



# COPY

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August 18, 2017

BRRTS #: 03-41-545023

PECFA #: 53216-2054-10-A

Hazim Farrah  
7210 W. Capitol Drive  
Milwaukee, WI 53216

Subject: Capitol Auto Sales/BV's Automotive – Groundwater Monitoring Report

Dear Mr. Farrah,

Enclosed is the Groundwater Monitoring Report for the Capitol Auto Sales/BV's Automotive site located at 7210 W. Capitol Drive in Milwaukee, Wisconsin. This completes the additional site investigation workscope approved on June 7, 2016.

### **Locate/Document Status of All Site Wells**

On July 13, 2017, METCO personnel was on site to locate/document the status of all site monitoring wells.

Monitoring Well MW-1: Well was intact, but the PVC had to be cut down to get the well cover on flush. METCO personnel cut down the PVC and re-surveyed the well before sampling.

Monitoring Well MW-2: Well was intact and the flush mount appears to be in good shape.

Monitoring Well MW-3: Well was intact and the flush mount appears to be in good shape.

Monitoring Well MW-4: Well was intact, but the PVC had to be cut down to get the well cover on flush. METCO personnel cut down the PVC and re-surveyed the well before sampling.

### **Groundwater Monitoring Workscope**

On July 13, 2017, METCO personnel collected groundwater samples from four monitoring wells (MW-1 thru MW-4) for field and laboratory analysis (PVOC and Naphthalene). Field measurements for water level, Dissolved Oxygen, pH, ORP, temperature, and Specific Conductivity were collected from all sampled monitoring wells.

### **Discussion of Groundwater Results**

Monitoring Well MW-1: Currently shows an NR140 Enforcement Standard (ES) exceedance for Benzene (10.1 ppb). Contaminant concentrations have slightly increased since the well was last sampled in March 2007, when it showed a Preventive Action Limit (PAL) exceedance for Benzene (0.83 ppb).

Monitoring Well MW-2: Continues to show no detects for PVOC and Naphthalene.

Monitoring Well MW-3: Continues to show no detects for PVOC and Naphthalene.

Monitoring Well MW-4: Continues to show no detects for PVOC and Naphthalene.

### **Conclusion/Recommendation**

Based on the groundwater results, it appears that the extent of groundwater contamination is defined and at low levels. Also, the entire area is currently capped with asphalt, which would address any direct contact concerns. Based on this, it is the opinion of METCO that this site should be considered for closure.

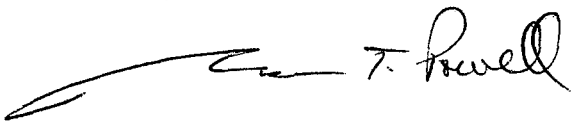
However, if the WDNR requires further work before submitting for closure, please let us know.

Per WDNR response, METCO will proceed with this project.

A Detailed Site Map, Groundwater Flow Direction Map, Groundwater Isoconcentration Map, Data Tables, and Laboratory Documents have been attached.

If you have any questions or comments please feel free to call (608-781-8879) or email at [jasonp@metcohq.com](mailto:jasonp@metcohq.com).

Sincerely,



Jason T. Powell  
Staff Scientist

Attachments

c: Tim Zeichert – WDNR



B.3.c. GROUNDWATER  
FLOW DIRECTION (7/13/17)

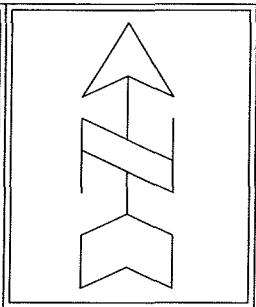
CAPITOL AUTO SALES-  
BV'S AUTOMOTIVE



MILWAUKEE, WISCONSIN

DRAWN BY: JJ

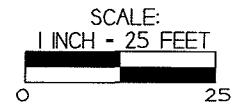
DATE: 7/27/17



X = SOIL BORING LOCATION (AXIS CONSULTING - APRIL 2006)

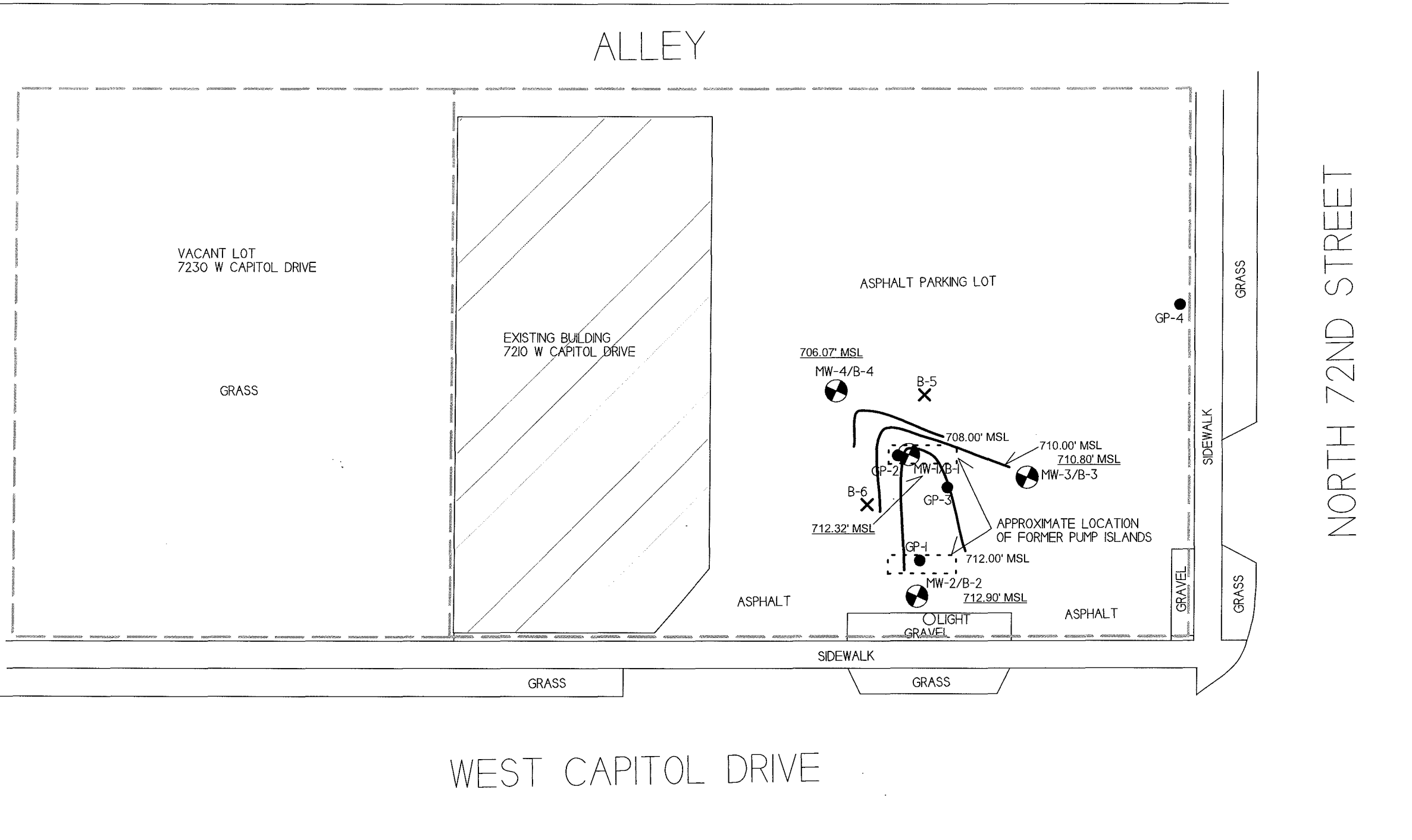
● - GEOPROBE BORING LOCATION (AXIS CONSULTING - FEBRUARY 2006)

⊗ - MONITORING WELL LOCATION



----- - PROPERTY BOUNDARY LINE  
(BASED ON INFORMATION FROM COUNTY GIS)

NOTE: MONITORING WELL LOCATIONS WERE MEASURED DURING THE LAST GROUNDWATER SAMPLING EVENT. HOWEVER GEOPROBE/BORING LOCATIONS ARE BEING BASED OFF OF PREVIOUS AXIS CONSULTING MAPS.



B.3.b. GROUNDWATER  
ISOCONCENTRATION (7/13/17)

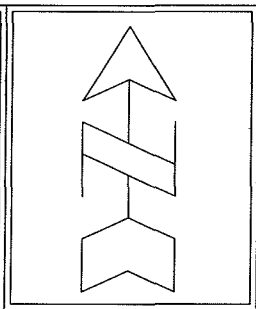
CAPITOL AUTO SALES-  
BV'S AUTOMOTIVE



MILWAUKEE, WISCONSIN

DRAWN BY: JJ

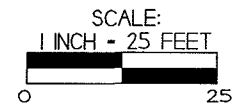
DATE: 7/27/17



X - SOIL BORING LOCATION (AXIS CONSULTING - APRIL 2006)

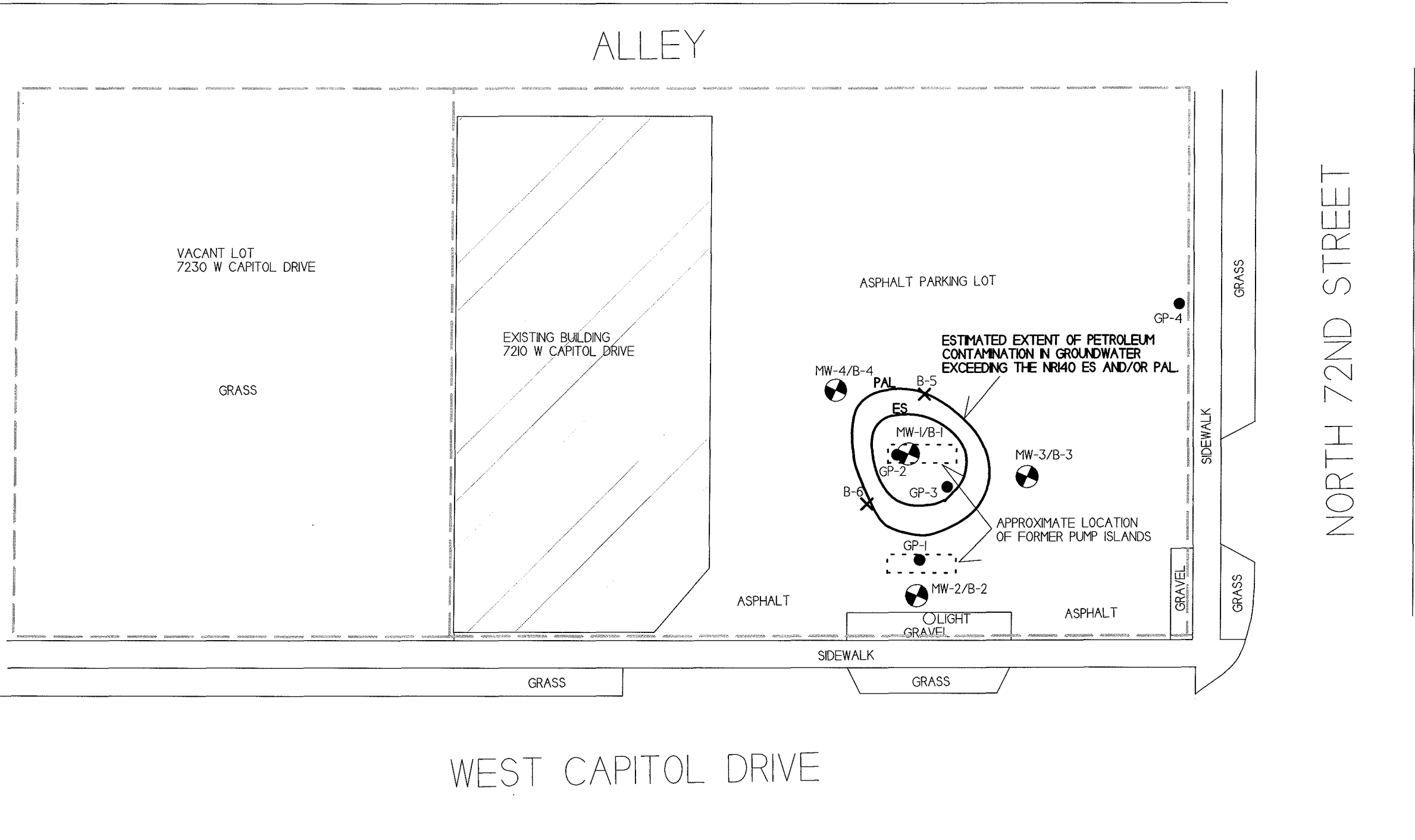
● - GEOPROBE BORING LOCATION (AXIS CONSULTING - FEBRUARY 2006)

⊗ - MONITORING WELL LOCATION



----- - PROPERTY BOUNDARY LINE  
(BASED ON INFORMATION  
FROM COUNTY GIS)

NOTE: MONITORING WELL LOCATIONS WERE MEASURED DURING  
THE LAST GROUNDWATER SAMPLING EVENT. HOWEVER GEOPROBE/BORING  
LOCATIONS ARE BEING BASED OFF OF PREVIOUS AXIS CONSULTING MAPS.



**A.1 Groundwater Analytical Table**  
**Capitol Auto Sales & Service/BVs Automotive BRRTS #03-41-545023**

**Well MW-1**

PVC Elevation = 717.19 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	DRO (ppb)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/24/06	NM	NM	<0.013	NS	NS	4.8	12	<0.50	4.9	30	69	81
01/02/07	710.77	6.42	NS	NS	NS	0.64	0.38	<0.23	<0.50	0.26	0.26-0.51	0.94
03/20/07	709.29	7.90	NS	NS	NS	0.83	<0.22	<0.23	<0.50	0.56	<0.44	0.74-0.93
07/13/17	712.32	4.87	NS	NS	NS	10.1	1.11	<0.82	<2.17	<0.67	<2.05	<1.95
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	---	---	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<b>1.5</b>	---	---	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

PVC Elevation = 716.41 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	DRO (ppb)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/11/06	NM	NM	0.0011	0.13	<50	<0.20	<0.50	<0.50	0.29	<0.20	<0.20	<0.50
01/02/07	711.06	5.35	NS	NS	NS	<0.50	<0.44	<0.46	<1.0	<0.22	<0.88	<0.78
03/20/07	710.21	6.20	NS	NS	NS	<0.50	<0.44	<0.46	<1.0	<0.22	<0.88	<0.78
07/13/17	712.90	3.51	NS	NS	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	---	---	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<b>1.5</b>	---	---	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

PVC Elevation = 716.70 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	DRO (ppb)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/11/06	NM	NM	0.00060	0.42	<50	<0.20	<0.50	<0.50	0.28	<0.20	<0.20	<0.50
01/02/07	709.80	6.90	NS	NS	NS	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
03/20/07	709.75	6.95	NS	NS	NS	<0.25	<0.22	<0.23	<0.50	<0.11	<0.44	<0.39
07/13/17	710.80	5.90	NS	NS	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	---	---	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<b>1.5</b>	---	---	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**Well MW-4**

PVC Elevation = 717.10 (feet) (MSL)

Date	Water Elevation (in feet msl)	Depth to water from top of PVC (in feet)	Lead (ppb)	DRO (ppb)	GRO (ppb)	Benzene (ppb)	Ethyl Benzene (ppb)	MTBE (ppb)	Naphthalene (ppb)	Toluene (ppb)	Trimethyl-benzenes (ppb)	Xylene (Total) (ppb)
04/24/06	NM	NM	<0.013	0.32	NS	<0.20	<0.50	<0.50	<0.25	<0.20	<0.40	<0.50
01/02/07	706.60	10.50	NS	NS	NS	<0.25	<0.22	0.84	<0.50	<0.11	<0.44	<0.39
03/20/07	706.45	10.65	NS	NS	NS	<0.50	<0.44	0.86	<1.0	<0.22	<0.88	<0.78
07/13/17	706.07	11.03	NS	NS	NS	<0.17	<0.2	<0.82	<2.17	<0.67	<2.05	<1.95
<b>ENFORCEMENT STANDARD ES = Bold</b>			<b>15</b>	---	---	<b>5</b>	<b>700</b>	<b>60</b>	<b>100</b>	<b>800</b>	<b>480</b>	<b>2000</b>
<b>PREVENTIVE ACTION LIMIT PAL = Italics</b>			<b>1.5</b>	---	---	<b>0.5</b>	<b>140</b>	<b>12</b>	<b>10</b>	<b>160</b>	<b>96</b>	<b>400</b>

(ppb) = parts per billion (ppm) = parts per million

ns = not sampled nm = not measured

Note: Elevations are presented in feet mean sea level (msl).

**A.7 Other**  
**Groundwater NA Indicator Results**  
**Capitol Auto Sales & Service/BVs Automotive BRRTS #03-41-545023**

**Well MW-1**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
04/24/06	NOT MEASURED					<0.50	120	0.023	89
07/13/17	1.60	6.92	-193	19.92	1176	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						<b>10</b>	-	-	<b>300</b>
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-2**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
04/11/06	NOT MEASURED							<0.016	
07/13/17	4.37	7.28	184.8	20.07	213	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						<b>10</b>	-	-	<b>300</b>
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-3**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
04/11/06	NOT MEASURED							0.060	
07/13/17	3.09	7.13	180.4	17.72	725	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						<b>10</b>	-	-	<b>300</b>
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

**Well MW-4**

Date	Dissolved Oxygen (ppm)	pH	ORP	Temp (C)	Specific Conductance	Nitrate + Nitrite (ppm)	Total Sulfate (ppm)	Dissolved Iron (ppm)	Manganese (ppb)
04/24/16	NOT MEASURED					0.84	360	<0.016	90
07/13/17	2.10	7.05	-46.1	14.29	1200	NS	NS	NS	NS
ENFORCE MENT STANDARD = <b>ES - Bold</b>						<b>10</b>	-	-	<b>300</b>
PREVENTIVE ACTION LIMIT = <i>PAL - Italics</i>						2	-	-	60

(ppb) = parts per billion (ppm) = parts per million  
 ns = not sampled nm = not measured ORP = Oxidation Reduction Potential  
 Note: Elevations are presented in feet mean sea level (msl).

## A.6 Water Level Elevations

Capitol Auto Sales & Service/BVs Automotive BRRTS #03-41-545023  
Milwaukee, Wisconsin

	MW-1	MW-2	MW-3	MW-4
Ground Surface (feet msl)	717.40	717.04	717.15	717.42
PVC top (feet msl)	717.19	716.41	716.70	717.10
Well Depth (feet)	15.00	20.00	18.00	21.00
Top of screen (feet msl)	712.40	707.04	709.15	706.42
Bottom of screen (feet msl)	702.40	697.04	699.15	696.42

### Depth to Water From Top of PVC (feet)

02/15/06	D	9.60	9.60	D
01/02/07	6.42	5.35	6.90	10.50
03/20/07	7.90	6.20	6.95	10.65
07/13/17	4.87	3.51	5.90	11.03

### Depth to Water From Ground Surface (feet)

02/15/06	D	10.23	10.05	D
01/02/07	6.63	5.98	7.35	10.82
03/20/07	8.11	6.83	7.40	10.97
07/13/17	5.08	4.14	6.35	11.35

### Groundwater Elevation (feet msl)

02/15/06	D	706.81	707.10	D
01/02/07	710.77	711.06	709.80	706.60
03/20/07	709.29	710.21	709.75	706.45
07/13/17	712.32	712.90	710.80	706.07

CNL = Could Not Locate

A = Abandoned and removed during soil excavation project

NI = Not Installed

D= DRY



# Synergy Environmental Lab,

1990 Prospect Ct., Appleton, WI 54914 \*P 920-830-2455 \* F 920-733-0631

HAZIM FARRAH  
 FARRAH GROUP, LLC  
 7210 W. CAPITOL DRIVE  
 MILWAUKEE, WI 53216

Report Date 20-Jul-17

Project Name BV'S AUTOMOTIVE  
 Project #

Invoice # E33269

Lab Code 5033269A  
 Sample ID MW-4  
 Sample Matrix Water  
 Sample Date 7/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B	7/18/2017	7/18/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	7/18/2017	7/18/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	7/18/2017	7/18/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	7/18/2017	7/18/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	7/18/2017	7/18/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	7/18/2017	7/18/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	7/18/2017	7/18/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	7/18/2017	7/18/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	7/18/2017	7/18/2017	CJR	1

Lab Code 5033269B  
 Sample ID MW-3  
 Sample Matrix Water  
 Sample Date 7/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B	7/18/2017	7/18/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B	7/18/2017	7/18/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B	7/18/2017	7/18/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B	7/18/2017	7/18/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B	7/18/2017	7/18/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B	7/18/2017	7/18/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B	7/18/2017	7/18/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B	7/18/2017	7/18/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B	7/18/2017	7/18/2017	CJR	1

Project #

Lab Code 5033269C  
 Sample ID MW-2  
 Sample Matrix Water  
 Sample Date 7/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		7/18/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		7/18/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		7/18/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		7/18/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		7/18/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		7/18/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		7/18/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		7/18/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		7/18/2017	CJR	1

Lab Code 5033269D  
 Sample ID MW-1  
 Sample Matrix Water  
 Sample Date 7/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	10.1	ug/l	0.17	0.55	1	8260B		7/19/2017	CJR	1
Ethylbenzene	1.11	ug/l	0.2	0.63	1	8260B		7/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		7/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		7/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		7/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		7/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		7/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		7/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		7/19/2017	CJR	1

Lab Code 5033269E  
 Sample ID TB  
 Sample Matrix Water  
 Sample Date 7/13/2017

	Result	Unit	LOD	LOQ	Dil	Method	Ext Date	Run Date	Analyst	Code
Organic										
PVOC + Naphthalene										
Benzene	< 0.17	ug/l	0.17	0.55	1	8260B		7/19/2017	CJR	1
Ethylbenzene	< 0.2	ug/l	0.2	0.63	1	8260B		7/19/2017	CJR	1
Methyl tert-butyl ether (MTBE)	< 0.82	ug/l	0.82	2.6	1	8260B		7/19/2017	CJR	1
Naphthalene	< 2.17	ug/l	2.17	6.9	1	8260B		7/19/2017	CJR	1
Toluene	< 0.67	ug/l	0.67	2.13	1	8260B		7/19/2017	CJR	1
1,2,4-Trimethylbenzene	< 1.14	ug/l	1.14	3.63	1	8260B		7/19/2017	CJR	1
1,3,5-Trimethylbenzene	< 0.91	ug/l	0.91	2.9	1	8260B		7/19/2017	CJR	1
m&p-Xylene	< 1.56	ug/l	1.56	4.95	1	8260B		7/19/2017	CJR	1
o-Xylene	< 0.39	ug/l	0.39	1.25	1	8260B		7/19/2017	CJR	1

Project Name BV'S AUTOMOTIVE  
Project #

Invoice # E33269

"J" Flag: Analyte detected between LOD and LOQ

LOD Limit of Detection

LOQ Limit of Quantitation

*Code*      *Comment*

1              Laboratory QC within limits.

All solid sample results reported on a dry weight basis unless otherwise indicated. All LOD's and LOQ's are adjusted for dilutions but not dry weight. Subcontracted results are denoted by SUB in the analyst field.

Authorized Signature

*Michael Ricker*

