ARCADIS
Infrastructure, environment, facilities

ARCADIS
10559 Citation Drive
Suite 100
Brighton
Michigan 48116
Tel 810.229.8594
Fax 810.229.8837
www.arcadis-us.com

ENVIRONMENT

Mr. Kurt Blizzard
WFG Remediation Team
General Motors Corporation
Mail Code 489-066-055
920 Townsend
Lansing, MI 48921

Subject:
Groundwater and Stream Water Elevation Monitoring Report
56-Acre Undeveloped Property
General Motors Corporation
Burton, Michigan

Date:
October 28, 2008

Contact:
Derek C. Kaiding, P.E.

Phone:
810.225.1903

Email:
Derek.Kaiding@arcadis-us.com

Our ref:
B0064448.0000

Dear Kurt:

This letter has been prepared to describe water level monitoring activities performed by ARCADIS from December 2003 through June 2008, on behalf of General Motors Corporation (GM) at GM's 56-acre undeveloped parcel of land located near the intersection of Davison Road and Donegal Street in Burton, Michigan (the Site).

Background and Scope

The Site is located immediately east of property once comprising a portion of the Delphi Energy & Engine Management Systems, Plant 7 in Burton, Michigan, near the intersection of Davison Road and Genesee Road. The property immediately west of the Site is now owned by Porrett Investment, and is currently operated as a warehousing facility. The remainder of Delphi Energy & Engine Management Systems, Plant 7, to the west, is currently undergoing demolition. The Site and property to the east were historically associated with the Delphi Energy and Engine Management Systems Flint East Facility, Plant 600/700 (MID 980 568 745) (the Delphi Facility). The Delphi Facility was owned by GM until 1999, when Delphi Automotive Systems, LLC, (Delphi) was divested from GM. Delphi owns the Delphi Facility, while GM retained the adjacent undeveloped 56-acre property which is the subject of this letter (the Site or Burton 56 Property). Figure 1 shows the location of the Site. GM sold approximately 144 acres of undeveloped land adjacent to the Site, to the east, to a third party developer during the fall of 2004. Both the Site and the adjacent 144 acres remain idle and inactive.

A revised Site Investigation Report (SIR) was submitted to GM on February 11, 2008. The revised SIR documents Site investigations performed from 1996 through November 2007. These activities have included groundwater and soil assessment, landfill delineation (lateral extent), and ecological habitat assessment.

In summary, analytical data for the Site indicate the presence of groundwater and soil/fill contaminated with various semi-volatile and/or inorganic constituents at varying concentrations. A subset of these constituents have been detected at concentrations exceeding Michigan's generic industrial/commercial and/or residential screening criteria for direct contact, drinking water and drinking water protection, groundwater to surface water and/or groundwater to surface water protection.

One of the recommendations presented in the revised SIR was to perform additional groundwater and surface water level monitoring at temporary wells TW-1 and TW-8 and stream gauge SG-1 to evaluate whether groundwater in the area discharges to the creek (gaining creek), or whether the creek recharges local groundwater (losing creek). This work was performed to assess the migration potential of soil and groundwater contaminants found near the creek. All of the water level monitoring data collected since 2003 are presented in Table 1.

Results

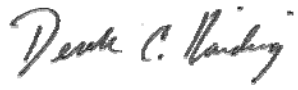
Based on the results shown in Table 1, Gilkey Creek is both a losing and gaining creek depending on the time of year. Data from August 2007 through December 2007 show that the water elevation in Gilkey Creek is higher than the groundwater elevation as measured in TW-1 and TW-8. The recent groundwater and stream measurements collected during the spring of 2008 show that groundwater is migrating toward Gilkey Creek in the vicinity of TW-1 and TW-8. The groundwater table elevation as measured in TW-1 and TW-8 is higher in elevation than that of the water elevation in Gilkey Creek.

Further subsurface investigation is warranted in the southwestern corner of the Site due to inorganic exceedances (i.e., mercury, zinc, cobalt, selenium and manganese) of Part 201 groundwater to surface water interface protection criteria of the Michigan Natural Resources and Environmental Protection Act 451, as amended, and the Resource Conservation and Recovery Act as amended.

If you have any questions, please contact us at 810.225.8594.

Sincerely,

ARCADIS



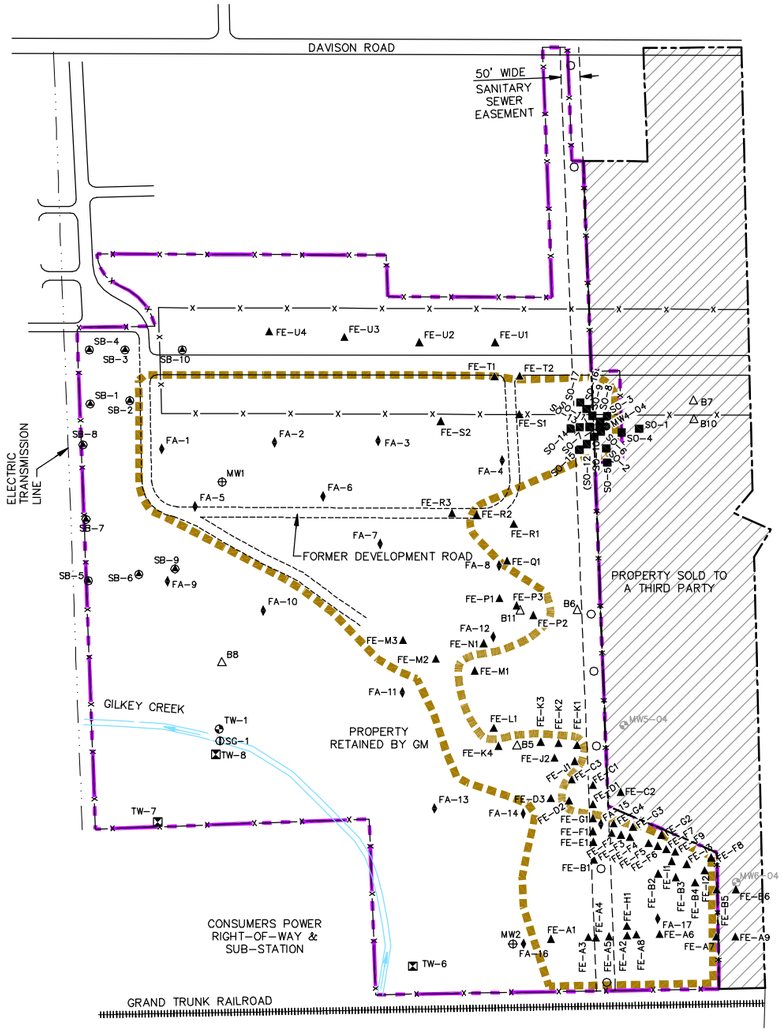
Derek C. Kaiding, P.E.
Principal Environmental Engineer

WEP/wep

Copies:
John McKenna, P.G., ARCADIS

Attachments:

Figure 1 – Site Map
Table 1 – Summary of Stream Gage and GSI Monitoring Well Measurements



LEGEND

- PROPERTY SOLD TO A THIRD PARTY
- PROPERTY RETAINED BY GM
- APPROXIMATE EXTENT OF FILL AREA
- FORMER PROPERTY BOUNDARY
- EXISTING ROAD
- RAILROAD
- FENCE
- ELECTRIC TRANSMISSION LINE
- CREEK
- DIRECTION OF CREEK FLOW
- SANITARY SEWER MANHOLE
- SANITARY SEWER EASEMENT
- MW1 HISTORICAL OBSERVATION WELL (5/96)
- MW4 ABANDONED HISTORICAL OBSERVATION W
- B1 HISTORICAL SOIL BORING (5/96)
- TW-1 TEMPORARY MONITORING WELL (12/03)
- TW-2 ABANDONED TEMPORARY MONITORING WE
- SB-4 SOIL BORING (12/03)
- FA-1 SOIL BORING (3/04)
- MW4-04 TEMPORARY MONITORING WELL (4/04)
- SO-1 SOIL BORING (5/04)
- TW-6 TEMPORARY MONITORING WELL (8/07)
- STAFF GAUGE LOCATION
- SB-6 SOIL BORING (8/07)

NOTES:

1. 2003/2004/2007 SAMPLING LOCATIONS COMPLETED BY BBL WERE SURVEYED BY BMJ ENGINEERS & SURVEYORS INC; HOWEVER, ALL LOCATIONS ILLUSTRATED ARE APPROXIMATE.
2. THE MW4-04 STEPOUT LOCATIONS (MW4-04S01 THROUG MW4-04S017) ARE PLOTTED USING AN ABBREVIATED LOCATION NAME (SO-1 THROUGH SO-17) DUE TO SPAC LIMITATIONS.
3. BASE MAP PROVIDED BY GM.

0 200' 400'
GRAPHIC SCALE

FLINT DELPHI EAST
BURTON, MICHIGAN
56-ACRE UNDEVELOPED PROPERTY

Site Map

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FIGURE
1

TABLE 1
GENERAL MOTORS CORPORATION

56-ACRE UNDEVELOPED PROPERTY
SUMMARY OF STAFF GAUGE AND GSI WELL MEASUREMENTS

Date Monitoring I.D.	Ground Elevation (ft)	Top of Casing Elevation (ft)	Screen Depth (ft bgs)	Screened Formation	Depth to Water 12/29/2003 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 8/8/2007 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 11/7/2007 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 12/14/2007 (ft BTOC)	Groundwater Elevation (ft)
TW-1	752.88	755.97	7 - 12	Native Sand, Gravel, and Silt	9.68	746.29	NA	NA	NA	NA	9.54	746.43
TW-8	753.41	757.56	8 - 13	Native Gravel and Sand	NA	NA	11.45	746.11	13.6	743.96	11.04	746.52
SG-1*	NA	748.65 748.56	NA	NA	NA	NA	1.61	747.04	1.83	746.82	1.63	747.02

Notes:
NA - not available
BTOC - below top of casing
bgs - below ground surface
ft - feet
Elevations are based on North American Vertical Datum of 1988.
GSI - Part 201 groundwater to surface water interface protection criteria of the Michigan Natural Resources and Environmental Protection Act 451, as amended, and the Resource Conservation and Recovery Act as amended
* - Staff gauge installed in Gilkey Creek between TW-1 and TW-8. Resurveyed on 4/15/08.

TABLE 1
GENERAL MOTORS CORPORATION

56-ACRE UNDEVELOPED PROPERTY
SUMMARY OF STAFF GAUGE AND GSI WELL MEASUREMENTS

Date Monitoring I.D.	Ground Elevation (ft)	Top of Casing Elevation (ft)	Screen Depth (ft bgs)	Screened Formation	Depth to Water 4/15/2008 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 4/18/2008 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 5/15/2008 (ft BTOC)	Groundwater Elevation (ft)	Depth to Water 6/3/2008 (ft BTOC)	Groundwater Elevation (ft)
TW-1	752.88	755.97	7 - 12	Native Sand, Gravel, and Silt	NA	NA	8.23	747.74	8.56	747.41	9.13	746.84
TW-8	753.41	757.56	8 - 13	Native Gravel and Sand	NA	NA	10.34	747.22	10.81	746.75	11.00	746.56
SG-1*	NA	748.65 / 748.56	NA	NA	1.78	746.78	2.07	746.49	2.44	746.12	2.23	746.33

Notes:
NA - not available
BTOC - below top of casing
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