na	<0.00060	0.24	<0.00050	0.012	0.87	0.059	<0.0010
	08/31/11	<0.0013	0.0012 J	<0.0013	<0.00080	<0.0010	<0.00090	<0.00090	<0.0010	<0.0010	0.017	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.0010	<0.0010	0.0037 J	0.010	<0.0031
	03/07/12	<0.0013	<0.0011	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	<0.001	<0.001	0.0051	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	0.0026 J	<0.0010	<0.0031
	09/20/12	<0.00050	0.0057	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	0.091	<0.00050	<0.0010	na	<0.0010	0.0023 J	<0.00050	0.0015 J	0.041	0.0034	<0.0015
	03/26/13	<0.00050	0.0130	0.0014 J	<0.00050	0.0013 J	<0.00050	<0.00090	<0.00050	<0.00050	0.14	<0.00050	<0.0010	na	<0.0010	0.011	<0.00050	0.0033 J	0.11	0.0045	<0.0015
	09/17/13	<0.00050	0.0012 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	0.022	<0.00050	<0.0010	na	<0.0010	<0.0010	0.00091 J	<0.0010	0.0013 J	0.00084 J	<0.0015
	09/23/14	<0.00043	0.00054 J	<0.00045	<0.00028	<0.00035	na	<0.00032	na	0.00058 J	0.032	<0.00040	<0.0016	na	<0.00045	0.00089 J	<0.00033	0.0011	0.0069 J	<0.00079	<0.00087
MW-39	02/29/00	<0.005	0.042	<0.005	<0.005	<0.005	<0.005	<0.005	0.010	<0.005	0.180	<0.005	<0.005	na	<0.005	<0.005	<0.005	0.022	0.005	0.120	<0.005
	03/06/01	< 0.001	0.064	< 0.001	0.012	0.003	0.003	0.003	0.056	0.002	0.092	< 0.001	< 0.001	<0.001	< 0.001	0.004	0.002	0.027	0.010	0.056	0.010
MW-39A	07/19/01	<0.001	0.002	<0.001	<0.001	0.002	<0.001	<0.001	<0.001	0.002	0.110	<0.001	<0.001	na	<0.001	0.047	<0.001	0.008	0.030	0.013	<0.003
	01/09/04	<0.0001	0.0108	0.00246	na	0.0142	na	na	<0.0001	0.00389	0.0829	na	0.00111	na	na	0.0692	<0.00009	0.0135	0.0293	0.140	0.0045
	3/2010	Not Sampled/Well Destroyed																			
MW-40	02/29/00	< 0.005	< 0.005	< 0.005	0.160	< 0.005	< 0.005	0.017	< 0.005	0.079	<0.005	<0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	<0.005	<0.005	<0.002	< 0.005
	03/07/01	< 0.001	< 0.001	< 0.001	0.003	< 0.002	< 0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	0.001	< 0.001	< 0.001	< 0.001	< 0.003
	06/19/01	<0.001	<0.001	<0.001	<0.001	<0.002	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	na	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.003
	01/09/04	<0.0001	<0.0001	<0.00013	na	<0.00014	na	na	<0.0001	0.0403	<0.00016	na	<0.00069	na	na	<0.00011	<0.00009	<0.00012	<0.00011	0.00244	<0.00042
	09/11/08	<0.00050	0.0014 J	<0.00050	0.068	<0.00050	0.0022 J	0.013	<0.00050	0.048	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.00077 J	<0.0010
	03/25/09	<0.00050	0.0021 J	<0.00050	0.14	<0.00050	0.0029 J	0.018	<0.00050	0.030	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.0036	<0.0010
	09/17/09	<0.00050	0.0054	<0.00050	0.19	0.0011 J	0.0028 J	0.017	<0.00050	0.16	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	0.0014 J	<0.0010
	March 2010	Not Sampled/Well Destroyed																			

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		**0.20**	**4.9**	**0.007**	**0.60**	**0.005**	**0.73**	**0.075**	**0.005**	**0.10**	**0.070**	**2.4**	**0.005**	**0.24**	**0.98**	**0.005**	**1.0**	**0.10**	**0.005**	**0.002**	**10**
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		**41,000**	**43,000**	**1,700**	**1,200**	**33**	**190**	**3,600**	**180**	**1,200**	**1,200**	**4,400**	**21,000**	**4,000**	no value	**500**	**64,000**	**770**	**24**	**3.8**	**10,000**
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	**52**	**120,000**	**11**	**2,500**	**9.3**	**0.054**	**3,200**	**30,200**	**28,000**	**2.9**	**0.77**	not established	**1.6**	**2,400**	**68**	**9.5**	**13,000**	**153**	**510**
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		**330,000**	**140,000**	**750**	**61,000**	**2,100**	**2,900**	**230,000**	**2,100**	**21,000**	**240,000**	**130,000**	**98,000**	**650,000**	**76,000**	**49,000**	**140,000**	**250,000**	**23,000**	**3,100**	**150,000**
MW-41	02/29/00	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	<0.005	< 0.005	< 0.005	**0.005**	**0.110**	< 0.005	< 0.005	<0.005	< 0.005	<0.005	< 0.005	< 0.005	<0.005	**0.075**	< 0.005
	03/07/01	<0.001	**0.004**	<0.001	**0.032**	< 0.002	<0.001	**0.004**	**0.001**	**0.014**	**0.052**	< 0.001	< 0.001	<0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	**0.065**	< 0.003
	06/19/01	<0.001	<0.001	<0.001	**0.009**	<0.002	<0.001	**0.002**	0.0009 J	**0.012**	**0.064**	<0.001	<0.001	na	<0.001	<0.001	<0.001	**0.002**	<0.001	**0.065**	<0.003
	01/09/04	<0.0001	**0.00332**	<0.00013	na	<0.00014	na	na	<0.0001	**0.0548**	**0.00561**	na	**0.00106**	na	na	<0.00011	<0.00009	<0.00012	<0.00011	**0.012**	**0.00452**
	04/19/06	<0.00060	<0.00050	<0.00060	**0.0052**	<0.00050	na	0.0026 J	0.00064 J	**0.019**	**0.100**	na	<0.00060	na	na	<0.00050	<0.00050	<0.00060	<0.00070	**0.051**	<0.0015
	09/11/08	<0.00050	0.00062 J	0.0012 J	**0.0066**	<0.00050	<0.00050	0.0046 J	0.0018 J	**0.032**	**0.390**	<0.00050	<0.00050	na	0.0012 J	<0.00060	<0.00050	0.0018 J	<0.00050	**0.080**	<0.0010
	03/25/09	<0.00050	<0.00050	<0.00050	0.0023 J	<0.00050	<0.00050	0.0015 J	<0.00050	**0.0099**	**0.13**	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	0.00052 J	<0.00050	**0.029**	<0.0010
	09/17/09	<0.00050	0.00070 J	<0.00050	0.0024 J	<0.00050	<0.00050	0.0014 J	0.00057 J	**0.0089**	**0.062**	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	**0.043**	<0.0010
	03/30/10	<0.00050	0.0025 J	0.0017 J	0.0027 J	<0.00050	<0.00050	0.0021 J	0.0014 J	**0.014**	**0.12**	<0.00050	<0.00050	na	0.00080 J	<0.00060	<0.00050	0.0018 J	<0.00050	**0.069**	<0.0010
	09/21/10	<0.00050	**0.017**	0.00041 J	0.0022 J	<0.00050	<0.00050	<0.00050	**0.0056**	**0.015**	**0.20**	<0.00050	<0.00050	na	0.0015 J	<0.00060	<0.00050	<0.00050	<0.00050	**0.15**	<0.0010
	03/30/11	<0.00050	**0.014**	0.0013 J	0.0030 J	<0.00050	<0.00050	0.0022 J	0.0043 J	**0.015**	**0.11**	<0.00050	<0.00050	na	0.0034 J	<0.00060	<0.00050	0.0011 J	<0.00050	**0.10**	<0.0010
	09/01/11	<0.0013	**0.021**	0.0021 J	0.0015 J	<0.0010	<0.00090	<0.00090	0.0043 J	0.0047 J	**0.050**	<0.0012	<0.0013	na	0.0022 J	<0.0017	<0.0010	<0.0010	<0.0011	**0.15**	<0.0031
	03/08/12	<0.0013	**0.011**	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	0.0023 J	0.002 J	**0.035**	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	**0.092**	<0.0031
	09/20/12	<0.00050	0.0018 J	<0.00060	0.0022 J	<0.00050	<0.00050	<0.00090	<0.00050	**0.0096**	**0.053**	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	**0.051**	<0.0015
	03/27/13	<0.00050	0.0024 J	<0.00060	0.0041 J	<0.00050	<0.00050	0.0033 J	<0.00050	**0.016**	**0.029**	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	**0.040**	<0.0015
	09/18/13	<0.00050	0.0023 J	<0.00060	**0.0062**	<0.00050	<0.00050	**0.0057**	0.0010 J	**0.036**	0.0037 J	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	**0.016**	<0.0015
	09/24/14	<0.00043	0.00090 J	<0.00045	**0.0164**	<0.00035	na	**0.0411**	na	**0.354**	0.00068 J	0.00046 J	<0.0016	na	<0.00045	<0.00046	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087
MW-42	11/21/07	na	na	<0.00060	<0.00090	<0.00050	na	<0.00070	**0.0094**	0.0040 J	**0.059**	na	na	na	na	<0.00050	na	<0.00060	<0.00070	<0.00060	na
	09/09/08	<0.00050	**0.0075**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0043 J	0.00064 J	0.00068 J	0.00051 J	<0.00050	na	**0.0052**	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	03/25/09	<0.00050	**0.016**	0.0021 J	<0.00050	<0.00050	<0.00050	<0.00050	**0.051**	<0.00050	0.0021 J	<0.00050	<0.00050	na	0.0019 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/15/09	<0.00050	**0.014**	0.0023 J	0.00081 J	<0.00050	<0.00050	<0.00050	**0.31**	0.0023 J	**0.28**	<0.00050	<0.00050	na	0.0036 J	<0.00060	0.0047 J	<0.00050	<0.00050	**0.22**	0.0015 J
	03/30/10	<0.00050	**0.016**	**0.014**	**0.0066**	<0.00050	0.00052 J	**0.0067**	**0.012**	**0.052**	**0.17**	<0.00050	<0.00050	na	0.0028 J	<0.00060	0.00057 J	**0.0050**	<0.00050	**0.097**	<0.0010
	09/22/10	<0.00050	**0.0065**	<0.00050	0.0016 J	0.00067 J	<0.00050	0.0015 J	**0.027**	0.0015 J	0.0042 J	<0.00050	<0.00050	na	**0.0071**	<0.00060	<0.00050	<0.00050	<0.00050	**0.020**	<0.0010
	03/29/11	<0.00050	**0.014**	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	**0.072**	0.0018 J	**0.022**	<0.00050	<0.00050	na	**0.0075**	<0.00060	0.0010 J	<0.00050	<0.00050	**0.071**	<0.0010
	09/01/11	<0.0013	**0.019**	**0.011**	0.0029 J	<0.0010	<0.00090	0.0026 J	**0.0059**	**0.021**	**0.14**	<0.0012	<0.0013	na	0.0032 J	<0.0017	<0.0010	0.0029 J	<0.0011	**0.055**	<0.0031
	03/08/12	<0.0013	**0.012**	**0.018**	0.0019 J	<0.001	<0.0009	<0.0009	0.0011 J	**0.0110**	**0.14**	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	0.0013 J	**0.015**	<0.0031
	09/21/12	<0.00050	0.0037 J	0.0019 J	0.0015 J	<0.00050	<0.00050	<0.00090	<0.00050	0.0011 J	**0.011**	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	**0.010**	<0.0015
	03/27/13	<0.00050	**0.0065**	<0.00060	0.0039 J	<0.00050	<0.00050	<0.00090	<0.00050	**0.0092**	**0.012**	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/16/13	<0.00050	0.0035 J	<0.00060	**0.020**	<0.00050	0.0021 J	**0.027**	0.0037 J	**0.21**	0.0017 J	<0.00050	<0.0010	na	<0.0010	<0.0010	0.00060 J	<0.0010	<0.0010	<0.00050	<0.0015
	09/24/14	<0.00043	**0.0032**	<0.00045	**0.0541**	**0.0011**	na	**0.123**	na	**1.210**	**0.0054**	**0.0011**	<0.0016	na	0.00048 J	<0.00046	0.00044 J	**0.0026**	<0.00049	**0.0017**	<0.00087
PW-1	11/18/04	<0.00019	**0.00129**	<0.00033	<0.00011	<0.00016	na	<0.00014	<0.00008	<0.00013	**0.00453**	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048
PW-2	11/18/04	<0.00019	**0.00331**	<0.00033	<0.00011	<0.00016	na	<0.00014	<0.00008	<0.00013	**0.00215**	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048
PW-3	11/18/04	<0.00019	**0.00741**	<0.00033	<0.00011	<0.00016	na	<0.00014	0.00102	<0.00013	**0.0201**	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048

Table G - 4
Summary of Groundwater Analytical Results - Oakite (10100 Hirsch Road)
MSD Application - Hirsch Road Properties

Well ID	Sample Date	1,1,1-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3-Dichlorobenzene	1,4-Dichlorobenzene	Benzene	Chlorobenzene	cis-1,2-Dichloroethene	Isopropylbenzene (Cumene)	Methylene Chloride	Methyl-tert-butyl ether (MTBE)	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene	Vinyl Chloride	Xylenes
Ingestion PCL - ingestion of groundwater(Tier 1 $^{GW}GW_{Ing}$ PCL - Residential)		**0.20**	**4.9**	**0.007**	**0.60**	**0.005**	**0.73**	**0.075**	**0.005**	**0.10**	**0.070**	**2.4**	**0.005**	**0.24**	**0.98**	**0.005**	**1.0**	**0.10**	**0.005**	**0.002**	**10**
Non-Ingestion PCL - Inhalation of volatile vapors from groundwater (Tier 1 $^{Air}GW_{Inh-V}$ PCL - Residential)		**41,000**	**43,000**	**1,700**	**1,200**	**33**	**190**	**3,600**	**180**	**1,200**	**1,200**	**4,400**	**21,000**	**4,000**	no value	**500**	**64,000**	**770**	**24**	**3.8**	**10,000**
Non-Ingestion Concentration Limit - Groundwater discharge to sediment(^{Sed}GW PCL)		not established	**52**	**120,000**	**11**	**2,500**	**9.3**	**0.054**	**3,200**	**30,200**	**28,000**	**2.9**	**0.77**	not established	**1.6**	**2,400**	**68**	**9.5**	**13,000**	**153**	**510**
Non-Ingestion PCL - Groundwater discharge to surface water(^{SW}GW PCL)		**330,000**	**140,000**	**750**	**61,000**	**2,100**	**2,900**	**230,000**	**2,100**	**21,000**	**240,000**	**130,000**	**98,000**	**650,000**	**76,000**	**49,000**	**140,000**	**250,000**	**23,000**	**3,100**	**150,000**
PW-4	01/10/03	<0.002	<0.002	<0.002	na	<0.002	na	na	<0.002	<0.001	**0.006**	NR	<0.002	na	na	<0.002	<0.001	<0.002	<0.002	<0.002	<0.003
	07/11/03	na	<0.001	<0.0013	na	<0.0014	na	na	**0.0116**	<0.0009	**0.0118**	<0.0011	na	na	na	<0.0011	<0.0009	<0.0012	<0.0011	<0.0009	<0.0044
	07/11/03	na	na	na	na	NR	na	na	**0.0163**	na	na	na	na	na	na	na	na	na	na	na	na
	12/22/03	<0.00067	<0.00094	<0.00110	na	<0.00101	na	na	<0.00077	<0.00068	0.00449 J	na	<0.00245	na	na	<0.00109	<0.00079	<0.00117	<0.00100	<0.00119	<0.00229
	05/04/04	<0.00104	**0.00881**	<0.00152	na	<0.00136	na	na	**0.00528**	<0.00155	**0.0407**	na	<0.00130	na	na	<0.00113	<0.00136	0.00378 J	0.00166 J	**0.0470**	<0.00441
	10/07/04	<0.0050	0.0048 J	<0.0050	<0.0050	<0.0050	na	<0.0050	<0.0050	0.00060 J	**0.014**	na	<0.010	na	na	<0.0050	<0.0050	<0.0050	<0.0050	<0.0020	<0.015
	11/18/04	<0.00019	<0.00015	<0.00033	<0.00011	<0.00016	na	<0.00014	<0.00008	<0.00013	**0.00228**	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048
PW-5R	09/11/08	<0.00050	0.0042 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0017 J	<0.00050	0.0042 J	<0.00050	<0.00050	na	0.0011 J	<0.00060	<0.00050	<0.00050	0.0010 J	<0.00050	<0.0010
	03/26/09	<0.00050	0.0045 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0022J	0.0021 J	0.0025 J	<0.00050	<0.00050	na	0.00081 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/17/09	<0.00050	<0.00050	<0.00050	0.00056 J	<0.00050	<0.00050	<0.00050	<0.00050	0.0021 J	<0.00050	<0.00050	<0.00050	na	0.0015 J	<0.00060	<0.00050	0.00086 J	<0.00050	**0.0027**	<0.0010
	03/31/10	<0.00050	0.0024 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0023 J	<0.00050	<0.00050	na	0.0013 J	<0.00060	<0.00050	<0.00050	<0.00050	**0.0066**	<0.0010
	09/22/10	<0.00050	0.0014 J	<0.00050	0.0010 J	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	0.0011 J	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	**0.0023**	<0.0010
	03/30/11	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050	na	<0.00060	<0.00060	<0.00050	<0.00050	<0.00050	<0.00050	<0.0010
	09/01/11	<0.0013	0.0029 J	<0.0013	<0.00080	<0.0010	<0.00090	<0.00090	<0.001	0.0011 J	<0.0025	<0.0012	<0.0013	na	0.0030 J	<0.0017	<0.0010	<0.0010	<0.0011	**0.0029**	<0.0031
	03/08/12	<0.0013	0.0013 J	<0.0013	<0.0008	<0.001	<0.0009	<0.0009	<0.001	<0.001	<0.0025	<0.0012	<0.0013	na	<0.0011	<0.0017	<0.001	<0.001	<0.0011	<0.0010	<0.0031
	09/20/12	<0.00050	0.0018 J	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	0.0015 J	<0.00050	<0.0010	<0.00050	<0.0010	na	0.0012 J	<0.0010	<0.00050	<0.0010	<0.0010	**0.0042**	<0.0015
	03/27/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/18/13	<0.00050	<0.00050	<0.00060	<0.00050	<0.00050	<0.00050	<0.00090	<0.00050	<0.00050	<0.0010	<0.00050	<0.0010	na	<0.0010	<0.0010	<0.00050	<0.0010	<0.0010	<0.00050	<0.0015
	09/24/14	<0.00043	0.00083 J	<0.00045	<0.00028	<0.00035	na	<0.00032	na	0.00031 J	0.0023	<0.00040	<0.0016	na	<0.00045	<0.00046	<0.00033	<0.00047	<0.00049	<0.00079	<0.00087
PZ-5	11/18/04	<0.00019	**0.020**	<0.00033	<0.00011	<0.00016	na	<0.00014	**0.00369**	<0.00013	<0.00023	<0.00014	<0.00074	na	na	<0.00017	<0.00015	<0.00025	<0.00026	<0.00018	<0.00048

Notes: **All results are in milligrams per liter (mg/L)**

J = Analyte was detected below the quantitation limit

< = Analyte not detected at listed concentration

na - Not Analyzed

Protective Concentration Limits (PCLs) based on TRRP Tier 1 tables for residential properties (December 2015) and site-specific calculations

Bold	Bold font indicates detection of chemical at concentration exceeding Method Detection Limit
Bold	Bold font with yellow shading indicates concentration of detection exceeded groundwater ingestion value (Tier 1 $^{GW}GW_{Ing}$ PCL - residential)
Blue Font	Blue font indicates that an Innocent Operator Certificate exists for the chemical at that well location

Appendix H

A statement as to whether contamination on and off the designated property without a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by EPA, if known, and the basis for that statement.

Appendix H

A statement as to whether contamination on and off the designated property without a Municipal Setting Designation will exceed a residential assessment level as defined in the Texas Risk Reduction Program or analogous residential level set by EPA, if known, and the basis for that statement.

The concentrations of the ten COCs in the affected soil and groundwater on-site at the Designated Property exceed the residential assessment levels as defined in TRRP. Accordingly, without the MSD, the COC concentrations in soil and groundwater exceed the TRRP residential assessment levels on-site at the Designated Property.

Two of the ten COCs are present in affected groundwater off-site of the Designated Property at concentration exceeding the residential assessment levels as defined in TRRP. Accordingly, without the MSD, the COC concentrations in groundwater exceed the TRRP residential assessment levels off-site of the Designated Property.

These statements are based on the findings from soil, sediment, groundwater, and surface water sampling completed during more than 19 years of environmental investigation and remediation activities.