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Superfund - HW
Spills - SP
ERP - E
VCP - V
BCP - C

MOENCH COMPANY
DIVISION OF BROWN SHOE COMPANY
465 PALMER STREET
GOWANDA, NEW YORK 14070
Phone 716-532-2201
Fax 716-532-5518

April 28th, 2015

Mr. Stanley F. Radon
N.Y. State Dept. of Environmental Conservation
Division of Solid & Hazardous Waste
270 Michigan Ave.
Buffalo, New York 14203-2999

Re: Palmer St. Landfill, Groundwater Quality Sampling; April 2015

Mr. Radon:

Attached/enclosed is the Groundwater Quality report for our Palmer St. Landfill, for the April 2015 sampling event. An electronic report, in EDD format, will be submitted by GEI Consultants. Also, I will forward a PDF file to you, from UPS Store.

There were no detections of metals, above standard, and minimal detection of Acetone, a "Guidance Value."

The volume in the monitoring wells seemed lower than usual, possibly due to extreme cold, and a frost layer, minimizing infiltration. Again, there are no Bank Seeps available at BS1 & BS2. No creek samples were taken in their place.

Acidic trend continues at MW6 & MW4sr.

The Village of Gowanda's continued use of the deep aquifer, is having a substantial effect on the water levels in some Deep wells. The level at MW-1D has changed flow direction, 180 degrees.

Acetone was detected at MW-3D, but not in the Blind Duplicate, which was MW-3D.

Please call me if you have any questions.

Sincerely,

Jeffrey Smith
Environmental Engineer

Cc: Sandra Severson-Brown Shoe Co.
St. Louis, Mo
Richard Frappa-GEI Consultants
Williamsville, NY

MOENCH COMPANY
DIVISION OF BROWN SHOE COMPANY
465 PALMER STREET
GOWANDA, NEW YORK 14070
Phone 716-532-2201
Fax 716-532-5518

PALMER ST. LANDFILL: APRIL 2015

GROUNDWATER QUALITY MONITORING REPORT.

APRIL 1ST, MONITORING EVENT.

FIRST OF TWO SAMPLINGS FOR 2015

RECEIVED
APR 30 2015
NYS DEC
REGION 9

Jeffrey Smith
Site Manager

PALMER STREET LANDFILL - MOENCH COMPANY.
GROUNDWATER MONITORING REPORT FOR APRIL 2015, SAMPLING EVENT.

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1.0 INTRODUCTION

1.1 BACKGROUND-LANDFILL.

THE MOENCH COMPANY, A DIVISION OF BROWN SHOE CO., AND IS LOCATED NEAR THE SOUTHEAST CORNER OF THE VILLAGE OF GOWANDA, CATTARAUGUS COUNTY, NEW YORK.(FIGURE 1). THE PALMER STREET LANDFILL, WHICH WAS OPERATED BY MOENCH TANNING FROM 1900(APPROX), THROUGH JULY 1983, LIES IMMEDIATELY SOUTHWEST OF THE (FORMER) TANNERY COMPLEX ON AN APPROXIMATELY 25-ACRE, PARCEL OF LAND. A VARIETY OF WASTE GENERATED BY MOENCH TANNING WERE DISPOSED OF AT THE PALMER STREET LANDFILL SITE. THESE WASTES INCLUDED SOLE LEATHER EXTRACT, RENDERING WASTE, SPRAY BOOTH CLEAN UP WASTE, WASTE FINISH, WASTE HAIR/LEATHER SCRAPS, WASTEWATER TREATMENT PLANT SLUDGE, AND OCCASIONAL CONSTRUCTION DEBRIS.

MOENCH TANNING HAS CLOSED THE PALMER STREET LANDFILL. ACCORDINGLY, THE CLOSURE/POST CLOSURE PLAN(REFERENCE 1), IS BEING PERFORMED. THE LONG-TERM POST CLOSURE MONITORING PROGRAM HAS BEEN APPROVED & IMPLIMENTED.(JULY 1993, REVISED MARCH 1994, MARCH 2001 & DECEMBER 2006).

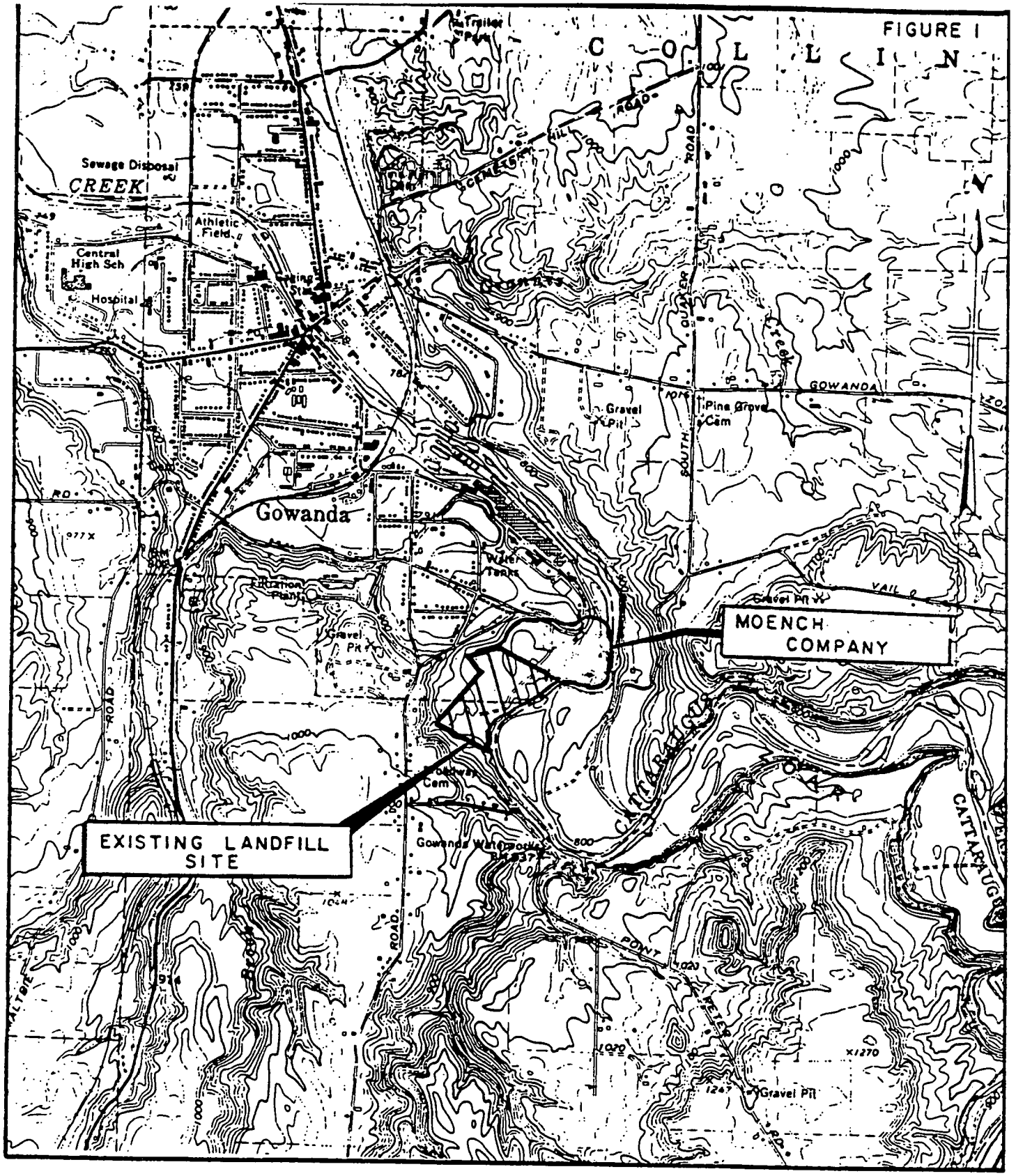
IN JULY OF 2006, A PROPOSAL WAS MADE TO THE NEW YORK STATE DEPT. OF ENVIRONMENT CONSERV.(NYSDEC), TO RECONFIGURE THE GROUNDWATER MONITORING SYSTEM(REF#7).
THIS WAS AGREED UPON IN EXCHANGE FOR THE ELIMINATION OF THE FIVE YEAR "COVER SYSTEM EVALUATION". THE NEW MONITORING SYSTEM IS DESCRIBED IN SECTION 2.0

1.2 PURPOSE AND SCOPE

SAMPLES ASSOCIATED WITH THE FIRST EVENT OF TWO, WATER QUALITY MONITORS, FOR 2015 YEAR, WERE COLLECTED ON APRIL 1ST, 2015.

SAMPLES WERE OBTAINED ONLY BANK SEEP #3, OF THE THREE BANK SEEPS. NO SEEPS EXISTED AT BS-1 & BS-2.

SITES MW-5 & MW-3 WERE DRY,OR OF MINIMAL VOLUME, AND NO SAMPLE OBTAINED.



{FIGURE 1}

Lat. 42°, 27'0"
Long. 78°, 55'30"

NOTE:
TOPOGRAPHY TAKEN FROM 1963 GOWANDA, N.Y.
U.S.G.S. QUADRANGLE 7.5 MIN. SERIES
SCALE: 1"= 2000'

NEW YORK
QUADRANGLE LOCATION

SITE LOCATION MAP
PALMER STREET LANDFILL
GOWANDA, N.Y. 6-94

MOENCH Co.

2.0 MONITORING SYSTEM(RECONFIGURED 7/06)

THE RECONFIGURED GROUNDWATER MONITORING SYSTEM FOR THE PALMER STREET LANDFILL(FIG. 2), CONTAINS NINE(9) MONITORING WELLS AND THREE(3) BANK SEEPS. A REVISED POST CLOSURE PLAN, DESCRIBING THE DETAILS, WAS SUBMITTED TO THE NYSDEC 9, IN JANUARY 2007.

UPGRADIANT WELLS	OVERBURDEN/WASTE WELLS	BEDROCK WELLS
	MW-3	MW-3D
MW-7D	MW-4SR	MW-4D
MW-8D	MW-5	MW-6D
	MW-6	

IN ADDITION TO THE WELLS, NYSDEC ALSO REQUIRES THE MONITORING OF THREE (3) BANK SEEPS DESIGNATED AS BS-1, BS-2 AND BS-3, RESPECTIVELY. THE ABILITY TO OBTAIN SAMPLES FROM THESE BANKSEEPS IS SPORADIC DUE TO VARYING WEATHER/MOISTURE CONDITIONS. A BANK SEEP SAMPLE WAS OBTAINED ONLY FROM BS-3. THERE WERE NO CREEK SAMPLES TAKEN IN PLACE.

MW-8D IS DOWNGRADIENT FROM GERNATT'S GRAVEL WASHING OPERATION, SETTLING PONDS.

TO AID IN THE EVALUATION OF COVER PERFORMACE, WATER LEVELS FROM FIVE (5) INFILTROMETERS ARE ALSO MONITORED. LOCATIONS OF MONITORING POINTS ARE SHOWN ON FIGURE 2. THE RESULTS CONTINUE TO INDICATE THAT THE COVER SYSTEM IS PERFORMING AS PLANNED. THESE SHOWED MINIMAL INFILTRATION FOR THIS SAMPLING EVENT; TABLE #4.

THE VILLAGE IS ONCE AGAIN USING ITS' DEEP WELLS FOR A WATER SOURCE, DUE TO FLOODING AND SILTATION OF ITS' RESERVIOR. THIS WILL EFFECT WATER LEVELS IN THE DEEP MW-1D, SUCH THAT THE HYDRO-GEO FLOW IN THAT AREA HAS REVERSED, AWAY FROM THE CREEK.

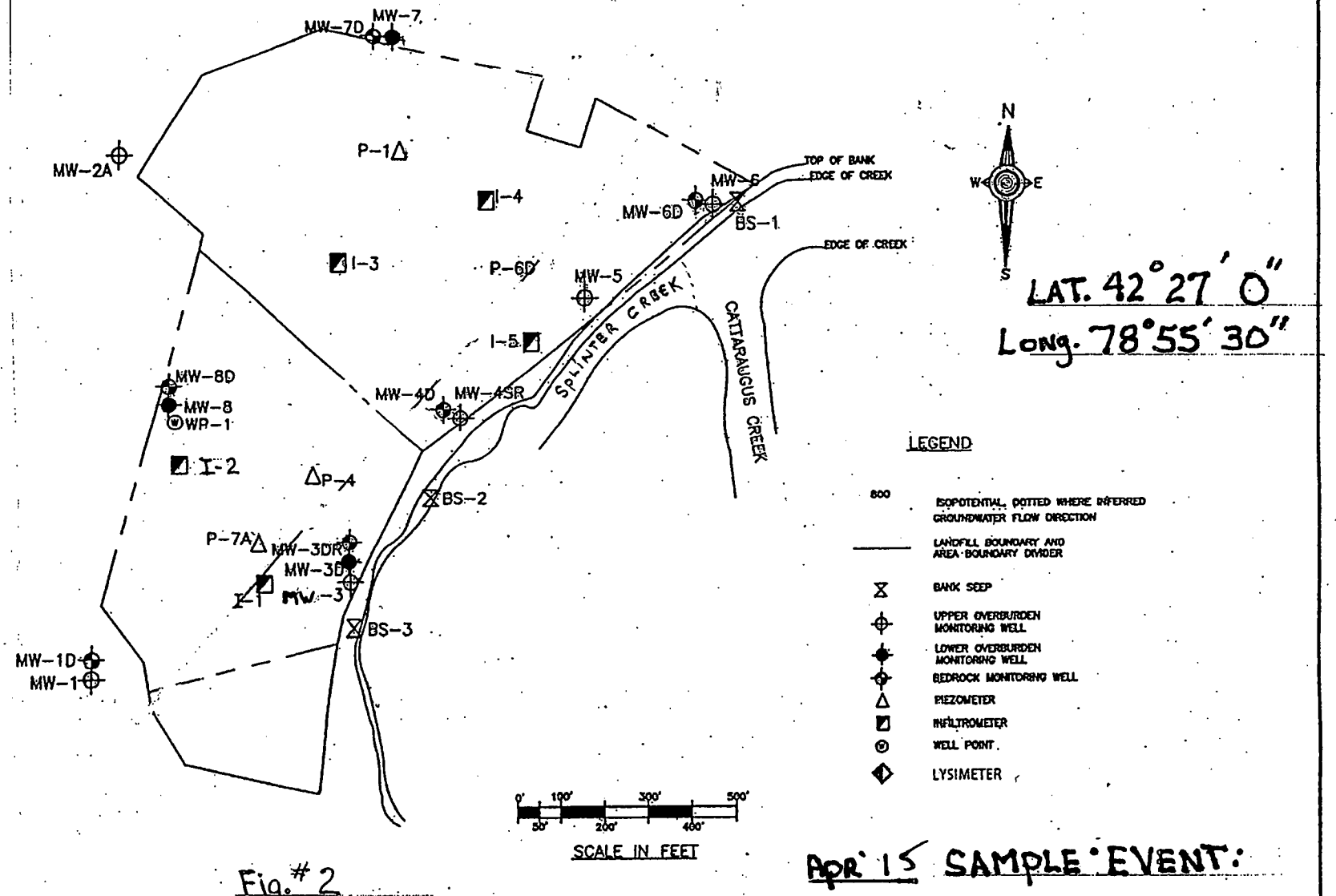


Fig. # 2

APR '15 SAMPLE EVENT:

GEI Consultants, Inc. Williamsville, NY	PALMER STREET LANDFILL SITE PLAN	DATE DEC 11	PROJ. NO. 8104
		FILE NO. N/A	DWG. NO. FIGURE 1.2

3.0 MONITORING METHODS

3.1 GROUNDWATER MONITORING -LANDFILL

SAMPLES COLLECTED DURING THE APRIL 2015, MONITORING EVENT PERIOD, WERE COLLECTED BY MOENCH COMPANY PERSONNEL, AND ANALYZED BY ISLECHEM LLC, GRAND ISLAND, NEW YORK. THE ANALYSIS IS PERFORMED IN ACCORDANCE WITH THE SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR THE PALMER STREET LANDFILL (REFERENCE 3). LABORATORY ANALYSIS WERE PERFORMED IN ACCORDANCE WITH THE USEPA 200.7 FOR METALS & VOC 8260. THE MONITORING PARAMETERS ARE LISTED IN TABLE 1. SAMPLES WERE NOT AVAILABLE FROM TWO WELLS AND TWO BANK SEEPS, IDENTIFIED IN SECTION 2.0.

PRIOR TO SAMPLING, STATIC WATER LEVEL ELEVATIONS WERE MEASURED IN THE MONITORING WELLS AND THE WELLS WERE PURGED (SEE TABLE 2. GROUNDWATER ELEVATIONS WERE ALSO MEASURED IN THE PIEZOMETERS, INFILTROMETERS, AND WELLS ON-SITE.

FIELD SAMPLES WERE COLLECTED AND MEASURED FOR THE FIELD PARAMETERS IDENTIFIED IN TABLE 1. THE FIELD MEASUREMENTS ARE SUMMARIZED IN TABLE #3.....

3.2 INFILTROMETER MONITORING

FIVE INFILTROMETERS HAVE BEEN INSTALLED BENEATH THE LANDFILL CAP TO AID IN THE ASSESSMENT OF PERFORMANCE OF THE CAP. DURING EACH SAMPLING EVENT, WATER LEVELS IN THE INFILTROMETER ARE MEASURED AND THE AMOUNT OF WATER INFILTRATING CALCULATED. NOTE: IT IS BELIEVED THAT INFILTROMETER #1, IS OFTEN FLOODED DUE TO NEIGHBORING SPRINGS AND GRAVEL SETTLING PONDS. THIS CREATES A HIGH WATER TABLE, IN THE SOUTH END OF AREA #2.

A SCHEMATIC SHOWING THE DESIGN AND DIMENSIONS OF THE INFILTROMETERS IS PRESENTED IN APPENDIX "B".

TABLE 1

MOENCH TANNING COMPANY
PALMER STREET LANDFILL

MONITORING PARAMETERS *Twice/year

Soluble Arsenic[1]
Soluble Chromium[1]
Soluble Lead[1]

Volatile Organics[2][3]

pH[4]
Specific Conductance[4]
Turbidity[4] – Visual
Groundwater Elevation[4]
Temperature[4]
Odor[4]
Sample Appearance[4]

Notes:

1. *All samples collected for analysis of soluble metals are pressure-filtered in the field immediately upon sample collection.*

2. *The list of VOC analytes are those compounds included in SW-846, Method 8260.*

3. *Analysis for VOCs are not performed on pore water samples during performance monitoring events.*

4. *Field parameters (i.e., pH, specific conductance, temperature and turbidity) are measured in the field by sampling personnel. Laboratory analysis of these parameters will not be required.*

MOENCH COMPANY
465 PALMER ST.
GOWANDA, NY 14070

SAMPLERS M. Best

PALMER STREET LANDFILL :

DATE 3-30-15

GROUNDWATER ELEVATIONS: (TABLE #2)

WP. WHALE PUMP – DEDICATED

WELL #	ELEVATION TOP OF PVC(FT)	TOTAL DEPTH FROM TOP OF PVC(FT)	WATER DEPTH(FT) FROM TOP OF PVC	WATER(FT) ELEVATION
MW-1	826.05 ASL	31.90 (8-12)	4.10	821.95
MW-1D	827.82	188.20 "	69.45	758.37
MW-2A	810.62	16.15 "	2.75	807.87
MW-3	810.81	17.10 "	15.70	795.11
MW-3D	810.73	67.70 "	19.90	790.83
MW-3DR	810.47	102.30 "	22.10	788.37
MW-4 SR	806.75 WP	24.92 "	12.00	794.75
MW-4D	805.93	74.94 "	14.30	791.63
MW-5	805.35	18.15 "	18.15	787.20
MW-6	800.48 WP	18.78 "	14.80	785.68
MW-6D	800.63	37.03 "	17.70	782.93
MW-7	800.50	30.60 (8-12)	6.85	793.65
MW-7D	800.39	41.90 "	5.65	794.74
MW-8	821.82	15.96 "	15.96	805.86
MW-8D	821.89 WP	127.70	40.10	781.79

INFILTROMETERS:

#1	9.00	4.55	—
#2	8.80	7.25	—
#3	9.00	6.80	—
#4	8.92	6.20	—
#5	9.00	7.00	—

(TABLE #2) continued

Palmer st. Landfill

smpl date 3/30/15

GROUNDWATER ELEVATIONS:

WELL #	ELEVATION TOP OF PVC(FT)	TOTAL DEPTH FROM TOP OF PVC,(FT)	WATER DEPTH(FT) FROM TOP OF PVC	WATER (FT) ELEVATION
P-1	811.85 ASL	18.30 (8/12)	16.30	795.55
P-4	813.54 "	19.70 "	14.75	798.79
P-6D	810.30 "	61.25 "	19.10	791.20
P-7A	816.92 "	23.90 "	19.40	797.52
WP-1	822.16 "	11.71 MW8	8.45	813.71

NOTE:

Aug 2012 ALL WELLS "DEVELOPED"

REV'd 9/12

~~Revised 2/12~~

4.0 GROUNDWATER QUALITY MONITORING RESULTS:

4.1 EVALUATION OF GROUNDWATER ELEVATION DATA:

GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN AT EACH OF THE ACCESSIBLE ON-SITE MONITORING WELLS, PIEZOMETERS, AND WELL POINTS, DURING THE APRIL 2015, MONITORING EVENT. THE DATA ARE SUMMARIZED IN TABLE 2/3.

PLOTS OF THE GROUNDWATER ELEVATIONS MEASURED IN THE MONITORING WELLS WITH RESPECT TO TIME ARE PRESENTED IN FIGURE 3,4, AND 5, FOR THE SHALLOW OVERBURDEN, DEEP OVERBURDEN AND BEDROCK WELLS, ON THE LANDFILL, RESPECTIVELY. AS SHOWN IN FIGURES 3 AND 4, OVERBURDEN GROUNDWATER ELEVATIONS WERE GENERALLY CONSISTENT, THROUGHOUT THE MONITORING PERIOD. WATER LEVELS HAVE STABLIZED, AFTER THREE YEARS OF INCREASES.('92-'94). THIS OCCURRED DUE TO CESSATION OF VILLAGE AND TANNERY PUMPING OF THE DEEP AQUIFERS. SOME SLIGHT SEASONAL FLUCTUATION DOES OCCUR. IN AUGUST, 2009, A DRAMATIC FLOOD OCCURRED IN THE GOWANDA AREA, THAT DISABLED THE VILLAGE RESERVIOR FOR AN EXTENDED TIME. VILLAGE IS AGAIN USING ITS' DEEP WELL FOR WATER.

4.2 THE GROUNDWATER AND SURFACE WATER QUALITY RESULTS FOR THE APRIL 2015, MONITORING EVENTS, AT THE PALMER STREET LANDFILL, ARE PRESENTED IN TABLES #3 THROUGH #5.

"GA" STANDARDS & GUIDANCE VALUES ARE ALSO PRESENTED.

BOTH THE SOIL AND WASTE AT THE PALMER STREET LANDFILL CONTAIN METALS-OF-INTEREST AS A COMPONENT OF THE SOIL OR WASTE PARTICLES (REFERENCE 5). THEREFORE, THE SEDIMENT (OR TURBIDITY) CONTENT OF ANY GROUNDWATER OR SURFACE WATER QUALITY SAMPLES WILL DIRECTLY IMPACT THE TOTAL METAL CONCENTRATION OF THE SAMPLES. THE TURBIDITY CONTENT OF THE GROUNDWATER SAMPLES COLLECTED AT THE SITE IS EXTREMELY VARIABLE AND RELATIVELY HIGH BECAUSE THE SOIL AND WASTE FILL BOTH CONTAIN HIGH PERCENTAGES OF FINE-GRAINED PARTICLES. AS NYSDEC HAS PREVIOUSLY AGREED, IN ORDER TO AVOID MISINTERPRETATION OF WATER QUALITY DATA, TOTAL METALS WILL NO LONGER SAMPLED FOR GROUNDWATER QUALITY STANDARDS OR EVALUATIONS, OF GROUNDWATER QUALITY IMPACTS WILL BE BASED ON SOLUBLE METAL CONCENTRATIONS.

ALSO, BARIUM IS NO LONGE ANALYZED FOR DUE TO ITS' NATURAL PRESENCES IN THE NATIVE SOIL, AT HIGH CONCENTRATIONS.

I SHOULD BE NOTED THAT SEVERAL ON THE "ADDED" MONITORING WELL, ARE SCREENED IN THE WASTE. SUMMARY OF THE SAMPLING RESULTS IS AS FOLLOWS:

--THERE WAS NO DETECTION OF ANY METALS ABOVE THE CLASS "GA" STANDARDS.
--THERE WERE NO DETECTIONS OF ANY VOCs, AT ANY SAMPLE LOCATION, EXCEPT A SLIGHT ACETONE DETECTION AT MW4SR & MW-3D.
--Ph CONTINUES TO BE BELOW "NEUTRAL" AT MW-4S AND MW-6.

TABLE 3

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT

SUMMARY OF FIELD MEASUREMENTS — INITIAL

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Conductance[1] (umhos/cm)	Turbidity NA	Sample Appearance	Sample Odor
* MW-3	4-1-15	1200	(NO SAMPLE - DRY)			NA	—	—
*** MW-3D	"	1210	19.0	7.22	380	"	CLEAR	NO
* MW-4SR	"	1055	9.7	6.41	700	"	CLEAR	FINISH
*** MW-4D	"	1125	16.3	7.14	650	"	CLEAR	FINISH
* MW-5	"	—	(NO SAMPLE - DRY)			"	—	—
* MW-6	"	1035	11.9	6.71	1400	"	BLK-TURB	NO
*** MW-6D	"	1007	13.8	7.61	1200	"	CLEAR	NO
*** MW-7D	"	1340	8.0	7.47	580	"	CLEAR	NO
** MW-8D	"	1300	19.8	7.10	500	"	CLEAR	NO
BS-1	"	1050	(NO SAMPLE - NO SEEP)			"	—	—
BS-2	"	1110	(NO SAMPLE - NO SEEP)			"	—	—
BS-3	"	1240	9.0	7.01	800	"	RED-IRON	NO

6.5-8.5 (STD)

NOTES:

(1) Conductivity readings corrected to 25°C.
(2) Blind Duplicate MW-3D
(3) MW-7D is apparent hydraulically upgradient bedrock well.

* Shallow Overburden Well
** Upgradient
*** Bedrock Well
BS Bank Seep

TABLE 4

MOENCH COMPANY
PALMER STREET LANDFILL
MONITORING EVENT

3-31-15 **INFILTROMETER MEASUREMENTS**

Infiltrometer	Static Water Level (ft) 3-30-15	Static Water Level (ft) 8-4-14	Δ Depth-gal (ft)	# Days Between Readings (#)	Infiltration Rate gal/day.ft²	Infiltration Rate (cm/sec)	Approx. Total Rainfall This Period (ft)	Infiltration (%)
I-1 Ⓐ	4.55	4.63	.08	236	.0002	1.0×10^{-8}	2.52	.5 %
I-2	7.25	7.34	.09	"	.0002	1.0×10^{-8}	"	.5
I-3	6.80	6.45	—	"	—	—	"	—
I-4	6.20	6.38	.18	"	.0004	2.0×10^{-8}	"	1.0
I-5	7.00	7.13	.13	"	.0003	1.4×10^{-8}	"	.7

Note:
** Negative ΔD precludes calculation of meaningful data.

Ⓐ I-1 OFTEN FLOODED BY NATURAL SPRINGS & WASH PONDS, UPGRADIENT.

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

	Quantitation Limit	** MW-3	MW-3D	** MW-4SR	MW4D	** MW-5	** MW-6	MW-6D	Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	DRY	.005	ND	ND	DRY	ND	ND	.025mg/L
Chromium - Soluble	0.005	NO	ND	.01	ND	NO	ND	ND	.05
Lead - Soluble	0.005	SMPL	ND	ND	ND	SMPL	ND	ND	.025
VOLATILES mg/L		-	-	-	ND	-	ND	ND	
ACETONE		-	.016	.154	"	-	"	"	GUID. VALUE = .05mg/L
		-	-	-	"	-	"	"	
		-	-	-	"	-	"	"	

** Screened in Waste/Overburden.

Blind Duplicate _____

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS MW-3D

	Quantitation Limit	MW-7D	MW-8D	BS-1	BS-2	BS-3	Blind Duplic		Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	ND	ND	ND	ND	ND	.006		.025mg/l
Chromium - Soluble	0.005	ND	ND	BANK	BANK	ND	ND		.05
Lead - Soluble	0.005	ND	ND	Seep	Seep	ND	ND		.025

VOLATILES mg/L		ND	ND	—	—	ND	ND		
ACETONE		—	—	—	—	—	—		GUID. VALUE = .05 mg/L
		—	—	—	—	—	—		
		—	—	—	—	—	—		

5.0 GROUNDWATER FLOW

A WATER TABLE ISOPOTENTIAL MAP, BEDROCK ISOPOTENTIAL MAP AND A BEDROCK WATER LEVEL HYDROGRAPH HAVE BEEN PREPARED FOR THE PALMER STREET LANDFILL AND ARE PRESENTED IN FIGURES 3,4 AND 5, RESPECTIVELY. GROUNDWATER ELEVATIONS MEASURED ON MARCH 30TH, 2015. WERE USED IN PREPARING THE WATER TABLE AND BEDROCK ISOPOTENTIAL MAP. THEY INDICATE THAT THE SHALLOW GROUNDWATER FLOW IS PRIMARILY TO THE EAST, TOWARD CATTARAUGUS CREEK. THE BEDROCK ISOPOTENTIAL MAP AND THE BEDROCK WATER LEVEL HYDROGRAPH ILLUSTRATE A "LEVELING OFF" AFTER 3 YEARS('92-94) OF RISING GROUNDWATER LEVELS AT WELLS MW-1D, MW-3DR AND MW-8D. MW-1D AND MW-8D, WHICH WERE FORMERLY(BEFORE '92) DOWNGRADIENT WELLS, ARE NOW UPGRADIENT OF THE LANDFILL.

AS MENTIONED PRIOR, THE VILLAGE HAS HAD TO USE THE DEEP AQUIFER, FOR A WATER SUPPLY SOURCE 2009-2012. THIS HAS HAD AN EFFECT ON THE WATER LEVELS IN THE BEDROCK WELLS, AND SOME EFFECT ON THE GROUNDWATER FLOW.THE VILLAGE IS AGAIN USING THE DEEP WELL FOR A WATER SOURCE, SUCH THAT THE HYDRO-GEO FLOW, AT MW-1D, HAS REVERSED, AND IS NOW AWAY FROM CATTARAUGUS CREEK.

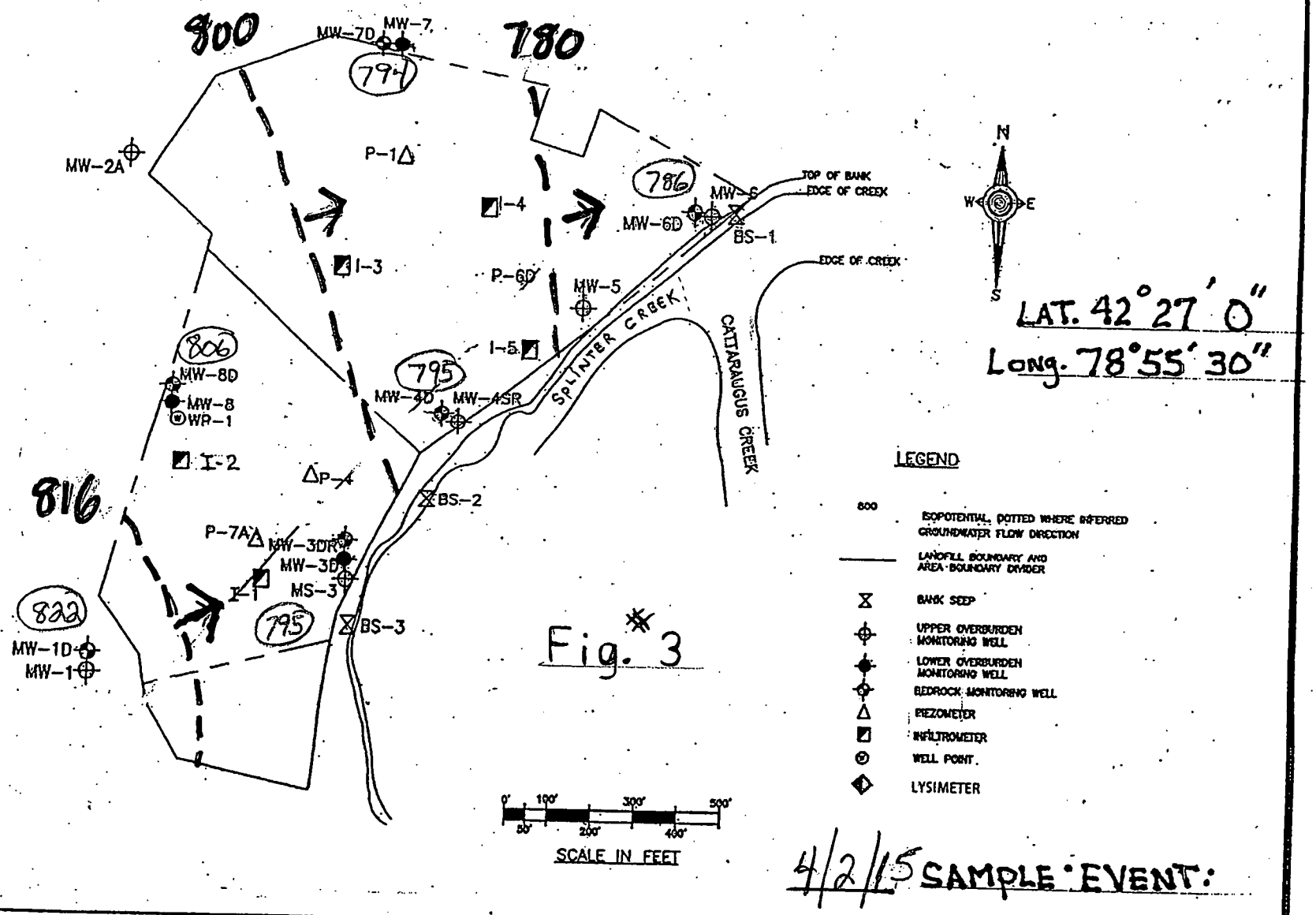


Fig. 3

4/2/15 SAMPLE EVENT:

AMEX
GeoMatrix Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP

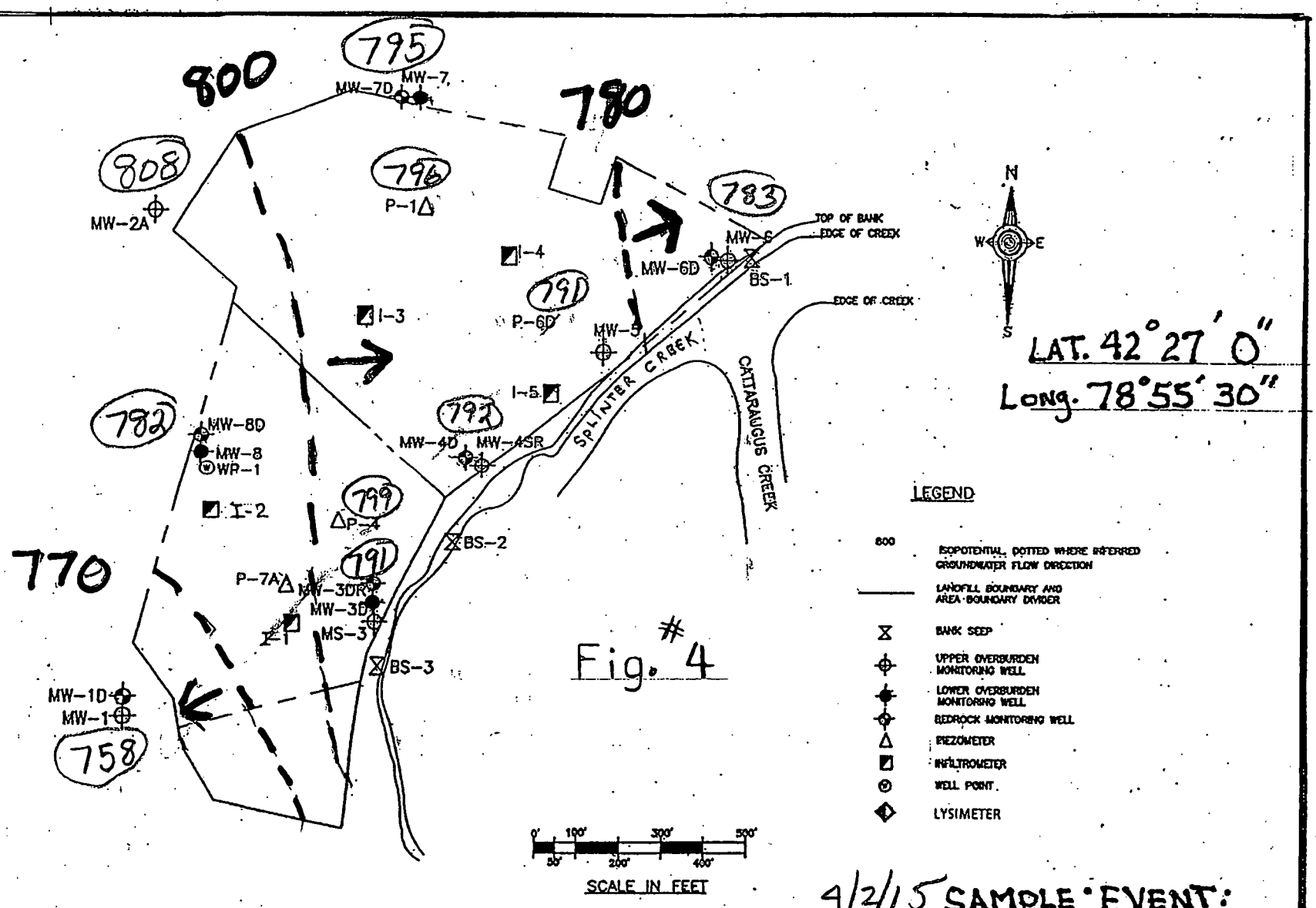


Fig. # 4

4/2/15 SAMPLE EVENT:

AMEX Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.

PALMER STREET LANDFILL
MOENCH COMPANY
GROUNDWATER ELEVATION vs TIME
BEDROCK MONITOR WELLS & PIEZOMETERS

(FIG.#5)

Apr. '15

FIG. #5

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Oct-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-3DR	773	773	773	773	772	775	787	775	777	777	778	783	786	789	792	794	797	797	799	799	800	800	799
MW-7D	795	794	794	795	795	794	794	795	793	792	792	793	793	792	790	793	792	791	793	794	794	793	794
MW-8D	768	768	767	767	763	770	773	771	773	772	776	786	790	794	798	798	802	803	804	804	805	805	804
MW-1D					743	762	765	752	756	758	776	795	798	801	802	807	811	810	810	813	814	809	810
MW-6D					783	781	787	781	781	781	782	782	781	781	781	782	784	780	782	782	784	781	781
P-6D					790	790	790	790	790	790	790	789	789	789	789	789	789	785	789	789	789	790	790

PLMRGW3.xlsx.xls

Apr. 15

(FIG #5)

Fig. #5

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar-01	Aug-01	Apr.-02	Aug.-02	Mar. '03	Aug. '03	MAR. '04	AUG. '04
MW-3DR	798	801	800	801	801	802	802	803	799	799	801	801	801	802	803	803	800	803	803	802	803	804	803
MW-7D	795	795	794	794	795	795	796	798	795	795	795	795	795	795	795	797	796	796	796	796	796	797	796
MW-8D	805	805	805	805	806	807	808	809	800	803	805	807	806	808	808	809	808	809	809	808	809	809	809
MW-1D	812	813	813	814	815	816	816	818	795	806	813	818	814	816	816	818	817	819	819	817	818	818	819
MW-6D	779	782	782	783	782	782	783	782	781	782	783	781	781	783	783	783	782	783	782	784	782	783	780
P-6D	788	790	790	791	791	791	791	792	792	790	791	791	791	792	792	792	792	793	793	793	792	793	792

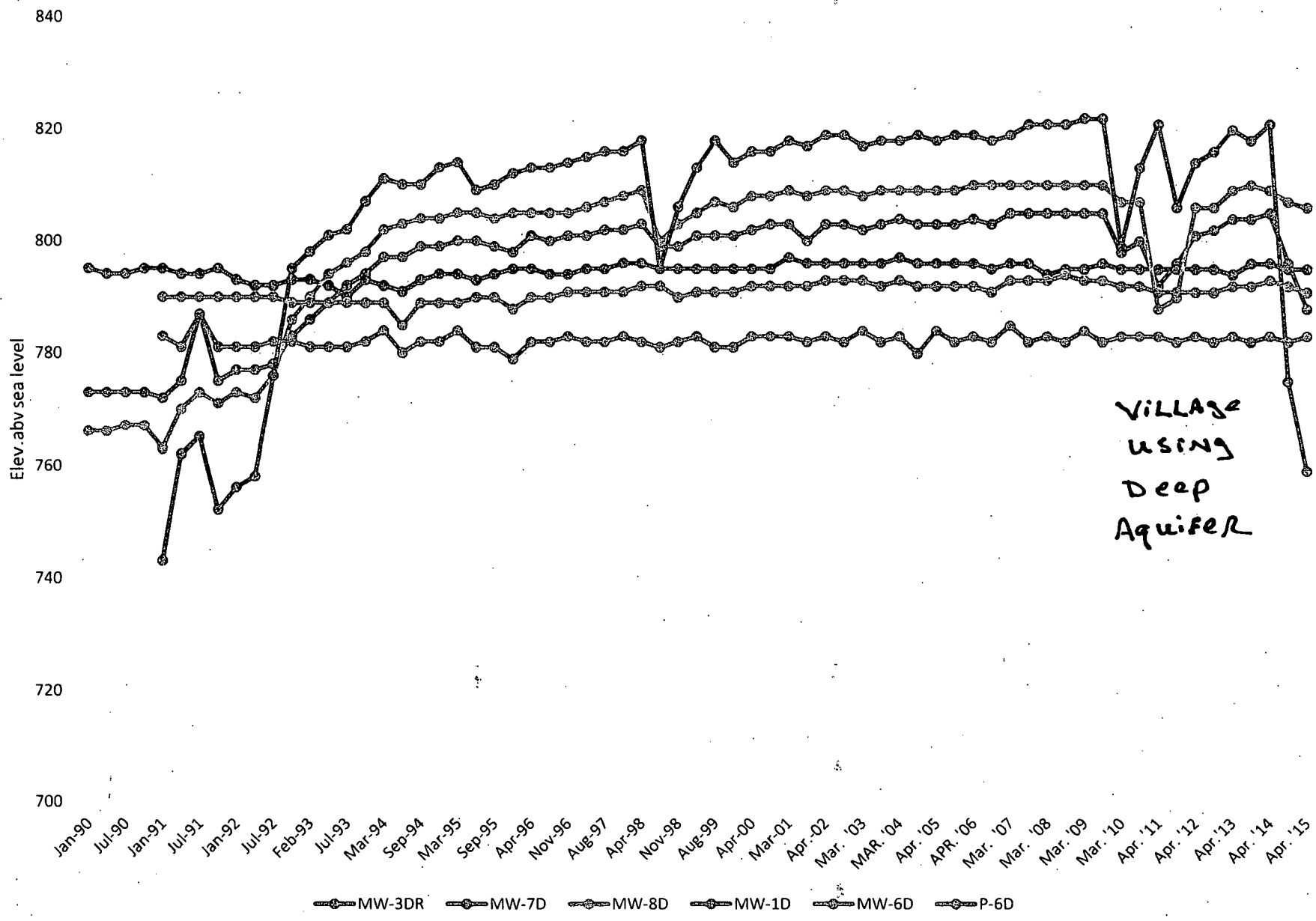
PLMRGW3.xlsx.xls

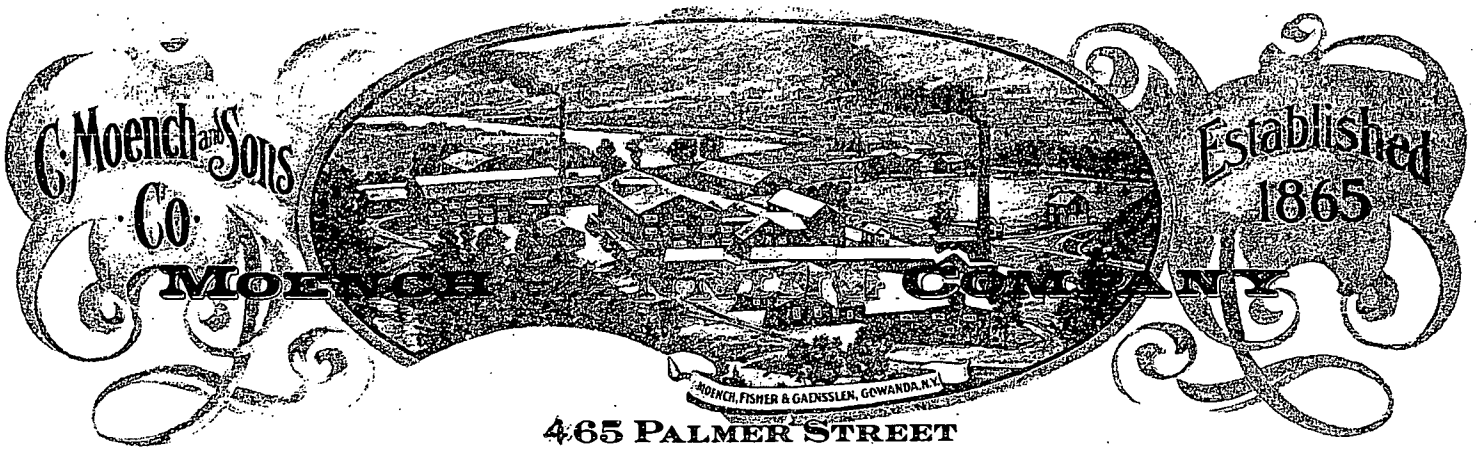
Apr. 15

FIG. #5

	Apr. '05	Aug. '05	APR. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	Aug. '10	Apr. '11	Aug. '11	Apr. '12	Aug.'12	Apr.'13	July '13	Apr. '14	Aug. '14	Apr. '15
MW-3DR	803	803	804	803	805	805	805	805	805	805	798	800	792	796	801	802	804	804	805	796	788
MW-7D	796	796	796	795	796	796	794	795	795	796	795	795	795	795	795	795	794	796	796	795	795
MW-8D	809	809	810	810	810	810	810	810	810	810	807	807	788	790	806	806	809	810	809	807	806
MW-1D	818	819	819	818	819	821	821	821	822	822	799	813	821	806	814	816	820	818	821	775	759
MW-6D	784	782	783	782	785	782	783	782	784	782	783	783	783	782	783	782	783	782	783	782	783
P-6D	792	792	792	791	793	793	793	794	793	793	792	792	791	791	791	791	792	792	793	792	791

**MW-8D depth measured at MW8; after April 2011


Palmer L/fill; bedrock elevation
840
820
800
780
760
740
720
700
Elev. abv sea level
Jan-90
Jul-90
Jan-91
Jul-91
Jan-92
Jul-92
Feb-93
Jul-93
Mar-94
Sep-94
Mar-95
Sep-95
Apr-96
Nov-96
Aug-97
Apr-98
Nov-98
Aug-99
Apr-00
Mar-01
Apr. 02
Mar. '03
MAR. '04
Apr. '05
APR. '06
Mar. '07
Mar. '08
Mar. '09
Mar. '10
Apr. '11
Apr. '12
Apr. '13
Apr. '14
Apr. '15
MW-3DR
MW-7D
MW-8D
MW-1D
MW-6D
P-6D
VILLAGE USING DEEP AQUIFER



465 PALMER STREET
GOWANDA, NEW YORK 14070

TEL. 716-532-2201 FAX 716-532-5518

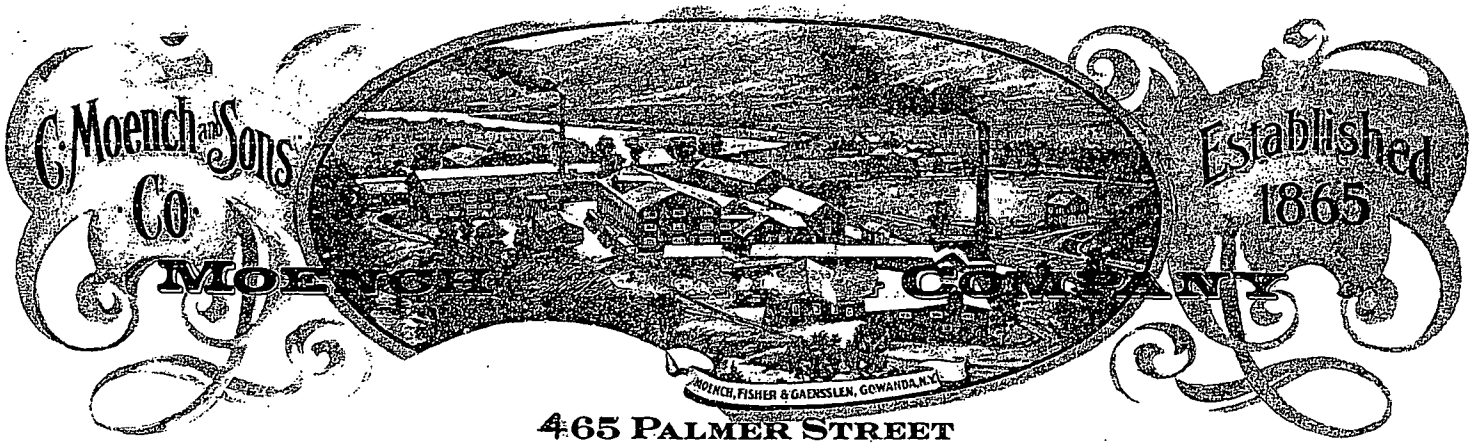
TABLE #8

PALMER STREET LANDFILL
GROUNDWATER MONITORING

calibrated by: MB

RECORD OF CALIBRATION:

Instrument:	date	reading b~~e~~fore - ~~after~~	Test
Slope-Water Level Indicator			Probe response to water.
Grace-Conductivity meter	3/31	1900	Read standardize liquid & calibrate. zero calibrate.
Cole-Parmer(multi meter)			
Ph---	MB 3/31	7.03	Calibrate to buffer(s) solutions. 7ph- 10ph-
	MB 3/31	10.09	
Temperature			Calibrate to standard thermometer.



465 PALMER STREET
GOWANDA, NEW YORK 14070

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revised 8/06

TABLE #7

Apr. 2015

PALMER STREET LANDFILL
GROUNDWATER MONITORING

EQUIPMENT INVENTORY:

(A) Slope Indicator Co. - Model 51453, water level indicator

(B) W.R. Grace (Dearborn) - Model EP-10, Micromhos meter (conductivity)

(C) Cole-Parmer Instrumentation Co. - Model 5985-80, Ph, temperature °C , with probes.

~~(D) Grundfos Purging System.~~ -Hose, VFD, Generator.

(E) Norton Company - Part #865-3170, Posi-Filter for filtering dissolved metals with filters. And vacuum pump/flask.

(F) Wash bucket (5 gallon) with Alconox soap.

(G)Rinse bucket with D.I. water. -buy 10 gal. distilled at store.
-get 2 gal. lab certified, eqpt. blank.

(H)Rinse bottle with 10% Nitric Acid and water.

(I) five gallon bucket to measure volume purged.

(J) Latex gloves

(K) Required bottles and coolers and ice.

(L)Required field data forms.

(M) Cell Phone

(N) Watch

~~(O) Head Radio~~

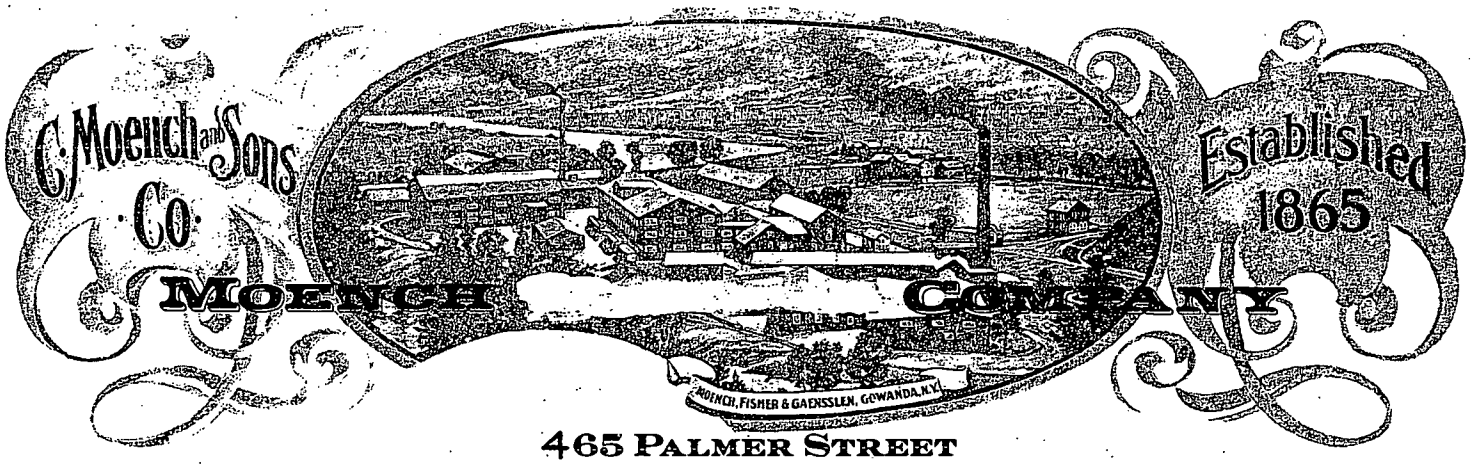
(P) Board to hold Meters & equipment

~~(Q) Liquid soap/water spray bees.~~

~~(R) Benedryl bee sting~~.

6.0 REFERENCES

1. PALMER STREET LANDFILL CLOSURE/POST CLOSURE PLAN (EPA ID. NYDOO2126910), PREPARED BY MALCOLM PIRNIE, INC. REVISED FEBRUARY 1989. REVISED DECEMBER 2006.
2. PALMER STREET LANDFILL, SUPPLEMENTAL HYDROGEOLOGIC INVESTIGATION, PREPARED BY MALCOLM PIRNIE, INC. JANUARY 1989.
3. SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR GROUNDWATER MONITORING - PALMER STREET LANDFILL. PREPARED BY MALCOLM PIRNIE, INC., AUGUST 1989. REVISED 12/2006.
4. TEST METHODS FOR EVALUATING SOLID WASTE, PHYSICAL/ CHEMICAL METHODS, THIRD EDITION, USEPA OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, NOVEMBER 1986.
5. PALMER STREET LANDFILL, EVALUATION OF ALTERNATIVE COVER SYSTEMS, PREPARED BY MALCOLM PIRNIE, INC., JANUARY 1989.
6. COVER SYSTEM PERFORMANCE EVALUATION, PALMER STREET LANDFILL; PREPARED BY MALCOLM PIRNIE, INC. OCTOBER 1995. Second "Evaluation"; 3/99. THIRD EVALUATION; 8/03.(LAST)
7. JULY 27TH, 2006 LETTER FROM GEOMATRIX TO STAN RADON (NYSDEC) DOCUMENTING A JULY 19TH MEETING IN WHICH REVISIONS TO THE GROUNDWATER MONITOIRNG SYSTEM, WERE AGREED UPON.
8. SEPTEMBER 7, 2006 LETTER FROM STAN RADON(NYSDEC) TO JEFFREY SMITH(MOENCH) CONFIRMING AGREEMENT OF REVISED GROUNDWATER MONITORING SYSTEM, AND COVER SYSTEM EVALUATION ELIMINATON.



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GOWANDA, NEW YORK 14070

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APPENDIX "A"

FIELD DATA SHEETS FOR:

April 1st, 2015

MONITORING EVENT:
PALMER STREET LANDFILL

WELL DEVELOPMENT/PURGING LOG

MOENCH COMPANY

PROJECT TITLE: PALMER ST. LANDFILL-GWM

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS 2015

STAFF: JEFF SMITH

DATE: 4/1/15, 1200

Dry
NO SMPL

WELL NO.: MW-3 {USUALLY DRY}

1	TOTAL CASING AND SCREEN LENGTH (ft.)	17.10
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	17.10
4	VOLUME OF WATER IN CASING (gal.)	

V = 0.0408 (^{2} x (1 - 3) = _____ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
pH										
APPEAR. TURBIDITY										
CONDUCTIVITY										
Temp °C										

COMMENTS:

Blind Dup

WELL DEVELOPMENT/PURGING ~~LOG~~

MOENCH CO. BLIND DUPLIC

PROJECT TITLE: PALMER St. LANDFILL - GWM

~~PROJECT NO.~~: 1ST OF 2 ANNUAL EVENTS. 2015

STAFF: J. Smith / M. Beg T

DATE: 9/1/15 / 1210

WELL NO.: MW-3D

1	TOTAL CASING AND SCREEN LENGTH (ft.)	67.70
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	19.90
4	VOLUME OF WATER IN CASING (gal.)	

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$V = 0.0408 (\quad ^2 \times (1 - 3) = 8.1$ gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.	2nd								
pH	7.21	7.22								
TURBID APPEAR.	clear	—								
CONDUCTIVITY	380	380								
TEMP °C	18.0	19.0								

COMMENTS:

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER St. L/FILL-GW/M TYPE OF SAMPLE: GROUNDWATER - GRAB

~~CLIENT~~: MOENCH CO. LOCATION NO.: MW-3D

~~JOB NO.~~: 1ST of 2 annual EVENTS ~~LAB SAMPLE NO.~~: 2015

WELL DATA: DATE: 4/1/15 TIME: 1210

Casing Diameter (inches): 2" Casing Material: PVC

Screened Interval (ft BGS): _____ Screen Material: PVC

Static Water Level Below TOR (ft): _____ Bottom Depth (ft): 67.70

Elevation Top of Well Riser: 810.73 Datum Ground Surface: _____

PURGING DATA: DATE: 4/1/15 TIME: Start: 1210 Finish: 1230

Method: SUPER NOVA - Pump 12V. Pumping Rate (gal/min): .5 gpm

Well Volumes Purged ($V=\pi R^2H/231$): _____ Was well purged dry? _____ Yes X No

Standing Volume (gal): 8 Was well purged below sand pack? ___ Yes X No

Volume Purged (gal): 17

Well I.D. (inches)	Volume (gal/ft)
(2)	(0.17)
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes _____ No X

Field Personnel: J. SMITH/M. BEST

SAMPLING DATA: DATE: 4/1/15 TIME: Start: 1230 Finish: 1235

Method: TEFLON BAILER Sampler: J. Smith/M Best

Present Water Level (ft): _____ Air Temperature (°F): 40

Depth of Sample (ft): _____ Weather Conditions: CLOUDY

Is sampling equipment dedicated to sample location? Yes * No _____

PRESERVATION DATA: DATE: 3/20/15 IsleChem TIME: Start: _____ Finish: _____

Filtered: * Yes _____ No Cool to 4°C: *

Preservative: _____ H_2SO_4 * HNO_3 _____ NaOH HCl Other

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: * Turbid: _____ Color: _____

Contains Sediment: _____ Odor: NO Other: _____

Temperature (°C): _____ pH: _____ Specific Conductivity (µmhos/cm): _____

Turbidity (NTU): _____ Other: _____

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH'd W/SOAP + WATER (3X). RINSED IN DISTIL'd WATER. RINSE WITH 10% NITRIC ACID WASH. FINAL RINSE W/ DISTIL'd WATER.

WELL DEVELOPMENT/PURGING LOG

Moench Co.

PROJECT TITLE: PALMER St. LANDFILL – GWM

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS. 2015

STAFF: J. Smith, M. Best

DATE: 4/1/15', 1055

WELL NO.: MW-4SR

1	TOTAL CASING AND SCREEN LENGTH (ft.)	24.92
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	12.00
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = 2.2$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
pH	6.51	6.41								
TUR. APPEARANCE	CLEAR/W	BLK SPECS								
CONDUCTIVITY	688	700				ONLY @ 1 VOL				
Temp °C	9.7									

COMMENTS:

2ND VOL VERY BLACK

? LOW DUE TO FROST SLOPE ?

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER St. LANDFILL-GWM
~~CLIENT~~: MOENCH CO.
~~JOB NO~~: 1ST of 2 Annual Events
TYPE OF SAMPLE: GROUNDWATER-GRAB
LOCATION NO.: MW-4SR
~~LAB SAMPLE NO~~.: 2015

WELL DATA: DATE: 4/1/15
Casing Diameter (inches): 2"
Screened Interval (ft BGS): _____
Static Water Level Below TOR (ft): _____
Elevation Top of Well Riser: 806.75 ASL
TIME: 1055
Casing Material: PVC
Screen Material: PVC
Bottom Depth (ft): 24.92
Datum Ground Surface: _____

PURGING DATA: DATE: 4/1/15
Method: DEDICATED BAILER
Well Volumes Purged ($V=\pi R^2H/231$): _____
Standing Volume (gal): 2.2
Volume Purged (gal): 4.0
TIME: Start: 1055 Finish: 1112
Pumping Rate (gal/min): 1.0
Was well purged dry? _____ Yes X No
Was well purged below sand pack? X Yes ___ No

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes * No _____
Field Personnel: J. Smith

SAMPLING DATA: DATE: 4/1/15
Method: DEDICATED BAILER
Present Water Level (ft): _____
Depth of Sample (ft): _____
Is sampling equipment dedicated to sample location?
TIME: Start: 1112 Finish: 1120
Sampler: J. Smith
Air Temperature (°F): 30
Weather Conditions: SUNY
Yes * No _____

PRESERVATION DATA: DATE: 3/20/15 IsleChem
TIME: Start: — Finish: —
Filtered: * Yes _____ No
Cool to 4°C: *
Preservative: _____ H_2SO_4 * HNO_3 _____ NaOH HCl Other

PHYSICAL AND CHEMICAL DATA:
Appearance: Clear: X Turbid: _____ Color: _____
Contains Sediment: _____ Odor: FINISH Other: BLACK SPECS
Temperature (°C): _____ pH: _____ Specific Conductivity (µmhos/cm): _____
Turbidity (NTU): _____ Other: _____

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH w/SOAP + WATER (3X). RINSED With DISTL'd WATER. RINSED With 10% NITRIC ACID WASH. FINAL RINSE w/DISTILL'd WATER.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS 2015

STAFF: JEFF SMITH / M. BEST

DATE: 4/1/15, 1125

WELL NO.: MW-4D

1	TOTAL CASING AND SCREEN LENGTH (ft.)	74.94
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	14.30
4	VOLUME OF WATER IN CASING (gal.)	

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$V = 0.0408 (\ ^{2} \times (1 - 3) = 10.3$ gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	1ST	2nd								
'PH'	7.27	7.14								
VISUAL TURBIDITY	clear	clear								
CONDUCTIVITY	700	650								
TEMP. °C	15.5	16.3								

COMMENTS: HAD TO HAND BALE. COULD NOT GET TRUCK CLOSE TO WELL; SOFT GROUND.

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. L/F - G.W.M. — TYPE OF SAMPLE: GROUND WATER
MOENCH CO. — LOCATION NO.: MW-4D
1ST OF 2 ANNUAL EVENTS — 2015

WELL DATA: DATE: 4/1/15 — TIME: 1125
Casing Diameter (inches): 2" — Casing Material: PVC
Screened Interval (ft BGS): — Screen Material: PVC
Static Water Level Below TOR (ft.): — Bottom Depth (ft.) 74.94
Elevation Top of Well Riser: 805.93 — Datum Ground Surface:
Elevation Top of Screen: 72.9

PURGING DATA: DATE: 4/1/15 — TIME: Start: 1125 Finish: 1148
Method: ELECTRIC PUMP - NOT DEDICT'd — Pumping Rate (gal/min): 1-2 gpm
Well Volumes Purged (πR²H/231): — Was well purged dry? Yes ___ No X
Standing Volume (GAL.) 10.3 — Was well purged below sand pack? Yes ___ No X
Volume Purged (GAL.) 22.0

Well I.D. (inches)	Volume (gal/ft)
(2)	(0.17)
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes ___ No *
Field Personnel: J.Smith / M.Best

SAMPLING DATA: DATE: 4/1/15 — TIME: Start: 1148 Finish: 1155
Method: DEDICATED BAILER — Sampler: JS / MB
Present Water Level (ft.): — Air Temperature (F°): 35
Depth of Sample (ft.): — Weather Conditions: SUNNY
Is sampling equipment dedicated to sample location: Yes * No ___
Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 3/20/15 IsleChem — TIME: Start: ___ Finish: ___
Filtered: Yes * No ___ — Cool to 4°C: *
Preservative: H_2SO_4 ___ HNO_3 * NaOH ___ Other HCl

PHYSICAL AND CHEMICAL
Appearance: Clear * Turbid: ___ Color: ___
Contains Sediment: ___ Odor: FINISH Other: ___
Temperature (°C): ___ pH ___ Specific Conductivity (μmhos/cm): ___
Turbidity (NTU): ___ Other: ___

E. FLASK +/OR

REMARKS: NA - NOT APPLICABLE. TEFLON BAILER USED FOR SAMPLE WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER/ RINSED WITH 10% NITRIC ACID WASH, THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - GWM

~~PROJECT NO.~~: 1ST OF 2 SAMPLES, ANNUALLY. 2015

STAFF: J. Smith

DATE: 4/1/15

Dry

No Sample

WELL NO.: MW-5 {USUALLY DRY}

			WELL I.D.	VOL. GAL./FT.
1	TOTAL CASING AND SCREEN LENGTH (ft.)	18.15	1"	0.04
2	CASING INTERNAL DIAMETER (in.)	2"	(2")	(0.17)
3	WATER LEVEL BELOW TOP OF CASING (ft.)	18.15	3"	0.38
4	VOLUME OF WATER IN CASING (gal.)		4"	0.66
			5"	1.04
			6"	1.50
			8"	2.60

$V = 0.0408 (\quad ^{2} \times (1 - 3) = \_\_\_\_ \text{ gal.}$

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
Ph										
TURBID APPEAR.										
CONDUCTIVITY										
TEMP °C										

COMMENTS:

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - GWM

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS. 2015

STAFF: J. Smith / M. Best

DATE: 9/1/15 ; 1035

WELL NO.: MW-6

1	TOTAL CASING AND SCREEN LENGTH (ft.)	18.78
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	14.80
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = .67$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
Ph	6.71									
TURBID. APPEAR.	TURBID BLACK									
CONDUCTIVITY	1400									
Temp °C	11.9									

ONLY 1 VOLUME VERY BLACK w/ PARTICLES

COMMENTS:

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER ST. LANDFILL
CLIENT: MOENCH CO.
~~JOB NO.~~: 1ST OF 2 ANNUAL EV.

TYPE OF SAMPLE: GROUNDWATER
LOCATION NO.: MW-6
~~LAB SAMPLE NO.~~: 2015

WELL DATA: DATE: 4/1/15

Casing Diameter (inches): 2"
Screened Interval (ft BGS): _____
Static Water Level Below TOR (ft): _____
Elevation Top of Well Riser: 800.48 ASL

TIME: 1035
Casing Material: PVC
Screen Material: PVC
Bottom Depth (ft): 18.78
Datum Ground Surface: _____

PURGING DATA: DATE: 4/1/15

Method: DEDICATED WHALE Pump
Well Volumes Purged ($V=\pi R^2H/231$): _____
Standing Volume (gal): .7
Volume Purged (gal): .7

TIME: Start: 1035 Finish: 1040
Pumping Rate (gal/min): 1.0
Was well purged dry? X Yes ____ No
Was well purged below sand pack? X Yes ____ No

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes X No ____
Field Personnel: J. Smith + MB

SAMPLING DATA: DATE: 4/1/15

Method: DEDICATED Pump
Present Water Level (ft): _____
Depth of Sample (ft): _____
Is sampling equipment dedicated to sample location?

TIME: Start: 1040 Finish: 1050
Sampler: J. Smith / MB
Air Temperature (°F): 30
Weather Conditions: SUNNY
Yes X No ____

PRESERVATION DATA: DATE: 3/20/15 Isle Chem

Filtered: * Yes ____ No
Preservative: ____ H_2SO_4 * HNO_3 ____ NaOH HCl Other

TIME: Start: ____ Finish: ____
Cool to 4°C: *

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: ____ Turbid: X
Contains Sediment: ____
Color: BLACK
Odor: ND Other: ____

Temperature (°C): ____ pH: ____ Specific Conductivity (µmhos/cm): ____
Turbidity (NTU): ____ Other: ____

REMARKS: DEDICATED BAILER FOR SAMPLE, & FILTER EQUIPMNT. WASHED (3X), RINSED with LAB GRADE WATER. RINSED w/ 10% NITRIC ACID WASH. FINAL RINSE D.I. WATER.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH / MIKE BEST

DATE: 4-1-15, 1007

WELL NO.: (1) MW-6D

1	TOTAL CASING AND SCREEN LENGTH (ft.)	37.03
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	17.70
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = 3.2$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
PH	7.53	7.61			ONLY 1 1/2 VOLUME BY LOW VOL					
TURBIDITY	CLEAR									
CONDUCTIVITY	1200	1200								
TEMP. °C	13.6	13.8								

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
MOENCH CO.
1 OF 2 ANNUAL EVENTS.

TYPE OF SAMPLE: GROUNDWATER
LOCATION NO.: MW-6D
2015

WELL DATA: DATE: 4/1/15 TIME: 1010

Casing Diameter (inches): 2 Casing Material: PVC
Screened Interval (ft BGS): NA Screen Material: PVC
Static Water Level Below TOR (ft.): Bottom Depth (ft.) 37.03
Elevation Top of Well Riser: 800.63 Datum Ground Surface:
Elevation Top of Screen: NA

PURGING DATA: DEDICATED DATE: 4/1/15 TIME: Start: 1017 Finish: 1020

Method: TEFLON BAILER-HAND Pumping Rate (gal/min): ~ 5gpm
Well Volumes Purged (ft^3/231): Was well purged dry? Yes ____ No X
Standing Volume (GAL.) 3.2 Was well purged below sand pack? Yes ____ No X
Volume Purged (GAL.) 5.0

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes * No ____

Field Personnel: JS + MB

SAMPLING DATA: DATE: 4/1/15 TIME: Start: 1020 Finish: 1028

Method: DEDIC. TEFLON BAILER-HAND Sampler: J.Smith / MB
Present Water Level (ft.): Air Temperature (F°): 30's
Depth of Sample (ft.): Weather Conditions: SUNNY
Is sampling equipment dedicated to sample location: Yes * No ____
Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 3/20/15 IsleChem TIME: Start: ____ Finish: ____

Filtered: Yes * No ____ Cool to 4°C: *
Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other HCl

PHYSICAL AND CHEMIC

Appearance: Clear: X Turbid: ____ Color: ____
Contains Sediment ____ Odor: N.D Other: ____
Temperature (°C): ____ pH ____ Specific Conductivity (µmhos/cm): ____
Turbidity (NTU): ____ Other: ____

REMARKS: E. FLASK +/OR TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS 2015

STAFF: JEFF SMITH / MIKE BEST

DATE: 4/1/2015 , 1340

WELL NO.: MW-7D

1	TOTAL CASING AND SCREEN LENGTH (ft.)	41.90
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	5.65
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\ ^{2} \times (1 - 3) = 6.2$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
"PH"	7.41	7.47								
TURBIDITY	clear									
CONDUCTIVITY	590	580								
TEMP. °C	8.0									

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
: MOENCH CO.
NO.: 1ST OF 2 ANNUAL EVENTS

TYPE OF SAMPLE: GROUND WATER
LOCATION NO.: MW-7D
NO.: - 2015

WELL DATA: DATE: 4/1/15 TIME: 1340

Casing Diameter (inches): 2
Screened Interval (ft BGS): 34 - 39
Static Water Level Below TOR (ft.):
Elevation Top of Well Riser: 800.39
Elevation Top of Screen: 763.50

Casing Material: PVC
Screen Material: PVC
Bottom Depth (ft.) 41.90
Datum Ground Surface:

PURGING DATA: DATE: 4/1/15 TIME: Start: 1340 Finish: 1355

Method: TEFLON BAILER - MANUAL
Well Volumes Purged (#R*N/Z3):
Standing Volume (GAL.) 6
Volume Purged (GAL.) 13

Pumping Rate (gal/min): .5 gpm
Was well purged dry? Yes ____ No X
Was well purged below sand pack? Yes X No ____

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes * No ____

Field Personnel: J. SMITH / M. BEST

SAMPLING DATA: DATE: 4/1/15 TIME: Start: 1355 Finish: 1414

Method: TEFLON BAILER
Present Water Level (ft.):
Depth of Sample (ft.):
Is sampling equipment dedicated to sample location: Yes * No ____
Source and type of water used in field for QC purposes: IsleChem LAB

Sampler: J.Smith / MBest
Air Temperature (F°): 40
Weather Conditions: SUNNY

PRESERVATION DATA: DATE: 3/20/15 IsleChem TIME: Start: ____ Finish: ____

Filtered: Yes * No ____
Cool to 4°C: *
Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other HCl

PHYSICAL AND CHEMICAL

Appearance: Clear: * Turbid: ____ Color: ____
Contains Sediment ____
Odor: NO Other: ____
Temperature (°C): ____ pH ____ Specific Conductivity (µmhos/cm): ____
Turbidity (NTU): ____ Other: ____

REMARKS: E. FLASK +/OR TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LAB. WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO. YEAR -

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS 2015

STAFF: JEFF SMITH

DATE: 4/1/15 ; 1300

WELL NO.: MW-8D

1	TOTAL CASING AND SCREEN LENGTH (ft.)	127.70
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	40.10
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = 14.9$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.	2nd								
"PH"	7.12	7.10								
TURBIDITY	clear	clear								
CONDUCTIV.	506	500								
TEMP. °C	19.7	19.8								

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
MOENCH COMPANY
1ST OF 2 ANNUAL EVENTS

TYPE OF SAMPLE: GROUND WATER-GRAB
LOCATION NO.: MW-8D
2015

WELL DATA: DATE: 4/1/15 TIME: 1300
Casing Diameter (inches): 2" Casing Material: PVC
Screened Interval (ft BGS): NA Screen Material: PVC
Static Water Level Below TOR (ft.): Bottom Depth (ft.) 127.70
Elevation Top of Well Riser: 821.89 Datum Ground Surface: —
Elevation Top of Screen: NA

PURGING DATA: DEDICATED DATE: 4/1/15 TIME: Start: 1300 Finish: 1330
Method: ELECTRIC Pump -80', 12V-Whale Pumping Rate (gal/min): 1-2 gpm
Well Volumes Purged (#"N/231): Was well purged dry? Yes ___ No X
Standing Volume (GAL.) 14.9 Was well purged below sand pack? Yes ___ No X
Volume Purged (GAL.) 25.0

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes * No ___
Field Personnel: JS / MB

SAMPLING DATA: DATE: 4/1/15 TIME: Start: 1330 Finish: 1570
Method: DEDICATE BAILER Sampler: JS / MB
Present Water Level (ft.): Air Temperature (F°): 40
Depth of Sample (ft.): Weather Conditions: SUNNY
Is sampling equipment dedicated to sample location: Yes * No ___
Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 3/20/15 IsleChem. TIME: Start: ___ Finish: ___
Filtered: Yes * No ___ Cool to 4°C: *
Preservative: H_2SO_4 ___ HNO_3 * NaOH ___ Other HCl

PHYSICAL AND CHEMICAL
Appearance: Clear: X Turbid: ___ Color: ___
Contains Sediment: ___ Odor: ND Other: ___
Temperature (°C): ___ pH ___ Specific Conductivity (μmhos/cm): ___
Turbidity (NTU): ___ Other: ___

E. FLASK +/OR

REMARKS: TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LAB. WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WATER SAMPLING FIELD DATA SHEETS BS-1

No Seep & no SAMPLE

PROJECT: PALMER ST. LANDFILL
MOENCH CO.
1ST OF 2 ANNUAL EVENTS. 2015

TYPE OF SAMPLE: SURFACE/GROUND WATER
LOCATION NO.: BS-1
(BANK SEEP SOUTH OF MW6)

WELL DATA: DATE: 4/1/15 TIME: 1050

Casing Diameter (inches): N/A
Casing Material: N/A
Screened Interval (ft BGS):
Screen Material:
Static Water Level Below TOR (ft.):
Bottom Depth (ft.)
Elevation Top of Well Riser:
Datum Ground Surface:
Elevation Top of Screen:

PURGING DATA: DATE: 4/1/15 TIME: Start: Finish:

Method: NA
Pumping Rate (gal/min): N/A
Well Volumes Purged (πr²h/231): NA
Was well purged dry? Yes No
Standing Volume (GAL.) NA
Was well purged below sand pack? Yes No
Volume Purged (GAL.) NA

NO BANK Seep

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

CALC RUN 8.1

Is purging equipment dedicated to sample location?
Yes * No

Field Personnel: JS

MAX PUMP TOO SAMPLE CREEK

SAMPLING DATA: DATE: TIME: Start: Finish:

Method: SURFACE WATER GRAB
Sampler: J.Smith
Apparent Water Level (ft.): NA
Air Temperature (F°):
Depth of Sample (ft.): NA
Weather Conditions:
Is sampling equipment dedicated to sample location: Yes * No
Source and type of water used in field for QC purposes: Islechem LAB

PRESERVATION DATA: DATE: 3/20/15 Islechem TIME: Start: Finish:

Filtered: Yes * No
Cool to 4°C: *
Preservative: H_2SO_4 HNO_3 * NaOH Other HCl

PHYSICAL AND CHEMIC

Appearance: Clear: Turbid:
Contains Sediment
Color:
Odor: Other:
Temperature (°C): pH
Specific Conductivity (μmhos/cm):
Turbidity (NTU):
Other:

E. FLASK +/OR

REMARKS: NA - NOT APPLICABLE - TEFLON BAILER USED FOR SAMPLE WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER - RINSED WITH 10% NITRIC ACID WASH, FINAL RINSE WITH LAB. GRADE WATER, PRIOR TO EACH USE.

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER ST. LANDFILL
~~CLIENT~~: MOENCH CO.
~~JOB NO.~~: 1ST OF 2 ANNUAL EV.

TYPE OF SAMPLE: GROUNDWATER - GRAB
LOCATION NO.: BS-2
~~LAB SAMPLE NO.~~: 2015

WELL DATA: DATE: 4/1/15

Casing Diameter (inches): _____
Screened Interval (ft BGS): ND
Static Water Level Below TOR (ft): SEE
Elevation Top of Well Riser: _____

TIME: _____
Casing Material: NO SCREEN
Screen Material: SAND
Bottom Depth (ft): ND
Datum Ground Surface: _____

PURGING DATA: DATE: NA

Method: _____
Well Volumes Purged ($V=\pi R^2H/231$): _____
Standing Volume (gal): _____
Volume Purged (gal): _____
Is purging equipment dedicated to sample location? Yes _____ No _____
Field Personnel: _____

TIME: Start: _____ Finish: _____
Pumping Rate (gal/min): _____
Was well purged dry? _____ Yes _____ No
Was well purged below sand pack? _____ Yes _____ No

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

SAMPLING DATA: DATE: _____

Method: GRAB
Present Water Level (ft): _____
Depth of Sample (ft): _____
Is sampling equipment dedicated to sample location? Yes _____ No *

TIME: Start: _____ Finish: _____
Sampler: J. Smith
Air Temperature (°F): _____
Weather Conditions: _____

PRESERVATION DATA: DATE: 3/20/15 IsleChem TIME: Start: _____ Finish: _____

Filtered: * Yes _____ No
Cool to 4°C: *
Preservative: _____ H_2SO_4 * HNO_3 _____ NaOH HCL ~~Other~~

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: _____ Turbid: _____ Color: _____
Contains Sediment: _____ Odor: _____ Other: _____
Temperature (°C): _____ pH: _____ Specific Conductivity (umhos/cm): _____
Turbidity (NTU): _____ Other: _____

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH W/SOAP + WATER (3X). RINSED W/ DISTL'd WATER. RINSE WITH 10% NITRIC ACID WASH. FINAL RINSE W/ DISTL'd WATER.

WATER SAMPLING FIELD DATA SHEETS BS-3

PROJECT: PALMER ST. LANDFILL — TYPE OF SAMPLE: SURFACE/GROUND WATER
MOENCH CO. — LOCATION NO.: BS-3 (BANK SEEP
1ST OF 2 ANNUAL EVENTS 2015 : SOUTH OF MW-3)

WELL DATA: DATE: 4/1/15 — TIME: 1240
Casing Diameter (inches): NA — Casing Material: N/A
Screened Interval (ft BGS): — Screen Material:
Static Water Level Below TOR (ft.): — Bottom Depth (ft.)
Elevation Top of Well Riser: — Datum Ground Surface:
Elevation Top of Screen:

PURGING DATA: DATE: — TIME: Start: [illegible] Finish: [illegible]
Method: NA — Pumping Rate (gal/min): N/A
Well Volumes Purged ($\pi r^2 h/231$): NA — Was well purged dry? Yes ___ No ___
Standing Volume (GAL.) NA — Was well purged below sand pack? Yes ___ No ___
Volume Purged (GAL.) NA

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes X No ___
Field Personnel: J.Smith/M. Best

SAMPLING DATA: DATE: 4/1/15 — TIME: Start: 1240 Finish: 1250
Method: SURFACE WATER GRAB — Sampler: J.Smith
Present Water Level (ft.): NA — Air Temperature (F°):
Depth of Sample (ft.): NA — Weather Conditions:
Is sampling equipment dedicated to sample location: Yes * No ___
Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 3/20/15 IsleChem — TIME: Start: ___ Finish: ___
Filtered: Yes * No ___ — Cool to 4°C: *
Preservative: H_2SO_4 ___ HNO_3 * NaOH ___ Other * HCl

PHYSICAL AND CHEMICAL
Appearance: Clear: ___ Turbid: Yes — Color: RED IRON
Containing Sediment Yes — Odor: NO Other:
Temperature (°C): 9 pH 7.01 — Specific Conductivity (µmhos/cm): 800
Turbidity (NTU): Yes — Other:

REMARKS: N/A - NOT APPLIC. E. FLASK +/OR TEFLON BAILER USED FOR SAMPLING/FILTERING, WAS WASHED WITH ALCONOX SOAP, RINSED W/ LAB GRADE WATER, RINSED W/ 10% NITRIC WASH, FINAL RINSE WITH LAB GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH COMPANY

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 1ST OF 2 ANNUAL EVENTS 2015

STAFF: JEFF SMITH / MIKE

DATE: 4/1/15 , 1450

WELL NO.: EQUIPMENT BLANK

1	TOTAL CASING AND SCREEN LENGTH (ft.)	NA
2	CASING INTERNAL DIAMETER (in.)	
3	WATER LEVEL BELOW TOP OF CASING (ft.)	
4	VOLUME OF WATER IN CASING (gal.)	

WELL I.D.	VOL. GAL./FT.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$V = 0.0408 (\quad ^2 \times (1 - 3) = $ N/A gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	ONLY									
"PH"	7.10									
VISUAL TURBIDITY	clear									
CONDUCTIVITY	40									
TEMP. °C	20									

COMMENTS:

D.I. WATER (Q.C) FROM: IsleChem Lab.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company (Organization Name)	Palmer Street Landfill Routine Parameter List (Project Name)	7 Samples / 21 Bottles + Trip Blank (# of Samples / # of Bottles)
465 Palmer Street (Street Address)	CHARGE TO VISA CARD (Client PO / Release #)	10 Days (Turnaround Time/ Date Results Needed)
Gowanda, NY 14070 (City, State, ZIP)	4-1-15 (Date Sampled)	NY (IsleChem Project #)
Jeffrey Smith (Contact Person)	For electronic report please provide e-mail below: jxsmith@browshoe.com (E-mail)	Rush Work Performed at Priority Rate (see below)
716-532-2201 / 716-532-5518 (Phone# and Fax#)		Approved by Client Yes No Initials____
		Approved by Lab Yes No Initials____

Sample ID	Sample Location	Matrix	Comp	Grab	Soluble Cr, Pb & As* (2374)	TCL Volatiles (2167)	Filtered by Client	Bottle Type / Preservative
MW 3	Site 8	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 8	GW		X	X			(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-3D	Site 9	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 9	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BS-3	Site 10	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 10	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW8D	Site 11	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 11	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-7D	Site 12	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 12	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BLIND DUP	Site 13	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 13	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
EQ. BLNK	Site 14	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
"	Site 14	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
YES	Trip Blank	DI Water				X		40 ml VOA Vials (HCL)

NO SAMPLE

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company Organization Name	Palmer Street Landfill Routine Parameter List Project Name
465 Palmer Street Street Address	CHARGE TO VISA CARD Client PO / Release #
Gowanda, NY 14070 City, State, ZIP	4-1-15 Date Sampled
Jeffrey Smith Contact Person	For electronic report please provide e-mail below: jxsmith@browshoe.com E-mail
716-532-2201 / 716-532-5518 Phone# and Fax#	

7 Samples / 21 Bottles + Trip Blank
# of Samples / # of Bottles

10 Days
Turnaround Time/ Date Results Needed

NY
IsleChem Project #

Rush Work Performed at Priority Rate (see below)

Approved by Client Yes No Initials____

Approved by Lab Yes No Initials____

Sample ID	Sample Location	Matrix	Comp	Grab	Soluble Cr, Pb & As* (2374)	TCL Volatiles (2167)	Bottle Type / Preservative
MW6D	Site 1	GW		X	X		Filtered by Client 250 ml Poly (HNO3)
"	Site 1	GW		X		X	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW6	Site 2	GW		X	X		Filtered by Client 250 ml Poly (HNO3)
"	Site 2	GW		X		X	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BS1	Site 3 { NO SAMPLE }	GW		X	X	~~X~~	Filtered by Client 250 ml Poly (HNO3)
"	Site 3	GW		X		~~X~~	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW5	Site 4 { NO SAMPLE }	GW		X	X	~~X~~	Filtered by Client 250 ml Poly (HNO3)
"	Site 4	GW		X		~~X~~	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW4SR	Site 5	GW		X	X		Filtered by Client 250 ml Poly (HNO3)
"	Site 5	GW		X		X	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW4D	Site 6	GW		X	X		Filtered by Client 250 ml Poly (HNO3)
"	Site 6	GW		X		X	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BS-2	Site 7 { NO SAMPLE }	GW		X	X		Filtered by Client 250 ml Poly (HNO3)
"	Site 7	GW		X		X	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time

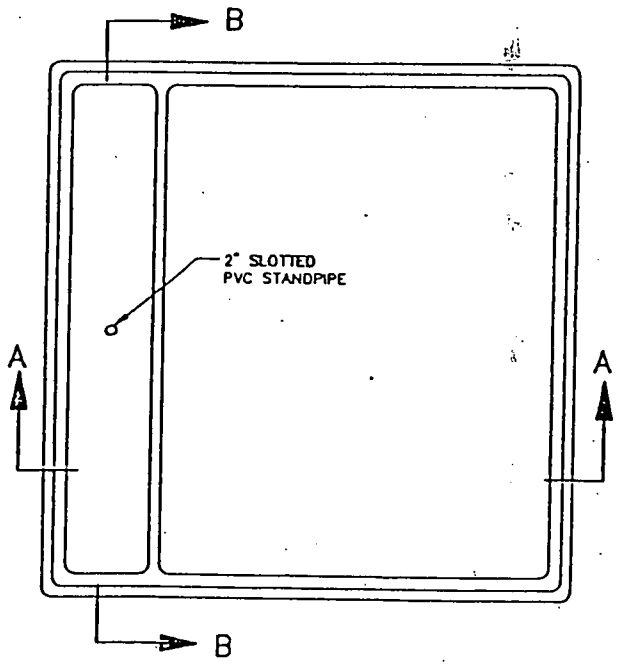
Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 da

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

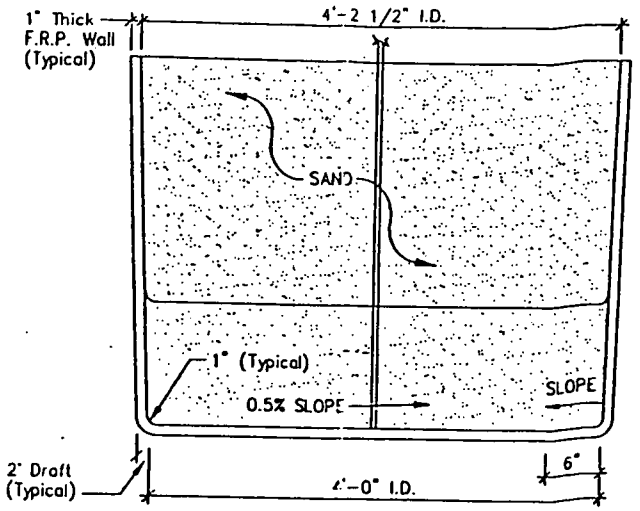
APPENDIX B

INFILTROMETER DESIGN

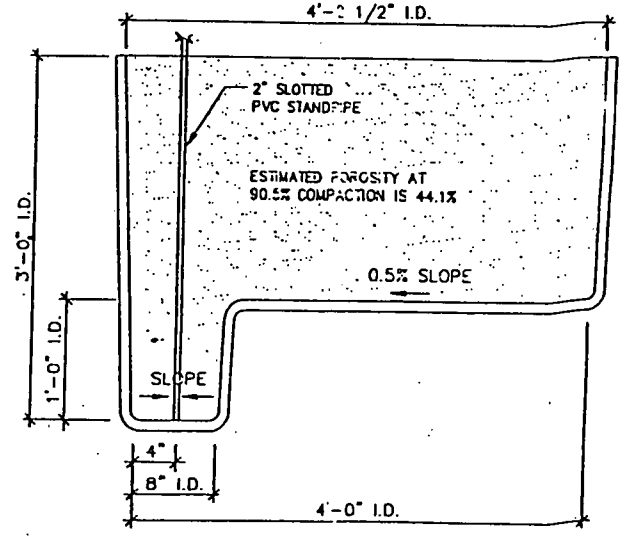


PLAN

SECTION B–B



SECTION A–A

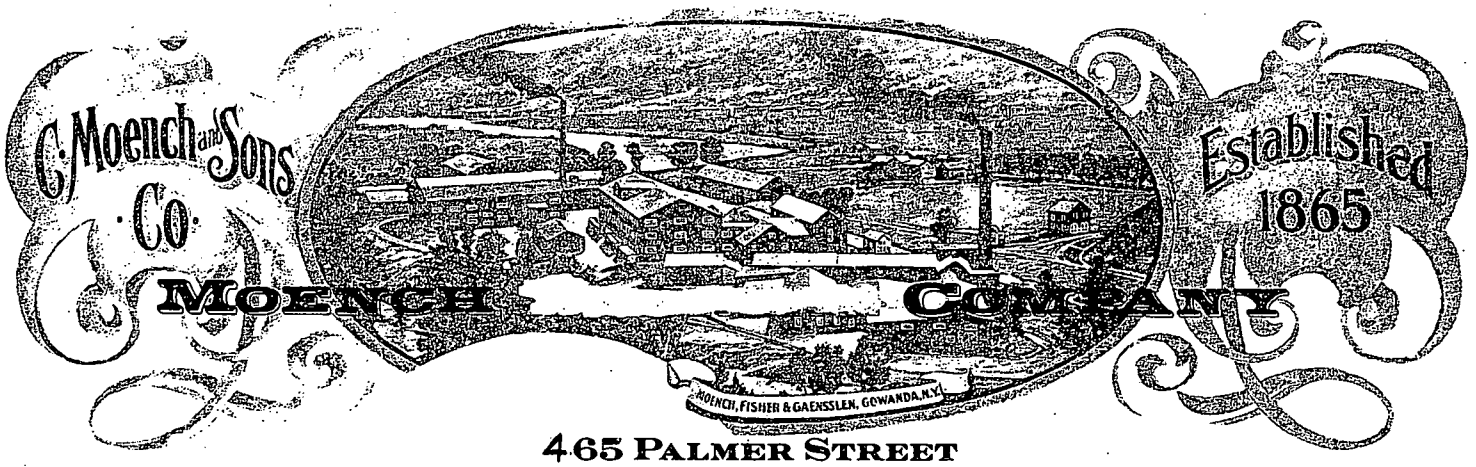


TYPICAL INFILTROMETER BY HEY'S ENTERPRISES
AS INSTALLED AT PALMER STREET LANDFILL

INFILTROMETER

MOENCH TANNING COMPANY 3/20 [illegible]

MTC-23-INF



465 PALMER STREET
GOWANDA, NEW YORK 14070

TEL. 716-532-2201 FAX 716-532-5518

APPENDIX "C"

ANALYTICAL REPORT FROM LABORATORY:

FOR April 1st, 2015

MONITORING EVENT....

PALMER STREET LANDFILL

IsleChem™ LLC
Grand Island, NY

2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

Analysis Report

Client Moench Company

465 Palmer Street
Gowanda, NY 14070

Project Palmer Street Landfill

Report Date 4/20/2015
Status Final
ID **NY1504019.0.43553**

Batch Sample
Date 4/2/2015
Time 15:00
Description Palmer Street Landfill
Received 4/7/2015
Time: 09:30
Batch Contact Jeffrey Smith
Authorized Signature

Richard V. Finn, Manager of Chemical Testing

The following result table is for 11 samples received by IsleChem LLC on 4/7/2015 sampled by Client on 4/2/2015 and submitted by Client

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:
Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:
Volatiles vials contained air bubbles.

Sample Results

Report ID NY1504019.0.43553
Client Moench Company

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-1	MW6D - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294454	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294454	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294454	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294455-294456	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Acetone	**39.1**	ug/L		RRS	294455-294456	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294455-294456	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294455-294456	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294455-294456	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294455-294456	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294455-294456	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294455-294456	2015-04-15
019-0407-2	MW6 - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294457	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294457	2015-04-16

Sample Results

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Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-2	MW6 - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Lead, Dissolved	**< 0.01**	mg/L		RVF	294457	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294458-294459	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294458-294459	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294458-294459	2015-04-15
019-0407-3	MW4SR - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294460	2015-04-16
Chromium, Dissolved	**0.010**	mg/L		RVF	294460	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294460	2015-04-16

Sample Results

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Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-3	MW4SR - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294461-294462	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Acetone	**154**	ug/L	D1	RRS	294461-294462	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294461-294462	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294461-294462	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294461-294462	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294461-294462	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294461-294462	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294461-294462	2015-04-15
019-0407-4	MW4D - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294463	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294463	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294463	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15

Sample Results

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Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-4	MW4D - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl chloride	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294464-294465	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294464-294465	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294464-294465	2015-04-15
019-0407-5	MW3D - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**0.005**	mg/L	J	RVF	294466	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294466	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294466	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294467-294468	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294467-294468	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294467-294468	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294467-294468	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-5	MW3D - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Chloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Acetone	16.0	ug/L		RRS	294467-294468	2015-04-15
1,1-Dichloroethene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Methylene chloride	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Carbon Disulfide	< 2.0	ug/L		RRS	294467-294468	2015-04-15
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,1-Dichloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	294467-294468	2015-04-15
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Chloroform	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,2-Dichloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Carbon tetrachloride	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Benzene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,2-Dichloropropane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Trichloroethene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Bromodichloromethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	294467-294468	2015-04-15
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	294467-294468	2015-04-15
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Toluene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
2-Hexanone	< 10.0	ug/L		RRS	294467-294468	2015-04-15
Dibromochloromethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Tetrachloroethene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Chlorobenzene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Ethyl benzene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
m,p-Xylene	< 10.0	ug/L		RRS	294467-294468	2015-04-15
Bromoform	< 2.0	ug/L		RRS	294467-294468	2015-04-15
Styrene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
o-Xylene	< 2.0	ug/L		RRS	294467-294468	2015-04-15
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	294467-294468	2015-04-15
019-0407-6	BS3 - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	< 0.005	mg/L		RVF	294469	2015-04-16
Chromium, Dissolved	< 0.01	mg/L		RVF	294469	2015-04-16
Lead, Dissolved	< 0.01	mg/L		RVF	294469	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	< 10.0	ug/L		RRS	294470-294471	2015-04-15
Chloromethane	< 2.0	ug/L		RRS	294470-294471	2015-04-15
Vinyl chloride	< 2.0	ug/L		RRS	294470-294471	2015-04-15
Bromomethane	< 2.0	ug/L		RRS	294470-294471	2015-04-15
Chloroethane	< 2.0	ug/L		RRS	294470-294471	2015-04-15
Acetone	< 10.0	ug/L		RRS	294470-294471	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-6	BS3 - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294470-294471	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294470-294471	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294470-294471	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294470-294471	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294470-294471	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294470-294471	2015-04-15
019-0407-7	MW8D - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294472	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294472	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294472	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-7	MW8D - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Carbon Disulfide	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294473-294474	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294473-294474	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294473-294474	2015-04-15
019-0407-8	MW7D - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294475	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294475	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294475	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-8	MW7D - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294476-294477	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294476-294477	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294476-294477	2015-04-15
019-0407-9	Blind Dup - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**0.006**	mg/L	J	RVF	294478	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294478	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294478	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-9	Blind Dup - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294479-294480	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294479-294480	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294479-294480	2015-04-15
019-0407-10	Eq. Blank - Ground Water Sampled 4/2/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		RVF	294481	2015-04-16
Chromium, Dissolved	**< 0.01**	mg/L		RVF	294481	2015-04-16
Lead, Dissolved	**< 0.01**	mg/L		RVF	294481	2015-04-16
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-10	Eq. Blank - Ground Water Sampled 4/2/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294482-294483	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294482-294483	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294482-294483	2015-04-15
019-0407-11	Trip Blank - Deionized Water Sampled 4/2/2015					
Volatiles						
Trip Blank	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	294484	2015-04-15
Chloromethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Vinyl chloride	**< 2.0**	ug/L		RRS	294484	2015-04-15
Bromomethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Chloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Acetone	**< 10.0**	ug/L		RRS	294484	2015-04-15
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	294484	2015-04-15
Methylene chloride	**< 2.0**	ug/L		RRS	294484	2015-04-15
Carbon Disulfide	**< 2.0**	ug/L		RRS	294484	2015-04-15
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	294484	2015-04-15
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	294484	2015-04-15
Chloroform	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Carbon tetrachloride	**< 2.0**	ug/L		RRS	294484	2015-04-15
Benzene	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Trichloroethene	**< 2.0**	ug/L		RRS	294484	2015-04-15
Bromodichloromethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	294484	2015-04-15
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294484	2015-04-15

Sample Results

Report ID NY1504019.0.43553
Client Moench Company

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
019-0407-11	Trip Blank - Deionized Water Sampled 4/2/2015					
Volatiles						
Trip Blank	Method: EPA 8260C / Prep: EPA 5030C					
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	294484	2015-04-15
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Toluene	**< 2.0**	ug/L		RRS	294484	2015-04-15
2-Hexanone	**< 10.0**	ug/L		RRS	294484	2015-04-15
Dibromochloromethane	**< 2.0**	ug/L		RRS	294484	2015-04-15
Tetrachloroethene	**< 2.0**	ug/L		RRS	294484	2015-04-15
Chlorobenzene	**< 2.0**	ug/L		RRS	294484	2015-04-15
Ethyl benzene	**< 2.0**	ug/L		RRS	294484	2015-04-15
m,p-Xylene	**< 10.0**	ug/L		RRS	294484	2015-04-15
Bromoform	**< 2.0**	ug/L		RRS	294484	2015-04-15
Styrene	**< 2.0**	ug/L		RRS	294484	2015-04-15
o-Xylene	**< 2.0**	ug/L		RRS	294484	2015-04-15
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	294484	2015-04-15

Data Qualifiers and Definitions:

A3 Analyte cannot be recovered in an acid preserved sample. Result is estimated.
D1 Sample diluted due to initial result outside of linear calibrated range of the instrument.
J Estimated value. Analyte result is less than reporting limit (RL) and greater than or equal to the method detection limit (MDL).

General Disclaimer

•The test results are submitted pursuant to IsleChem LLC's current terms and conditions of sale, including the company's standard warranty and limitation of liability provisions. No responsibility or liability is assumed for the manner in which the results are used or interpreted.
•This report is issued for the benefit of and may be relied upon by the client named above. The client bears full responsibility for deciding the level of testing for sample submitted to IsleChem LLC.
•These results pertain only to the items tested.
•This report shall not be reproduced except in full.
•If the sample(s) represented by these test results were not collected by IsleChem LLC then the test results are limited to the reported values determine by the analytical testing process. IsleChem LLC makes no representation regarding the sample's collection technique, condition, volume, homogeneity or any other aspect of the sample(s) prior to IsleChem LLC taking possession of the sample(s) and the influence it may have on the results.
•Unless notified in writing to return the samples covered by this report IsleChem LLC will store what remains of the sample(s), if anything, for a period of thirty (30) days, sixty (60) days for asbestos samples, before discarding, unless otherwise required by law. A shipping and handling fee with be charged for the return of any sample(s).
•Certain analytes may not be covered by the NYS DOH or NELAP fields of accreditation. Results for those analytes are generated by the cited method using QA/QC guidelines from IsleChem's Quality Control Manual, where applicable.

The test results in this report meet all NELAP requirements for parameters that are within IsleChem's field of accreditation. Any exceptions to NELAP requirements are noted in the comments field.

All results for solid samples are reported on a dry weight basis unless otherwise noted.

Visit us on the web at www.islechem.com

IsleChem LLC Grand Island, NY

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company (Organization Name)	Palmer Street Landfill Routine Parameter List (Project Name)
465 Palmer Street (Street Address)	CHARGE TO VISA CARD (Client PO / Release #)
Gowanda, NY 14070 (City, State, ZIP)	4-1-15 (Date Sampled)
Jeffrey Smith (Contact Person)	For electronic report please provide e-mail below: jxsmith@browshoe.com (E-mail)
716-532-2201 / 716-532-5518 (Phone# and Fax#)	

7 Samples / 21 Bottles + Trip Blank (# of Samples / # of Bottles)

10 Days (Turnaround Time/ Date Results Needed)

NY150401943553 (IsleChem Project #)

Rush Work Performed at Priority Rate (see below)

Approved by Client Yes No Initials____

Approved by Lab Yes No Initials____

Sample ID	Sample Location	Matrix	Comp	Grab	Soluble Cr, Pb & As* (2374)	TCL Volatiles (2167)	Filtered by Client	Bottle Type / Preservative
MW6D	Site 1	GW		X	X	294454		250 ml Poly (HNO3)
"	Site 1	GW		X		X 294455 294456		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW6	Site 2	GW		X	X	294457	Filtered by Client	250 ml Poly (HNO3)
"	Site 2	GW		X		X 294458 294459		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BS1	Site 3	{ NO SAMPLE }						
"	Site 3	GW		X	X	4S	Filtered by Client	250 ml Poly (HNO3)
MW5	Site 4	{ NO SAMPLE }						
"	Site 4	GW		X	X	4S	Filtered by Client	250 ml Poly (HNO3)
MW4SR	Site 5	GW		X	X	294460	Filtered by Client	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
"	Site 5	GW		X		X 294461 294462		250 ml Poly (HNO3)
MW4D	Site 6	GW		X	X	294463	Filtered by Client	(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
"	Site 6	GW		X		X 294464 294465		250 ml Poly (HNO3)
BS-2	Site 7	{ NO SAMPLE }						
"	Site 7	GW		X	X		Filtered by Client	250 ml Poly (HNO3)
						X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

Sampled By: J. Smith	Date 4/2/15	Time 1500	Received by:	Date	Time	Received by:	Date / Time
Relinquished by: J. Smith	Date 4/7/15	Time 700	Relinquished by:	Date	Time	Received by lab: Brenda Pitchelli	Date 4/7/15 Time 930

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 da

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

IsleChem, LLC Grand Island, NY

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company — Organization Name
465 Palmer Street — Street Address
Gowanda, NY 14070 — City, State, ZIP
Jeffrey Smith — Contact Person
6-532-2201 / 716-532-5518 — Phone# and Fax#

Palmer Street Landfill Routine Parameter List — Project Name
CHARGE TO VISA CARD — Client PO / Release #
4-1-15 — Date Sampled

For electronic report please provide e-mail below: jxsmith@browshoe.com — E-mail

7 Samples / 21 Bottles + Trip Blank — # of Samples / # of Bottles
10 Days — Turnaround Time/ Date Results Needed
NY 1504019.43553 — IsleChem Project #

Rush Work Performed at Priority Rate (see below)
Approved by Client Yes No Initials
Approved by Lab Yes No Initials

	Sample Location	Matrix	Comp	Grab	Soluble Cr, Pb & As* (2374)	TCL Volatiles (2167)		Filtered by Client	Bottle Type / Preservative
[illegible]	Site 8	GW		X			NO SAMPLE		250 ml Poly (HNO3)
[illegible]	Site 8	GW		X	X	X	294466		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
[illegible]	Site 9	GW		X		X	294467	Filtered by Client 294468	250 ml Poly (HNO3)
[illegible]	Site 9	GW		X	X		294469		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
[illegible]	Site 10	GW		X		X	294470	Filtered by Client 294471	250 ml Poly (HNO3)
"	Site 10	GW		X	X		294472		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW8D	Site 11	GW		X		X	294473	Filtered by Client 294474	250 ml Poly (HNO3)
"	Site 11	GW		X	X		294475		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-7D	Site 12	GW		X		X	294476	Filtered by Client 294477	250 ml Poly (HNO3)
"	Site 12	GW		X	X		294478		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BLIND DUP	Site 13	GW		X		X	294479	Filtered by Client 294480	250 ml Poly (HNO3)
"	Site 13	GW		X	X		294481		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
EQ. BLNK	Site 14	GW		X		X	294482	Filtered by Client 294483	250 ml Poly (HNO3)
"	Site 14	GW		X	X		294484		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
YES	Trip Blank	DI Water				X			40 ml VOA Vials (HCL)

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

	Date	Time		Date	Time		Date	Time
Sampled By: [signature]	4/2/15	1500	Received by:			Received by:		
Relinquished by: [signature]	4/3/15	700	Relinquished by:			Received by lab: Blenda Fornelli	4/7/15	930

Standard turnaround time is 10 days.
RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.
By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

MOENCH COMPANY
DIVISION OF CALERES*5*
465 PALMER ST.
GOWANDA, NEW YORK 14070
PHONE: 716-532-2201

Mr. Stanley F. Radon
N.Y. State Dept. of Environmental Conservation
Division of Solid & Hazardous Waste
270 Michigan Ave.
Buffalo, New York 14203-2999

August 10, 2015

Re: Palmer St. Landfill, Groundwater Quality for July 2015 sample.

Mr. Radon:
Attached/enclosed is the Groundwater Quality report for our Palmer St. Landfill, for the July 2015 sample event. An electronic report in EDD format will be submitted by GEI Consultants. Also, I have forwarded a PDF file to you, from the UPS store.

Rain fall was more than normal, prior to the sampling, resulting in a rare sample form the MW-3 well. There was only enough volume for the sample though, therefore no purging took place.

There were no detections of metals above the "GA" standard at any of the monitoring points. There were no detections of VOCs, except at MW-6, for 1,2 DIchloroethane. This is considered an anomaly.

The Village of Gowanda continues to use the deep aquifer for its' water supply. This is reflected in the extreme drop in the water level in our MW-1D well, which is an indicator of the water level in the aquifer.

The results have shown for many years, the Palmer St. Landfill is having no effect on the surrounding environment, and should be delisted.

Please call me if you have any questions.

Sincerely,

Jeffrey Smith

Jeffrey Smith
Site Manager

(cov. Ltr & summary only)
Cc: Sandra Severson-Caleres *5*
St. Louis Mo.
Emily Schultz-Caleres *5*
St. Louis, Mo
Richard Frappa-GEI Consultants
Williamsville, NY

MOENCH COMPANY
DIVISION OF CALERES*5*
465 PALMER ST.
GOWANDA, NEW YORK 14070
PHONE: 716-532-2201

RECEIVED
AUG 11 2015
NYS DEC
REGION 9

PALMER ST. LANDFULL: AUGUST 2015

GROUNDWATER QUALITY MONITORING REPORT:

JULY 16, 2015 MONITORING EVENT:

SECOND OF TWO SAMPLES FOR 2015

Jeffrey Smith
Site Manager

PALMER STREET LANDFILL - MOENCH COMPANY. (DIV. OF CALERES*5*.)
GROUNDWATER MONITORING REPORT FOR JULY 2015, SAMPLING EVENT.

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LIST OF APPENDICES

1.0 INTRODUCTION

1.1 BACKGROUND-LANDFILL.

THE MOENCH COMPANY, A DIVISION CALERES *5*., AND IS LOCATED NEAR THE SOUTHEAST CORNER OF THE VILLAGE OF GOWANDA, CATTARAUGUS COUNTY, NEW YORK.(FIGURE 1). THE PALMER STREET LANDFILL, WHICH WAS OPERATED BY MOENCH TANNING FROM 1900(APPROX), THROUGH JULY 1983, LIES IMMEDIATELY SOUTHWEST OF THE (FORMER) TANNERY COMPLEX ON AN APPROXIMATELY 25-ACRE, PARCEL OF LAND. A VARIETY OF WASTE GENERATED BY MOENCH TANNING WERE DISPOSED OF AT THE PALMER STREET LANDFILL SITE. THESE WASTES INCLUDED SOLE LEATHER EXTRACT, RENDERING WASTE, SPRAY BOOTH CLEAN UP WASTE, WASTE FINISH, WASTE HAIR/LEATHER SCRAPS, WASTEWATER TREATMENT PLANT SLUDGE, AND OCCASIONAL CONSTRUCTION DEBRIS.

MOENCH TANNING HAS CLOSED THE PALMER STREET LANDFILL. ACCORDINGLY, THE CLOSURE/POST CLOSURE PLAN(REFERENCE 1), IS BEING PERFORMED. THE LONG-TERM POST CLOSURE MONITORING PROGRAM HAS BEEN APPROVED & IMPLIMENTED.(JULY 1993, REVISED MARCH 1994, MARCH 2001 & DECEMBER 2006).

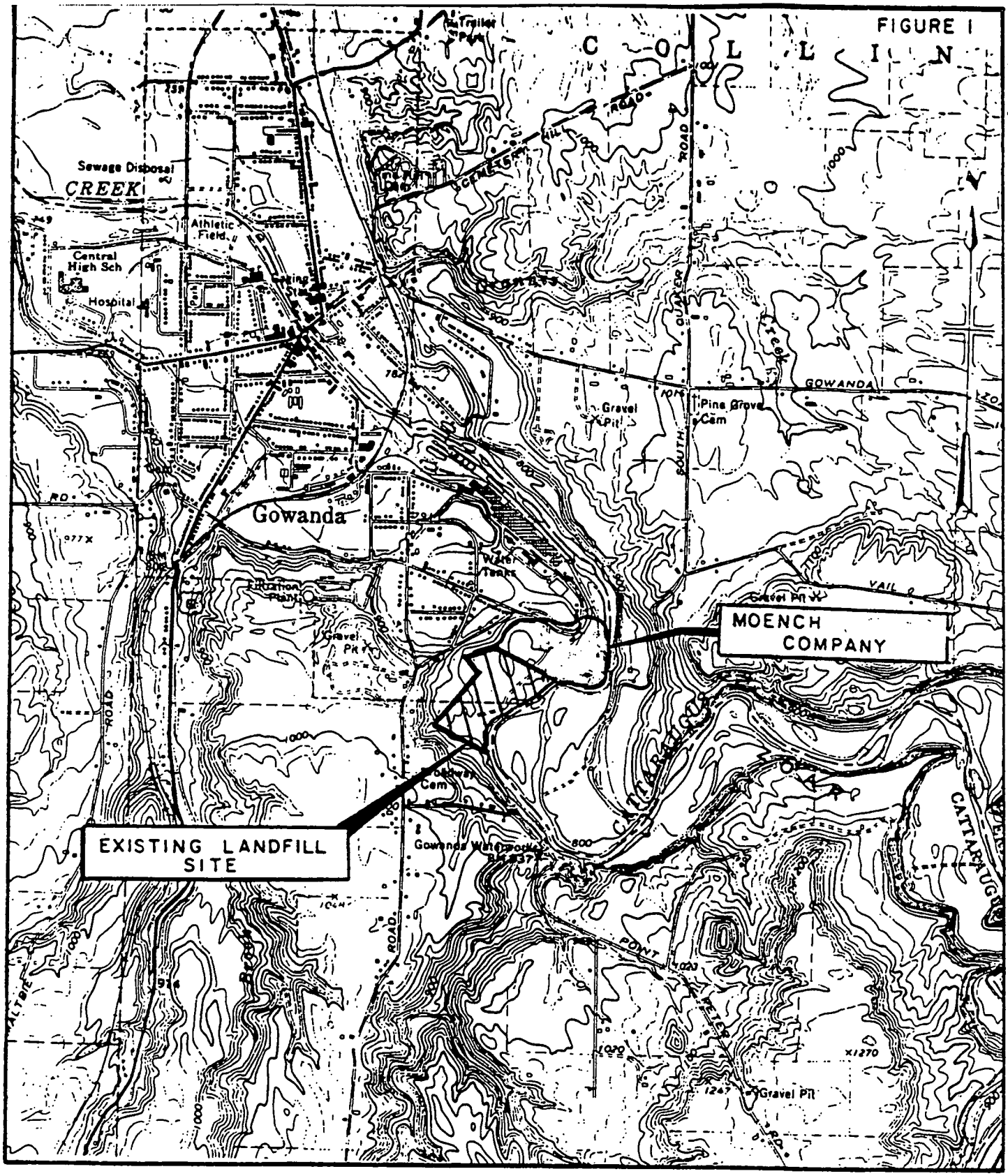
IN JULY OF 2006, A PROPOSAL WAS MADE TO THE NEW YORK STATE DEPT. OF ENVIRONMENTAL(NYSDEC), TO RECONFIGURE THE GROUNDWATER MONITORING SYSTEM(REF#7). THIS WAS AGREED UPON IN EXCHANGE FOR THE ELIMINATION OF THE FIVE YEAR "COVER SYSTEM EVALUATION". THE NEW MONITORING SYSTEM IS DESCRIBED IN SECTION 2.0

1.2 PURPOSE AND SCOPE

SAMPLES ASSOCIATED WITH THE SECOND EVENT OF TWO, WATER QUALITY MONITORS, FOR 2015 YEAR, WERE COLLECTED ON JULY 16, 2015.

SAMPLES WERE OBTAINED ONLY AT BANK SEEP #3, OF THE THREE BANK SEEPS. NO SEEPS EXISTED AT BS-1 & BS-2.

SITES MW-5 WAS DRY, AND NO SAMPLE OBTAINED. THERE WAS A RARE SAMPLE AVAILABLE AT MW-3, AT MINIMAL VOLUME. THIS IS LIKELY DUE TO HIGHER RAIN VOLUME THE PAST THREE MONTHS.



{Figure 1}

Lat. 42°, 27'0"
Long. 78°, 55'30"

NOTE:
TOPOGRAPHY TAKEN FROM 1963 GOWANDA, N.Y.
U.S.G.S. QUADRANGLE 7.5 MIN. SERIES
SCALE: 1" = 2000'

NEW YORK
QUADRANGLE LOCATION

SITE LOCATION MAP
PALMER STREET LANDFILL
GOWANDA, N.Y. 6-94

MOENCH Co.

2.0 MONITORING SYSTEM(RECONFIGURED 7/06)

THE RECONFIGURED GROUNDWATER MONITORING SYSTEM FOR THE PALMER STREET LANDFILL(FIG. 2), CONTAINS NINE(9) MONITORING WELLS AND THREE(3) BANK SEEPS. A REVISED POST CLOSURE PLAN, DESCRIBING THE DETAILS, WAS SUBMITTED TO THE NYSDEC 9, IN JANUARY 2007, AND ACCEPTED BY THEM.

UPGRADIANT WELLS	OVERBURDEN/WASTE WELLS	BEDROCK WELLS
	MW-3	MW-3D
MW-7D	MW-4SR	MW-4D
MW-8D	MW-5	MW-6D
	MW-6	

IN ADDITION TO THE WELLS, NYSDEC ALSO REQUIRES THE MONITORING OF THREE (3) BANK SEEPS DESIGNATED AS BS-1, BS-2 AND BS-3, RESPECTIVELY. THE ABILITY TO OBTAIN SAMPLES FROM THESE BANKSEEPS IS SPORADIC DUE TO VARYING WEATHER/MOISTURE CONDITIONS. A BANK SEEP SAMPLE WAS OBTAINED ONLY FROM BS-3.

MW-8D IS DOWNGRADIENT FROM GERNATT'S GRAVEL WASHING OPERATION, SETTLING PONDS. THE SILT ADJACENT TO THERE PONDS CONTAINS SEVERAL NATURAL METALS OF INTEREST.(arsenic).

TO AID IN THE EVALUATION OF COVER PERFORMACE, WATER LEVELS FROM FIVE (5) INFILTROMETERS ARE ALSO MONITORED. LOCATIONS OF MONITORING POINTS ARE SHOWN ON FIGURE 2. THE RESULTS CONTINUE TO INDICATE THAT THE COVER SYSTEM IS PERFORMING AS PLANNED. THESE SHOWED MINIMAL INFILTRATION FOR THIS SAMPLING EVENT; TABLE #4.

THE SUMMER/SPRING WEATHER WAS WETTER THAN NORMAL.

THE VILLAGE OF GOWANDA HAS BEEN OBTAING ITS' WATER FROM THE DEEP AQUIFER, FOR THE PAST SEVERAL YEARS. THIS IS DUE TO THE CLOSURE OF THEIR RESRVIOR. THIS HAS RESULTED IS A DRASTIC REDUCTION IN THE WATER LEVEL IN THE MW-1D WELL, IN THE SOUTHWEST CORNER OF THE LANDFILL.

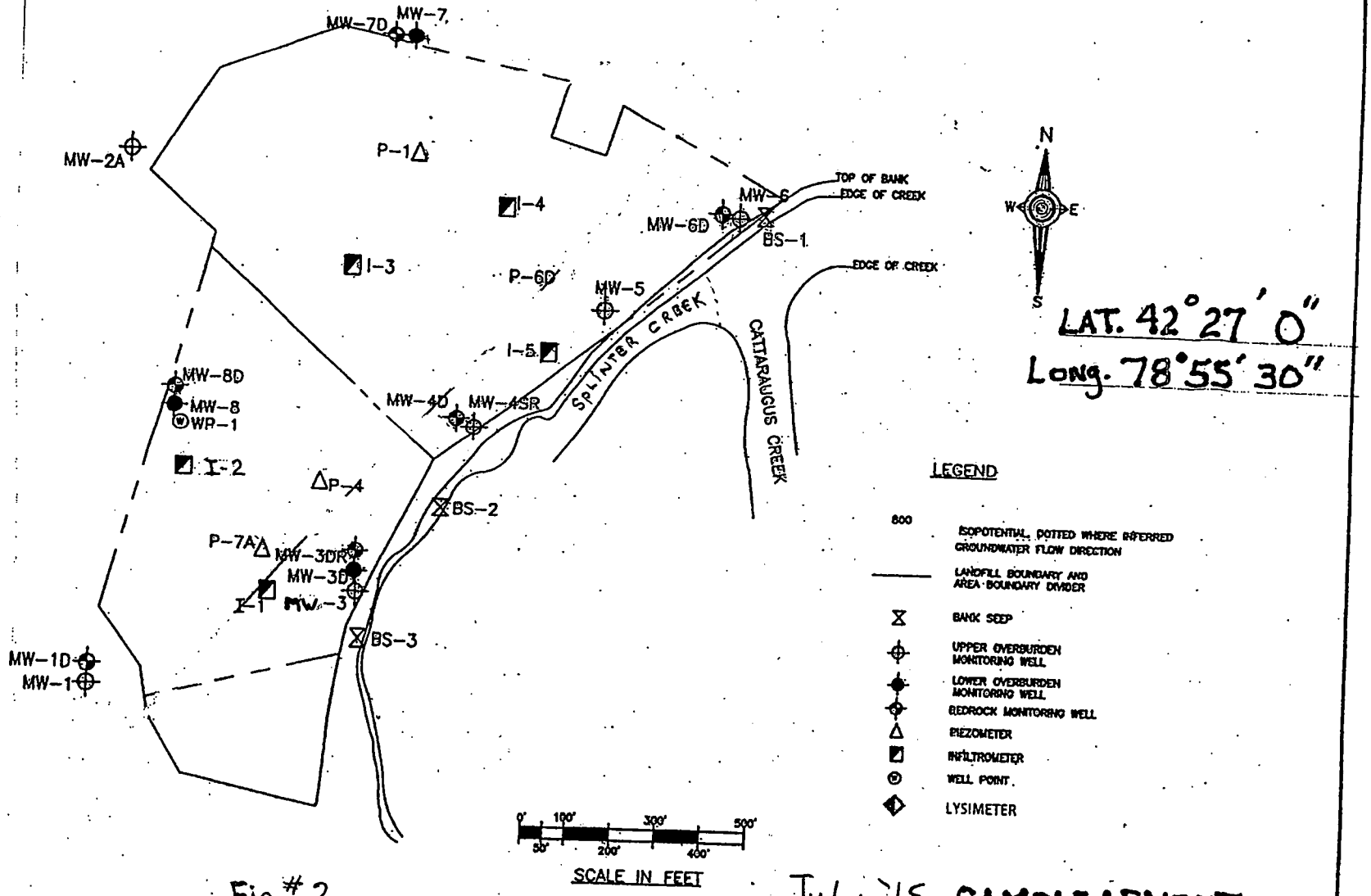


Fig. # 2

July '15 SAMPLE EVENT:

GEI Consultants, Inc. Williamsville, NY	PALMER STREET LANDFILL SITE PLAN	DATE: DEC '11	PROJ. NO.: 8104
		FILE NO.: N/A	DWG. NO.: FIGURE 1.2

PALMER DEC '11

3.0 MONITORING METHODS

3.1 GROUNDWATER MONITORING -LANDFILL

SAMPLES COLLECTED DURING THE JULY 2015 MONITORING EVENT PERIOD, WERE COLLECTED BY MOENCH COMPANY PERSONNEL, AND ANALYZED BY ISLECHEM LLC, GRAND ISLAND, NEW YORK. THE ANALYSIS IS PERFORMED IN ACCORDANCE WITH THE SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR THE PALMER STREET LANDFILL (REFERENCE 3).

LABORATORY ANALYSIS WERE PERFORMED IN ACCORDANCE WITH THE USEPA 200.7 FOR METALS, AND VOC 8260. THE MONITORING PARAMETERS ARE LISTED IN TABLE 1. SAMPLES WERE NOT AVAILABLE FROM ONE WELL AND TWO BANK SEEPS, IDENTIFIED IN SECTION 2.0.

PRIOR TO SAMPLING, STATIC WATER LEVEL ELEVATIONS WERE MEASURED IN THE MONITORING WELLS AND THE WELLS WERE PURGED (SEE TABLE 2. GROUNDWATER ELEVATIONS WERE ALSO MEASURED IN THE PIEZOMETERS, INFILTROMETERS, AND WELLS ON-SITE.

MOENCH PERSONNEL "DEVELOPED" THE WELLS PRIOR TO SAMPLING. THE BOTTOM ELEVATIONS OF THE WELLS WERE MEASURED AND REVISED ON TABLE #2.

FIELD SAMPLES WERE COLLECTED AND MEASURED FOR THE FIELD PARAMETERS IDENTIFIED IN TABLE 1. THE FIELD MEASUREMENTS ARE SUMMARIZED IN TABLE #3.

3.2 INFILTROMETER MONITORING

FIVE INFILTROMETERS HAVE BEEN INSTALLED BENEATH THE LANDFILL CAP TO AID IN THE ASSESSMENT OF PERFORMANCE OF THE CAP. DURING EACH SAMPLING EVENT, WATER LEVELS IN THE INFILTROMETER ARE MEASURED AND THE AMOUNT OF WATER INFILTRATING CALCULATED.

NOTE: IT IS BELIEVED THAT INFILTROMETER #1, IS OFTEN FLOODED DUE TO NEIGHBORING SPRINGS AND GRAVEL SETTLING PONDS. THIS CREATES A HIGH WATER TABLE, IN THE SOUTH END OF AREA #2.

A SCHEMATIC SHOWING THE DESIGN AND DIMENSIONS OF THE INFILTROMETERS IS PRESENTED IN APPENDIX "B".

TABLE 1

MOENCH TANNING COMPANY
PALMER STREET LANDFILL

MONITORING PARAMETERS *Twice/year

Soluble Arsenic[1]
Soluble Chromium[1]
Soluble Lead[1]

Volatile Organics[2][3]

pH[4]
Specific Conductance[4]
Turbidity[4] – Visual
Groundwater Elevation[4]
Temperature[4]
Odor[4]
Sample Appearance[4]

Notes:

1. *All samples collected for analysis of soluble metals are pressure-filtered in the field immediately upon sample collection.*

2. *The list of VOC analytes are those compounds included in SW-846, Method 8260.*

3. *Analysis for VOCs are not performed on pore water samples during performance monitoring events.*

4. *Field parameters (i.e., pH, specific conductance, temperature and turbidity) are measured in the field by sampling personnel. Laboratory analysis of these parameters will not be required.*

MOENCH COMPANY
465 PALMER ST.
GOWANDA, NY 14070

SAMPLERS M. BEST

PALMER STREET LANDFILL :

DATE 7-14-15

GROUNDWATER ELEVATIONS: (TABLE #2)

W/P. WHALE PUMP – DEDICATED

WELL #	ELEVATION TOP OF PVC(FT)	TOTAL DEPTH FROM TOP OF PVC(FT)	WATER DEPTH(FT) FROM TOP OF PVC	WATER(FT) ELEVATION
MW-1	826.05 ASL	31.90 (8-12)	4.50	821.55
MW-1D	827.82	188.20 "	76.33	751.49
MW-2A	810.62	16.15 "	2.65	807.97
MW-3	810.81	17.10 "	15.85	794.96
MW-3D	810.73	67.70 "	21.34	789.39
MW-3DR	810.47	102.30 "	24.07	786.40
MW-4 SR	806.75 WP	24.92 "	12.42	794.33
MW-4D	805.93	74.94 "	15.25	790.68
MW-5	805.35	18.15 "	DRY	—
MW-6	800.48 WP	18.78 "	15.90	784.58
MW-6D	800.63	37.03 "	17.62	783.01
			—	—
MW-7	800.50	30.60 (8-12)	6.85	793.65
MW-7D	800.39	41.90 "	6.41	793.98
MW-8	821.82	15.96 "	DRY-DAMP	DRY
MW-8D	821.89 WP	127.70	PUMP IN	—

INFILTROMETERS: LARGE AMOUNT RAIN B/4 MONITOR

#1 BEUCOUP RAIN	9.00	4.67	—
#2	8.80	7.20	—
#3	9.00	6.19	—
#4 PONDS	8.92	6.98	—
#5	9.00	6.95	—

Revised 9-13

(TABLE #2) continued

Palmer st. Landfill

7-14-15
smpl date MB

GROUNDWATER ELEVATIONS:

WELL #	ELEVATION TOP OF PVC(FT)	TOTAL DEPTH FROM TOP OF PVC,(FT)	WATER DEPTH(FT) FROM TOP OF PVC	WATER (FT) ELEVATION
P-1	811.85 ASL	18.30 (8/12)	16.30	795.55
P-4	813.54 "	19.70 "	14.65	798.89
P-6D	810.30 "	61.25 "	19.55	790.75
P-7A	816.92 "	23.90 "	19.61	797.31
WP-1	822.16 "	11.71 by MW 8	8.64	813.52

NOTE:

Aug 2012 ALL WELLS "DEVELOPED"

(7/15) WATER PONDING AROUND 3 wells

" " I-2

Rev'd 9/12

~~Rev'd 2/12~~

4.0 GROUNDWATER QUALITY MONITORING RESULTS:

4.1 EVALUATION OF GROUNDWATER ELEVATION DATA:

GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN AT EACH OF THE ACCESSIBLE ON-SITE MONITORING WELLS, PIEZOMETERS, AND WELL POINTS, DURING THE JULY 2015, MONITORING EVENT. THE DATA ARE SUMMARIZED IN TABLE 2. BOTTOM ELEVATIONS WERE ALSO CONFIRMED.

PLOTS OF THE GROUNDWATER ELEVATIONS MEASURED IN THE MONITORING WELLS WITH RESPECT TO TIME ARE PRESENTED IN FIGURE 3,4, AND 5, FOR THE SHALLOW OVERBURDEN, DEEP OVERBURDEN AND BEDROCK WELLS, ON THE LANDFILL, RESPECTIVELY. AS SHOWN IN FIGURES 3 AND 4, OVERBURDEN GROUNDWATER ELEVATIONS WERE GENERALLY CONSISTENT, THROUGHOUT THE MONITORING PERIOD. WATER LEVELS HAVE STABLIZED, AFTER THREE YEARS OF INCREASES.('92-'94). THIS OCCURRED DUE TO CESSATION OF VILLAGE AND TANNERY PUMPING OF THE DEEP AQUIFERS. SOME SLIGHT SEASONAL FLUCTUATION DOES OCCUR. IN AUGUST, 2009, A DRAMATIC FLOOD OCCURRED IN THE GOWANDA AREA, THAT DISABLED THE VILLAGE RESERVIOR FOR AN EXTENDED TIME. THEY HAVE HAD TO USE THE DEEP WELL AGAIN, WHICH HAS HAD THE EFFECT OF LOWERING THE LEVELS IN SOME OF THE BEDROCK WELLS. THE VILLAGE HAS STARTED TO USE THE RESERVIOR BRIEFLY, BUT IS AGAIN USING THE AQUIFER.

4.2 THE GROUNDWATER AND SURFACE WATER QUALITY RESULTS FOR THE JULY 2015, MONITORING EVENTS, ARE PRESENTED IN TABLES #3 THROUGH #5. . IT SHOULD BE NOTED THAT THESE TABLES INCLUDE ONLY THOSE PARAMETERS, WHICH WERE DETECTED ABOVE ANALYTICAL DETECTION LIMITS, AT A MINIMUM OF ONE LOCATION. COMPARISON OF THE MONITORING EVENT DATA TO THE NYSDEC CLASS "GA" GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES IS ALSO PRESENTED THESE TABLES.

BOTH THE SOIL AND WASTE AT THE PALMER STREET LANDFILL CONTAIN METALS-OF-INTEREST AS A COMPONENT OF THE SOIL OR WASTE PARTICLES (REFERENCE 5). THEREFORE, THE SEDIMENT (OR TURBIDITY) CONTENT OF ANY GROUNDWATER OR SURFACE WATER QUALITY SAMPLES WILL DIRECTLY IMPACT THE TOTAL METAL CONCENTRATION OF THE SAMPLES. THE TURBIDITY CONTENT OF THE GROUNDWATER SAMPLES COLLECTED AT THE SITE IS EXTREMELY VARIABLE AND RELATIVELY HIGH BECAUSE THE SOIL AND WASTE FILL BOTH CONTAIN HIGH PERCENTAGES OF FINE-GRAINED PARTICLES. AS NYSDEC HAS PREVIOUSLY AGREED, IN ORDER TO AVOID MISINTERPRETATION OF WATER QUALITY DATA, TOTAL METALS WILL NO LONGER SAMPLED FOR GROUNDWATER QUALITY STANDARDS OR EVALUATIONS, OF GROUNDWATER QUALITY IMPACTS WILL BE BASED ON SOLUBLE METAL CONCENTRATIONS.

ALSO, TOTAL NOR SOLUBLE BARIUM WILL NO LONGER BE SAMPLED FOR IN THE AGREEMENT WITH NYSDEC, AS THE ELEMENT, IS NATURALLY ELEVATED CONCENTRATION IN NATIVE SOIL. ARSENIC IS ALSO PRESENT IN THE NATIVE SOIL. Several monitoring wells are screened within the waste:

--THERE WERE NO METALS OF CONCERN DETECTED ABOVE THE CLASS "GA" STANDARD.

--A RARE SAMPLE OF MW-3 WAS OBTAINED, DUE TO RAIN VOLUME PRIOR.

--THERE WERE MANY YELLOW PARTICLES IN MW-4SR SAMPLE.

--1.2 DICHLOROETHANE WAS DETECTED AT MW-6, AT .002 MG/L. THIS IS CONSIDERED AN ANOMOLY.

TABLE 3

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT

SUMMARY OF FIELD MEASUREMENTS — INITIAL

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Conductance[1] (umhos/cm)	Turbidity NA	Sample Appearance	Sample Odor
* MW-3	7/16/15	0943	13	6.84	1800	NA	Slight	NO
*** MW-3D	7/16/15	1007	13.1	7.20	510	"	clear	Finish
* MW-4SR	7/16/15	0905	12.4	6.52	960	"	Orange	NO
*** MW-4D	7/16/15	0920	13.8	7.19	710	"	clear	NO
* MW-5	—	NO	sample	dry	—	"	—	—
* MW-6	7/16/15	0830	15.0	6.65	1400	"	Black-Turbid	NO
** MW-6D	7/16/15	0800	13.7	7.43	1200	"	clear	NO
*** MW-7D	7/16/15	1137	14.1	7.43	670	"	clear	NO
** MW-8D	7/16/15	1055	13.2	7.18	4.80	"	clear	NO
BS-1	—	NO	Sample -	NO	seep	"		
BS-2	—	NO	Sample -	NO	seep	"		
BS-3	7/16/15	1030	9.0	7.01	800	"	Red Iron	NO

6.5-8.5 (Std)

NOTES:

(1) Conductivity readings corrected to 25°C.
(2) Blind Duplicate MW-3D
(3) MW-7D is apparent hydraulically upgradient bedrock well.

* Shallow Overburden Well
** Upgradient
*** Bedrock Well
BS Bank Seep

TABLE 4

MOENCH COMPANY
PALMER STREET LANDFILL
MONITORING EVENT

7-14-15

INFILTROMETER MEASUREMENTS

Infiltrometer	Static Water Level (ft) 7-14-15	Static Water Level (ft) 3-30-15	Δ Depth - gal. (ft)	# Days Between Readings (#)	Infiltration Rate gal/day.ft²	Infiltration Rate (cm/sec)	Approx. Total Rainfall This Period (ft)	Infiltration (%)
I-1 Ⓐ	4.67	4.55	NEG.	106	—	—	1.36	—
I-2	7.20	7.25	.05	"	.00023	1.1×10^{-8}	"	.2
I-3	6.19	6.80	.61	"	.0028	1.3×10^{-7}	"	3.4
I-4	6.98	6.20	NEG.	"	—	—	"	—
I-5	6.95	7.00	.05	"	.00023	1.1×10^{-8}	"	.2

Note:
** Negative ΔD precludes calculation of meaningful data. Ⓐ I-1 OFTEN FLOODED BY NATURAL SPRINGS & WASH PONDS, UPGRADIENT.

MUCH RAIN PRIOR TO SAMPLE; 7" IN JUNE.

I-3 — HISTORICALLY L.T. 2.0×10^{-8}

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

	Quantitation Limit	** MW-3	MW-3D	** MW-4SR	MW4D	** MW-5	** MW-6	MW-6D	Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	.008	ND	ND	ND	Dry	ND	ND	.025mg/l
Chromium - Soluble	0.005	ND	ND	.011	ND	N	ND	ND	.05
Lead - Soluble	0.005	ND	ND	ND	ND	O	ND	ND	.025
						S			
						a			
						m			
VOLATILES mg/L		ND	ND	ND	ND	P	ND	ND	
ACETONE		ND	ND	ND	ND	L	11	11	GUID. VALUE = .05mg/L
1,2-Dichloroethene				ND	ND	E	.002	11	

** Screened in Waste/Overburden.

Blind Duplicate_____

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

	Quantitation Limit	MW-7D	MW-8D	BS-1	BS-2	BS-3	Blind Duplic		Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	ND	ND	NO	NO	.005	ND		.025mg/l
Chromium - Soluble	0.005	ND	ND	Bank	Bank	ND	ND		.05
Lead - Soluble	0.005	ND	ND	Seep	Seep	ND	ND		.025
VOLATILES mg/L		ND	ND	—	—	ND	ND		
ACETONE		"	—	—	—	ND	ND		GUID. VALUE = .05 mg/L

5.0 GROUNDWATER FLOW

A WATER TABLE ISOPOTENTIAL MAP, BEDROCK ISOPOTENTIAL MAP AND A BEDROCK WATER LEVEL HYDROGRAPH HAVE BEEN PREPARED FOR THE PALMER STREET LANDFILL AND ARE PRESENTED IN FIGURES 3,4 AND 5, RESPECTIVELY. GROUNDWATER ELEVATIONS MEASURED ON JULY 16TH 2015, WERE USED IN PREPARING THE WATER TABLE AND BEDROCK ISOPOTENTIAL MAP. THEY INDICATE THAT THE SHALLOW GROUNDWATER FLOW IS PRIMARILY TO THE EAST, TOWARD CATTARAUGUS CREEK. THE BEDROCK ISOPOTENTIAL MAP AND THE BEDROCK WATER LEVEL HYDROGRAPH ILLUSTRATE A "LEVELING OFF" AFTER 3 YEARS('92-94) OF RISING GROUNDWATER LEVELS AT WELLS MW-1D, MW-3DR AND MW-8D. MW-1D AND MW-8D, WHICH WERE FORMERLY(BEFORE '92) DOWNGRADIENT WELLS, ARE NOW UPGRADIENT OF THE LANDFILL.

AS MENTIONED PRIOR, THE VILLAGE HAS HAD TO USE THE DEEP AQUIFER, FOR A WATER SUPPLY SOURCE FOR THE PAST 6 YEARS. THIS HAS HAD AN EFFECT ON THE WATER LEVELS IN THE BEDROCK WELLS, AND SOME EFFECT ON THE GROUNDWATER FLOW.

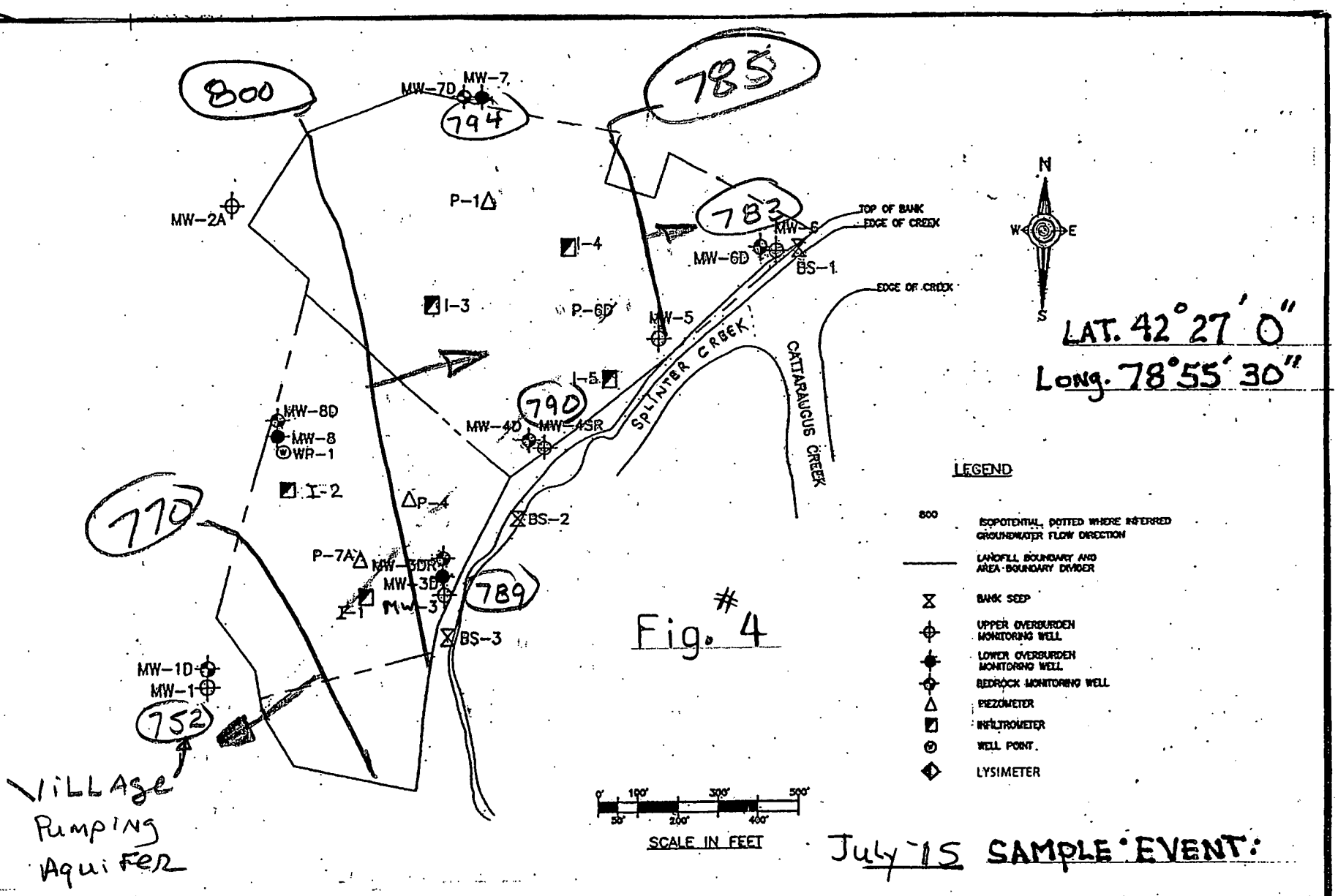


Fig. # 4

July '15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.

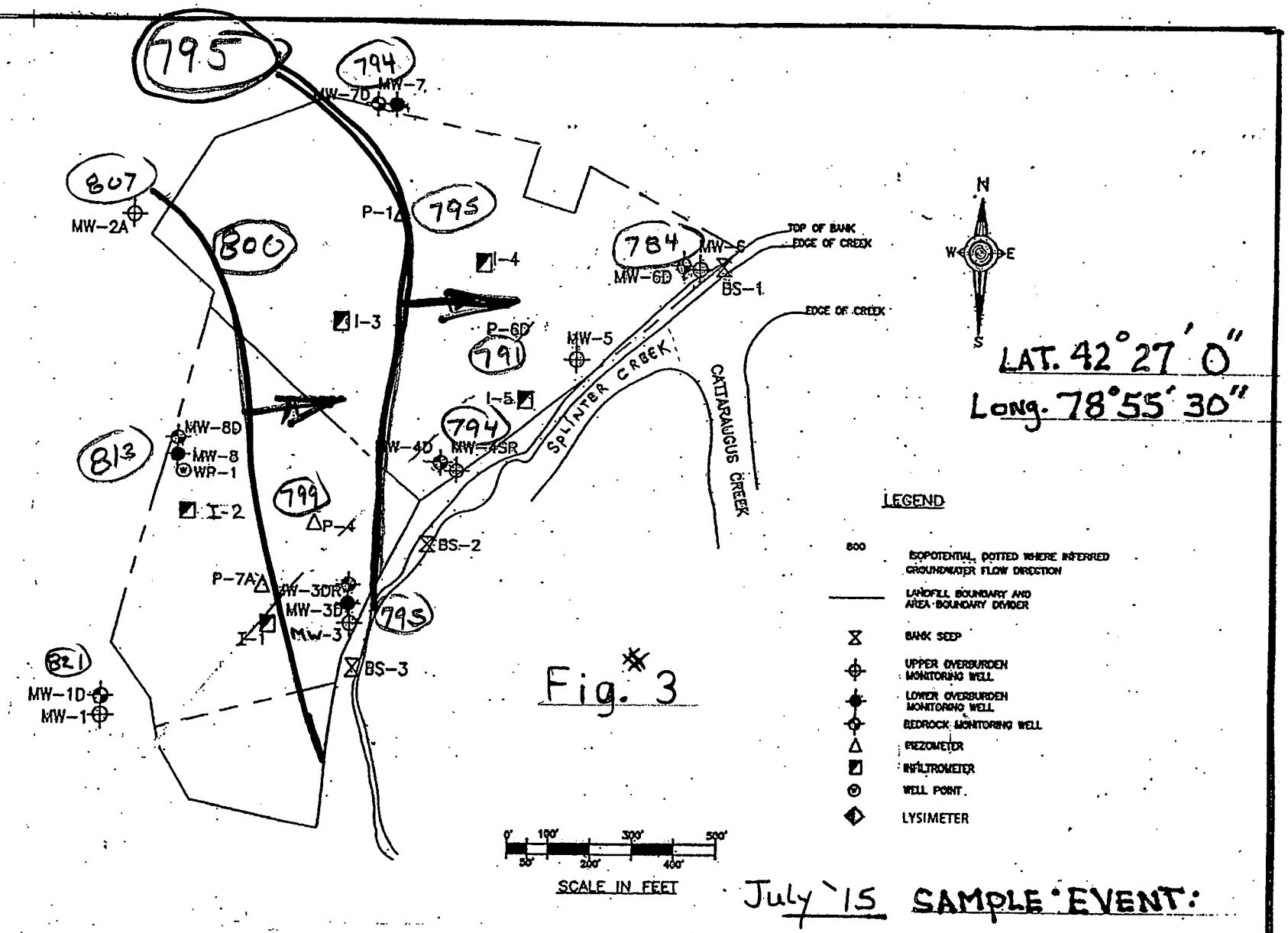


Fig. 3

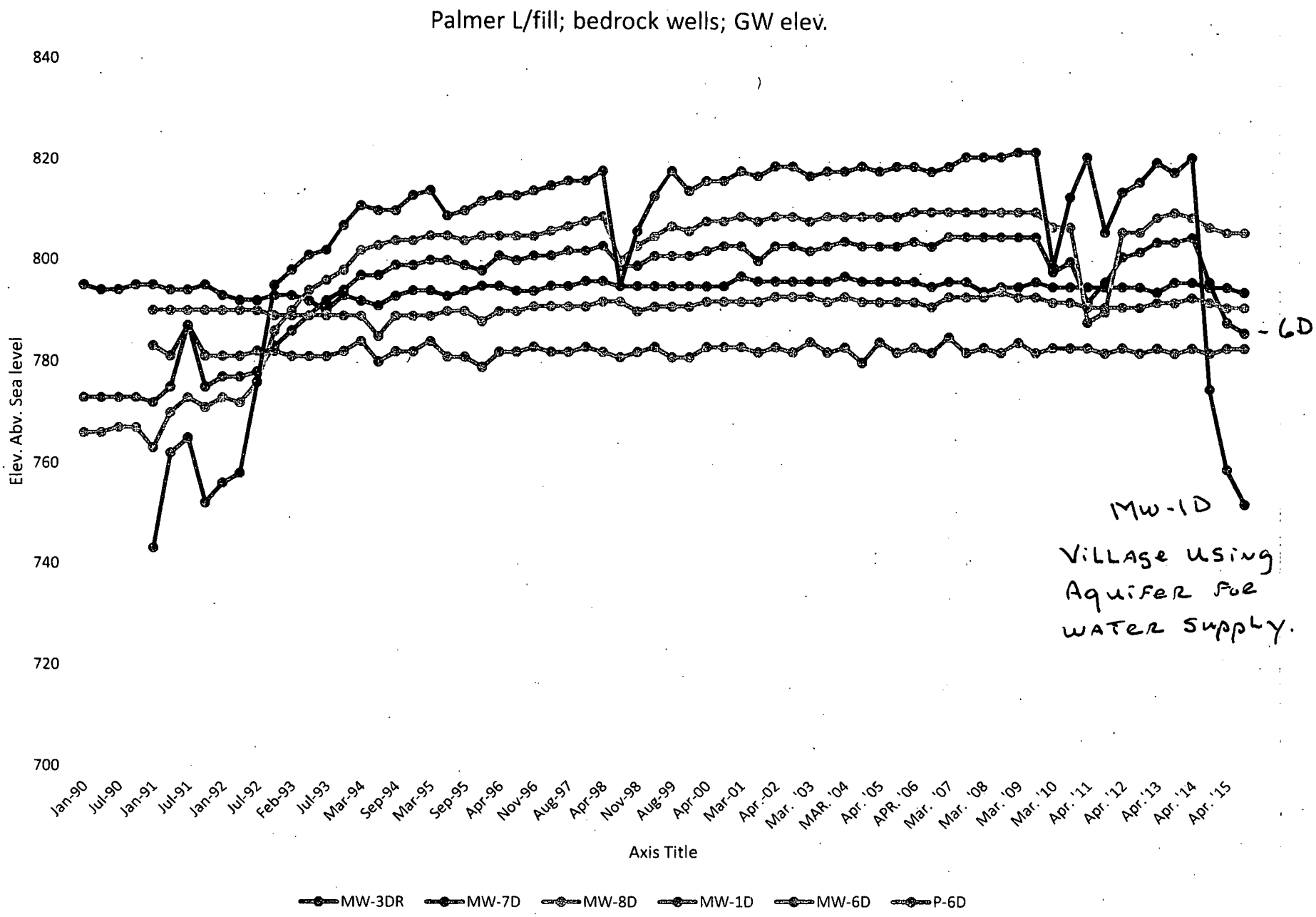
July '15 SAMPLE EVENT:

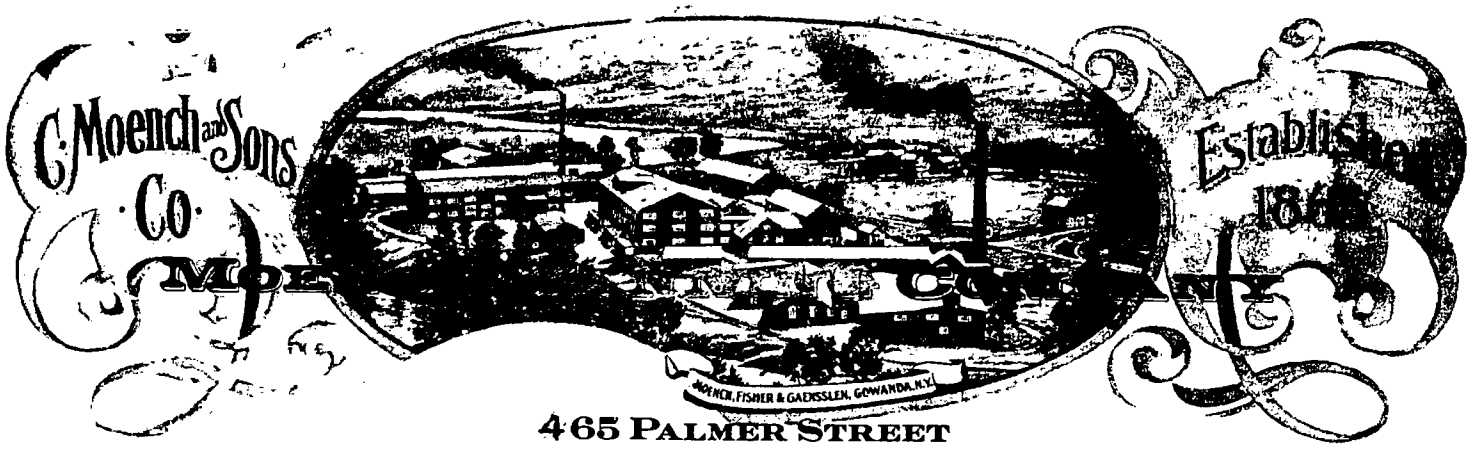
GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP.


Palmer L/fill; bedrock wells; GW elev.
840
820
800
780
760
740
720
700
Elev. Abv. Sea level
Jan-90
Jul-90
Jan-91
Jul-91
Jan-92
Jul-92
Feb-93
Jul-93
Mar-94
Sep-94
Mar-95
Sep-95
Apr-96
Nov-96
Aug-97
Apr-98
Nov-98
Aug-99
Apr-00
Mar-01
Apr-02
Mar. '03
MAR. '04
Apr. '05
APR. '06
Mar. '07
Mar. '08
Mar. '09
Mar. '10
Apr. '11
Apr. '12
Apr. '13
Apr. '14
Apr. '15
Axis Title
MW-3DR
MW-7D
MW-8D
MW-1D
MW-6D
P-6D
-6D
MW-1D
Village using
Aquifer for
water supply.



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GOWANDA, NEW YORK 14070

TEL. 716-532-2201 **FAX 716-532-5518**

PALMER STREET LANDFILL
GROUNDWATER MONITORING

TABLE #8
July '15

calibrated by: Mike Best

RECORD OF CALIBRATION:

Instrument:	date	reading before/after		Test
Slope-Water Level Indicator	7/14	works	MB	Probe response to water.
Grace-Conductivity meter	7/15	1300 at 24°C	MB	Read standardize liquid & calibrate. zero calibrate.
Cole-Parmer(multi meter)				
Ph---	7/15 7/15	7.02 10.02	MB	Calibrate to buffer(s) solutions. ph-7 ph-10
Temperature				Calibrate to standard thermometer.

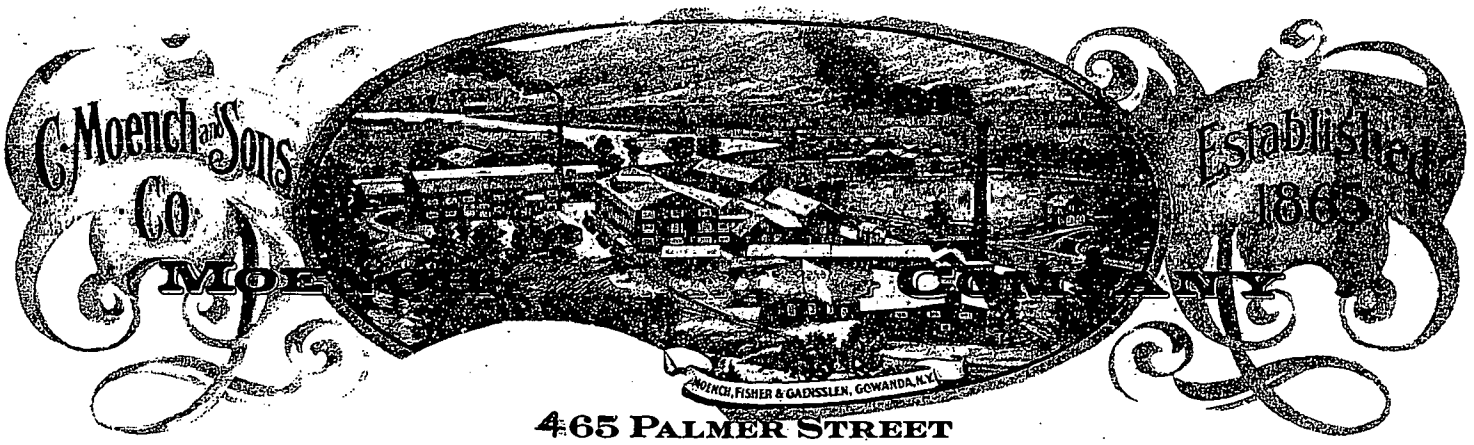

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TABLE #7

revised 8/06

July '15

PALMER STREET LANDFILL
GROUNDWATER MONITORING

EQUIPMENT INVENTORY:

(A) Slope Indicator Co. - Model 51453, water level indicator

✓ (B) W.R. Grace (Dearborn) - Model EP-10, Micromhos meter (conductivity)

✓ (C) Cole-Parmer Instrumentation Co. - Model 5985-80, Ph, temperature °C , with probes.

~~(D) Grundfos Purging System.~~ -Hose, VFD, Generator.

✓ (E) Norton Company - Part #865-3170, Posi-Filter for filtering dissolved metals with filters. And vacuum pump/flask.

✓ (F) Wash bucket (5 gallon) with Alconox soap.

✓ (G)Rinse bucket with D.I. water. -buy 10 gal. distilled at store.
-get 2 gal. lab certified, eqpt. blank.

✓ (H)Rinse bottle with 10% Nitric Acid and water.

✓ (I) five gallon bucket to measure volume purged.

✓ (J) Latex gloves

(K) Required bottles and coolers and ice.

(L)Required field data forms.

(M) Cell Phone

(N) Watch

✓ ~~(O) Head Radio~~

(P) Board to hold Meters & equipment

(Q) Liquid soap/water spray-bees.

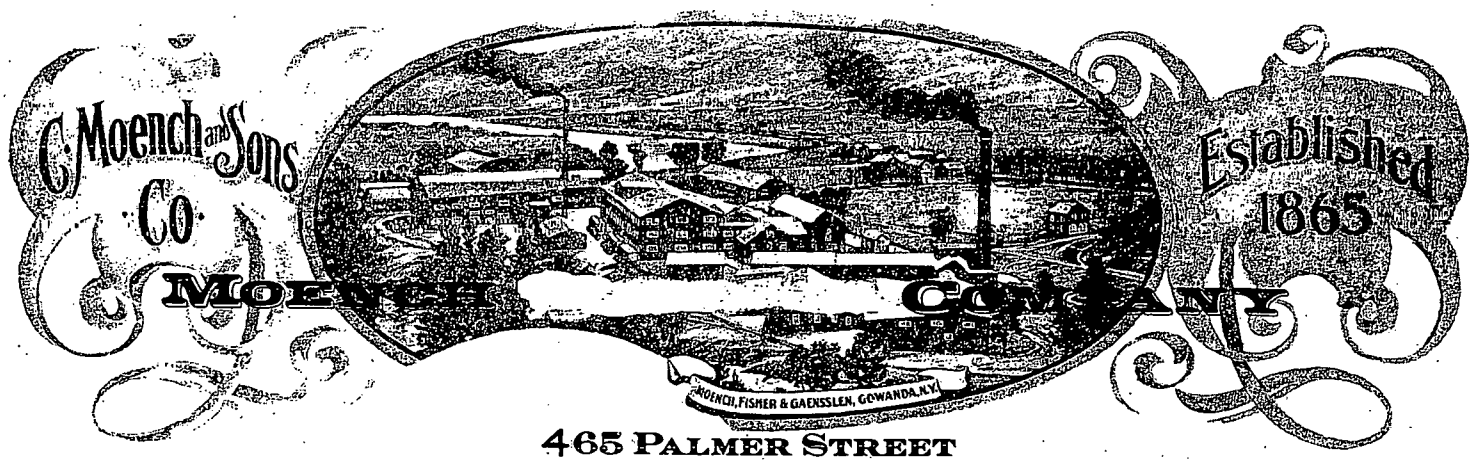
(R) Benedryl-bee sting.

6.0 REFERENCES

1. PALMER STREET LANDFILL CLOSURE/POST CLOSURE PLAN (EPA ID. NYDOO2126910), PREPARED BY MALCOLM PIRNIE, INC. REVISED FEBRUARY 1989. REVISED DECEMBER 2006.
2. PALMER STREET LANDFILL, SUPPLEMENTAL HYDROGEOLOGIC INVESTIGATION, PREPARED BY MALCOLM PIRNIE, INC. JANUARY 1989.
3. SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR GROUNDWATER MONITORING - PALMER STREET LANDFILL. PREPARED BY MALCOLM PIRNIE, INC., AUGUST 1989. REVISED 12/2006.
4. TEST METHODS FOR EVALUATING SOLID WASTE, PHYSICAL/ CHEMICAL METHODS, THIRD EDITION, USEPA OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, NOVEMBER 1986.
5. PALMER STREET LANDFILL, EVALUATION OF ALTERNATIVE COVER SYSTEMS, PREPARED BY MALCOLM PIRNIE, INC., JANUARY 1989.

6 .. COVER SYSTEM PERFORMANCE EVALUATION, PALMER STREET LANDFILL; PREPARED BY MALCOLM PIRNIE, INC. OCTOBER 1995. Second "Evaluation"; 3/99. THIRD EVALUATION; 8/03.(LAST)

7. JULY 27TH, 2006 LETTER FROM GEOMATRIX TO STAN RADON (NYSDEC) DOCUMENTING A JULY 19TH MEETING IN WHICH REVISIONS TO THE GROUNDWATER MONITOIRNG SYSTEM, WERE AGREED UPON.
8. SEPTEMBER 7, 2006 LETTER FROM STAN RADON(NYSDEC) TO JEFFREY SMITH(MOENCH) CONFIRMING AGREEMENT OF REVISED GROUNDWATER MONITORING SYSTEM, AND COVER SYSTEM EVALUATION ELIMINATON.
9. JUNE 19, 2012 LETTER FROM JEFFREY SMITH(BROWN SHOE) TO STAN RADON (NYSDEC)REGARDING ARSENIC AT MW-6.



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APPENDIX "A"

FIELD DATA SHEETS FOR:

July 16th, 2015

MONITORING EVENT:
PALMER STREET LANDFILL

WELL DEVELOPMENT/PURGING LOG

MOENCH COMPANY

PROJECT TITLE: PALMER ST. LANDFILL-GWM

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH - MIKE BEST

DATE: 7-16-15 - 943

FINISH 1003

WELL NO.: (7) MW-3 {USUALLY DRY}

			WELL I.D.	VOL. GAL./FT.
1	TOTAL CASING AND SCREEN LENGTH (ft.)	17.10	1"	0.04
2	CASING INTERNAL DIAMETER (in.)	2"	(2")	(0.17)
3	WATER LEVEL BELOW TOP OF CASING (ft.)	15.85	3"	0.38
4	VOLUME OF WATER IN CASING (gal.)		4"	0.66
			5"	1.04
			6"	1.50
			8"	2.60

V = 0.0408 (^{2} x (1 - 3) = .2 gal.

RARE SAMPLE

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
pH	6.84			NO PURGE - ONLY FOUND ENOUGH FOR 1 SAMPLE						
APPEAR. TURBIDITY	SLIGHT									
CONDUCTIVITY	1800									
Temp °C	13									

COMMENTS:

RARE SAMPLE F PUL TO MUCH RAIN.

WELL DEVELOPMENT/PURGING LOG

BLIND DUP

SITE 6

MOENCH CO.

PROJECT TITLE: PALMER St. LANDFILL - GWM

~~PROJECT NO.~~: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: J. Smith - M. BesT, 2015

DATE: 7-16-15, ~~2015~~ 1007

WELL NO.: MW-3D (8)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	67.70
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	21.34
4	VOLUME OF WATER IN CASING (gal.)	

V = 0.0408 (^{2} x (1 - 3) = 7.9 gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
pH	7.18	7.21	7.20			BLIND DUP				
TURBID APPEAR.	CLEAR	—								
CONDUCTIVITY	506	510								
TEMP °C	13.1									

COMMENTS:

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER St. L/FILL-GW/M TYPE OF SAMPLE: GROUNDWATER - GRAB

~~CLIENT~~: MOENCH CO. LOCATION NO.: MW-3D

~~JOB NO.~~: 2 of 2 SAMPLES 2015 ~~LAB SAMPLE NO.~~:

WELL DATA: DATE: 7/16/15 TIME: 1007

Casing Diameter (inches): 2" Casing Material: PVC

Screened Interval (ft BGS): Screen Material: PVC

Static Water Level Below TOR (ft): Bottom Depth (ft): 67.70

Elevation Top of Well Riser: 810.73 Datum Ground Surface:

PURGING DATA: DATE: 7/16/15 TIME: Start: 1007 Finish: 1022

Method: SUPER NOVA - Pump 12V. Pumping Rate (gal/min): .5 gpm

Well Volumes Purged ($V=\pi R^2H/231$): Was well purged dry? ___ Yes X No

Standing Volume (gal): 8 Was well purged below sand pack? ___ Yes X No

Volume Purged (gal): 15

Well I.D. (inches)	Volume (gal/ft)
(2)	(0.17)
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes ___ No X

Field Personnel: J. SMITH/M. BEST

SAMPLING DATA: DATE: 7/16/15 TIME: Start: 1022 Finish: 1027

Method: TEFLON BAILER Sampler: J. Smith + M. Best

Present Water Level (ft): Air Temperature (°F): 70

Depth of Sample (ft): Weather Conditions: SUNNY

Is sampling equipment dedicated to sample location? Yes * No

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: Finish:

Filtered: * Yes ___ No Cool to 4°C: *

Preservative: ___ H_2SO_4 * HNO_3 ___ NaOH HCl Other

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: * Turbid: Color: 1

Contains Sediment: Odor: SLGT FIN Other:

Temperature (°C): pH: Specific Conductivity (µmhos/cm):

Turbidity (NTU): Other:

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH'd W/SOAP + WATER (3X). RINSED IN DISTIL'd WATER. RINSE WITH 10% NITRIC ACID WASH. FINAL RINSE W/ DISTIL'd WATER.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER St. LANDFILL - GWM

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: J. Smith + M. Best

DATE: 7-16-15, 905

WELL NO.: MW-4SR (4)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	24.92
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	12.42
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^{2} \times (1 - 3) = 2.1$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
pH	6.56	6.52								
TUR. APPEARANCE	TURBID - CLAY PARTICLES									
CONDUCTIVITY	950	980								
Temp °C	13.1	12.4								

COMMENTS:

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER St. LANDFILL-GWM
~~CLIENT~~: MOENCH CO.
~~JOB NO~~: 2 of 2 Annual Events 2015

TYPE OF SAMPLE: GROUNDWATER-GRAB
LOCATION NO.: MW-4SR
~~LAB SAMPLE NO~~.:

WELL DATA: DATE: 7/16/15 TIME: 905

Casing Diameter (inches): 2" Casing Material: PVC
Screened Interval (ft BGS): Screen Material: PVC
Static Water Level Below TOR (ft): Bottom Depth (ft): 24.92
Elevation Top of Well Riser: 806.75 AGL Datum Ground Surface:

PURGING DATA: DATE: 7/16/15 TIME: Start: 905 Finish: 912

Method: DEDICATED BAILER Pumping Rate (gal/min): 1.0
Well Volumes Purged ($V=\pi R^2H/231$): Was well purged dry? ____ Yes X No
Standing Volume (gal): Was well purged below sand pack? X Yes ___ No
Volume Purged (gal):

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes * No
Field Personnel: J. Smith + M. Best

SAMPLING DATA: DATE: 7/16/15 TIME: Start: 912 Finish: 916

Method: DEDICATED BAILER Sampler: J. Smith - Mike Best
Present Water Level (ft): Air Temperature (°F):
Depth of Sample (ft): Weather Conditions:
Is sampling equipment dedicated to sample location? Yes * No

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: — Finish: —

Filtered: * Yes ____ No Cool to 4°C: *
Preservative: ____ H_2SO_4 * HNO_3 ____ NaOH HCl Other

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: ____ Turbid: * Color: ORANGE
Contains Sediment: Odor: ND Other:
Temperature (°C): pH: Specific Conductivity (µmhos/cm):
Turbidity (NTU): Other:

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH w/SOAP + WATER (3X). RINSED With DISTL'd WATER. RINSED With 10% NITRIC ACID WASH. FINAL RINSE w/DISTILL'd WATER.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH - MikeBest

DATE: 7-16-15, 920

WELL NO.: MW-4D (5)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	74.94
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	15.25
4	VOLUME OF WATER IN CASING (gal.)	

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$V = 0.0408 (\ ^{2} \times (1 - 3) = 10.2$ gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
PH	7.27	7.19								
VISUAL TURBIDITY	Clear									
CONDUCTIVITY	700	710								
TEMP. °C	13.2									

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. L/F - G.W.M. MOENCH CO. 2 OF 2 ANNUAL EVENTS 2015

TYPE OF SAMPLE: GROUND WATER

LOCATION NO.: MW-4D

WELL DATA: DATE: 7/16/15 TIME: 920

Casing Diameter (inches): 2" Casing Material: PVC

Screened Interval (ft BGS): Screen Material: PVC

Static Water Level Below TOR (ft.): Bottom Depth (ft.) 74.94

Elevation Top of Well Riser: 805.93 Datum Ground Surface:

Elevation Top of Screen: 72.9

PURGING DATA: DATE: 7/16/15 TIME: Start: 920 Finish: 931

Method: ELECTRIC PUMP - NOT DEDICT'd Pumping Rate (gal/min): 1-2 gpm

Well Volumes Purged ($\pi R^2 H/231$): Was well purged dry? Yes ___ No X

Standing Volume (GAL.) 10 Was Well purged below sand pack? Yes ___ No X

Volume Purged (GAL.) 16

Well I.D. (inches)	Volume (gal/ft)
(2)	(0.17)
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes ___ No *

Field Personnel: JSmith - Mike BesT

SAMPLING DATA: DATE: 7/16/15 TIME: Start: 931 Finish: 935

Method: DEDICATED BAILER Sampler: JS + MB

Present Water Level (ft.): Air Temperature (F°): 70

Depth of Sample (ft.): Weather Conditions: SUNY

Is sampling equipment dedicated to sample location: Yes * No ___

Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: ___ Finish: ___

Filtered: Yes * No ___ Cool to 4°C: *

Preservative: H_2SO_4 ___ HNO_3 * NaOH ___ Other HCl

PHYSICAL AND CHEMICAL

Appearance: Clear: * Turbid: ___ Color: ___

Contains Sediment ___ Odor: NO Other: ___

Temperature (°C): ___ pH ___ Specific Conductivity (μmhos/cm): ___

Turbidity (NTU): ___ Other: ___

E. FLASK +/OR

REMARKS: NA - NOT APPLICABLE. TEFLON BAILER USED FOR SAMPLE WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER/ RINSED WITH 10% NITRIC ACID WASH, THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

Dry

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - GWM

~~PROJECT NO.~~: 2 OF 2 SAMPLES, ANNUALLY.

STAFF: J. Smith & M. Best

DATE: 7-16-15 900

WELL NO.: MW-5(3) {USUALLY DRY} DRY

		WELL I.D.	VOL. GAL./FT.
1	TOTAL CASING AND SCREEN LENGTH (ft.) 18.15	1"	0.04
2	CASING INTERNAL DIAMETER (in.) 2"	(2")	(0.17)
3	WATER LEVEL BELOW TOP OF CASING (ft.)	3"	0.38
4	VOLUME OF WATER IN CASING (gal.) NO SMPL	4"	0.66
		5"	1.04
		6"	1.50
		8"	2.60

V = 0.0408 (^{2} x (1 - 3) = _____ gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	INIT.										
Ph											
TURBID APPEAR.											
CONDUCTIVITY											
TEMP °C											

Dry

COMMENTS:

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - GWM

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: J. Smith - Mike Best

DATE: 7-16-15, 830

WELL NO.: MW-6 (2)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	18.78
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	15.90
4	VOLUME OF WATER IN CASING (gal.)	

V = 0.0408 (^{2} x (1 - 3) = .49 gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
Ph	6.64	6.65								
TURBID. APPEAR.	TURBID	- BLACK								
CONDUCTIVITY	1400	1400								
Temp °C	15.5	15.								

COMMENTS:

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER ST. LANDFILL
CLIENT: MOENCH CO.
~~JOB NO.~~: 2 OF 2 ANNUAL EV. 2015
TYPE OF SAMPLE: GROUNDWATER
LOCATION NO.: MW-6
~~LAB SAMPLE NO~~.:

WELL DATA: DATE: 7/16/15 TIME: 830
Casing Diameter (inches): 2" Casing Material: PVC
Screened Interval (ft BGS): Screen Material: PVC
Static Water Level Below TOR (ft): Bottom Depth (ft): 18.78
Elevation Top of Well Riser: 800.48 ASL Datum Ground Surface:

PURGING DATA: DATE: 7/16/15 TIME: Start: 830 Finish: 840
Method: DEDICATED WHALE PUMP Pumping Rate (gal/min): 1.0
Well Volumes Purged ($V=\pi R^2H/231$): Was well purged dry? ____ Yes ____ No
Standing Volume (gal): Was well purged below sand pack? ___ Yes ___ No
Volume Purged (gal):

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes X No
Field Personnel: J. Smith + MiB

SAMPLING DATA: DATE: 7/16/15 TIME: Start: 840 Finish: 850
Method: DEDICATED PUMP Sampler: J. Smith - MikeBest
Present Water Level (ft): Air Temperature (°F): 63
Depth of Sample (ft): Weather Conditions: Sunny
Is sampling equipment dedicated to sample location? Yes X No

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: Finish:
Filtered: * Yes No Cool to 4°C: *
Preservative: ____ H_2SO_4 * HNO_3 ____ NaOH HCl Other

PHYSICAL AND CHEMICAL DATA:
Appearance: Clear: Turbid: X Color: BLACK
Contains Sediment: Odor: Other:
Temperature (°C): pH: Specific Conductivity (umhos/cm):
Turbidity (NTU): Other:

REMARKS: DEDICATED BAILER FOR SAMPLE, & FILTER EQUIPMNT. WASHED (3X), RINSED with LAB GRADE WATER. RINSED w/ 10% NITRIC ACID WASH. FINAL RINSE D.I. WATER.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH - MIKE BEST

DATE: 7-16-15, 800

WELL NO.: MW-6D (1)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	37.03
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	17.62
4	VOLUME OF WATER IN CASING (gal.)	

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

$V = 0.0408 (\ ^{2} \times (1 - 3) = 3.3$ gal.

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
PH	7.42	7.43								
TURBIDITY	Clear									
CONDUCTIVITY	1200	1200								
TEMP. °C	14.0	13.9								

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
: MOENCH .CO.
2 OF 2 ANNUAL EVENTS.
2015

TYPE OF SAMPLE: GROUNDWATER
LOCATION NO.: MW-6D

WELL DATA: DATE: 7/16/15 TIME: 800

Casing Diameter (inches): 2	Casing Material: PVC
Screened Interval (ft BGS): NA	Screen Material: PVC
Static Water Level Below TOR (ft.):	Bottom Depth (ft.) 37.03
Elevation Top of Well Riser: 800.63	Datum Ground Surface:
Elevation Top of Screen: NA	

PURGING DATA: DEDICATED DATE: 7-16-15 TIME: Start: 800 Finish: 817

Method: TEFLON BAILER-HAND Pumping Rate (gal/min): ~ 5gpm

Well Volumes Purged (##"N/231): Was well purged dry? Yes ____ No X

Standing Volume (GAL.) ____ Was well purged below sand pack? Yes X No ____

Volume Purged (GAL.) ____

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes * No ____

Field Personnel: JS + MB

SAMPLING DATA: DATE: 7-16-15 TIME: Start: 817 Finish: 821

Method: DEDIC. TEFLON BAILER-HAND Sampler: J.Smith · Mike Best

Present Water Level (ft.): Air Temperature (F°): 60's

Depth of Sample (ft.): Weather Conditions: SUNNY

Is sampling equipment dedicated to sample location: Yes * No ____

Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: ____ Finish: ____

Filtered: Yes * No ____ Cool to 4°C: *

Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other HCl

PHYSICAL AND CHEMIC

Appearance: Clear: * Turbid: ____	Color: ____
Contains Sediment ____	Odor: NO Other: ____
Temperature (°C): ____ pH ____	Specific Conductivity (µmhos/cm): ____
Turbidity (NTU): ____	Other: ____

E. FLASK +/OR

REMARKS: TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO.

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH + Mike Best

DATE: 7-16-15 ; 1137

WELL NO.: MW-7D (11)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	41.90
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	6.41
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = 6.0$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
"PH"	7.37	7.43								
TURBIDITY		Clear								
CONDUCTIVITY	660	670								
TEMP. °C	14.1									

COMMENTS:

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
: MOENCH CO.
NO.: 2 OF 3 ANNUAL EVENTS 2015

TYPE OF SAMPLE: GROUND WATER
LOCATION NO.: MW-7D
NO.: —

WELL DATA: DATE: 7/16/15 TIME: 1137
Casing Diameter (inches): 2 Casing Material: PVC
Screened Interval (ft BGS): 34-39 Screen Material: PVC
Static Water Level Below TOR (ft.): Bottom Depth (ft.) 41.90
Elevation Top of Well Riser: 800.39 Datum Ground Surface:
Elevation Top of Screen: 763.50

PURGING DATA: DATE: 7/16/15 TIME: Start: 1137 Finish: 1150
Method: TEFLON BAILER MANUAL Pumping Rate (gal/min): .5 gpm
Well Volumes Purged (πR²H/231): Was well purged dry? Yes ____ No X
Standing Volume (GAL.) 6 Was Well purged below sand pack? Yes ____ No X
Volume Purged (GAL.) 11

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes * No ____
Field Personnel: J. SMITH + M. BEST

SAMPLING DATA: DATE: 7-16-15 TIME: Start: 1150 Finish: 1200
Method: TEFLON BAILER Sampler: JSmith + M. Best
Present Water Level (ft.): Air Temperature (F°): 75
Depth of Sample (ft.): Weather Conditions: SUNNY
Is sampling equipment dedicated to sample location: Yes * No ____
Source and type of water used in field for QC purposes: Isichem LAB

PRESERVATION DATA: DATE: 7/2/15 Isichem TIME: Start: ____ Finish: ____
Filtered: Yes * No ____ Cool to 4°C: *
Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other HCl

PHYSICAL AND CHEMICAL
Appearance: Clear: * Turbid: ____ Color: ____
Contains Sediment ____ Odor: NO Other: ____
Temperature (°C): ____ pH ____ Specific Conductivity (μmhos/cm): ____
Turbidity (NTU): ____ Other: ____

E. FLASK +/OR
REMARKS: TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LAB. WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH CO. YEAR - '15

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH - MIKE BEST

DATE: 7/16/15, 1055

WELL NO.: MW-8D (10)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	127.70
2	CASING INTERNAL DIAMETER (in.)	2"
3	WATER LEVEL BELOW TOP OF CASING (ft.)	40.10
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = 14.9$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
(2")	(0.17)
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)									
	INIT.									
"PH"	7.11	7.18								
TURBIDITY	clear									
CONDUCTIV.	480	480								
TEMP. °C	13.2									

COMMENTS: Pump Hose Needs - Discharge LEAKS - Repair

WATER SAMPLING FIELD DATA SHEETS

PROJECT: PALMER ST. LANDFILL
MOENCH COMPANY
2 OF 2 ANNUAL EVENTS
2015

TYPE OF SAMPLE: GROUND WATER-GRAB
LOCATION NO.: MW-8D

WELL DATA:
DATE: 7/16/15
TIME: 1055
Casing Diameter (inches): 2"
Casing Material: PVC
Screened Interval (ft BGS): NA
Screen Material: PVC
Static Water Level Below TOR (ft.):
Bottom Depth (ft.) 127.70
Elevation Top of Well Riser: 821.89
Datum Ground Surface: —
Elevation Top of Screen: NA

PURGING DATA: DEDICATED DATE: 7-16-15
TIME: Start: 1055 Finish: 1117
Method: ELECTRIC Pump -80, 12V. Whale
Pumping Rate (gal/min): 1-2 gPM
Well Volumes Purged (πr²h/231):
Was well purged dry? Yes ___ No X
Standing Volume (GAL.) 15
Was Well purged below sand pack? Yes ___ No X
Volume Purged (GAL.) 20

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes * No ___
Field Personnel: JS + M. BEST

SAMPLING DATA: DATE: 7-16-15
TIME: Start: 1117 Finish: 1129
Method: DEDICATE BAILER -
Sampler: JS + MB
Present Water Level (ft.):
Air Temperature (F°): 70
Depth of Sample (ft.):
Weather Conditions: SUNNY
Is sampling equipment dedicated to sample location: Yes * No ___
Source and type of water used in field for QC purposes: IsleChem LAB

PRESERVATION DATA: DATE: 7/2/15 IsleChem.
TIME: Start: ___ Finish: ___
Filtered: Yes * No ___
Cool to 4°C: *
Preservative: H_2SO_4 ___ HNO_3 * NaOH ___ Other HCl

PHYSICAL AND CHEMICAL
Appearance: Clear: X Turbid: ___ Color: ___
Contains Sediment ___ Odor: NO Other: ___
Temperature (°C): ___ pH ___ Specific Conductivity (μmhos/cm): ___
Turbidity (NTU): ___ Other: ___

E. FLASK +/OR

REMARKS: TEFLON BAILER USED FOR SAMPLING WAS WASHED WITH SOAP, RINSED WITH LAB. WATER / RINSED WITH 10% NITRIC WASH THEN FINAL RINSE WITH LAB. GRADE WATER PRIOR TO USE.

WATER SAMPLING FIELD DATA SHEETS BS-1

PROJECT: PALMER ST. LANDFILL
MOENCH CO.
2 OF 2 ANNUAL EVENTS.
2015

TYPE OF SAMPLE: SURFACE/GROUND WATER
LOCATION NO.: BS-1
(BANK SEEP SOUTH OF MW6)

WELL DATA: DATE: TIME:
Casing Diameter (inches): N/A
Casing Material: N/A
Screened Interval (ft BGS):
Screen Material:
Static Water Level Below TOR (ft.):
Bottom Depth (ft.)
Elevation Top of Well Riser:
Datum Ground Surface:
Elevation Top of Screen:

PURGING DATA: DATE: TIME: Start: Finish:
Method: NA
Pumping Rate (gal/min): N/A
Well Volumes Purged (ft^3/231): NA
Was well purged dry? Yes ____ No ____
Standing Volume (GAL.) NA
Was well purged below sand pack? Yes ____ No ____
Volume Purged (GAL.) NA

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location? Yes * No ____
Field Personnel: JS + MB

NO SEEP

SAMPLING DATA: DATE: TIME: Start: Finish:
Method: SURFACE WATER GRAB
Sampler: J.Smith - Mike Best
Presence Water Level (ft.): NA
Air Temperature (F°):
Depth of Sample (ft.): NA
Weather Conditions:
Is sampling equipment dedicated to sample location: Yes * No ____
Source and type of water used in field for QC purposes: Islechem LAB

PRESERVATION DATA: DATE: 7/2/15 Islechem TIME: Start: Finish:
Filtered: Yes * No ____
Cool to 4°C: *
Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other HCl

PHYSICAL AND CHEMIC
Appearance: Clear: ____ Turbid: ____
Color:
Contains Sediment
Odor: Other:
Temperature (°C): pH
Specific Conductivity (mhos/cm):
Turbidity (NTU):
Other:

E. FLASK +/OR

REMARKS: NA - NOT APPLICABLE - TEFLON BAILER USED FOR SAMPLE WAS WASHED WITH SOAP, RINSED WITH LABORATORY WATER - RINSED WITH 10% NITRIC ACID WASH, FINAL RINSE WITH LAB. GRADE WATER, PRIOR TO EACH USE.

WATER SAMPLING FIELD DATA SHEET

PROJECT: PALMER ST. LANDFILL
~~CLIENT~~: MOENCH CO.
~~JOB NO.~~: 2 OF 2 ANNUAL EV. 2015

TYPE OF SAMPLE: GROUNDWATER - GRAB
LOCATION NO.: BS-2
~~LAB SAMPLE NO.~~:

WELL DATA: DATE: 7/16/15 TIME: 935

Casing Diameter (inches):
Screened Interval (ft BGS):
Static Water Level Below TOR (ft):
Elevation Top of Well Riser:

Casing Material: NO
Screen Material: SCREEN
Bottom Depth (ft):
Datum Ground Surface:

PURGING DATA: DATE: NA TIME: Start: Finish:

Method:
Well Volumes Purged ($V=\pi R^2H/231$):
Standing Volume (gal):
Volume Purged (gal):
Is purging equipment dedicated to sample location? Yes No
Field Personnel:

Pumping Rate (gal/min):
Was well purged dry? Yes No
Was well purged below sand pack? Yes No

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

SAMPLING DATA: DATE: TIME: Start: Finish:

Method: GRAB
Present Water Level (ft):
Depth of Sample (ft):
Is sampling equipment dedicated to sample location? Yes No *

Sampler: J. Smith - M. Best
Air Temperature (°F):
Weather Conditions:

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: Finish:

Filtered: * Yes No
Cool to 4°C: *
Preservative: H_2SO_4 * HNO_3 NaOH HCL Other

PHYSICAL AND CHEMICAL DATA:

Appearance: Clear: Turbid: Color:
Contains Sediment: Odor: Other:
Temperature (°C): pH: Specific Conductivity (umhos/cm):
Turbidity (NTU): Other:

REMARKS: SAMPLE/FILTER EQUIPMENT: WASH W/SOAP + WATER (3X). RINSED W/ DISTL'd WATER. RINSE WITH 10% NITRIC ACID WASH. FINAL RINSE W/ DISTL'd WATER.

WATER SAMPLING FIELD DATA SHEETS BS-3 (9)

PROJECT: PALMER ST. LANDFILL
MOENCH CO.
2 OF 2 ANNUAL EVENTS
2015

TYPE OF SAMPLE: SURFACE/GROUND WATER
LOCATION NO.: BS-3 (BANK SEEP SOUTH OF MW-3)

WELL DATA: DATE: 7/16/15 TIME: 1030

Casing Diameter (inches): NA
Screened Interval (ft BGS):
Static Water Level Below TOR (ft.):
Elevation Top of Well Riser:
Elevation Top of Screen:

Casing Material: N/A
Screen Material:
Bottom Depth (ft.)
Datum Ground Surface:

PURGING DATA: DATE: [redacted] TIME: Start: [redacted] Finish: [redacted]

Method: NA
Well Volumes Purged (πr²h/231): NA
Standing Volume (GAL.) NA
Volume Purged (GAL.) NA

Pumping Rate (gal/min): N/A
Was well purged dry? Yes ____ No ____
Was well purged below sand pack? Yes ____ No ____

Well I.D. (inches)	Volume (gal/ft)
2	0.17
4	0.66
6	1.50

Is purging equipment dedicated to sample location?
Yes X No ____

Field Personnel: J.SMith + M. BEST

SAMPLING DATA: DATE: 7-16-15 TIME: Start: 1030 Finish: 1050

Method: SURFACE WATER GRAB
Present Water Level (ft.): NA
Depth of Sample (ft.): NA
Is sampling equipment dedicated to sample location: Yes * No ____
Source and type of water used in field for QC purposes: IsleChem LAB

Sampler: J.SMith + M. BEST
Air Temperature (F°): 75
Weather Conditions: SUNNY

PRESERVATION DATA: DATE: 7/2/15 IsleChem TIME: Start: ____ Finish: ____

Filtered: Yes * No ____
Preservative: H_2SO_4 ____ HNO_3 * NaOH ____ Other * HCl

Cool to 4°C: *

PHYSICAL AND CHEMICAL

Appearance: Clear: ____ Turbid: * Contains Sediment ____

Color: Red MUCH IRON
Odor: NO Other: ____

Temperature (°C): 9.0 pH 7.01
Turbidity (NTU): ____

Specific Conductivity (µmhos/cm): 800
Other: ____

REMARKS: N/A - NOT APPLIC. E. FLASK +/OR TEFLON BAILER USED FOR SAMPLING/FILTERING, WAS WASHED WITH ALCONOX SOAP RINSED W/ LAB GRADE WATER, RINSED W/ 10% NITRIC WASH, FINAL RINSE WITH LAB GRADE WATER PRIOR TO USE.

WELL DEVELOPMENT/PURGING LOG

MOENCH COMPANY

PROJECT TITLE: PALMER ST. LANDFILL - G.W.M.

PROJECT NO.: 2 OF 2 ANNUAL EVENTS, 2015

STAFF: JEFF SMITH / Mike Best

DATE: 7-16-15, 1210

WELL NO.: Equipment BLANK (12)

1	TOTAL CASING AND SCREEN LENGTH (ft.)	NA
2	CASING INTERNAL DIAMETER (in.)	
3	WATER LEVEL BELOW TOP OF CASING (ft.)	
4	VOLUME OF WATER IN CASING (gal.)	

$V = 0.0408 (\quad ^2 \times (1 - 3) = NA$ gal.

WELL I.D.	VOL. GAL./FT.
1"	0.04
2"	0.17
3"	0.38
4"	0.66
5"	1.04
6"	1.50
8"	2.60

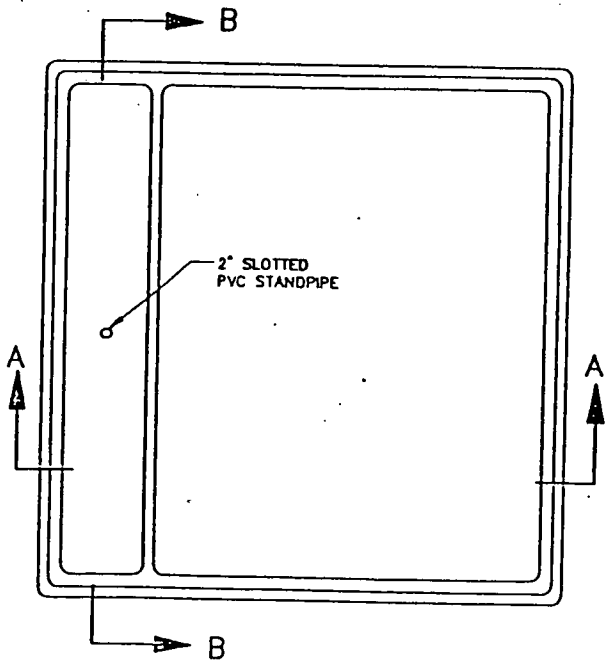
PARAMETERS	ACCUMULATED VOLUME PURGED (GALLONS)										
	ONLY										
"pH"	4.53				D.I.						
VISUAL TURBIDITY	clear				WATER	FM					
CONDUCTIVITY	290				IsleChem						
Temp. °C	9.6										

COMMENTS:

D.I. WATER (Q.C) FROM: IsleChem Lab.

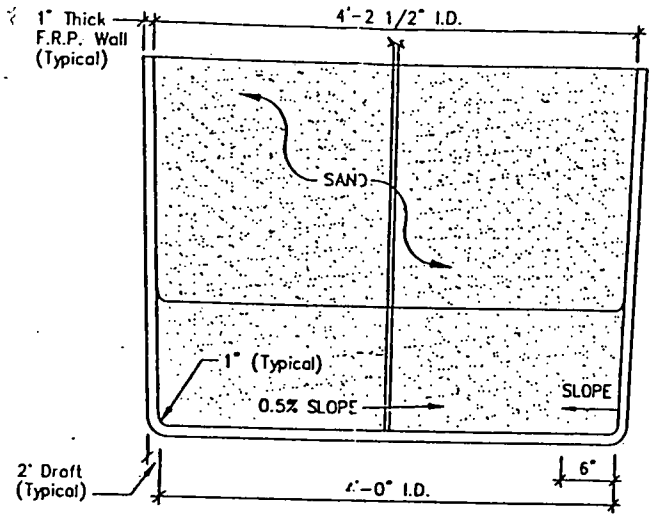
APPENDIX B

INFILTROMETER DESIGN

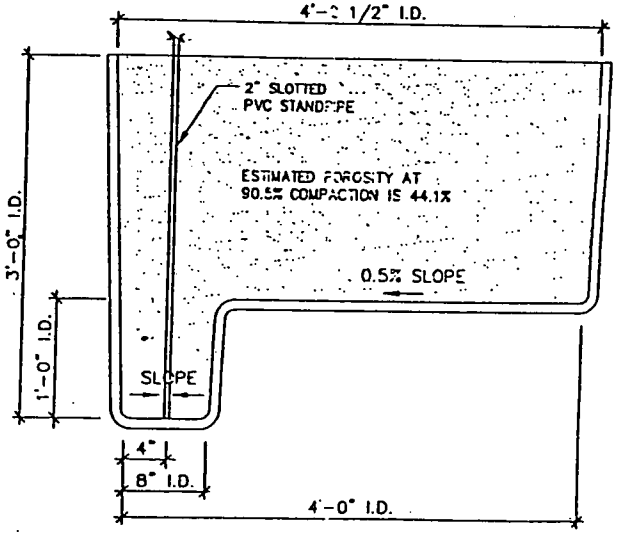


PLAN

SECTION B–B



SECTION A–A

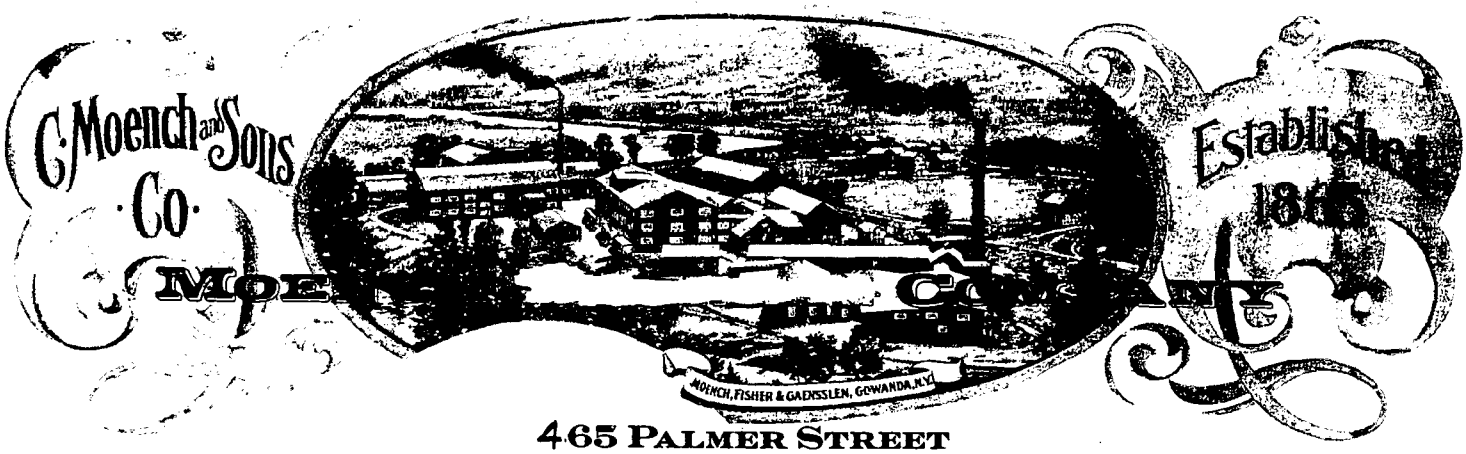


TYPICAL INFILTROMETER BY HEY'S ENTERPRISES
AS INSTALLED AT PALMER STREET LANDFILL

INFILTROMETER

MTC-23-INF

MOENCH TANNING COMPANY 3/20 [illegible]



465 PALMER STREET
GOWANDA, NEW YORK 14070

TEL. 716-532-2201

FAX 716-532-5518

APPENDIX "C"

ANALYTICAL REPORT FROM LABORATORY:

FOR July 16, 2015

MONITORING EVENT....

PALMER STREET LANDFILL

IsleChem™ LLC
Grand Island, NY

2801 Long Road
Grand Island, NY 14072
(716) 773-8401
(800) 699-8606
(716) 773-8517 (fax)
www.islechem.com

Analysis Report

Client	Moench Company	Project	Palmer Street Landfill Routine Parameter List
	465 Palmer Street Gowanda, NY 14070		

Report Date	7/24/2015
Status	Final
ID	**NY1507104.0.44720**
Batch Sample	
Date	7/16/2015
Time	15:00
Description	Palmer Street Landfill
Received	7/17/2015
Time:	13:30
Batch Contact	Jeffrey Smith

Authorized Signature Mary Ferguson

Mary Ferguson, Manager of Chemical Testing

The following result table is for 12 samples received by IsleChem LLC on 7/17/2015 sampled by Client on 7/16/2015 and submitted by Client

Also enclosed are the Chain of Custody and Sample Receipt check list for this project.

Narrative:
Analyses were performed within the required holding times unless otherwise noted below. All quality control results were within acceptable limits unless specifically noted in the report. Quality control analyses were performed on the samples in this report or samples of similar matrix that were analyzed in the analytical batch on the dates indicated in the report.

Notes:

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0717-1	MW-6D - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		MF	302060	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302060	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302060	2015-07-24
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302061-302062	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302061-302062	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302061-302062	2015-07-17
104-0716-2	MW-6 - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**0.032**	mg/L		MF	302063	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302063	2015-07-24

Sample Results

Report ID NY1507104.0.44720
Client Moench Company

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-2	MW-6 - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Lead, Dissolved	**< 0.01**	mg/L		MF	302063	2015-07-24
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
1,2-Dichloroethane	**2.2**	ug/L		RRS	302064-302065	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302064-302065	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302064-302065	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302064-302065	2015-07-17
104-0716-4	MW-4SR - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		MF	302066	2015-07-24
Chromium, Dissolved	**0.011**	mg/L		MF	302066	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302066	2015-07-24

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-4	MW-4SR - Ground Water Sampled 7/16/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302067-302068	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302067-302068	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302067-302068	2015-07-17
104-0716-5	MW-4D - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		MF	302069	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302069	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302069	2015-07-24
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302070-302071	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302070-302071	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-5	MW-4D - Ground Water Sampled 7/16/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl chloride	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Chloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Acetone	< 10.0	ug/L		RRS	302070-302071	2015-07-17
1,1-Dichloroethene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Carbon Disulfide	< 2.0	ug/L		RRS	302070-302071	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,1-Dichloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	302070-302071	2015-07-17
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,2-Dichloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Carbon tetrachloride	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Benzene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302070-302071	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302070-302071	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Toluene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
2-Hexanone	< 10.0	ug/L		RRS	302070-302071	2015-07-17
Dibromochloromethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Tetrachloroethene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Chlorobenzene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Ethyl benzene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
m,p-Xylene	< 10.0	ug/L		RRS	302070-302071	2015-07-17
Bromoform	< 2.0	ug/L		RRS	302070-302071	2015-07-17
Styrene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
o-Xylene	< 2.0	ug/L		RRS	302070-302071	2015-07-17
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	302070-302071	2015-07-17
104-0716-6	Blind Dup - Ground Water Sampled 7/16/2015					
Metals						
Field Duplicate	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	< 0.005	mg/L		MF	302072	2015-07-24
Chromium, Dissolved	< 0.01	mg/L		MF	302072	2015-07-24
Lead, Dissolved	< 0.01	mg/L		MF	302072	2015-07-24
Volatiles						
Field Duplicate	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	< 10.0	ug/L		RRS	302073-302074	2015-07-17
Chloromethane	< 2.0	ug/L		RRS	302073-302074	2015-07-17
Vinyl chloride	< 2.0	ug/L		RRS	302073-302074	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302073-302074	2015-07-17

Sample Results

Report ID NY1507104.0.44720
Client Moench Company

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-6	Blind Dup - Ground Water Sampled 7/16/2015					
Volatiles						
Field Duplicate	Method: EPA 8260C / Prep: EPA 5030C					
Chloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302073-302074	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302073-302074	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302073-302074	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302073-302074	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302073-302074	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302073-302074	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302073-302074	2015-07-17
104-0716-7	MW-3 - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**0.008**	mg/L		MF	302075	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302075	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302075	2015-07-24
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302076-302077	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302076-302077	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302076-302077	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302076-302077	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302076-302077	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302076-302077	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-7 MW-3 - Ground Water Sampled 7/16/2015						
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
1,1-Dichloroethene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Carbon Disulfide	< 2.0	ug/L		RRS	302076-302077	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,1-Dichloroethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	302076-302077	2015-07-17
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,2-Dichloroethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Carbon tetrachloride	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Benzene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302076-302077	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302076-302077	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Toluene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
2-Hexanone	< 10.0	ug/L		RRS	302076-302077	2015-07-17
Dibromochloromethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Tetrachloroethene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Chlorobenzene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Ethyl benzene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
m,p-Xylene	< 10.0	ug/L		RRS	302076-302077	2015-07-17
Bromoform	< 2.0	ug/L		RRS	302076-302077	2015-07-17
Styrene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
o-Xylene	< 2.0	ug/L		RRS	302076-302077	2015-07-17
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	302076-302077	2015-07-17
104-0716-8 MW-3D - Ground Water Sampled 7/16/2015						
Metals						
Field Grab Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3						
Arsenic, Dissolved	< 0.005	mg/L		MF	302078	2015-07-24
Chromium, Dissolved	< 0.01	mg/L		MF	302078	2015-07-24
Lead, Dissolved	< 0.01	mg/L		MF	302078	2015-07-24
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
Vinyl acetate	< 10.0	ug/L		RRS	302079-302080	2015-07-17
Chloromethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Vinyl chloride	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Chloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Acetone	< 10.0	ug/L		RRS	302079-302080	2015-07-17
1,1-Dichloroethene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302079-302080	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-8 MW-3D - Ground Water Sampled 7/16/2015						
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
Carbon Disulfide	< 2.0	ug/L		RRS	302079-302080	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,1-Dichloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	302079-302080	2015-07-17
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,2-Dichloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Carbon tetrachloride	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Benzene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302079-302080	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302079-302080	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Toluene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
2-Hexanone	< 10.0	ug/L		RRS	302079-302080	2015-07-17
Dibromochloromethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Tetrachloroethene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Chlorobenzene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Ethyl benzene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
m,p-Xylene	< 10.0	ug/L		RRS	302079-302080	2015-07-17
Bromoform	< 2.0	ug/L		RRS	302079-302080	2015-07-17
Styrene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
o-Xylene	< 2.0	ug/L		RRS	302079-302080	2015-07-17
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	302079-302080	2015-07-17
104-0716-9 BS-3 - Ground Water Sampled 7/16/2015						
Metals						
Field Grab Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3						
Arsenic, Dissolved	0.005	mg/L		MF	302081	2015-07-24
Chromium, Dissolved	< 0.01	mg/L		MF	302081	2015-07-24
Lead, Dissolved	< 0.01	mg/L		MF	302081	2015-07-24
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
Vinyl acetate	< 10.0	ug/L		RRS	302082-302083	2015-07-17
Chloromethane	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Vinyl chloride	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Chloroethane	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Acetone	< 10.0	ug/L		RRS	302082-302083	2015-07-17
1,1-Dichloroethene	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302082-302083	2015-07-17
Carbon Disulfide	< 2.0	ug/L		RRS	302082-302083	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302082-302083	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-9	BS-3 - Ground Water Sampled 7/16/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302082-302083	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302082-302083	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302082-302083	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302082-302083	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302082-302083	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302082-302083	2015-07-17
104-0716-10	MW-8D - Ground Water Sampled 7/16/2015					
Metals						
Field Grab	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		MF	302084	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302084	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302084	2015-07-24
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302085-302086	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302085-302086	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302085-302086	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302085-302086	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-10 MW-8D - Ground Water Sampled 7/16/2015						
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302085-302086	2015-07-17
1,2-Dichloroethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Carbon tetrachloride	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Benzene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302085-302086	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302085-302086	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Toluene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
2-Hexanone	< 10.0	ug/L		RRS	302085-302086	2015-07-17
Dibromochloromethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Tetrachloroethene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Chlorobenzene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Ethyl benzene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
m,p-Xylene	< 10.0	ug/L		RRS	302085-302086	2015-07-17
Bromoform	< 2.0	ug/L		RRS	302085-302086	2015-07-17
Styrene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
o-Xylene	< 2.0	ug/L		RRS	302085-302086	2015-07-17
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	302085-302086	2015-07-17
104-0716-11 MW-7D - Ground Water Sampled 7/16/2015						
Metals						
Field Grab Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3						
Arsenic, Dissolved	< 0.005	mg/L		MF	302087	2015-07-24
Chromium, Dissolved	< 0.01	mg/L		MF	302087	2015-07-24
Lead, Dissolved	< 0.01	mg/L		MF	302087	2015-07-24
Volatiles						
Field Grab Method: EPA 8260C / Prep: EPA 5030C						
Vinyl acetate	< 10.0	ug/L		RRS	302088-302089	2015-07-17
Chloromethane	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Vinyl chloride	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Chloroethane	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Acetone	< 10.0	ug/L		RRS	302088-302089	2015-07-17
1,1-Dichloroethene	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Carbon Disulfide	< 2.0	ug/L		RRS	302088-302089	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302088-302089	2015-07-17
1,1-Dichloroethane	< 2.0	ug/L		RRS	302088-302089	2015-07-17
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	302088-302089	2015-07-17
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302088-302089	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302088-302089	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-11	MW-7D - Ground Water Sampled 7/16/2015					
Volatiles						
Field Grab	Method: EPA 8260C / Prep: EPA 5030C					
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Carbon tetrachloride	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Benzene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
1,2-Dichloropropane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Trichloroethene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Bromodichloromethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
2-Chloroethylvinyl ether	**< 2.0**	ug/L	A3	RRS	302088-302089	2015-07-17
cis-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
4-Methyl-2-Pentanone	**< 10.0**	ug/L		RRS	302088-302089	2015-07-17
trans-1,3-Dichloropropene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302088-302089	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302088-302089	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302088-302089	2015-07-17
104-0716-12	Equipment Blank - Deionized Water Sampled 7/16/2015					
Metals						
Field Blank	Method: EPA 200.7 Rev 4.4 / Prep: EPA 4.1.3					
Arsenic, Dissolved	**< 0.005**	mg/L		MF	302090	2015-07-24
Chromium, Dissolved	**< 0.01**	mg/L		MF	302090	2015-07-24
Lead, Dissolved	**< 0.01**	mg/L		MF	302090	2015-07-24
Volatiles						
Field Blank	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	**< 10.0**	ug/L		RRS	302091-302092	2015-07-17
Chloromethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Vinyl chloride	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Bromomethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Chloroethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Acetone	**< 10.0**	ug/L		RRS	302091-302092	2015-07-17
1,1-Dichloroethene	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Methylene chloride	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Carbon Disulfide	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
trans-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
1,1-Dichloroethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
2-Butanone (Methylethyl ketone)	**< 10.0**	ug/L		RRS	302091-302092	2015-07-17
cis-1,2-Dichloroethene	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
Chloroform	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
1,2-Dichloroethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17
1,1,1-Trichloroethane	**< 2.0**	ug/L		RRS	302091-302092	2015-07-17

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-12	Equipment Blank - Deionized Water Sampled 7/16/2015					
Volatiles						
Field Blank	Method: EPA 8260C / Prep: EPA 5030C					
Carbon tetrachloride	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Benzene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302091-302092	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302091-302092	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302091-302092	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
1,1,2-Trichloroethane	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Toluene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
2-Hexanone	< 10.0	ug/L		RRS	302091-302092	2015-07-17
Dibromochloromethane	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Tetrachloroethene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Chlorobenzene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Ethyl benzene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
m,p-Xylene	< 10.0	ug/L		RRS	302091-302092	2015-07-17
Bromoform	< 2.0	ug/L		RRS	302091-302092	2015-07-17
Styrene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
o-Xylene	< 2.0	ug/L		RRS	302091-302092	2015-07-17
1,1,2,2-Tetrachloroethane	< 2.0	ug/L		RRS	302091-302092	2015-07-17
104-0716-13	Trip Blank - Deionized Water Sampled 7/16/2015					
Volatiles						
Trip Blank	Method: EPA 8260C / Prep: EPA 5030C					
Vinyl acetate	< 10.0	ug/L		RRS	302093	2015-07-17
Chloromethane	< 2.0	ug/L		RRS	302093	2015-07-17
Vinyl chloride	< 2.0	ug/L		RRS	302093	2015-07-17
Bromomethane	< 2.0	ug/L		RRS	302093	2015-07-17
Chloroethane	< 2.0	ug/L		RRS	302093	2015-07-17
Acetone	< 10.0	ug/L		RRS	302093	2015-07-17
1,1-Dichloroethene	< 2.0	ug/L		RRS	302093	2015-07-17
Methylene chloride	< 2.0	ug/L		RRS	302093	2015-07-17
Carbon Disulfide	< 2.0	ug/L		RRS	302093	2015-07-17
trans-1,2-Dichloroethene	< 2.0	ug/L		RRS	302093	2015-07-17
1,1-Dichloroethane	< 2.0	ug/L		RRS	302093	2015-07-17
2-Butanone (Methylethyl ketone)	< 10.0	ug/L		RRS	302093	2015-07-17
cis-1,2-Dichloroethene	< 2.0	ug/L		RRS	302093	2015-07-17
Chloroform	< 2.0	ug/L		RRS	302093	2015-07-17
1,2-Dichloroethane	< 2.0	ug/L		RRS	302093	2015-07-17
1,1,1-Trichloroethane	< 2.0	ug/L		RRS	302093	2015-07-17
Carbon tetrachloride	< 2.0	ug/L		RRS	302093	2015-07-17
Benzene	< 2.0	ug/L		RRS	302093	2015-07-17
1,2-Dichloropropane	< 2.0	ug/L		RRS	302093	2015-07-17
Trichloroethene	< 2.0	ug/L		RRS	302093	2015-07-17
Bromodichloromethane	< 2.0	ug/L		RRS	302093	2015-07-17
2-Chloroethylvinyl ether	< 2.0	ug/L	A3	RRS	302093	2015-07-17
cis-1,3-Dichloropropene	< 2.0	ug/L		RRS	302093	2015-07-17
4-Methyl-2-Pentanone	< 10.0	ug/L		RRS	302093	2015-07-17
trans-1,3-Dichloropropene	< 2.0	ug/L		RRS	302093	2015-07-17

Sample Results

Report ID NY1507104.0.44720
Client Moench Company

Sample ID	Results	Units	Qualifiers	Analyst	Vessel ID	Date
104-0716-13	Trip Blank - Deionized Water Sampled 7/16/2015					
Volatiles						
Trip Blank	Method: EPA 8260C / Prep: EPA 5030C					
1,1,2-Trichloroethane	**< 2.0**	ug/L		RRS	302093	2015-07-17
Toluene	**< 2.0**	ug/L		RRS	302093	2015-07-17
2-Hexanone	**< 10.0**	ug/L		RRS	302093	2015-07-17
Dibromochloromethane	**< 2.0**	ug/L		RRS	302093	2015-07-17
Tetrachloroethene	**< 2.0**	ug/L		RRS	302093	2015-07-17
Chlorobenzene	**< 2.0**	ug/L		RRS	302093	2015-07-17
Ethyl benzene	**< 2.0**	ug/L		RRS	302093	2015-07-17
m,p-Xylene	**< 10.0**	ug/L		RRS	302093	2015-07-17
Bromoform	**< 2.0**	ug/L		RRS	302093	2015-07-17
Styrene	**< 2.0**	ug/L		RRS	302093	2015-07-17
o-Xylene	**< 2.0**	ug/L		RRS	302093	2015-07-17
1,1,2,2-Tetrachloroethane	**< 2.0**	ug/L		RRS	302093	2015-07-17

Data Qualifiers and Definitions:

A3 Analyte cannot be recovered in an acid preserved sample. Result is estimated.

The test results in this report meet all NELAP requirements for parameters that are within IsleChem's field of accreditation. Any exceptions to NELAP requirements are noted in the comments field.

All results for solid samples are reported on a dry weight basis unless otherwise noted.

Visit us on the web at www.islechem.com

IsleChem LLC Grand Island, NY

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company (Organization Name)	Palmer Street Landfill Routine Parameter List (Project Name)	7 Samples / 21 Bottles + Trip Blank (# of Samples / # of Bottles)
465 Palmer Street (Street Address)	CHARGE TO VISA CARD (Client PO / Release #)	10 Days (Turnaround Time/ Date Results Needed)
Gowanda, NY 14070 (City, State, ZIP)	7-16-15 (Date Sampled)	NY 15C7104 AA720 (IsleChem Project #)
Jeffrey Smith (Contact Person)	For electronic report please provide e-mail below: jxsmith@browshoe.com (E-mail)	Rush Work Performed at Priority Rate (see below)
716-532-2201 / 716-532-5518 (Phone# and Fax#)		Approved by Client Yes No Initials____
		Approved by Lab Yes No Initials____

Sample ID	Sample Location	Matrix	Comp	Grab	Soluble Cr; Pb & As* (2374)	TCL Volatiles (2167) (2)		Bottle Type / Preservative
MW-6D	Site 1	GW		X	X 302060		Filtered by Client	250 ml Poly (HNO3)
"	Site 1	GW		X		X 302061 302062		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-6	Site 2	GW		X	X 302063		Filtered by Client	250 ml Poly (HNO3)
"	Site 2	GW		X		X 302064 302065		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-5	Site 3	DRY - NO SAMPLE					Filtered by Client	250 ml Poly (HNO3)
"	Site 3	GW		X		X		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-4SR	Site 4	GW		X	X 302066		Filtered by Client	250 ml Poly (HNO3)
"	Site 4	GW		X		X 302067 302068		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-4D	Site 5	GW		X	X 302069		Filtered by Client	250 ml Poly (HNO3)
"	Site 5	GW		X		X 302070 302071		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BLIND	Site 6	GW		X	X 302072		Filtered by Client	250 ml Poly (HNO3)
DUP	Site 6	GW		X		X 302073 302074		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-3	Site 7	GW		X	X 302075		Filtered by Client	250 ml Poly (HNO3)
"	Site 7	GW		X		X 302076 302077		(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
M. Best	7/16/15	1500	Patricia Delgado	07/17/15				
Relinquished by:	**Date**	**Time**	**Relinquished by:**	**Date**	**Time**	**Received by lab:**	**Date**	**Time**
J. Smith III	7/17/15	700	Patricia Delgado	07/17/15	1220		7/17/15	1:30

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 da

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

IsleChem LLC Grand Island, NY

CHAIN OF CUSTODY / REQUEST FOR LABORATORY ANALYSIS

2801 Long Road, Grand Island, NY 14072 (716)773-8401 (716)773-8517 (Fax)

Moench Company (Organization Name)	Palmer Street Landfill Routine Parameter List (Project Name)	5 Samples / 15 Bottles + Trip Blank (# of Samples / # of Bottles)
465 Palmer Street (Street Address)	CHARGE TO VISA CARD (Client PO / Release #)	10 Days (Turnaround Time/ Date Results Needed)
Gowanda, NY 14070 (City, State, ZIP)	7-16-15 (Date Sampled)	NY 15C7104; 44780 (IsleChem Project #)
Jeffrey Smith (Contact Person)	For electronic report please provide e-mail below: jxsmith@browshoe.com (E-mail)	Rush Work Performed at Priority Rate (see below)
716-532-2201 / 716-532-5518 (Phone# and Fax#)		Approved by Client Yes No Initials____
		Approved by Lab Yes No Initials____

Sample ID	Sample Location	Matrix	Comp	Grab	Soluble Cr, Pb & As* (2374)	TCL Volatiles (2167)									Bottle Type / Preservative
MW-3D	Site 8	GW		X	X	302078								Filtered by Client	250 ml Poly (HNO3)
"	Site 8	GW		X		X	302079	302080							(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
BS-3	Site 9	GW		X	X	302081								Filtered by Client	250 ml Poly (HNO3)
"	Site 9	GW		X		X	302082	302083							(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-8D	Site 10	GW		X	X	302084								Filtered by Client	250 ml Poly (HNO3)
"	Site 10	GW		X		X	302085	302086							(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
MW-7D	Site 11	GW		X	X	302087								Filtered by Client	250 ml Poly (HNO3)
"	Site 11	GW		X		X	302088	302089							(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
EQPMT	Site 12	GW		X	X	302090								Filtered by Client	250 ml Poly (HNO3)
BLNK	Site 12	GW		X		X	302091	302092							(2) 40 ml VOA Vials (HCL) , zero headspace - 1 vial as backup
7-16-15	Trip Blank	DI Water				X	302093								40 ml VOA Vials (HCL)

Comments: * A low detection limit for Arsenic is required at 0.005 mg/L / Soluble metals will be filtered in the field.

Sampled By:	Date	Time	Received by:	Date	Time	Received by:	Date	Time
MBest	7/16/15	1500	Patrick Degnan	07/17/15	1030			
Relinquished by:	Date	Time	Relinquished by:	Date	Time	Received by lab:	Date	Time
J. Smith	7/17/15	700	Patrick Degnan	07/17/15	1200		7/17/15	1:00

Standard turnaround time is 10 days.

RUSH WORK CHARGES: 3-6 times the standard cost for same day depending on the time needed ~ 2.5 times the standard cost for next day ~ 1.75 times the standard cost for 3 day.

By relinquishing these samples to IsleChem, LLC, you are accepting the current IsleChem, LLC terms and conditions for the sale of services.

Sample Receipt Checklist

IsleChem LLC
Grand Island, NY

Client Name: Meenah

IsleChem, LLC Job Number: N.I. 1507109

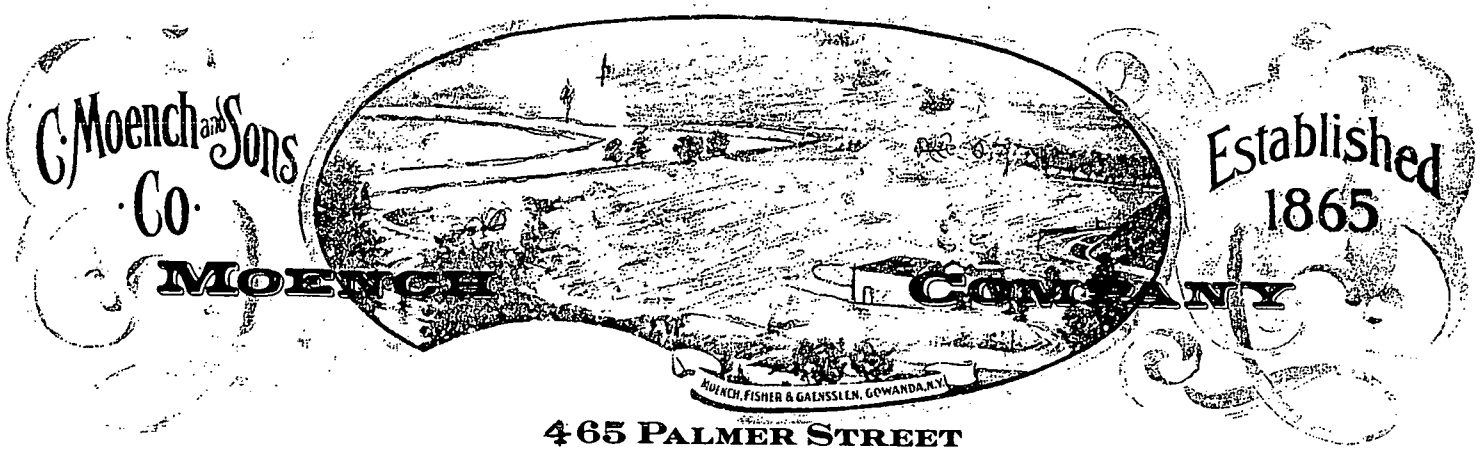
Sample(s) received by: _____ Date: 7/17/15 Time: 1150

1. Is the chain of custody identified clearly with complete documentation including:

Sample location/Identification	(YES)	NO	N/A	Corrected
Sample date / time	(YES)	NO	N/A	Corrected
Client name/ Preservation type	(YES)	NO	N/A	Corrected
Required analysis is listed on each bottle	(YES)	NO	N/A	Corrected
2. Are the sample labels clear and do they provide a unique identification of the sample ID linked to COC?	(YES)	NO	N/A	Corrected
3. Are the sample containers appropriate?	(YES)	NO	N/A	Corrected
4. Is the sample date within the required hold times?	(YES)	NO	N/A	Corrected
5. Is there adequate volume available for requested analysis?	(YES)	NO	N/A	Corrected
6. Did the customer list what sample analysis is required?	(YES)	NO	N/A	Corrected
7. Is a chain of custody included?	(YES)	NO	N/A	Corrected
8. Is the chain of custody complete?	(YES)	NO	N/A	Corrected
9. Are the sample(s) free of apparent damage?	(YES)	NO	N/A	Corrected
10. Temperature 8°C Has cooling begun?	(YES)	NO	N/A	-
11. Is temperature. ≤ 6° C if sample(s) were held prior to delivery date?	YES	(NO)	N/A	-
12. Has sample preservation been verified? If necessary.	(YES)	NO	N/A	Corrected
13. Has the Residual Chlorine been checked? If necessary.	YES	NO	(N/A)	Corrected
14. VOA sample vials do not have headspace or visible "pea-sized" air bubbles > (1/4") in diameter.	(YES)	NO	N/A	-
15. If necessary, Lab Management has been notified of any short hold or quick TAT samples.	YES	NO	(N/A)	-
16. If necessary, Client or Lab Management has been notified of any samples that don't meet sample acceptance criteria.	YES	NO	(N/A)	-

Comments/Actions: _____

STAN



465 PALMER STREET
GOWANDA, NEW YORK 14070

TEL. 716-532-2201

FAX 716-532-5518

ANNUAL GROUNDWATER QUALITY MONITORING REPORT. FOR CALENDAR YEAR 2015 AT PALMER STREET LANDFILL.

MOENCH COMPANY
GOWANDA, NEW YORK 14070

Jeffrey Smith
Site Manager

MOENCH COMPANY
DIVISION OF CALERES*5*
465 PALMER ST.
GOWANDA, NEW YORK 14070
PHONE: 716-532-2201

Mr. Stanley Radon, CPG
NYSDEC, region 9
270 Michigan Ave.
Buffalo, NY 14203-2999

March 24, 2016

Re: Palmer St. Landfill; Hydrogeo flow

Mr. Radon
Enclosed are the revised" Hydrogeo Flow" for our Palmer St. Landfill, initially, from the August 2015 report. The revised flow maps are created from the limited water level information.

As I have previously reported, the Village of Gowanda has been using the deep aquifer For its' water supply, off & on, since the major flood of 2009. The drastic water level reduction at MW-1D, reflects that change, on the August 2015 graph.

Recently the Village has informed me that they have begun using the natural springs that feed their reservoir as a water source.

The attached water level graph, indicates a sudden rise in the water level at MW-1D, of approximately 40 feet, from our March 2016 measurements. This should result in a continuous flow, as previously, from MW-1D, to the Northeast, to Cattaraugus Creek.

Do you want me to send as a PDF file?

Call me if you have any questions.

Jeffrey Smith
Site Manager
Moench Co.
Gowanda, NY

December 10, 2015

Alecia: Enclosed is the Palmer St. Landfill, Annual report for 2015. It is a compilation of the two individual reports, created from the sampling events in April and July. In the Annual Report I create graphs that show the trends of contamination levels, at the various sampling points.

This Annual is required by the N.Y. State Dept. of Environmental Conservation.

It shows minimal levels of contamination in the Palmer St. Landfill.

It does also show a drastic reduction in the water level in the deep aquifer in the area. This is attributed to the Village of Gowanda using the Aquifer as a water supply, a result of their reservoir being decommissioned as a result of flooding.

The change in water level in the Aquifer will affect the migration of contaminants in the landfill.

WE must stay aware of this.

I will send you only summaries in the future.

Call me if you have any questions about this.

Jeffrey Smith
Site Manager
Moench Co.
Gowanda, NY

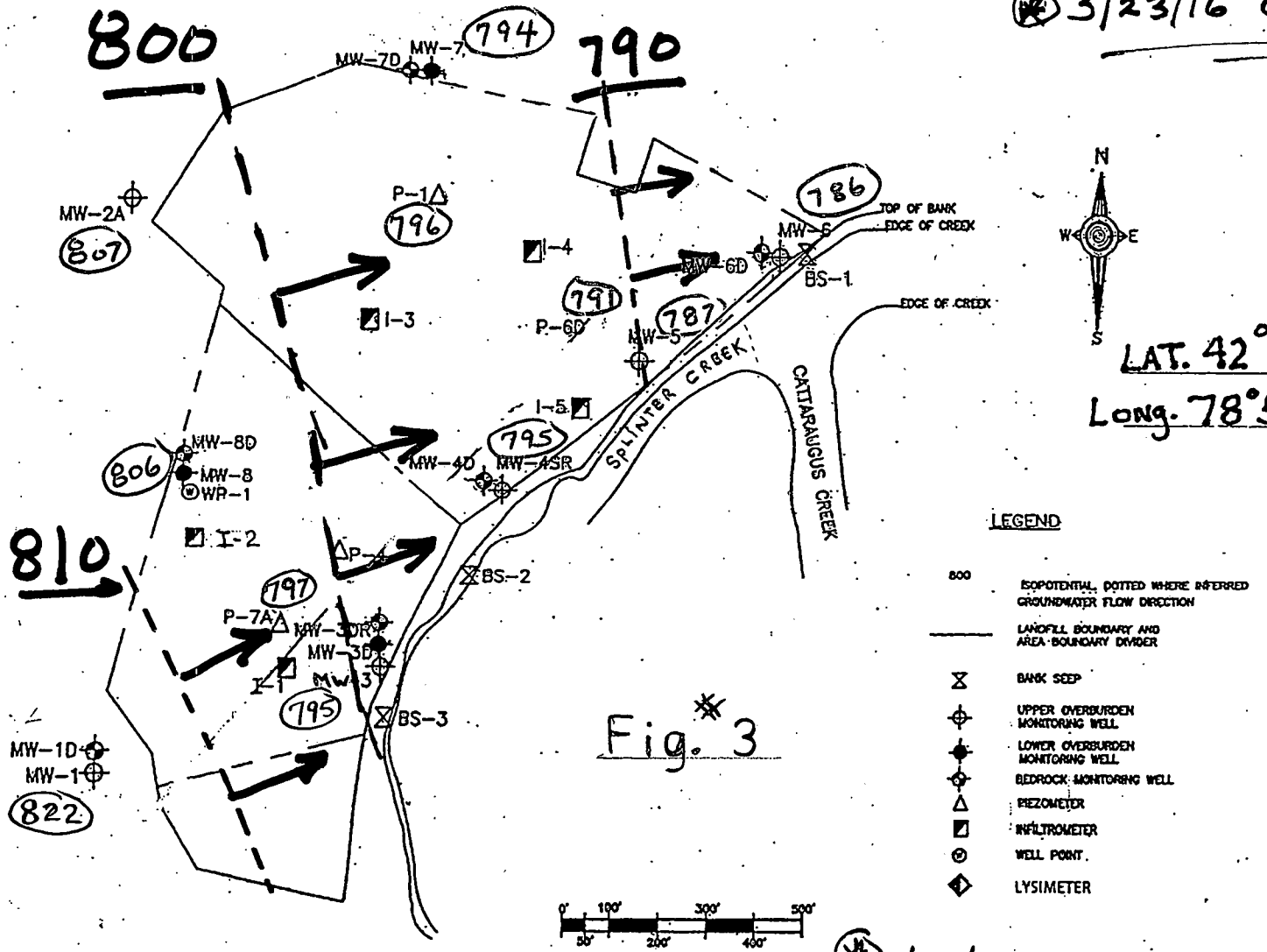
STAN
I GUESS I'LL USE THIS AS MY COVER LETTER. ALECIA JARUZEL IS MY NEW BOSS @ CALERES (WAS BROWN SHOE).

DON'T KNOW WHY "-pH" IS DROPPING AT 45+6??

CALL ME IF QUESTIONS

3/23/16 CORRECTION

95



LAT. 42° 27' 0"

Long. 78° 55' 30"

Fig. 3

3/30/15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP.

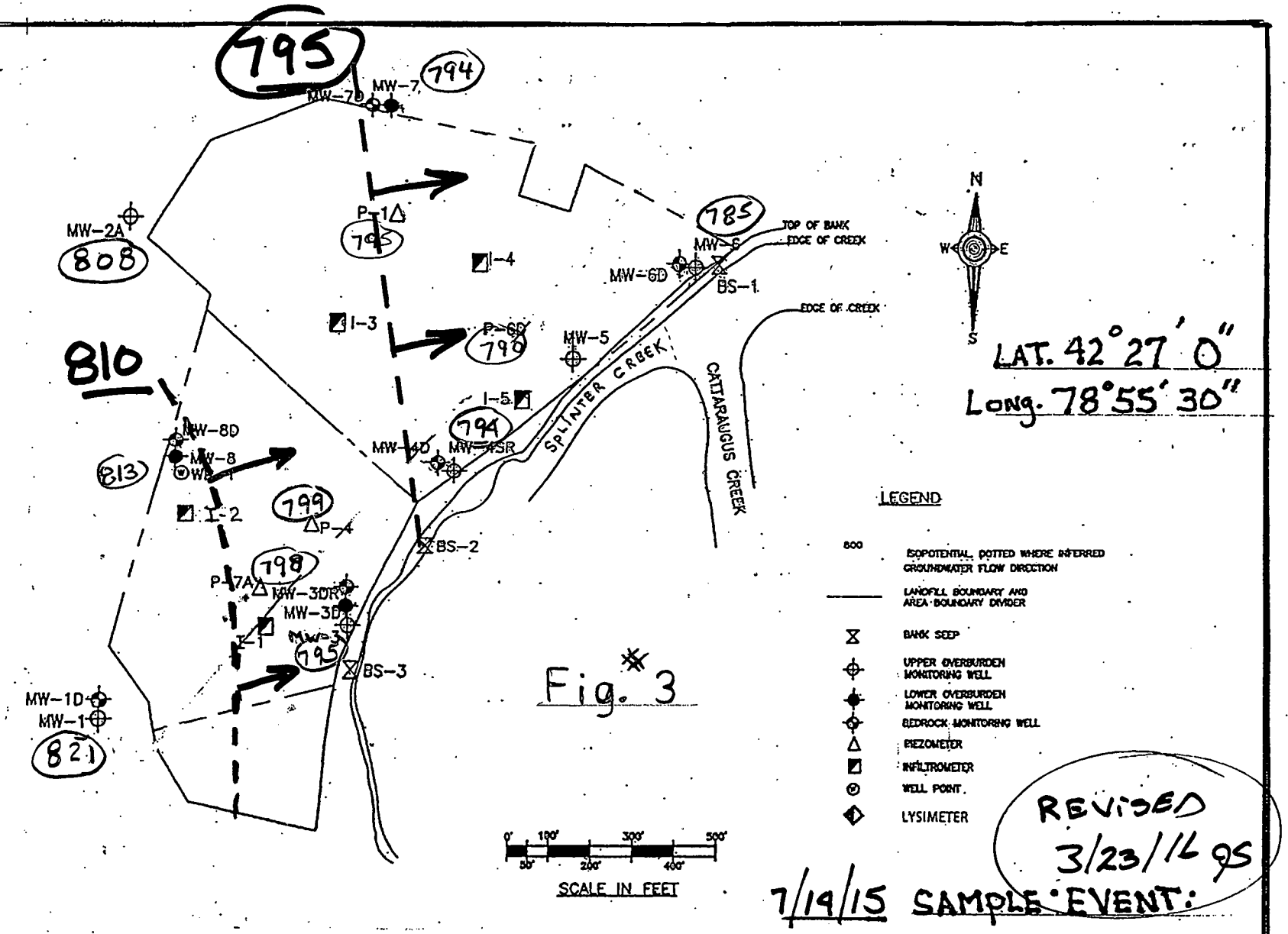


Fig. 3

REVISED 3/23/16 QS

7/19/15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP.

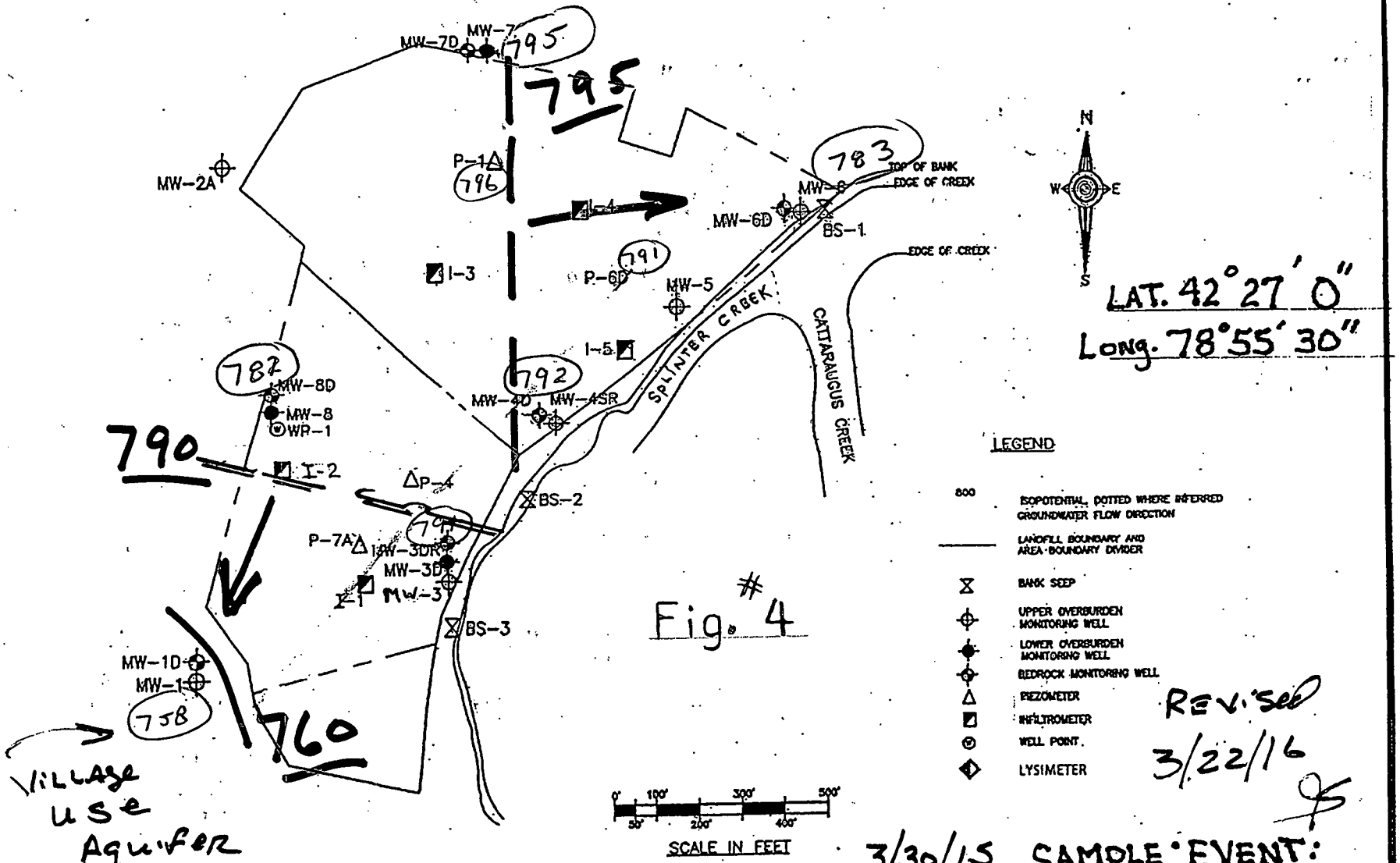


Fig. # 4

Revised 3/22/16

3/30/15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.

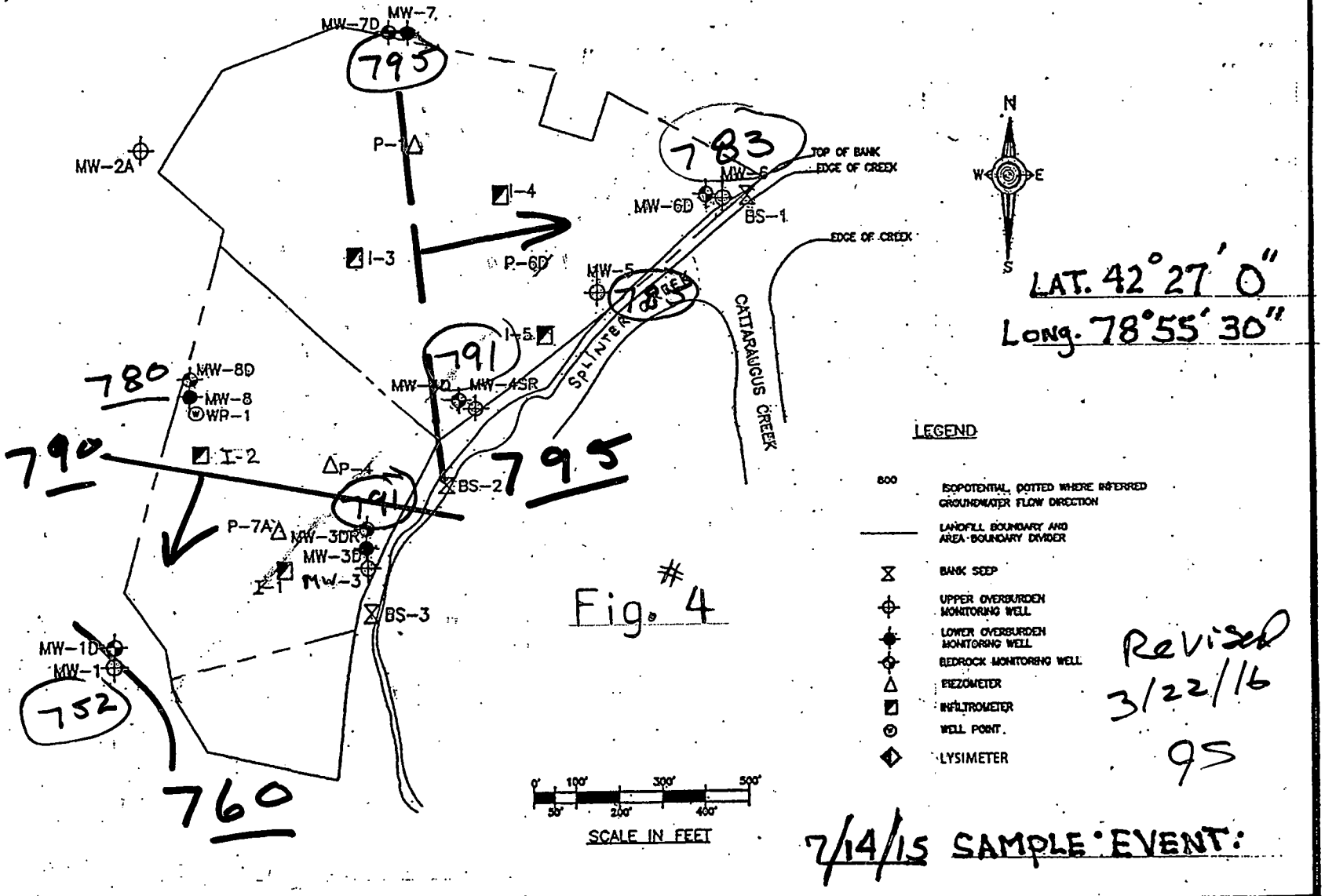


Fig. # 4

Revised 3/22/16

95

7/14/15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.

MOENCH COMPANY A DIVISION NOW OF CALERES *5*

PALMER STREET LANDFILL

2015 ANNUAL GROUNDWATER MONITORING REPORT.....

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1.0 INTRODUCTION

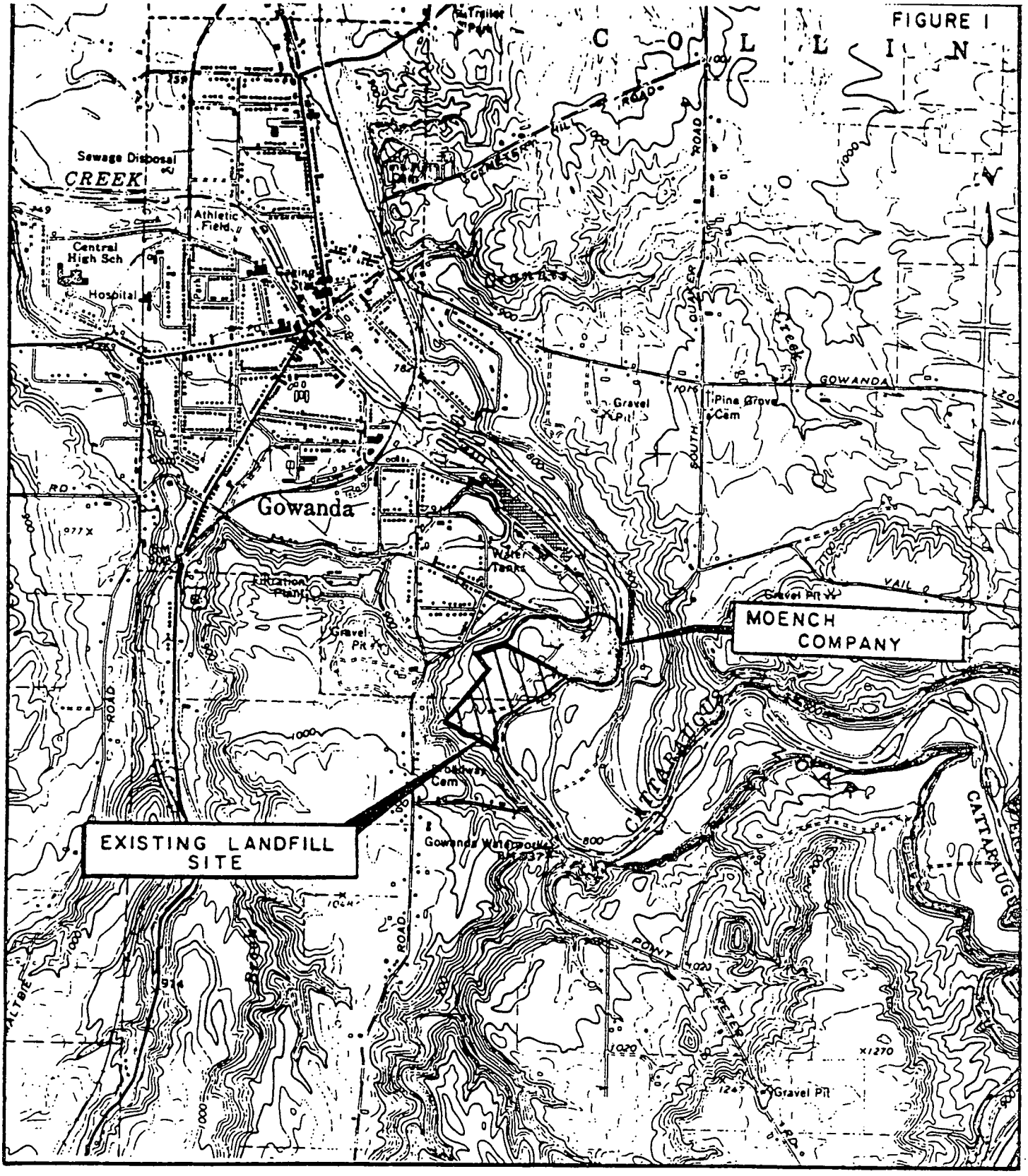
1.1 BACKGROUND

THE MOENCH COMPANY, A DIVISION OF CALERES *5*, HEADQUARTERED IN ST. LOUIS, MO., THE LANDFILLIS LOCATED NEAR THE SOUTHEAST CORNER OF THE VILLAGE OF GOWANDA, CATTARAUGUS COUNTY, NEW YORK, 14070(FIGURE 1). THE PALMER STREET LANDFILL, WHICH WAS OPERATED BY MOENCH TANNING FROM 1900 THROUGH JULY 1983, LIES IMMEDIATELY SOUTHWEST OF THE FORMER SITE COMPLEX ON AN APPROXIMATELY 25-ACRE, PARCEL OF LAND. A VARIETY OF WASTE GENERATED BY MOENCH TANNING WERE DISPOSED OF AT THE PALMER STREET LANDFILL SITE. THESE WASTES INCLUDED SOLE LEATHER EXTRACT, RENDERING WASTE, SPRAY BOOTH CLEAN UP WASTE, WASTE FINISH, WASTE HAIR/LEATHER SCRAPS, WASTEWATER TREATMENT PLANT SLUDGE, AND OCCASIONAL CONSTRUCTION DEBRIS.

MOENCH TANNING HAS CLOSED THE PALMER STREET LANDFILL(1983). ACCORDINGLY, THE CLOSURE/POST-CLOSURE PLAN (REFERENCE 1), IS BEING PERFORMED. THE LONG-TERM POST CLOSURE MONITORING PROGRAM HAS BEEN APPROVED & IMPLEMENTED.
(JULY 1993, REVISED MARCH 1994; REVISED DECEMBER 2006.
THE ENTIRE MOENCH OPERATION WAS TERMINATED IN 1992. All BUILDINGS WERE DEMOLISHED, EXCEPT FOR A SMALL OFFICE AND MAINTAINANCE SHOP.

1.2 PUPOSE AND SCOPE

SAMPLES ASSOCIATED WITH TWO ROUNDS OF WATER QUALITY MONITORING, FOR THE 2015 CALENDAR YEAR, WERE COLLECTED IN APRIL & JULY OF 2015, FOR THE LANDFILL. THE PURPOSE OF THIS REPORT IS TO PROVIDE A SUMMARY OF THE DATA GENERATED, AND GENERAL TRENDS,
FOR THE PALMER STREET LANDFILL DURING 2015. IT SHOULD BE NOTED THAT THE SAMPLING LOCATIONS WERE MODIFIED IN 2006,
THE RESULTS OF A MEETING WITH NYSDEC9 AND OUR ENVIRONMENTAL
C CONSULTANTS. THE NEW DETECTION MONITORING SYSTEM BETTER REPRESNETS POTENTIAL PARAMETER MIGRATION. (REF# 7 & 8)



{Figure 1}

NOTE:
TOPOGRAPHY TAKEN FROM 1963 GOWANDA, N.Y.
U.S.G.S. QUADRANGLE 7.5 MIN. SERIES
SCALE: 1" = 2000'

QUADRANGLE LOCATION

SITE LOCATION MAP
PALMER STREET LANDFILL
GOWANDA, N.Y. 6-94

MOENCH Co.

2.0 MONITORING SYSTEM

2.1 REVISED MONITORING SYSTEM(8/06)

IN JULY 2006, A MEETING WITH NEW YORK STATE DEPARTMENTAL CONSERVATION, GEOMATRIX CONSULTANT, AND MOENCH COMPANY, RESULTED IN A RECONFIGURING OF THE DETECTION MONITORING SYSTEM. THIS WAS DONE AFTER CONSIDERING THE THREE PRIOR "COVER SYSTEM PERFORMANCE MONITORING SYSTEM" RESULTS. THE DETECTION MONITORING SYSTEM IS NOW AS FOLLOWS:

DOWNGRADIENT WELLS (screened in waste)		UPGRADIENT WELLS	BANK SEEPS
OVERBURDEN	BEDROCK		
MW-3	MW-3D	MW-7D	BS-1
MW-4SR	MW-4D	MW-8D	BS-2
MW-5	MW-6D		BS-3
MW-6			

NINE(9) GROUNDWATER MONITORING WELLS, AT THE PALMER STREET LANDFILL, WERE EVALUATED IN 2015, IN ACCORDANCE WITH THE LONG TERM POST CLOSURE MONITORING PLAN.(REF. #1) NYSDEC HAS APPROVED THIS PLAN.

IN ADDITION TO THE WELLS, NYSDEC ALSO REQUIRES THE MONTORING OF THREE(3); BS-1, BS-2, BS-3. THE ABILITY TO OBTAIN BANK SEEPS VARIES DUE TO WET/DRY WEATHER. BANKSEEP SAMPLE WAS AVAILABLE ONLY AT BS-3, FOR THE APRIL & JULY SAMPLES.

TO AID IN THE EVALUATION OF THE COVER SYSTEM PERFORMANCE, LEVELS FROM FIVE(5) INFILTROMETERS, ARE ALSO MEASURED. LOCATIONS OF THE MONITORING POINTS ARE SHOWN ON FIGURE #2.

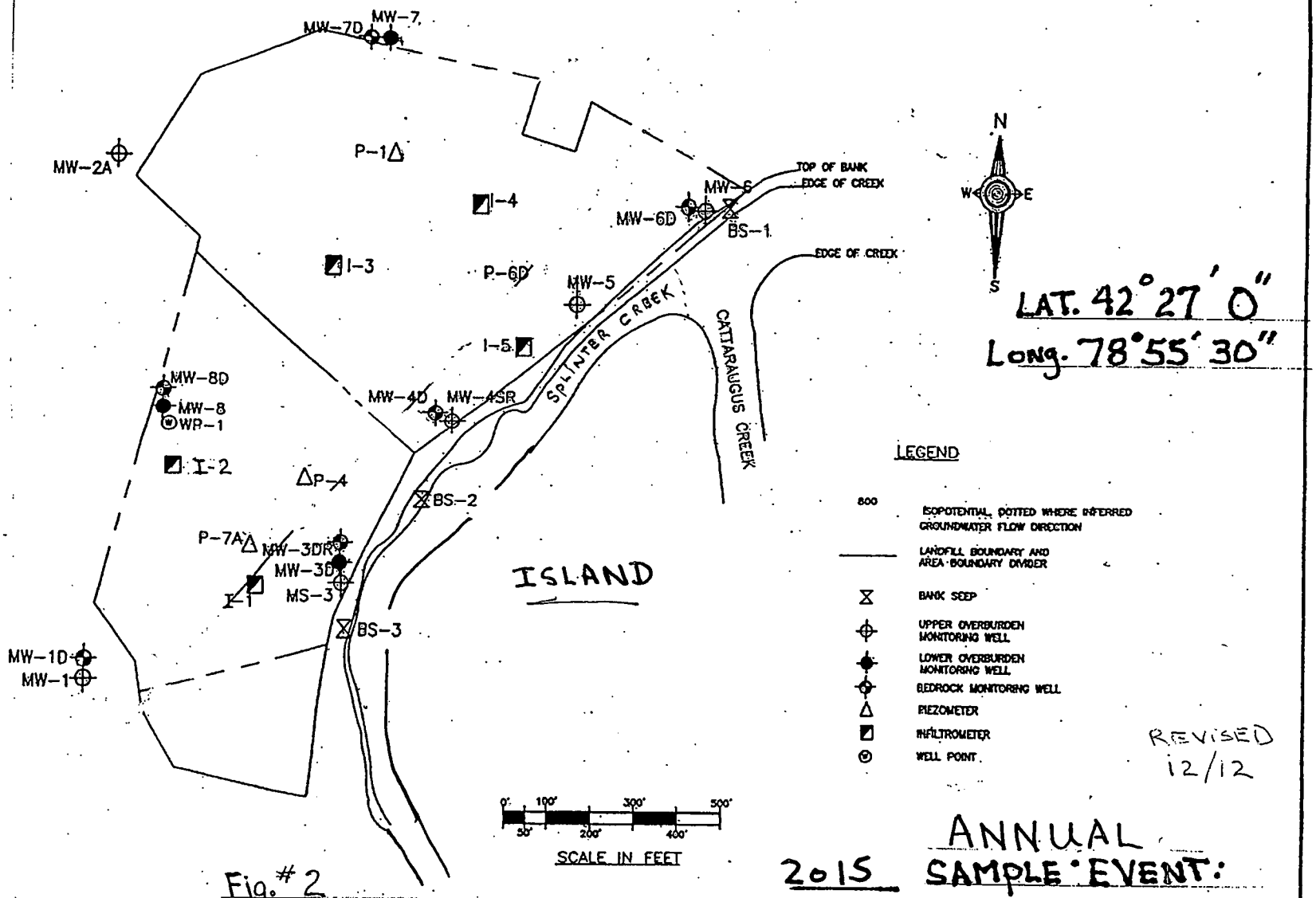


Fig. # 2

REVISED 12/12

2015 ANNUAL SAMPLE EVENT:

AMEX Consultants, Inc. Williamsville, NY	PALMER STREET LANDFILL SITE PLAN	DATE	PROJ. NO. 8104
		FILE NO. N/A	DWG. NO. FIGURE 1.2

3.0 MONITORING METHODS

3.1 GROUNDWATER MONITORING:

SAMPLES COLLECTED DURING THE TWO MONITORING EVENTS, FOR THE LANDFILL, WERE COLLECTED BY MOENCH COMPANY PERSONNEL, IN 2015. THE ANALYTICAL WORK WAS PERFORMED BY ISLECHEM LLC, OF GRAND ISLAND, NEW YORK. THE ANALYSIS WAS PERFORMED IN ACCORDANCE WITH THE SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR THE PALMER ST. LANDFILL.(REFERENCE 3).

LABORATORY ANALYSES WERE PERFORMED IN ACCORDANCE WITH THE USEPA 200.7, FOR METALS, AND VOC 8260.(REFERENCE 4). THE MONITORING PARAMETERS ARE LISTED IN TABLE 1. SAMPLES WERE COLLECTED FROM EACH OF THE, MONITORING LOCATIONS IDENTIFIED IN SECTION 2.0. PRIOR TO SAMPLING, STATIC WATER LEVEL ELEVATIONS WERE MEASURED IN THE MONITORING WELLS AND THE WELLS WERE PURGED (SEE TABLE 4). GROUNDWATER ELEVATIONS WERE ALSO MEASURED IN THE PIEZOMETERS, INFILTROMETERS, AND WELLS ON-SITE. ALL WELLS WERE "DEVELOPED" IN YEAR(2012); CLEARED OF SEDIMENT.

IN JULY OF 2011, MANY UNECESSARY AND OBSELETE WELLS, PIEZOMETERS, LYSIMETERS AND A WELL POINT WERE REMOVED FROM THE LANDFILL. THIS WAS DONE WITHIN AN AGREEMENT WITH NYSDEC-9. NEW YORK STATE PROCEDURES WERE FOLLOWED.

FIELD SAMPLES WERE COLLECTED AND MEASURED FOR THE FIELD PARAMETERS IDENTIFIED IN TABLE 1. THE FIELD MEASUREMENTS ARE SUMMARIZED IN TABLE 5.

3.2 INFILTROMETER MONITORING

FIVE INFILTROMETERS HAVE BEEN INSTALLED(1991) BENEATH THE LANDFILL CAP TO AID IN THE ASSESSMENT OF PERFORMANCE OF THE CAP. DURING EACH SEMIANNUAL EVENT, WATER LEVELS IN THE INFILTROMETER ARE MEASURED AND THE AMOUNT OF WATER INFILTRATING IS CALCULATED.

THE CALCULATED INFILTRATION RATES ARE PRESENTED ON TABLE 2 & 3. CALCULATED INFILTRATION RATES ARE USUALLY WITHIN THE DESIGNED INFILTRATION RATE OF 1X10(-7) CM/SEC, EXCEPT ARE NOTED ON THE TABLE. A SCHEMATIC SHOWING THE DESIGN AND DIMENSIONS OF THE INFILTROMETERS IS PRESENTED IN ATTACHMENT A.

TABLE 1

MOENCH COMPANY
PALMER STREET LANDFILL

ROUTINE GROUNDWATER QUALITY MONITORING PARAMETERS

Soluble Arsenic
Soluble Chromium
Soluble Lead

Volatile Organics[2][3]

pH[1]

Conductivity[1]
Turbidity[1] -visual only
Groundwater Elevation[1]
Temperature[1]

All samples collected for analysis of soluble metals will be pressure-filtered in the field immediately upon sample collection.

NOTES:

1. All field parameters (i.e., pH, specific conductance, temperature and turbidity) will be measured in the field. No analysis of these parameters will be required by the laboratory.

2. Volatile organic compounds will be those compounds determined by SW-846, Method 8260.

TABLE 2

MOENCH COMPANY
PALMER STREET LANDFILL
MONITORING EVENT

3-31-15 INFILTROMETER MEASUREMENTS

Infiltrometer	Static Water Level (ft) 3-30-15	Static Water Level (ft) 8-4-14	Δ Depth-gal (ft)	# Days Between Readings (#)	Infiltration Rate gal/day.ft²	Infiltration Rate (cm/sec)	Approx. Total Rainfall This Period (ft)	Infiltration (%)
I-1 Ⓐ	4.55	4.63	.08	236	.0002	1.0×10^{-8}	2.52	.5 %
I-2	7.25	7.34	.09	"	.0002	1.0×10^{-8}	"	.5
I-3	6.80	6.45	—	"	—	—	"	—
I-4	6.20	6.38	.18	"	.0004	2.0×10^{-8}	"	1.0
I-5	7.00	7.13	.13	"	.0003	1.4×10^{-8}	"	.7

Note:
** Negative ΔD precludes calculation of meaningful data. Ⓐ I-1 OFTEN FLOODED BY NATURAL SPRINGS & WASH PONDS, UPGRADIENT.

TABLE # 3

MOENCH COMPANY
PALMER STREET LANDFILL
MONITORING EVENT

7-14-15 INFILTROMETER MEASUREMENTS

Infiltrometer	Static Water Level (ft) 7-14-15	Static Water Level (ft) 3-30-15	Δ Depth-gal (ft)	# Days Between Readings (#)	Infiltration Rate gal/day.ft²	Infiltration Rate (cm/sec)	Approx. Total Rainfall This Period (ft)	Infiltration (%)
I-1 Ⓐ	4.67	4.55	NEG.	106	—	—	1.36	—
I-2	7.20	7.25	.05	"	.00023	1.1×10^{-8}	"	.2
I-3	6.19	6.80	.61	"	.0028	1.3×10^{-7}	"	3.4
I-4	6.98	6.20	NEG.	"	—	—	"	—
I-5	6.95	7.00	.05	"	.00023	1.1×10^{-8}	"	.2

Note:
** Negative ΔD precludes calculation of meaningful data.

Ⓐ I-1 OFTEN FLOODED BY NATURAL SPRING & WASH PONDS, UPGRADIENT.

MUCH RAIN PRIOR TO SAMPLE; 7" IN JUNE.

I-3 — HISTORICALLY L.T. 2.0×10^{-8}

TABLE #4
PALMER STREET LANDFILL
SUMMARY OF GROUNDWATER ELEVATIONS(1)

	EVENT	
	MAR. 30, 2015	JULY 14, 2015
MW-1	821.95	821.55
MW-1D	(A) 758.37	(A) 751.49
MW-2A	807.87	807.97
MW-3	795.11	794.96
MW-3D	790.83	789.39
MW-3DR	788.37	786.40
MW-4SR	794.75	794.33
MW-4D	791.63	790.68
MW-5	787.20	DRY
MW-6	785.68	784.58
MW-6D	782.93	783.01
MW-7	793.65	793.65
MW-7D	794.74	793.98
MW-8/D	805.86/781.79	DRY/ 779.99
P-1	795.55	795.55
P-4	798.79	798.89
P-6D	791.20	790.75
P-7A	797.52	797.31
WP-1	813.71	813.52

Notes:

(1) Measured in feet above sea level.
MW= Monitoring Wells P=Piezometers. WP=Well Piont.

(A) DRASTIC LOWER DUE TO VILLAGE USING AQUIFER FOR WATER SUPPLY.

4.0 GROUNDWATER QUALITY MONITORING RESULTS

4.1 EVALUATION OF GROUNDWATER ELEVATION DATA:

GROUNDWATER ELEVATION MEASUREMENTS WERE TAKEN AT ALL ACCESSIBLE ONSITE MONITORING POINTS DURING THE TWO ANNUAL 2015 MONITORING EVENTS. THE DATA IS SUMMARIZED ON TABLE #4.

PLOTS OF THE GROUNDWATER ELEVATIONS MEASURED IN THE MONITORING WELLS WITH RESPECT TO TIME, ARE PRESENTED IN FIGURE 3, 4, & 5, FOR THE "SHALLOW OVERBURDEN, DEEP OVERBURDEN AND BEDROCK WELLS, RESPECTIVELY. AS SHOWN IN FIGURES 3, AND 4, OVERBURDEN GROUNDWATER ELEVATIONS WERE GENERALLY CONSISTENT THROUGHOUT THE MONITORING PERIOD IN AUGUST 2009, A SEVERE FLOOD CONTAMINATED THE VILLAGE'S WATER RESERVIOR. THEY HAVE VARIED IN USE OF THEIR DEEP WELL, AND THE RESERVIOR, SINCE THEN. A RESENT EVENT HAS AGAIN DISABLED THE VILLAGE RESERVIOR. THE RESULTS ARE SHOWN IN OUR DEEP WELLS.

4.2 THE GROUNDWATER AND SURFACE WATER QUALITY RESULTS FOR THE TWO MONITORINGS EVENTS, AT THE PALMER STREET LANDFILL, ARE PRESENTED IN TABLES #5 THROUGH #7.

COMPARISON OF THE MONITORING DATA TO THE NYSDEC CLASS "GA" GROUNDWATER QUALITY STANDARDS/GUIDANCE VALUES ARE PRESENTED IN THE TABLES.

BOTH THE SOIL AND WASTE AT THE PALMER STREET LANDFILL CONTAIN METALS-OF-INTEREST AS A COMPONENT OF THE SOIL OR WASTE PARTICLES (REFERENCE 5). THEREFORE, THE SEDIMENT (OR TURBIDITY) CONTENT OF ANY GROUNDWATER OR SURFACE WATER QUALITY SAMPLES WILL DIRECTLY IMPACT THE TOTAL METAL CONCENTRATION OF THE SAMPLES. THE TURBIDITY CONTENT OF THE GROUNDWATER SAMPLES COLLECTED AT THE SITE IS EXTREMELY VARIABLE AND RELATIVELY HIGH BECAUSE THE SOIL AND WASTE FILL BOTH CONTAIN HIGH PERCENTAGES OF FINE-GRAINED PARTICLES. AS NYSDEC HAS PREVIOUSLY AGREED, IN ORDER TO AVOID MISINTERPRETATION OF WATER QUALITY DATA, "TOTAL" METALS WILL NO LONGER ANALYZED FOR GROUNDWATER QUALITY STANDARDS OR EVALUATION OF GROUNDWATER QUALITY. IMPACTS WILL BE BASED ON SOLUBLE METALS CONCENTRATION.

ALSO TOTAL NOR SOLUABLE BARIUM WILL NO LONGER BE SAMPLED FOR IN THE AGREEMENT WITH NYSDEC, AS THE ELEMENT IS NATURALLY ELEVATED IN CONCENTRATION IN NATIVE SOIL. 2015 ANNUAL SUMMARIES AS FOLLOWS:

---THERE WAS NO DETECTION OF ANY METALS, ABOVE THE CLASS "GA" STANDARD, AT ANY OF THE MONITORING LOCATIONS.

---THERE WAS NO DETECTION OF ANY VOCs, ABOVE THE CLASS "GA" STANDARD, AT ANY OF THE SAMPLING LOCATIONS. THERE WAS A SLIGHT DETECTION OF ACETONE AT MW-4SR & MW-3D, IN THE APRIL SAMPLE.

---1,2 DICHLOROETHANE WAS DETECTED AT MW-6, JULY SAMPLE, AT .002 MG/L. THIS IS CONSIDERED AN ANOMOLY.

---"Ph" CONTINUED TO BE BELOW NEUTRAL AT MW-4S AND MW-6.????

TABLE ~~X~~ 5

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT

SUMMARY OF FIELD MEASUREMENTS — INITIAL

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Conductance[1] (umhos/cm)	Turbidity NA	Sample Appearance	Sample Odor
* MW-3	4-1-15	1200	(NO SAMPLE - DRY)			NA	—	—
*** MW-3D	"	1210	19.0	7.22	380	"	CLEAR	NO
* MW-4SR	"	1055	9.7	6.41	700	"	CLEAR	FINISH
*** MW-4D	"	1125	16.3	7.14	650	"	CLEAR	FINISH
* MW-5	"	—	(NO SAMPLE - DRY)			"	—	—
* MW-6	"	1035	11.9	6.71	1400	"	BLK-TURB	NO
*** MW-6D	"	1007	13.8	7.61	1200	"	clear	NO
*** MW-7D	"	1340	8.0	7.47	580	"	clear	NO
** MW-8D	"	1300	19.8	7.10	500	"	clear	NO
BS-1	"	1050	(NO SAMPLE - NO SEEP)			"	—	—
BS-2	"	1110	(NO SAMPLE - NO SEEP)			"	—	—
BS-3	"	1240	9.0	7.01	800	"	RED-IRON	NO
				6.5-8.5 (STD)				

NOTES:

(1) Conductivity readings corrected to 25°C.
(2) Blind Duplicate MW-3D
(3) MW-7D is apparent hydraulically upgradient bedrock well.

* Shallow Overburden Well
** Upgradient
*** Bedrock Well
BS Bank Seep

TABLE ~~4~~ 5

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT

SUMMARY OF FIELD MEASUREMENTS — INITIAL

Location	Sampling Date	Sampling Time	Temp. (°C)	pH (units)	Conductance[1] (umhos/cm)	Turbidity NA	Sample Appearance	Sample Odor
* MW-3	7/16/15	0943	13	6.84	1800	NA	Slight	NO
*** MW-3D	7/16/15	1007	13.1	7.20	510	"	clear	Finish
* MW-4SR	7/16/15	0905	12.4	6.52	960	"	Orange	NO
*** MW-4D	7/16/15	0920	13.8	7.19	710	"	clear	NO
* MW-5	—	NO	sample	dry	—	"	—	—
* MW-6	7/16/15	0830	15.0	6.65	1400	"	Black-Turbid	NO
*** MW-6D	7/16/15	0800	13.7	7.43	1200	"	clear	NO
*** MW-7D	7/16/15	1137	14.1	7.43	670	"	clear	NO
*** MW-8D	7/16/15	1055	13.2	7.18	480	"	clear	NO
BS-1	—	NO	Sample -	NO	seep	"		
BS-2	—	NO	Sample -	NO	seep	"		
BS-3	7/16/15	1030	9.0	7.01	800	"	Red Iron	NO
				6.5-8.5 (Std)				

NOTES:

(1) Conductivity readings corrected to 25°C.
(2) Blind Duplicate MW-3D
(3) MW-7D is apparent hydraulically upgradient bedrock well.

* Shallow Overburden Well
** Upgradient
*** Bedrock Well
BS Bank Seep

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

	Quantitation Limit	** MW-3	MW-3D	** MW-4SR	MW4D	** MW-5	** MW-6	MW-6D	Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	DRY	.005	ND	ND	DRY	ND	ND	.025mg/L
Chromium - Soluble	0.005	NO	ND	.01	ND	NO	ND	ND	.05
Lead - Soluble	0.005	SMP L	ND	ND	ND	SMP	ND	ND	.025
VOLATILES mg/L		-	-	-	ND	L	ND	ND	
ACETONE		-	.016	.154	"	-	"	"	GUID. VALUE = .05mg/L
		-	-	-	"	-	"	"	
		-	-	-	"	-	"	"	

** Screened in Waste/Overburden.

Blind Duplicate _____

TABLE 5

MOENCH COMPANY
PALMER STREET LANDFILL
4-1-15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS MW-3D

	Quantitation Limit	MW-7D	MW-8D	BS-1	BS-2	BS-3	Blind Duplic		Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	ND	ND	ND	ND	ND	.006		.025 mg/l
Chromium - Soluble	0.005	ND	ND	BANK	BANK	ND	ND		.05
Lead - Soluble	0.005	ND	ND	SeeD	SeeP	ND	ND		.025
VOLATILES mg/L		ND	ND	—	—	ND	ND		
ACETONE		—	—	—	—	—	—		GUID. VALU = .05 mg/L
		—	—	—	—	—	—		
		—	—	—	—	—	—		

TABLE 6

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

	Quantitation Limit	** MW-3	MW-3D	** MW-4SR	MW4D	** MW-5	** MW-6	MW-6D	Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	.008	ND	ND	ND	Dry	ND	ND	.025mg/l
Chromium - Soluble	0.005	ND	ND	.011	ND	N	ND	ND	.05
Lead - Soluble	0.005	ND	ND	ND	ND	O	ND	ND	.025
						S			
						a			
						m			
VOLATILES mg/L		ND	ND	ND	ND	P	ND	ND	
ACETONE		ND	ND	ND	ND	L	"	"	GUID. VALUE = .05mg/L
1,2-Dichloroethene				ND	ND	E	.002	"	

** Screened in Waste/Overburden.

Blind Duplicate_____

TABLE ~~X~~ 6

MOENCH COMPANY
PALMER STREET LANDFILL
7/16/15 MONITORING EVENT[1]

SUMMARY OF ANALYTICAL RESULTS

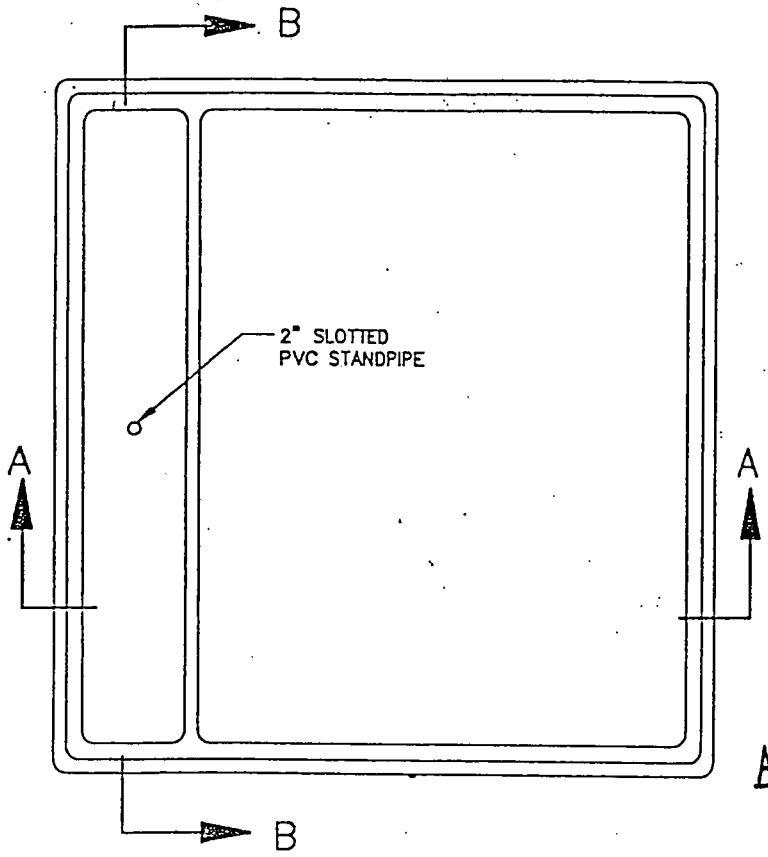
	Quantitation Limit	MW-7D	MW-8D	BS-1	BS-2	BS-3	Blind Duplic		Class "GA" Std.
Metals (mg/l):									
Arsenic - Soluble	0.005	ND	ND	NO	NO	.005	ND		.025mg/l
Chromium - Soluble	0.005	ND	ND	Bank	Bank	ND	ND		.05
Lead - Soluble	0.005	ND	ND	Seep	Seep	ND	ND		.025
VOLATILES mg/L		ND	ND	—	—	ND	ND		
ACETONE		"	—	—	—	ND	ND		GUID. VALUE = .05 mg/L

ATTACHMENT A

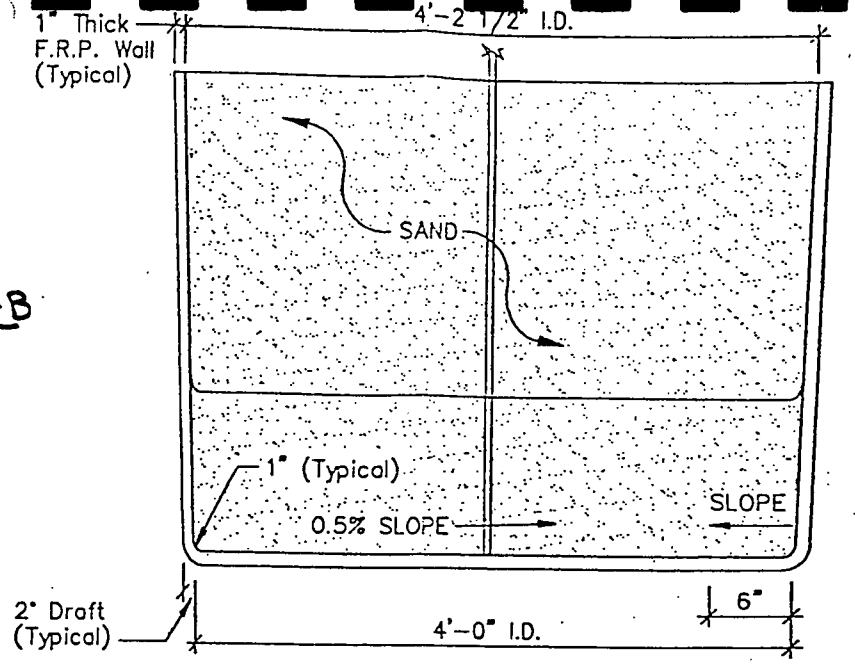
INFILTROMETER DESIGN

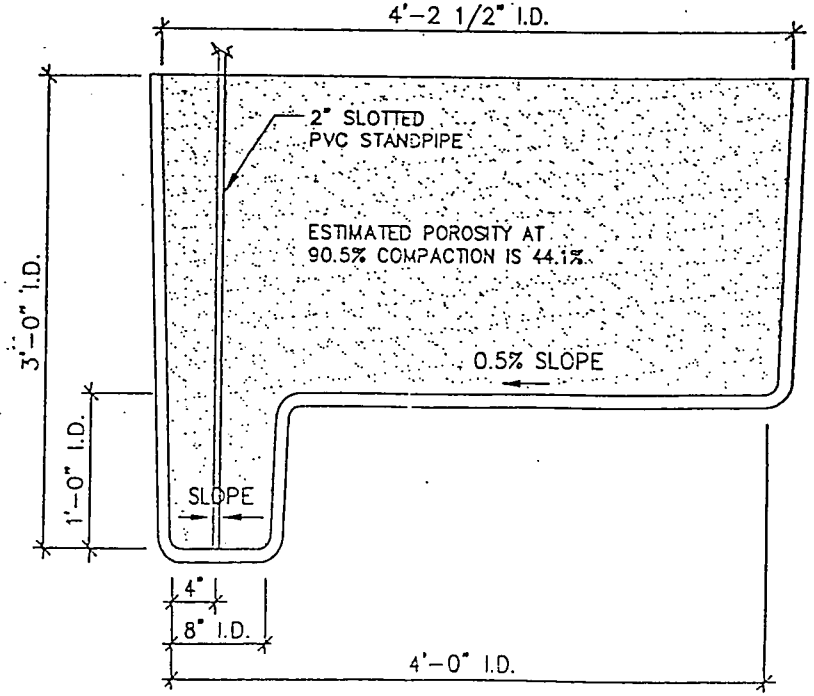
PALMER STREET LANDFILL
GROUNDWATER MONITORING REPORT...

2015 SAMPLING EVENT..



PLAN





TYPICAL INFILTROMETER BY HEY'S ENTERPRISES
AS INSTALLED AT PALMER STREET LANDFILL

INFILTROMETER

ATTACHMENT B

GROUNDWATER ELEVATION
DATA & GRAPHES

MONITORING EVENTS 2015

PALMER STREET LANDFILL
FIGURE #3
MOENCH COMPANY
GROUNDWATER ELEVATION vs TIME (FEET ABOVE SEA LEVEL)
SHALLOW OVERBURDEN MONITOR WELLS

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Oct-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-1	818	819	817	817	819	817	818	818	819	820	818	820	820	821	819	820	821	821	822	822	823	822	821
MW-3	798	798	794	793	794	793	792	792	793	794	793	793	794	794	793	794	794	794	794	794	794	793	793
MW-5	785	785	784	784	786	784	782	782	783	784	784	783	783	784	782	783	786	783	783	784	784	784	784
MW-6	784	784	783	784	785	784	784	784	784	784	784	783	784	784	784	784	784	783	783	784	784	783	783
MW-7S	795	795	793	795	795	794	792	792	793	793	792	792	793	793	792	793	786	792	791	792	794	791	791
MW-4SR																787	792	791	789	791	791	790	790

plrgwelv.xlsx.xls

Fig. #3

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar-'01	Aug'01	Mar. '02	Aug. '02	Mar. '03	Aug. '03	Mar. '04	Aug. '04
MW-1	821	821	821	822	822	821	821	821	821	821	821	819	820	822	821	822	820	821	820	821	821	821	821
MW-3	794	796	799	798	794	794	794	800	794	794	794	794	793	794	794	796	794	795	796	794	796	795	794
MW-5	782	DRY	DRY	DRY	787	787	787	787	DRY	DRY	DRY	DRY	DRY	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-6	784	784	783	787	785	785	784	784	784	783	784	783	783	785	784	783	783	785	784	788	788	785	784
MW-7S	793	794	792	794	793	792	793	793	792	792	793	793	791	794	792	794	793	794	793	793	794	794	792
MW-4SR	790	790	796	791	792	791	793	793	791	790	791	790	790	794	792	794	793	795	793	797	799	794	794

plrgwelv.xlsx.xls

Fig # 3

FIG.#3

Fig. #3

	Mar. '05	Aug. '05	Mar. '06	Aug. '06	Mar. '07	July '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Mar. '15	July '15
MW-1	822	821	822	821	822	821	822	821	822	821	822	821	821	821	822	821	821	821	822	821	822	822
MW-3	795	794	794	dry	dry	dry	dry	794	795	dry	dry	dry			dry	dry	dry	795	795	794	795	785
MW-5	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry			dry	dry	dry	dry	dry	dry	787	dry
MW-6	788	783	785	784	787	dry	788	784	788	783	785	784	788	784	788	783	785	784	788	784	788	785
MW-7S	794	791	795	794	795	794	794	794	794	793	794	791	793	790			no more	no more	no more	no more	no more	no more
MW-4SR	793	793	794	793	794	794	795	794	794	794	795	794	795	794	794	792	794	793	794	793	795	794

Plrgwelv

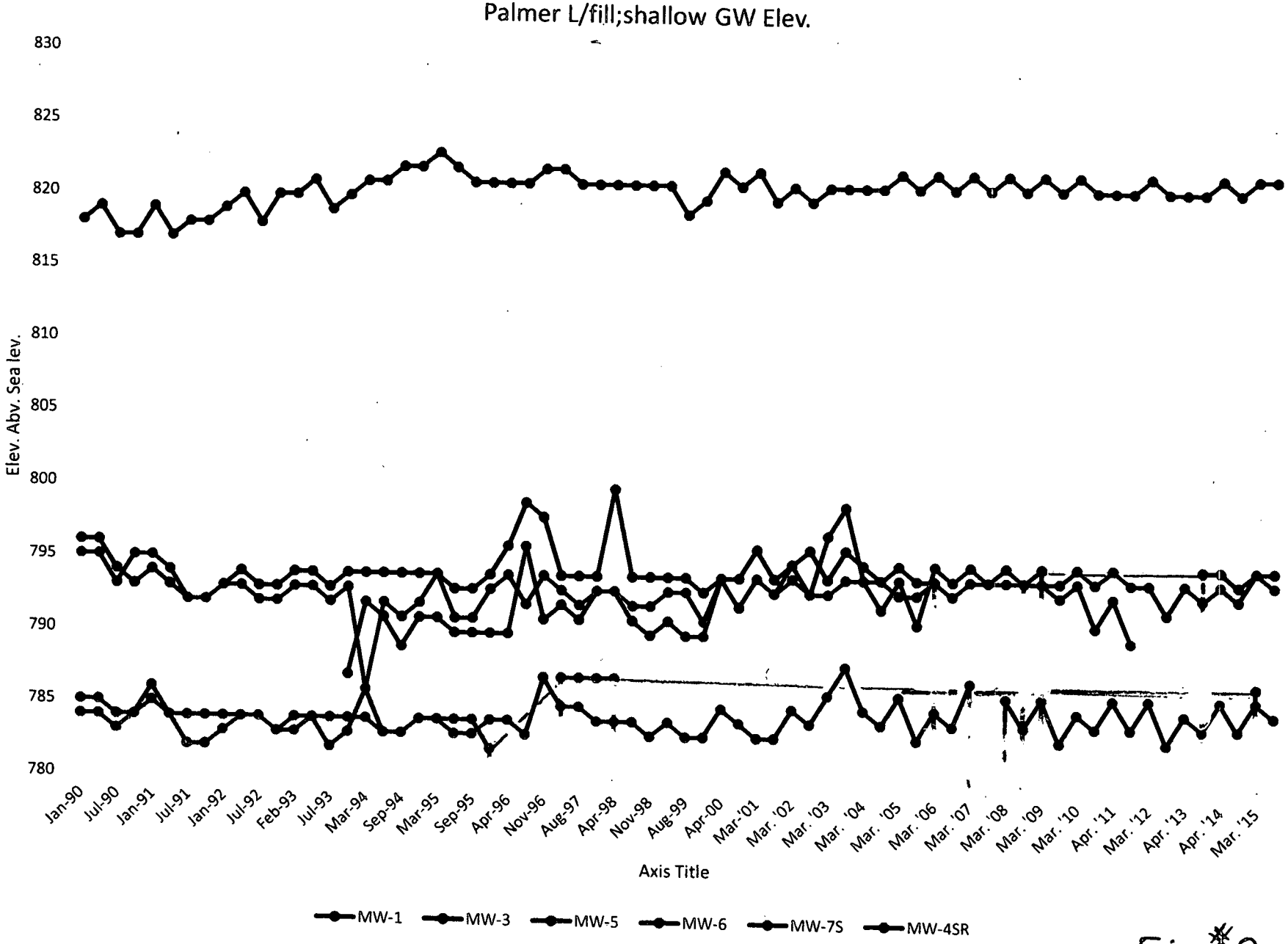


Fig* 3

Plrgwelv

plmrgw2.xlxs.xls

	Figure #4			PALMER STREET LANDFILL																			
				MOENCH COMPANY																			
				GROUNDWATER ELEVATION vs TIME(FEET ABOVE SEA LEVEL)																			
				DEEP OVERBURDEN MONITOR WELLSS																			
																						Fig. #4	
	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Oct-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-3D	777	777	777	777	776	778	779	778	778	779	779	781	784	787	789	791	792	793	795	797	798	797	797
MW-7	794	793	793	793	794	793	793	794	793	792	793	794	793	792	792	793	792	791	793	794	793	792	794
MW-4D																787	790	789	791	792	793	793	793

plmrgw2.xlxs.xls

																						Fig. #4	
	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar-'01	Aug-'01	Mar. '02	Aug. '02	Mar. '03	Aug. '03	Mar. '04	Aug. '04
MW-3D	797	799	801	799	799	799	799	794	798	797	798	799	799	799	800	800	800	801	801	800	801	801	801
MW-7	794	794	794	794	794	794	795	794	795	796	794	793	795	794	795	794	792	794	793	794	795	795	796
MW-4D	788	795	794	794	795	795	795	795	794	793	794	794	795	795	795	796	796	789	795	796	795	796	796

plmrgw2.xlxs.xls

						Fig. #4																	
	Mar. '05	Aug. '05	Mar. '06	Aug. '06	Mar. '07	July '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	Jul.' 10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Mar. '15	July '15	
MW-3D	801	801	801	801	801	801	802	802	801	802	797	802	792	799	798	800	801	801	802	797	791	789	
MW-7	795	795	795	794	795	794	795	794	795	794	795	795	794	794	794	795	794	795	795	795	794	794	
MW-4D	797	795	796	796	796	796	797	796	796	796	794	794	792	792	793	795	796	795	797	794	792	791	

Fig. 4

Plmrgw2

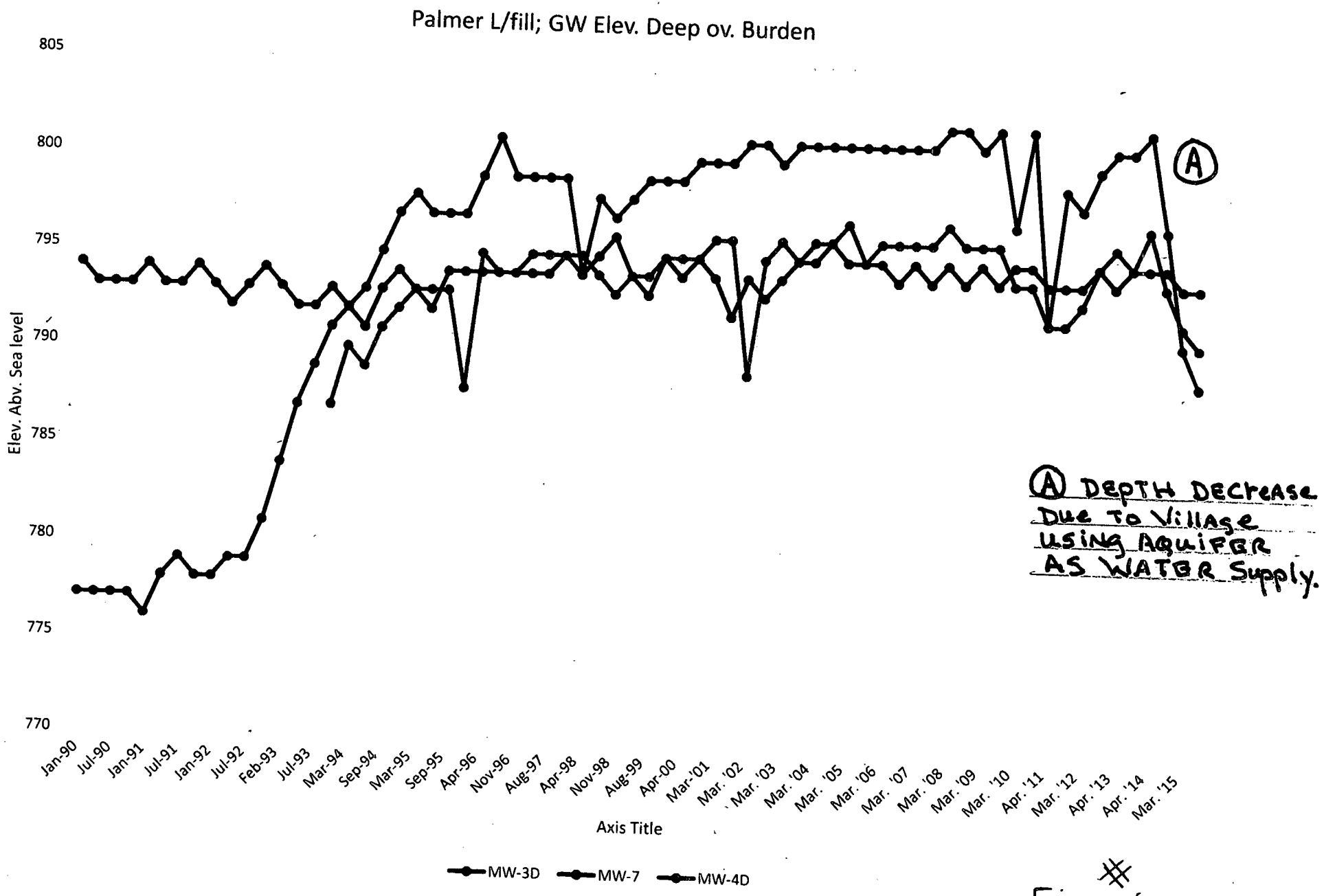


Fig. 4

Plmrgw2

PLMRGW3.xlsx.xls

PALMER STREET LANDFILL
MOENCH COMPANY
GROUNDWATER ELEVATION vs TIME
BEDROCK MONITOR WELLS & PIEZOMETERS
(FIG.#5)
Aug. '15
FIG. #5

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Oct-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-3DR	773	773	773	773	772	775	787	775	777	777	778	783	786	789	792	794	797	797	799	799	800	800	799
MW-7D	795	794	794	795	795	794	794	795	793	792	792	793	793	792	790	793	792	791	793	794	794	793	794
MW-8D	766	768	767	767	763	770	773	771	773	772	776	788	790	794	796	798	802	803	804	804	805	805	804
MW-1D					743	762	765	752	756	758	776	795	798	801	802	807	811	810	810	813	814	809	810
MW-6D					783	781	787	781	781	781	782	782	781	781	781	782	784	780	782	782	784	781	781
P-6D					790	790	790	790	790	790	790	789	789	789	789	789	789	785	789	789	789	790	790

PLMRGW3.xlsx.xls

Apr. 15
(FIG #5)
Fig. #5

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar-01	Aug-01	Apr.-02	Aug.-02	Mar. '03	Aug. '03	MAR. '04	AUG. '04
MW-3DR	798	801	800	801	801	802	802	803	799	799	801	801	801	802	803	803	800	803	803	802	803	804	803
MW-7D	795	795	794	794	795	795	796	796	795	795	795	795	795	795	795	797	796	796	796	798	796	797	796
MW-8D	805	805	805	805	806	807	808	809	800	803	805	807	806	808	808	809	808	809	809	808	809	809	809
MW-1D	812	813	813	814	815	816	816	818	795	808	813	818	814	816	816	818	817	819	819	817	818	818	819
MW-6D	779	782	782	783	782	782	783	782	781	782	783	781	781	783	783	783	782	783	782	784	782	783	780
P-6D	788	790	790	791	791	791	791	792	792	790	791	791	791	792	792	792	792	793	793	793	792	793	792

Fig 5

PLMRGW3.xlsx.xls

Apr. 15
FIG. #5

	Apr. '05	Aug. '05	APR. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	Aug. '10	Apr. '11	Aug. '11	Apr. '12	Aug.'12	Apr.'13	July '13	Apr. '14	Aug. '14	Apr. '15	Aug. '15
MW-3DR	803	803	804	803	805	805	805	805	805	805	798	800	792	796	801	802	804	804	805	796	788	788
MW-7D	796	796	796	795	798	796	794	795	795	798	795	795	795	795	795	795	794	796	796	795	795	794
MW-8D	809	809	810	810	810	810	810	810	810	810	807	807	788	790	806	806	809	810	809	790	790	780
MW-1D	818	819	819	818	819	821	821	821	822	822	799	813	821	808	814	816	820	818	821	775	759	752
MW-6D	784	782	783	782	785	782	783	782	784	782	783	783	783	782	783	782	783	782	783	782	783	783
P-6D	792	792	792	791	793	793	793	794	793	793	792	792	791	791	791	791	792	792	793	792	791	791

**MW-8D depth measured at MW8, after April 2011

***Village using deep aquifer for water supply since 2009. Hydrant on often.

Plmrgw 3

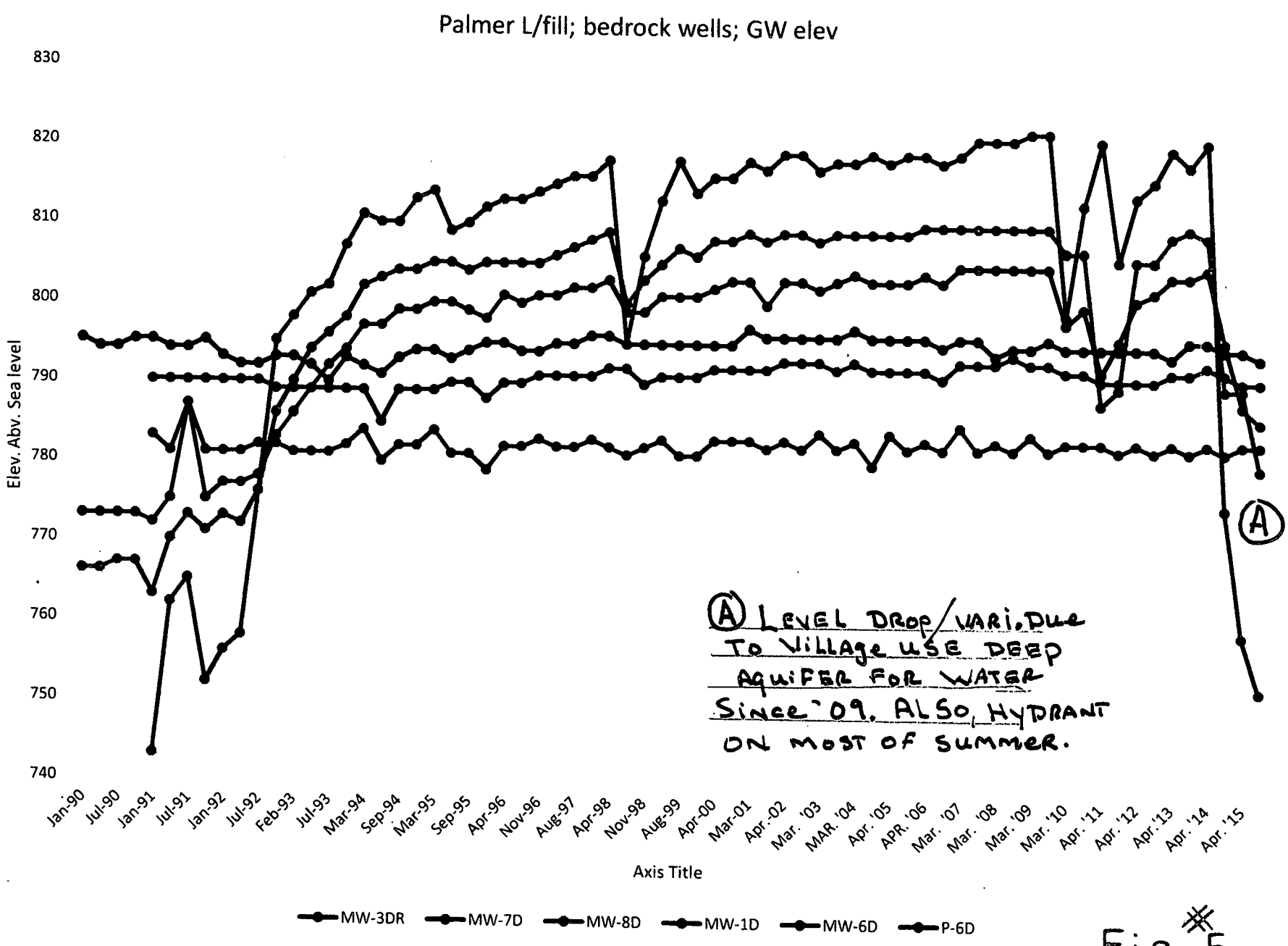

Palmer L/fill; bedrock wells; GW elev
Elev. Abv. Sea level
830
820
810
800
790
780
770
760
750
740
Jan-90
Jul-90
Jan-91
Jul-91
Jan-92
Jul-92
Feb-93
Jul-93
Mar-94
Sep-94
Mar-95
Sep-95
Apr-96
Nov-96
Aug-97
Apr-98
Nov-98
Aug-99
Apr-00
Mar-01
Apr.-02
Mar. '03
MAR. '04
Apr. '05
APR. '06
Mar. '07
Mar. '08
Mar. '09
Mar. '10
Apr. '11
Apr. '12
Apr. '13
Apr. '14
Apr. '15
Axis Title
MW-3DR
MW-7D
MW-8D
MW-1D
MW-6D
P-6D
A
(A) LEVEL DROP/VARI. DUE TO VILLAGE USE DEEP AQUIFER FOR WATER SINCE '09. ALSO, HYDRANT ON MOST OF SUMMER.

Fig. 5

Plm-GW-3

5.0 GROUNDWATER FLOW

A WATER TABLE ISOPOTENTIAL MAP, BEDROCK ISOPOTENTIAL MAP AND A BEDROCK WATER LEVEL HYDROGRAPH HAVE BEEN PREPARED FOR THE PALMER STREET LANDFILL AND ARE PRESENTED IN FIGURES 3,4 AND 5, RESPECTIVELY. GROUNDWATER ELEVATIONS MEASURED THROUGH 2015 WERE USED IN PREPARING THE WATER TABLE AND BEDROCK ISOPOTENTIAL MAP INDICATED THAT THE SHALLOW GROUNDWATER FLOW IS PRIMARILY TO THE EAST TOWARD CATTARAUGUS CREEK. THE BEDROCK ISOPOTENTIAL MAP AND THE BEDROCK WATER LEVEL HYDROGRAPH ILLUSTRATE A "LEVELING OFF" AFTER THREE YEARS ('92-'94) OF RISING LEVELS AT WELLS MW-1D, MW-3DR AND MW-8D. MW-1D AND MW-8D, WHICH WERE FORMERLY DOWNGRADIENT WELLS ARE NOW UPGRADIENT OF THE LANDFILL.

AS PREVIOUSLY MENTIONES, DUE TO FLOOD DAMAGE TO THE VILLAGE RESERVIOR,(8/09) THE VILLAGE was OBTAINING ITS' WATER SUPPLY FROM THE DEEP WELLS. THESE WELLS TAP THE DEEP AQUIFER. THIS WAS CURTAILED SOMEWHAT IN 2012, BUT A RECENT EVENT HAS CAUSED THE VILLAGE OF GOWANDA TO AGAIN USE THE DEEP WELLS. THE SOUTH PORTION OF THE LANDFILL, NOW HAS THE DEEP WATER TABLE FLOWING AWAY FROM THE CATTARAUGUS CREEK.

AS MENTIONED PRIOR, MANY UNUSED WELLS, PIEZOMETERS, LYSIMETERS AND A WELL POINT WERE REMOVED IN 2011. NONE OF THESE WILL EFFECT THE EVALUATION OF GROUNDWATER FLOW.

THE WEATHER THROUGHOUT 2015 WAS SLIGHTLY WET..

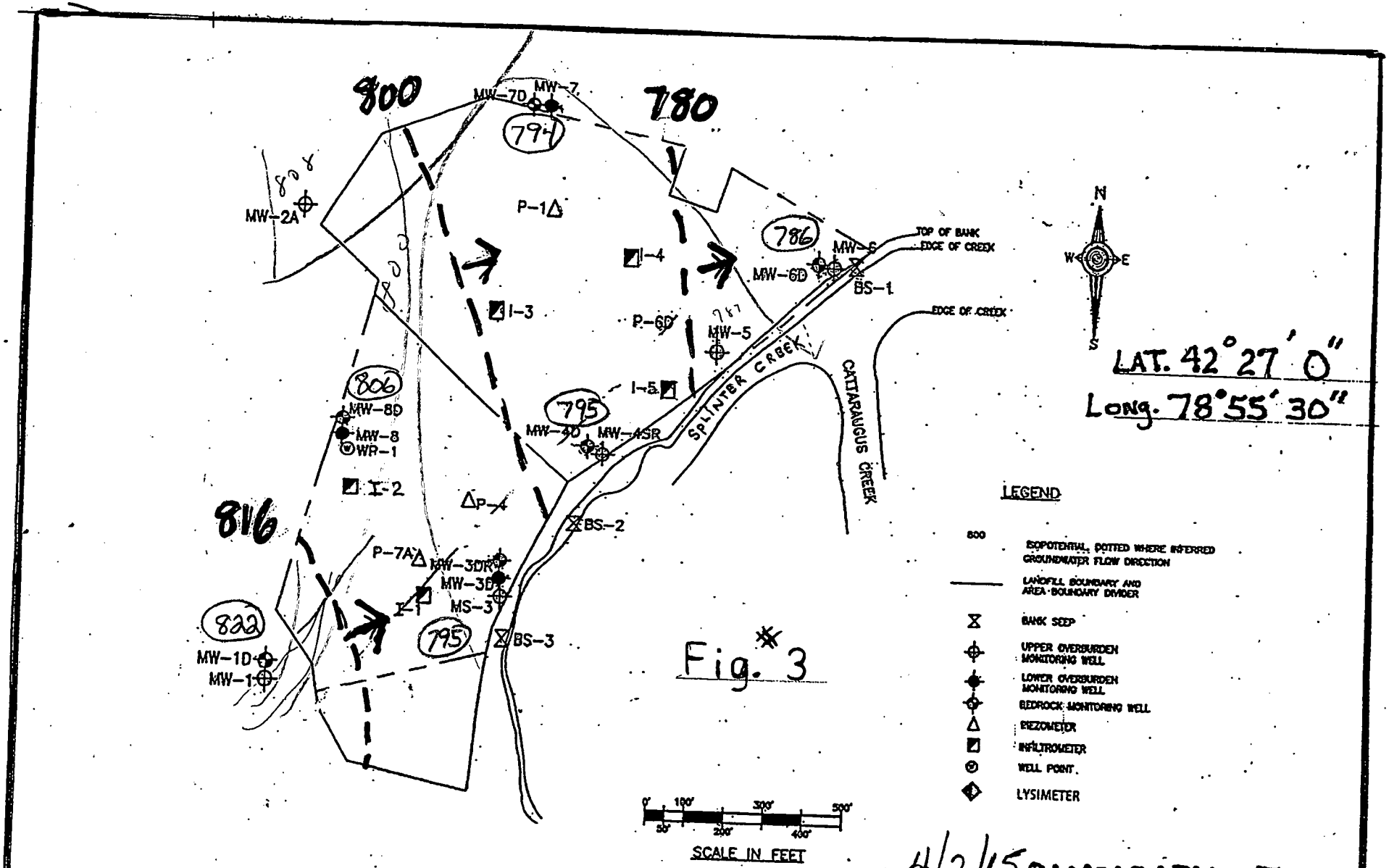


Fig. 3

4/2/15 SAMPLE EVENT:

AMEX
Environmental Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP.

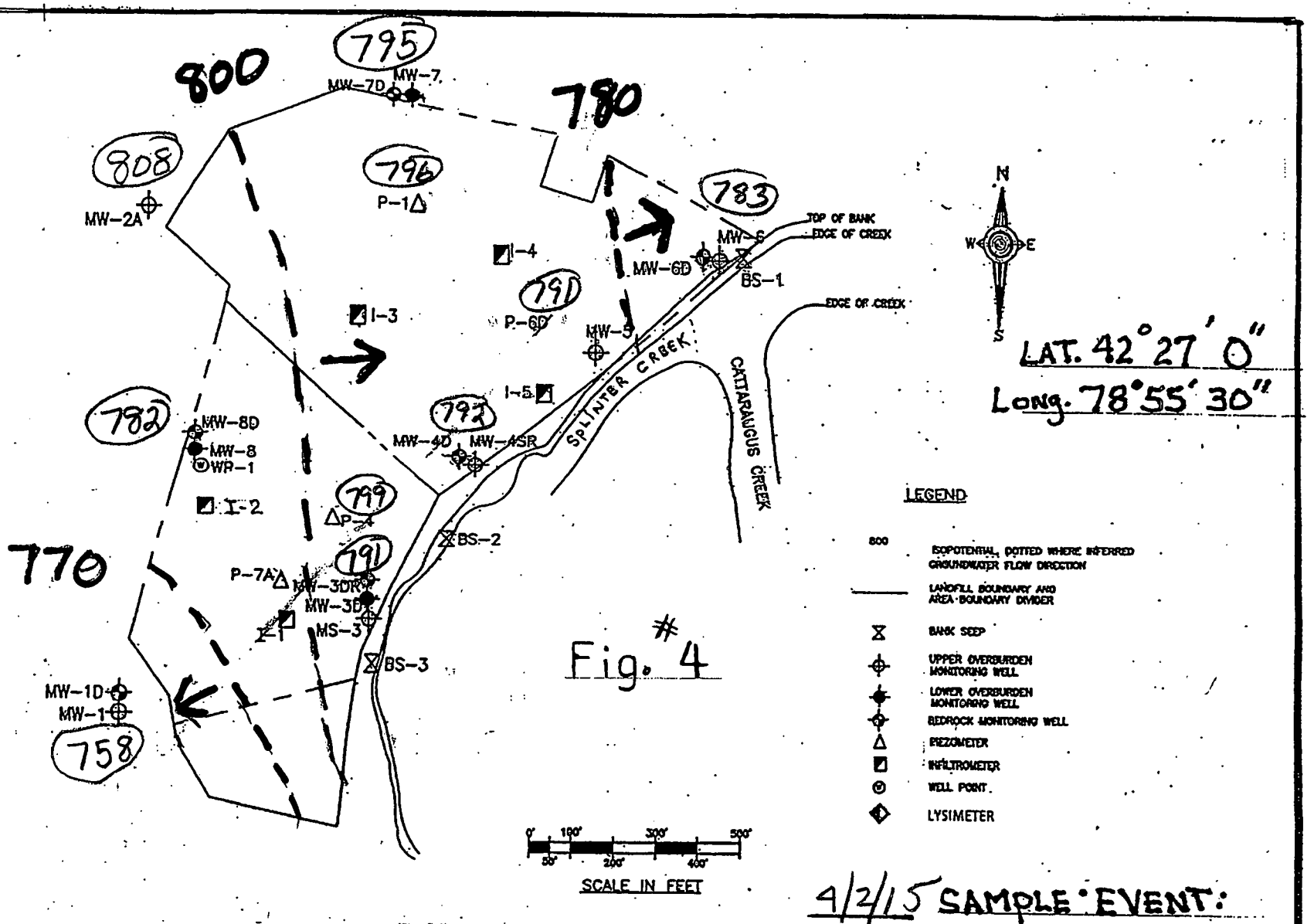


Fig. # 4

4/2/15 SAMPLE EVENT:

AMEX Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.

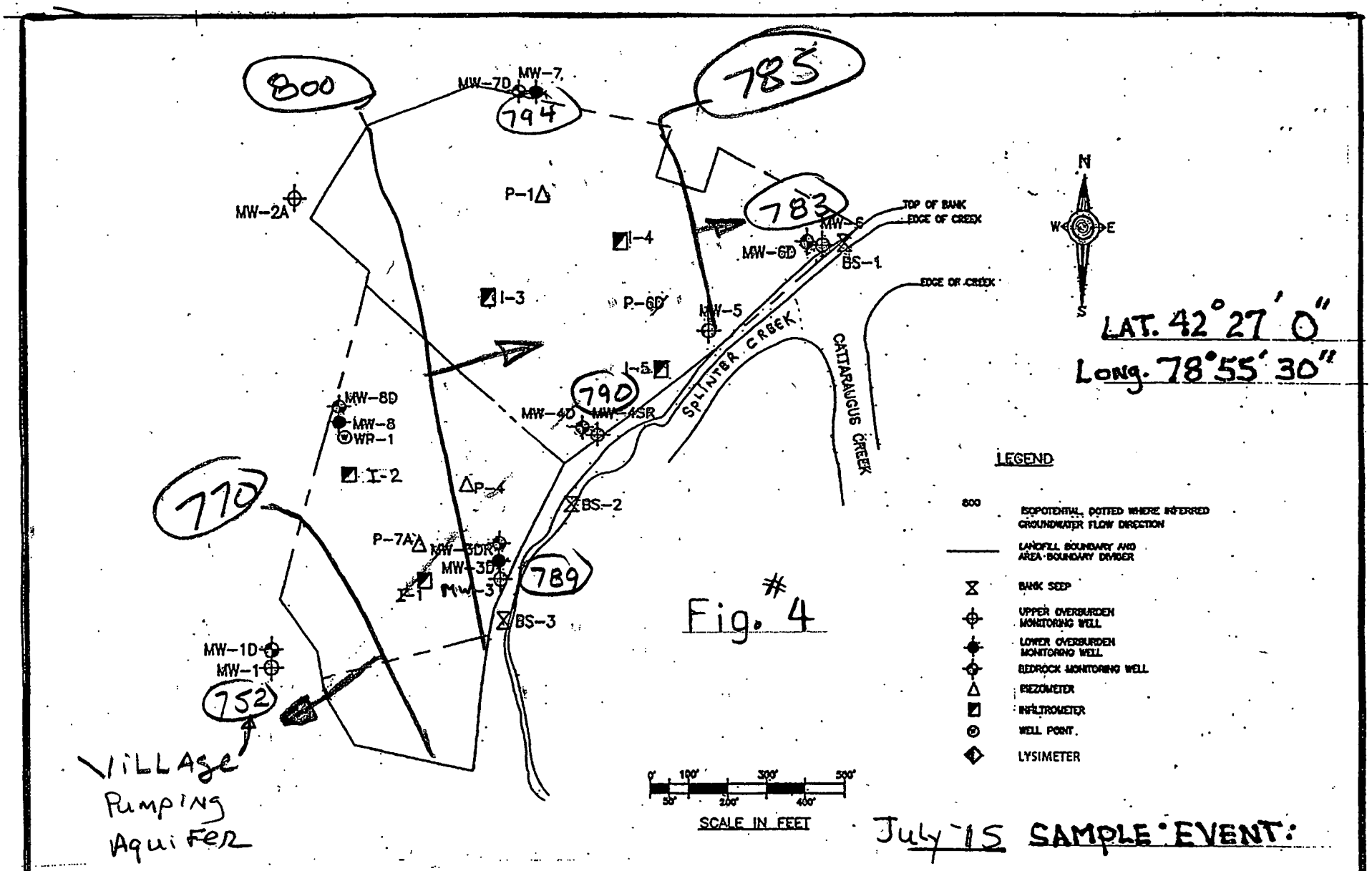


Fig. #4

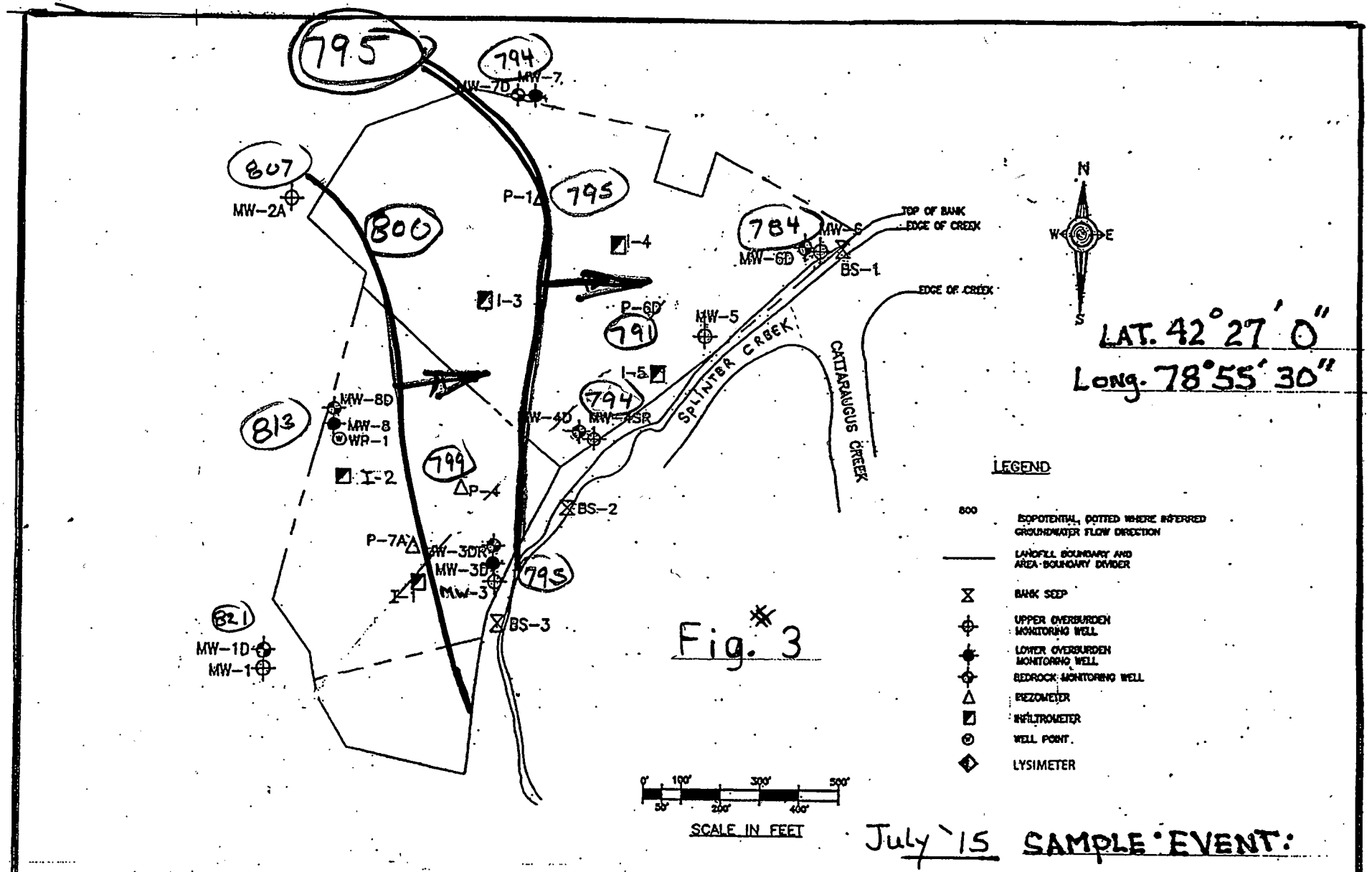
July '15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

BEDROCK ISOPOTENTIAL MAP.



LAT. 42° 27' 0"
Long. 78° 55' 30"

Fig. 3

July '15 SAMPLE EVENT:

GEI Consultants, Inc.
Williamsville, NY

PALMER STREET LANDFILL

SITE PLAN

WATERTABLE ISOPOTENTIAL MAP.

6.0 REFERENCES

1. PALMER STREET LANDFILL CLOSURE/POST CLOSURE PLAN (EPA ID. NYDOO2126910), PREPARED BY MALCOLM PIRNIE, INC. REVISED FEBRUARY 1989, July 1993, Dec. 2006.
2. PALMER STREET LANDFILL, SUPPLEMENTAL HYDROGEOLOGIC INVESTIGATION, PREPARED BY MALCOLM PIRNIE, INC. JANUARY 1989.
3. SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR GROUNDWATER MONITORING - PALMER STREET LANDFILL. PREPARED BY MALCOLM PIRNIE, INC., AUGUST 1989. REVISED-7/93, 8/94, 12/06.
4. TEST METHODS FOR EVALUATING SOLID WASTE, PHYSICAL/ CHEMICAL METHODS, USEPA 200.7, FOR METALS, AND VOC 8260.
5. PALMER STREET LANDFILL, EVALUATION OF ALTERNATIVE COVER SYSTEMS, PREPARED BY MALCOLM PIRNIE, INC., JANUARY 1989.
6. COVER SYSTEM PERFORMANCE EVALUATION; PALMER STREET LANDFILL; PREPARED BY MALCOLM PIRNIE, INC. OCTOBER 1995 & FEBRUARY 1999. THIRD EVALUATION(8/03) PERFORMED BY GEOMATRIX CONSULTANTS. Report Feb. 2004.
7. FORMER TANNERY PLANT SITE, WELL INSTALLATION REPORT; PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING SCIENCE CO., AUGUST 2000.
8. (previously #3) Letter to Mr. Jeffrey Smith, Moench Tanning Co., from New York State Dept. of Environmental Conservation, dated A August 31, 1993.
9. JULY 27TH, 2006 LETTER FROM GEOMATRIX TO STAN RADON(NYSDEC9), DOCUMENTING A JULY 19TH MEETING IN WHICH REVISIONS TO THE GROUNDWATER MONITORING SYSTEM WERE AGREED UPON.
10. SEPTEMBER 7TH, 2006 LETTER FROM STAN RADON(NYSDEC9), TO JEFFREY SMITH(MOENCH), CONFIRMING THE AGREEMENT TO REVISED GROUNDWATER MONITORING SYSTEM, AND COVER SYSTEM EVALUATION ELIMINATION.

ATTACHMENT B1

PALMER ST. LANDFILL

FIELD MEASUREMENT TRENDS

MONITORING EVENTS Apr. 2015

July 2015

PALMER ST L/F, MOENCH COMPANY
"PH" vs TIME
MONITOR POINTS & BANK SEEP
Fig.#6

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-1D	8.2	7.5	7.7	7.9	7.4	7.9	7.8	8	7.8	7.9	7.6	8	8.3	8.3	7.3	7.5	7	7.1	7	6.9	7.2	7.2	7.1
P-6D	START 94																7.3		7.1	7	7.7	7.7	7.7
MW-3DR	8.3	8	7.2	8.1	7.5	8	8.5	8.2	8.4	8	8.2	7.8	7.7	8.8	7.6	8	7.2	7.2	7.2	7	7.8	7.8	7.5
MW-5	7	7.3	7	7	7.2	7	7	7.1	7.3	7.1	7	6.9	7.3	7.4	6.8	7.2							
MW-6D	6.6	6.7	6.7	6.7	6.7	6.7	8	6.9	6.9	6.7	6.7	6.5	6.9	7	6.6	6.7	7.1	7.4	7.5	7.2	7.6	7.6	7.6
MW-4SR																							
MW-4D	6.8				6.9	7	6.8										7.2	7.2	7.5	7	7.7	7.7	7.4
MW-3																							
MW-3D																							
MW-6																							

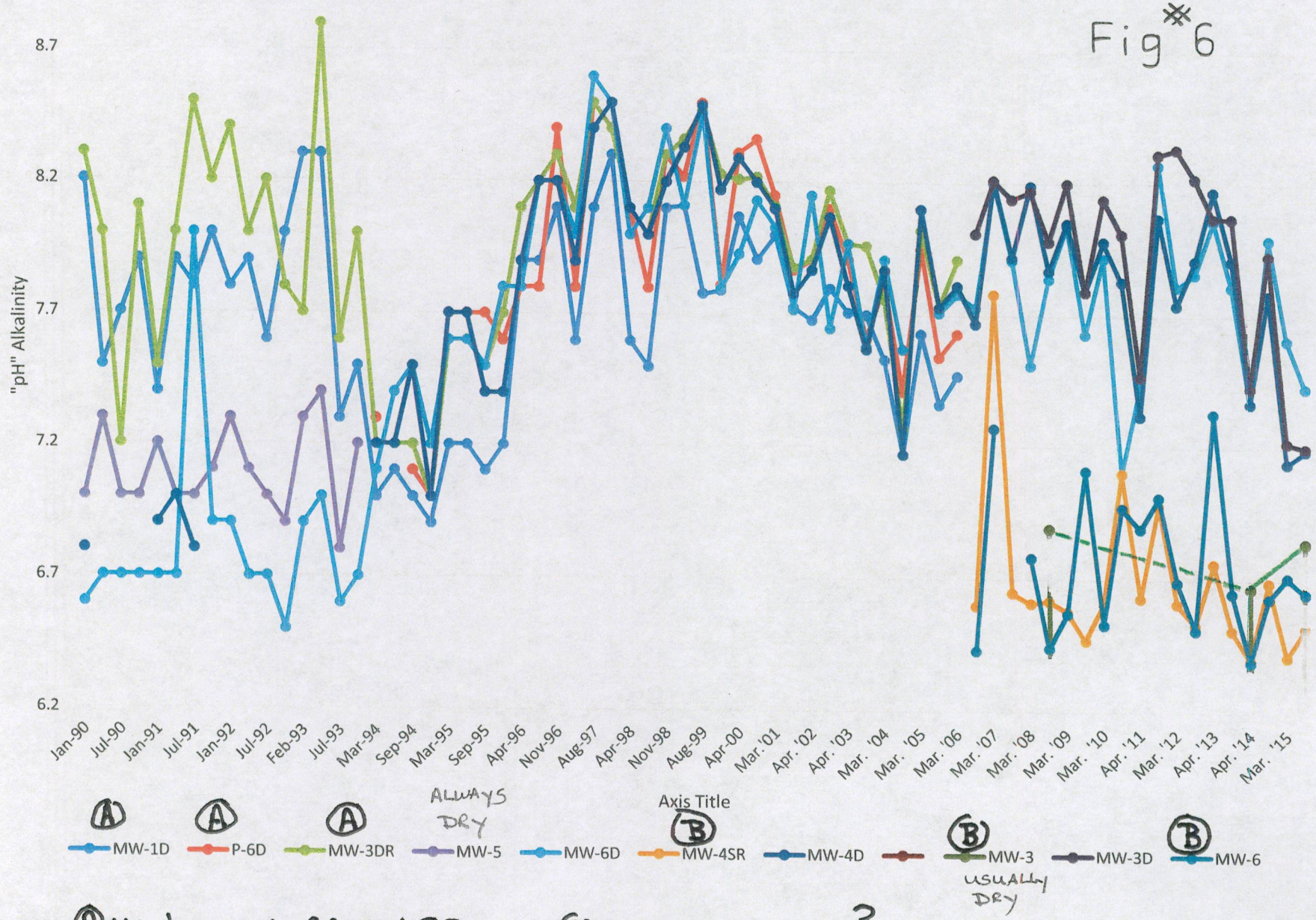
	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04
MW-1D	7.2	7.9	7.9	8.1	7.6	8.1	8.3	7.6	7.5	8.1	8.11	7.78	7.79	8.07	7.91	8	7.73	7.68	7.8	7.71	7.7	7.53	7.17
P-6D	7.6	7.8	7.8	8.4	7.8	8.5	8.4	8.1	7.8	8.3	8.22	8.5	7.81	8.31	8.36	8.15	7.87	7.91	8.1	7.91	7.81	7.82	7.41
MW-3DR	7.7	8.1	8.2	8.3	8.1	8.5	8.4	8.1	8	8.3	8.38	8.47	8.23	8.21	8.22	8.11	7.88	7.91	8.17	7.97	7.96	7.76	7.27
MW-5																							
MW-6D	7.8	7.8	8.2	8.2	8	8.6	8.5	8	8.1	8.4	8.11	8.48	7.8	7.93	8.13	8.03	7.72	8.15	7.65	7.97	7.58	7.91	7.57
MW-4SR																							
MW-4D	7.4	7.9	8.2	8.2	7.9	8.4	8.5	8.1	8	8.2	8.33	8.49	8.17	8.29	8.2	8.1	7.78	7.87	8.07	7.81	7.57	7.87	7.17
MW-3																							
MW-3D																							
MW-6																							

Fig #6

	Mar. '05	Aug. '05	Mar. '06	Aug. '06	Mar. '07	July '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Mar. '15	July '15
MW-1D	7.63	7.38	7.47									no more	no more	no more	no more	no more	no more	no more	no more	no more	no more	no more
P-6D	7.95	7.54	7.63									" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "
MW-3DR	8.02	7.73	7.91									" "	" "	" "	" "	" "	" "	" "	" "	" "	" "	" "
MW-5																						
MW-6D		7.71	7.78	7.73	8.2	7.91	7.51	7.84	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-4SR				6.6	7.78	6.85	6.61	6.62	8.04	7.63	7.92	7.1	7.43	8.27	7.81	7.86	8.06	7.81	7.37	7.99	7.61	7.43
MW-4D	8.1	7.73	7.81	7.67	8.21	7.92	8.19	7.87	6.58	6.47	6.61	7.1	6.63	6.98	6.81	6.53	6.76	6.51	6.4	6.69	6.41	6.52
			new sample locat.						8.05	7.79	7.98	7.83	7.32	8.07	7.74	7.91	8.17	7.91	7.37	7.78	7.14	7.19
MW-3																						
MW-3D				8.01	8.21	8.14	8.17	7.98	dry	dry	dry	dry	dry	dry			dry	2.83	6.67	dry	dry	6.84
MW-6				6.43	7.27		6.78	6.44	8.2	7.79	8.14	8.01	7.47	8.31	8.33	8.22	8.07	8.07	7.43	7.93	7.22	7.2
									8.57	7.11	6.53	6.97	6.89	7.01	6.69	6.51	7.33	6.65	6.39	6.63	6.71	6.65

Palmer L/F: "pH"

Fig # 6



(A) NO Longer SAMPLED

(B) TREND Acidic ?

PALMER ST L/F, MOENCH COMPANY
"PH" vs TIME
MONITOR POINTS & BANK SEEPS
FIG.#6

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
P-6B																							
MW-7D	7.7	7.8	7.9	8	7.5	7.8	7.8	7.8	7.8	8.2	8.2	7.9	7.8	8.3	7.8	8.3	7.1	7.1	7	7	7.1	7.1	7.2
MW-8D	10	9.2	9	9.5	9	9.3	9.1	8.6	8.8	8.7	8.8	8.6	8.8	8.6	8.1				7.1	7	7.6	7.6	7.4
BS-1	7.1	7.3	6.7	6.9	7.4	7			8.5	7.7	7.6	7.8	8.1	7.5		8.1	7.7	7.1	7.8				7.8
BS-3	7	7.3	7.1	7.3	7.1	7.3		7.9	7.6	7.2	7.1	7.4	7.1	7.8		7.9	7.3	6.6	6.8	6.9	6.7	7.3	6.9
BS-2																							

plmr5ph.xlxs.xls

Fig. #6

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. ;02	Apr. '03	Aug. '03	Mar. '04	Aug. '04
P-6B	7.2	7.8	7.8	8.2	7.8	8.4	8.4	7.9	7.1	8.3	8.1	8.16	7.67	8.41	8.32	8.36	7.58	8.12	8.21	7.76	7.68	7.9	7.13
MW-7D	7.6	7.9	8.2	8.2	7.8	8.4	8.4	8	8	8.2	8.4	8.48	7.93	8.32	8.12	8.05	7.78	8.13	8.14	7.85	8.11	7.97	7.62
MW-8D				8.2		8.5		8.2	7.9				8.08	8.44			7.83	7.94			7.67		7.4
BS-1	7.1	7		9	7	8.2	8.3	8.2	7.8	7.9	7.83	8.45	7.9	7.47	7.87	7.45	7.38	7.61	7.42	7.18	7.62	7.25	6.9
BS-3	7.3	8.1		8.3	8.2	8.3	8.1	7.4	7.9	7.5	7.64	8.3	7.66	7.76	7.42	8.67	7.4	7.71	7.6	8.05	7.8	7.96	7.16
BS-2																							

Fig. ※ 6

plmr5ph.xlxs.xls

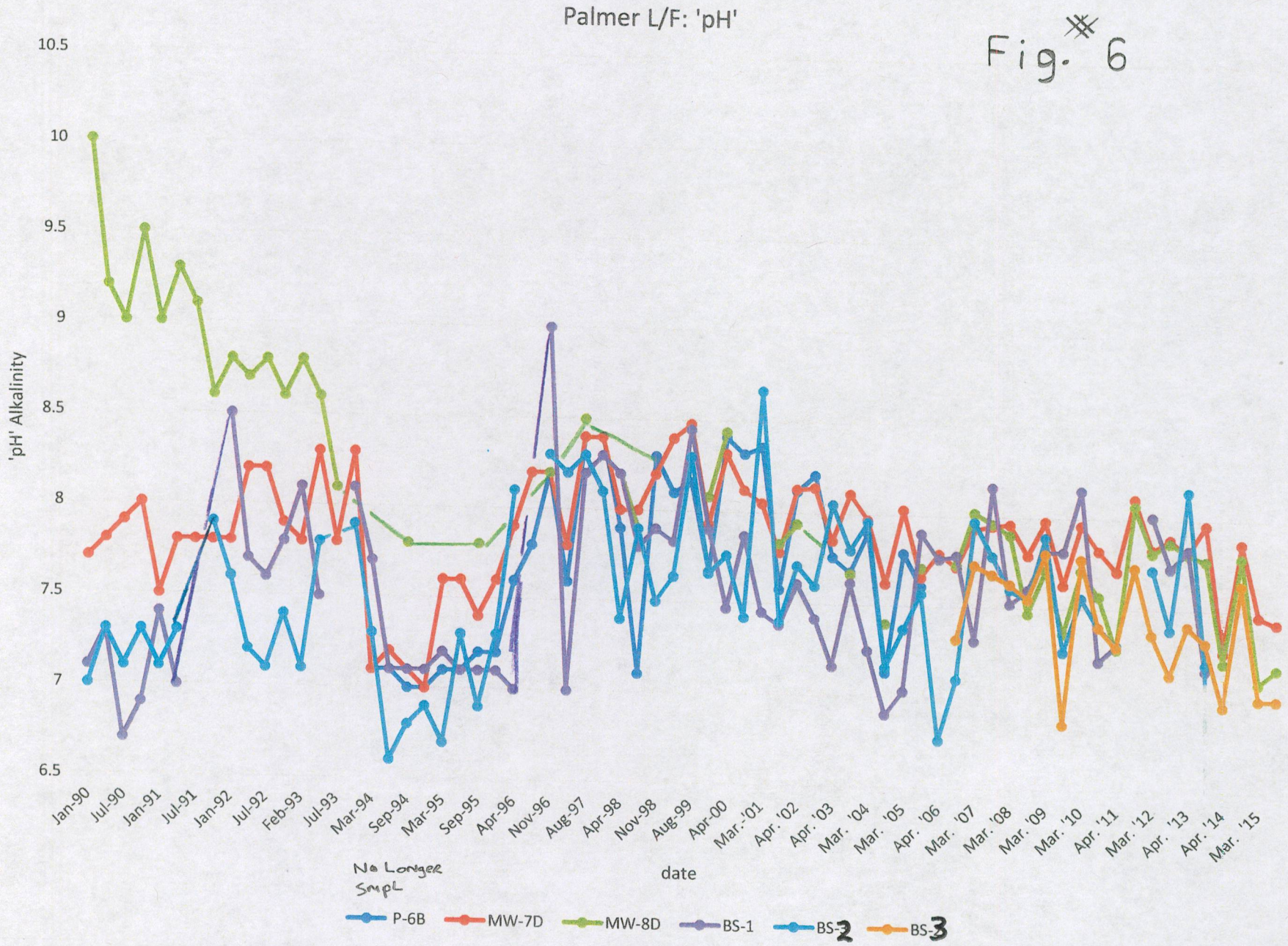
Figure #6

	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13.	Apr. '14	Aug. '14	Mar. '15	July '15
P-6B	7.79	7.61									no longer						no more	no more	no more	no more	no more	no more
MW-7D	8.03	7.66	7.79	7.72	7.93	7.95	7.96	7.79	7.98	7.63	7.96	7.82	7.71	8.11	7.83	7.89	7.81	7.97	7.27	7.87	7.47	7.43
MW-8D		7.71		7.73	8.02	7.96	7.9	7.47	7.71	7.36	7.71	7.57	7.28	8.07	7.81	7.87	7.81	7.77	7.21	7.79	7.1	7.18
BS-1	7.03	7.9	7.76	7.76	7.31	8.16	7.52	7.6	7.81	7.81	8.15	7.21	7.3		8.01	7.73	7.83	7.17	no smpl	no smpl	no smpl	no smpl
BS-3	7.37	7.57	6.76	7.1	7.97	7.78	7.6	7.55	7.89	7.26	7.56	7.4	7.3		7.72	7.39	8.15	7.2	no smpl	no smpl	no smpl	no smpl
BS-2				7.32	7.73	7.68	7.63	7.55	7.8	6.86	7.77	7.4	7.29	7.73	7.36	7.14	7.41	7.32	6.97	7.64	7.01	7.01

Bank Seep samples often creek samples , if no BS avail.

Plmr 5 Ph

Fig. * 6



Plmr5Ph

PALMER S ST L/F; M OENCH CO.
SPECIFIC CONDUCTIVITY vs TIME
MONITOR WELLS & BANK SEEPS

FIGURE#7

Fig. #7

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
MW-1D	0.6	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1	1	0.8	0.9	0.8	0.8	0.8
P-8B	START94																0.7	0.8	0.8	0.9	0.4	0.7	0.8
MW-3DR	0.6	0.8	0.5	0.5	0.5	0.5	0.5	0.5	0.6	0.6	0.6	0.6	0.6	0.7	0.6	0.7	0.7	0.6	0.4	0.8	0.4	0.5	0.5
MW-5	3.8	2.7	1.5	1.7	1.9	5	3	4.2	5.8	4.2	4.1	4.2	4	6.8	3.3	3.7							
MW-6D	5.3	5.4	4.9	3.1	3.5	3.6	3.2	4.9	4.1	3.3	2.8	2.8	2.7	4.3	3.8	3.3	1	0.9	1.1	1.1	1	0.9	0.9
MW-4D																2.6	0.6	0.8	0.7	0.8	0.7	0.7	0.9
MW-3																							
MW-3D																							
MW-4SR																							

Fig. #7

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04
MW-1D	0.8	1	0.8	0.9	0.9	0.9	1	0.7	0.6	1.1	0.62	0.9	0.9	0.8	0.81	0.79	0.68	0.82	0.71	0.8	0.74	0.74	0.81
P-8B	0.6	0.4	0.5	0.6	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.7	0.6	0.44	0.48	0.48	0.44	0.69	0.5	0.56	0.44	0.71
MW-3DR	0.5	0.5	0.5	0.6	0.6	0.5	0.7	0.5	0.5	0.6	0.53	0.6	0.6	0.4	0.42	0.41	0.57	0.5	0.49	0.52	0.54	0.48	0.48
MW-5																							
MW-6D	0.9	1	1.1	1	1.2	1	1.9	1.2	0.9	1.1	0.9	0.8	1	1.25	1.1	1.1	0.77	1.1	0.8	0.85	1	1	0.95
MW-4D	0.7	0.8	0.7	0.9	0.8	0.7	0.8	0.7	0.8	0.7	0.7	0.6	0.6	0.8	0.57	0.63	0.58	0.61	0.6	0.56	0.62	0.58	0.64
MW-3																							
MW-3D																							
MW-4SR																							

※
Fig. 7

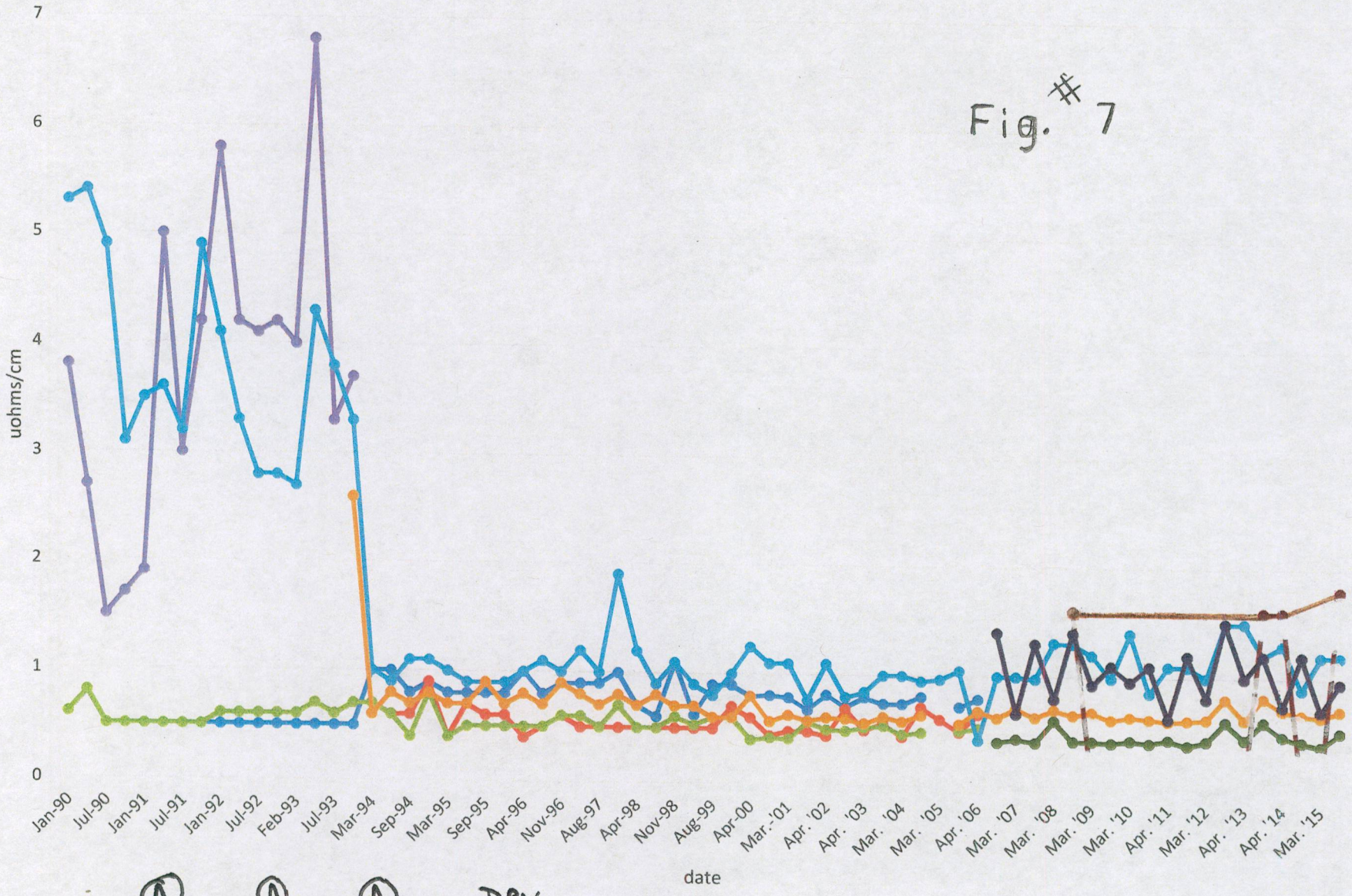
Fig. #7

	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Mar. '15	July '15
MW-1D		0.72	0.79														no more	no more	no more	no more	no more	no more
P-8B	0.6	0.49	0.65														no more	no more	no more	no more	no more	no more
MW-3DR		0.5	0.52														no more	no more	no more	no more	no more	no more
MW-5																						
MW-6D	0.97	1.05	0.41	1	1	0.98	1.31	1.3	1.2	0.99	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry	dry
MW-4D		0.56	0.68	0.62	0.71	0.63	0.7	0.65	0.68	0.61	1.4	0.86	1.1	1.1	1	1.5	1.5	1.2	1.3	0.9	1.2	1.2
		New Sample points									0.64	0.62	0.6	0.61	0.62	0.81	0.62	0.82	0.71	0.67	0.65	0.71
MW-3								1.6	dry	dry	dry	dry	dry	dry	dry	dry	dry	1.8	1.6	dry	dry	1.8
MW-3D				0.4	0.43	0.4	0.6	0.41	0.41	0.4	0.42	0.4	0.43	0.38	0.42	0.6	0.44	0.6	0.47	0.42	0.38	0.51
MW-4SR				1.4	0.66	1.3	0.8	1.4	0.93	1.1	0.96	1.1	0.62	1.2	0.81	1.5	1	1.2	0.74	1.2	0.7	0.96

Plmrsc1

Palmer L/F: Spec. Conduct.

Fig. # 7



(A) MW-1D (A) P-6B (A) MW-3DR — DRY: MW-5

(A) No Longer Sampled

OFTEN DRY: MW-3, MW-3D, MW-4SR

Plmrsc1

FIGURE # 7 — PALMER ST. LANDFILL, MOENCH COMPANY
SPECIFIC CONDUCTIVITY vs TIME (umhos/CM)(THOUSANDS)
MONITOR WELLS & BANK SEEPS

	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95
P-6D	STRT-94																						
MW-7D	1	1	0.7	0.8	0.5	0.7	0.8	0.7	0.5	0.8	0.8	0.6	0.6	0.7	0.9	0.7	0.6	0.7	0.9	0.9	0.5	0.6	0.6
MW-8D	0.5	0.6	0.3	0.3	0.2	0.2	0.2	0.3	0.4	0.4	0.4	0.4	0.4	0.5	0.4		0.7	0.7	0.7	1	0.5	0.5	0.5
BS-1	2.7	2.9	3	2.9	1	1.6		1.3	1.3	1.3	0.6	0.6	0.6	0.7		0.8	0.7	0.6		0.8	1.1	0.7	1
BS-2	2.8	2.9	1.8	1.8	1	1.8		1.1	0.9	0.9	1.1	0.5	0.5	0.7		0.7	0.6	1	0.6	0.9	1.2	0.5	1.4
BS-3																							

plmr2sc.xlsx.xls

FIGURE #

	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04
P-6D	0.4	0.6	0.6	0.7	0.6	0.6	0.6	0.6	0.5	0.7	0.6	0.5	0.57	0.7	0.58	0.85	0.52	0.48	0.72	0.62	0.54	0.3	0.58
MW-7D	0.6	0.6	0.6	0.7	0.7	0.6	0.7	0.6	0.7	0.7	0.62	0.61	0.59	0.7	0.6	0.65	0.58	0.79	0.59	0.68	0.76	0.72	0.72
MW-8D				0.3		0.3			0.5				0.53	0.4			0.4	0.44			0.36		0.54
BS-1		1	0.7	0.3	1.5	0.5	0.5	0.5	0.6	0.7	0.9	0.62	0.6	1.05	0.52	1.05	0.39	1.1	0.42	0.9	0.54	1.1	0.7
BS-2	0.5	0.2	0.5	0.5	0.5	0.6	0.8	0.8	0.4	1.1	0.8	0.56	0.56	0.8	1.1	0.39	1.6	1.2	0.32	0.44	0.24	0.52	0.52

Figure #7

plmr2sc.xlsx.xls

Fig # 7

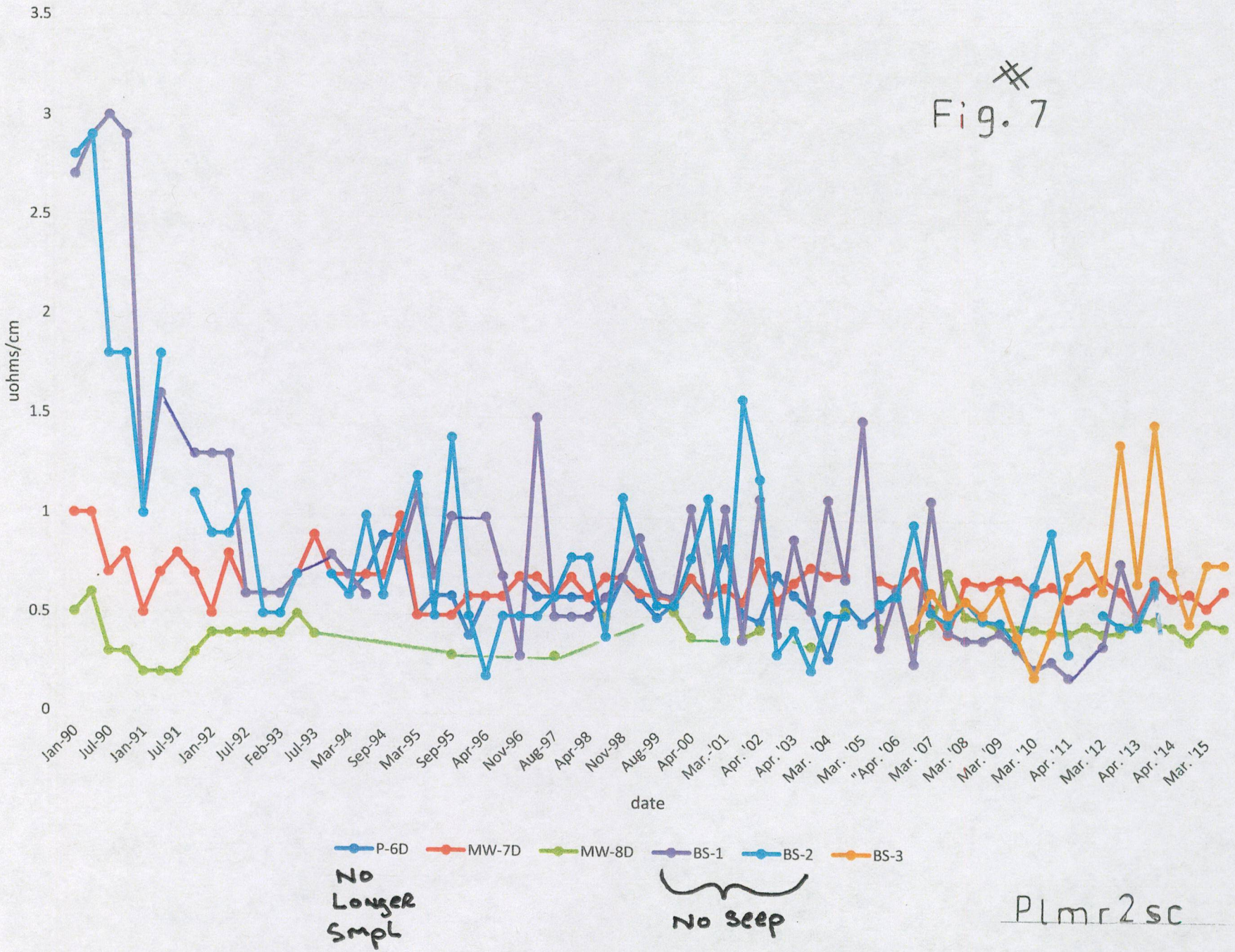
FIGURE #

	Mar. '05	Aug. '05	*Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Mar. '15	July '15
P-6D	0.48	0.56	0.65																			
MW-7D		0.7	0.68	0.75	0.56	0.43	0.7	0.68	0.71	0.71	0.65	0.68	0.62	0.66	0.72	0.68	no more	no more	no more	no more	no more	no more
MW-8D		0.48		0.41	0.48	0.74	0.52	0.5	0.48	0.48	0.48	0.45	0.44	0.48	0.44	0.45	0.54	0.72	0.63	0.65	0.58	0.67
BS-1	1.5	0.38	0.65	0.28	1.1	0.44	0.4	0.4	0.44	0.36	0.28	0.3	0.22		0.38	0.8	0.52	0.51	0.48	0.41	0.5	0.48
BS-2		0.58	0.62	0.98	0.54	0.48	0.6	0.5	0.49	0.38	0.68	0.85	0.34		0.54	0.48	0.48	0.7	no smpl	no smpl	no smpl	no seep
BS-3				0.48	0.64	0.53	0.6	0.53	0.66	0.42	0.22	0.44	0.73	0.84	0.66	1.4	0.7	1.5	0.78	0.5	0.8	0.8

Plmr2sc

Palmer L/F: Spec. Conduct.

Fig. 7



Plmr2sc

4.3 RATE OF CONTAMINANT MIGRATION

Contaminant migration and potential environmental impacts for the Palmer Street Landfill are discussed in detail in the report entitled "Palmer Street Landfill - Evaluation of Alternative Cover Systems" prepared by Malcolm Pirnie, Inc., January 1989 (Reference 7). As described in the above-mentioned report, groundwater migrates from the landfill through the shallow water-bearing zone along both the eastern and northern boundaries of the waste/fill area. A reasonable assumption in determining the rate of contaminant migration across the site is the rate of contaminant migration is equivalent to the rate at which groundwater leaves the site. This latter calculation can be performed through the application of Darcy's Law which is expressed as:

$$V = \frac{ki}{\theta}$$

where: V = velocity of shallow groundwater flow (feet/day)
k = hydraulic conductivity of the shallow water bearing zone (feet/day)
i = hydraulic gradient (dimensionless)
θ = average porosity of the shallow water bearing zone (dimensionless

Values for k and θ were previously determined (see Reference 2) as 4.1 ft/day and 0.35, respectively. The hydraulic gradient (i) is measured perpendicular to the primary direction of groundwater flow (viz., to the east toward Cattaraugus Creek - see Section 5.0) using average water level elevations as measured in MW-1 and MW-3 and elevation as measured in MW-2A and MW-5 during the 1993 monitoring year. The hydraulic gradient for MW-1 and MW-3 is thus:

$$\frac{\Delta H}{\Delta X} = \frac{26.3}{600} = 0.044$$

where

Δ H = difference in average groundwater elevations between MW-1 and MW-3 (feet)
Δ X = distance between MW-1 and MW-3 (feet)

Upon inserting this value into the Darcy's Law expression for velocity, the following result is obtained:

$$V = \frac{Ki}{\theta} \quad \frac{(4.1)(0.044)}{0.35} = 0.52 \ ft/day$$

Thus, the rate of contaminant migration across the site is approximately 0.52 feet/day between monitoring wells MW-1 and MW-3.

The hydraulic gradient for MW-2A and MW-5 is as follows:

$$\frac{\Delta H}{\Delta X} = \frac{24.5}{1085} = 0.022$$

Δ H = difference in average groundwater elevations between MW-2A and MW-5 (feet)

Δ X = distance between MW-2A and MW-5 (feet)

$$V = \frac{Ki}{\theta} \quad \frac{(4.1)(0.022)}{0.35} = 0.26 \ ft/day$$

The rate of contaminant migration across the site is approximately 0.26 ft/day between monitoring wells MW-2A and MW-5.

ATTACHMENT C

SOLUBLE METALS CONCENTRATION VS. TIME

MONITORING EVENTS: Apr. 2015
July 2015

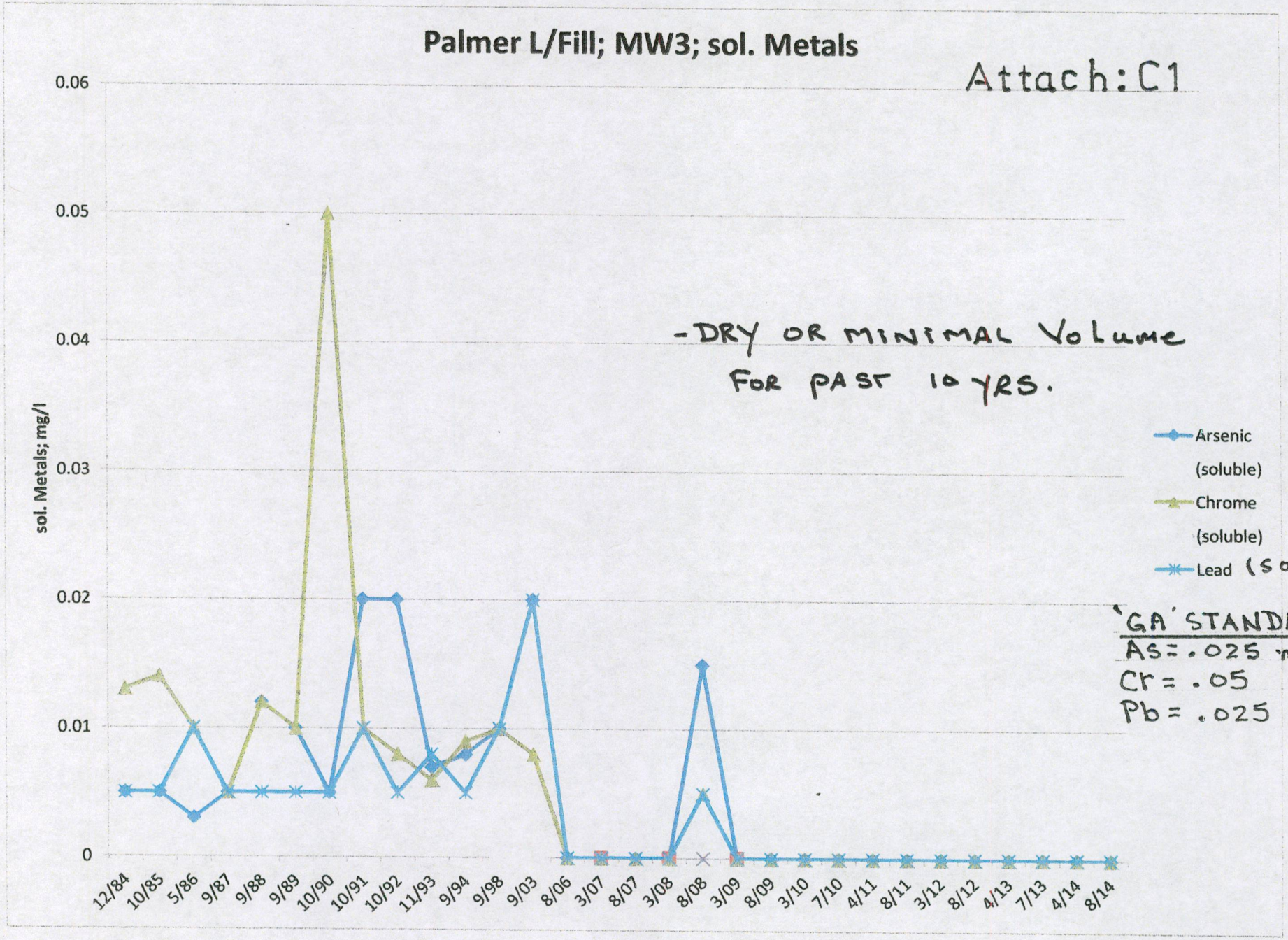
			PALMER ST. LANDFILL; MOENCH COMPANY							ATTAACHMENT C1					
			MW-3 SOLUBLE METALS vs. TIME*** SCREENED IN WASTE***												
	12/84	10/85	5/86	9/87	9/88	9/89	10/90	10/91	10/92	11/93	9/94	9/98	9/03	8/06	3/07
Arsenic	0.005	0.005	0.003	0.005	0.012	0.01	0.005	0.02	0.02	0.007	0.008	0.01	0.02	dry	dry
(soluble)															
Chrome	0.013	0.014	0.01	0.005	0.012	0.01	0.05	0.01	0.008	0.006	0.009	l.t.	l.t.		
(soluble)												0.01	0.008	dry	dry
Lead	0.005	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	0.008	0.005	l.t.			
												0.01	0.02	dry	dry

Attach: C1

	8/07	3/08	8/08	3/09	8/09	3/10	7/10	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14
Arsenic	dry	dry	0.015	dry	dry	dry	dry	dry	dry	dry	dry	dry	<.005	<.005	dry
(soluble)															
Chrome	dry	dry	0.005	dry	dry	dry	dry	dry	dry	dry	dry	dry	<.005	<.005	dry
(soluble)			l.t.												
Lead	dry	dry	0.005	dry	dry	dry	dry	dry	dry	dry	dry	dry	<.005	<.005	dry

Dry or inadequate vol. past ~~8~~ 10 yrs.

Plmr. MTL-MW3

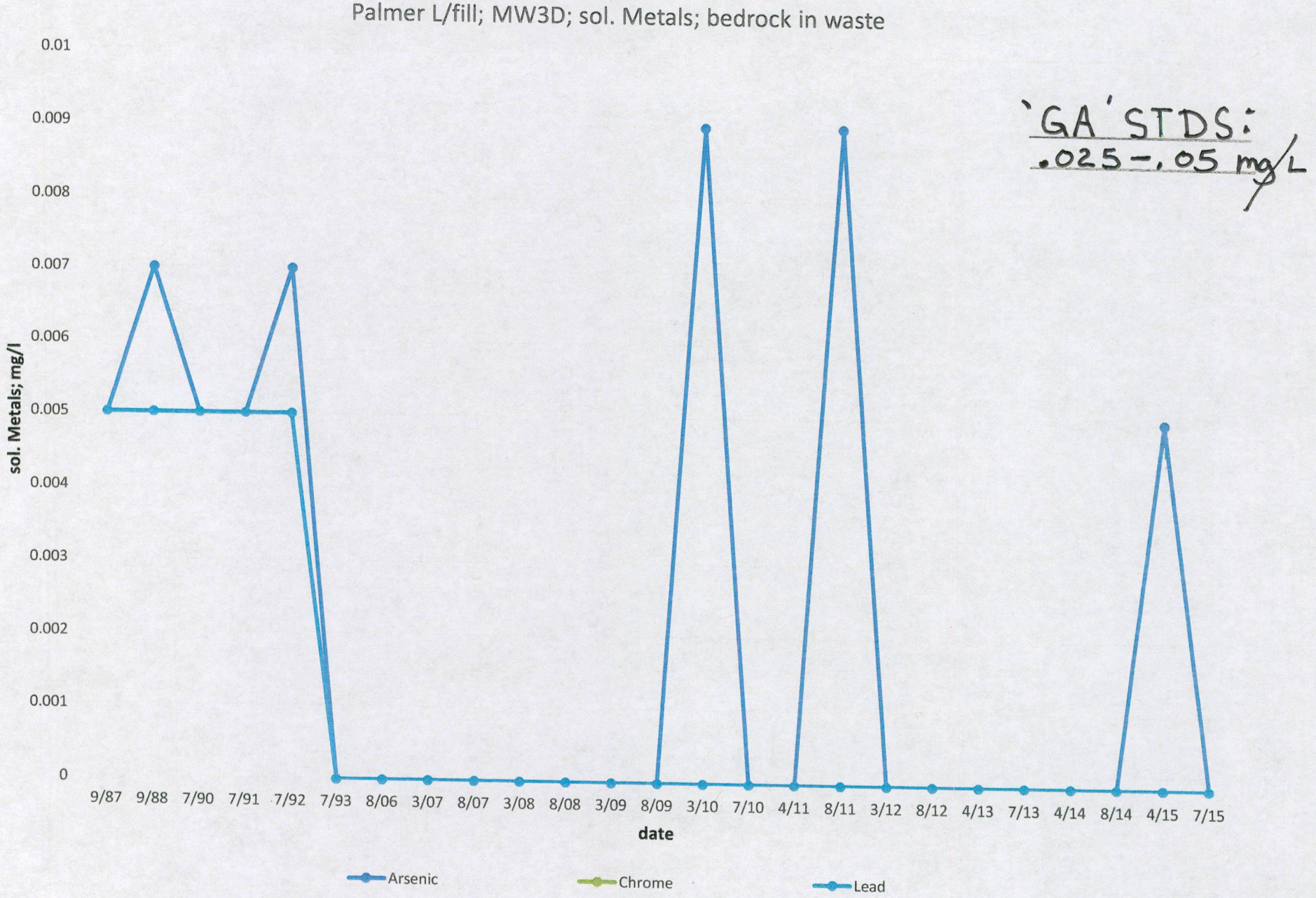

Palmer L/Fill; MW3; sol. Metals
Attach: C1
-DRY OR MINIMAL Volume FOR PAST 10 YRS.
sol. Metals; mg/l
0.06
0.05
0.04
0.03
0.02
0.01
0
12/84
10/85
5/86
9/87
9/88
9/89
10/90
10/91
10/92
11/93
9/94
9/98
9/03
8/06
3/07
8/07
3/08
8/08
3/09
8/09
3/10
7/10
4/11
8/11
3/12
8/12
4/13
7/13
4/14
8/14
Arsenic (soluble)
Chrome (soluble)
Lead (sol.)
'GA' STANDARD:
As = .025 mg/L
Cr = .05 "
Pb = .025 "

		PALMER ST. LANDFILL; MOENCH COMPANY													
		MW-3D, SOLUBLE METALS;(BEDROCK, IN WASTE)						ATTACHMENT-C1							
	9/87	9/88	7/90	7/91	7/92	7/93	8/06	3/07	8/07	3/08	8/08	3/09	8/09	3/10	7/10
Arsenic (soluble)	0.005	0.007	0.005	0.005	0.007	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.009	<.005
Chrome (soluble)	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Lead	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

attach: C1

	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14	4/15	7/15
Arsenic (soluble)	<.005	0.009	<.005	<.005	<.0005	<.005	<.005	<.005	0.005	<.005
Chrome (soluble)	<.005	<.005	<.005	<.005	<.0005	<.005	<.005	<.005	<.005	<.005
Lead	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

MDL=.005 mg/l


Palmer L/fill; MW3D; sol. Metals; bedrock in waste
0.01
0.009
0.008
0.007
0.006
0.005
0.004
0.003
0.002
0.001
0
sol. Metals; mg/l
9/87 9/88 7/90 7/91 7/92 7/93 8/06 3/07 8/07 3/08 8/08 3/09 8/09 3/10 7/10 4/11 8/11 3/12 8/12 4/13 7/13 4/14 8/14 4/15 7/15
date
Arsenic
Chrome
Lead
'GA' STDS:
.025-.05 mg/L

P/MR.MTL.MW3D

PALMER ST. LANDFILL; MOENCH COMPANY
MW-4SR SOLUBLE METALS; ***SCREENED IN WASTE***

ATTACHMENT C1

	12/84	4/85	5/86	9/87	10/88	9/89	10/90	7/91	11/93	9/94	8/98	9/98	5/03	8/06	3/07	8/07	3/08	8/08
Arsenic (soluble)	0.006	0.007	0.003	0.014	0.018	0.01	0.016	0.01	0.008	0.01	0.01	0.017	0.01	<.005	<.005	<.005	<.005	<.005
Chrome (soluble)	0.006	0.015	0.03	0.019	0.025	0.02	0.06	0.027	0.009	0.028	0.042	0.029	0.014	0.014	<.005	0.012	0.007	0.015
Lead	0.005	0.005	0.01	0.005	0.005	0.005	0.005	0.01	0.005	0.005	0.005	0.005	0.01	<.005	<.005	<.005	<.005	<.005

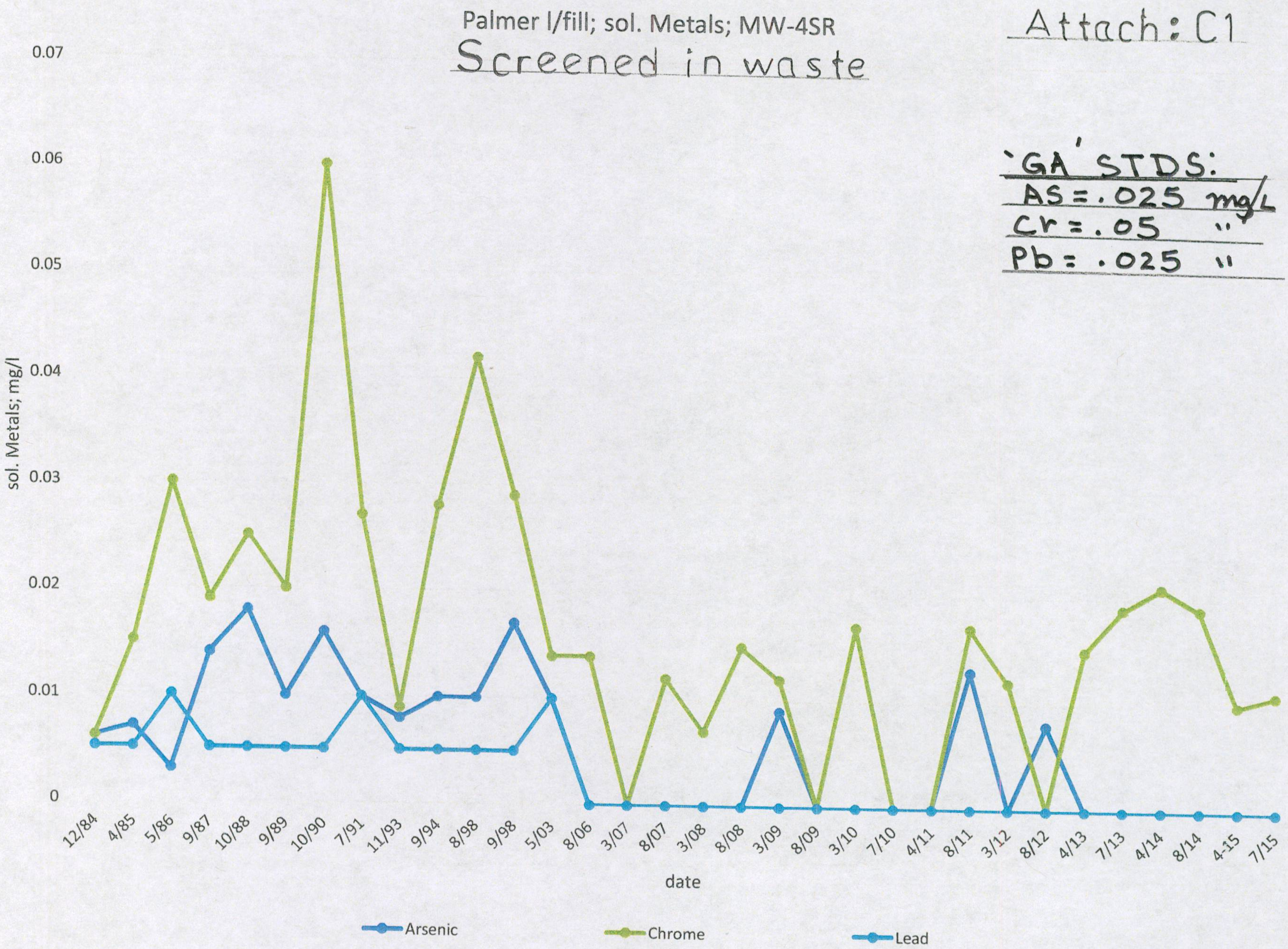
Screened in waste

Attach: C1

	3/09	8/09	3/10	7/10	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14	4-15	7/15
Arsenic (soluble)	0.009	<.005	<.005	<.005	<.005	0.013	<.005	0.008	<.005	<.005	<.005	<.005	<.005	<.005
Chrome (soluble)	0.012	<.005	0.017	<.005	<.005	0.017	0.012	<.005	0.015	0.019	0.021	0.019	0.01	0.011
Lead	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

Plmr.mtl.mw4sr

Attach: C1


Palmer l/fill; sol. Metals; MW-4SR
Screened in waste
'GA' STDS:
AS = .025 mg/L
Cr = .05 "
Pb = .025 "
sol. Metals; mg/l
0.07
0.06
0.05
0.04
0.03
0.02
0.01
0
12/84
4/85
5/86
9/87
10/88
9/89
10/90
7/91
11/93
9/94
8/98
9/98
5/03
8/06
3/07
8/07
3/08
8/08
3/09
8/09
3/10
7/10
4/11
8/11
3/12
8/12
4/13
7/13
4/14
8/14
4-15
7/15
date
Arsenic
Chrome
Lead

PALMER ST L/F, MOENCH COMPANY
MW-4D Soluble Metals; Bedrock.
Dec. '14

Attach; C1

	Mar. '94	Jun. '94	Oct. '94	Dec. '94	Mar. '95	Jun. '95	Sept. '95	Dec. '95	Apr. '96	Jun. '96	Nov. '96	Apr. '97	Aug. '97	Nov. '97	Apr. '98	Aug. '98	Nov. '98	Apr. '99	Aug. '99	Nov. '99	Apr. '00	Sept. '00	Mar. '01	Aug. '01
Arsenic (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Chrome (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Lead (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

plrmtl1.xlxs.xls

MW-4D Bedrock

ATTACH: c1

Attach: C1

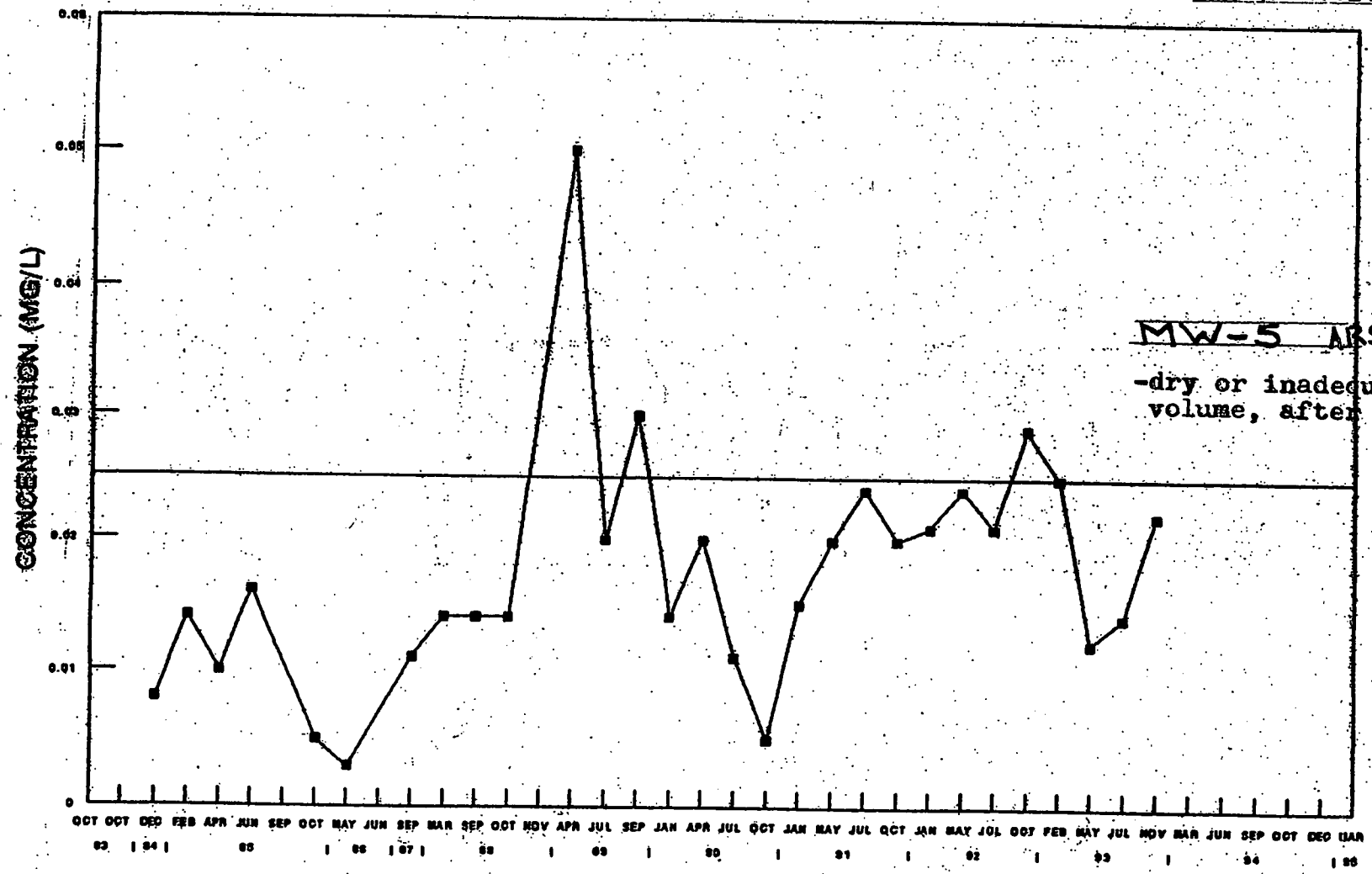
	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13
Arsenic (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.007	<.005	<.005	<.005	<.005	<.005	<.005	0.005	<.005	<.005
Chrome (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.017	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
Lead (soluble)	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

NO GRAPHES GENERATED DUE TO LIMITED DETECTION*

No graph due to minimal detection; thru 2015.

PALMER STREET LANDFILL
MW-5 SOLUBLE ARSENIC (screened in the waste)

ATTACHMENT # C1



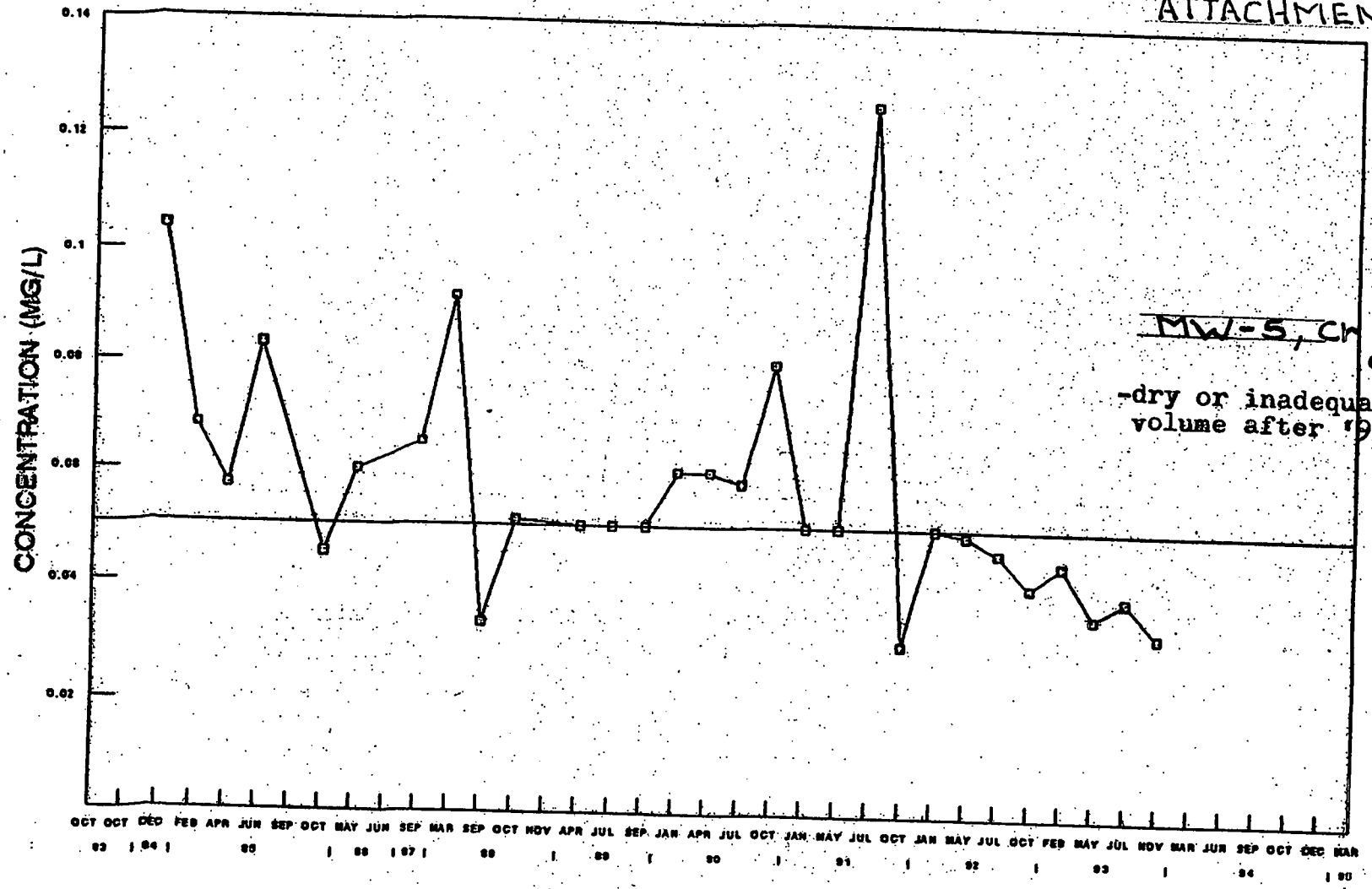
MW-5 ARSENIC

-dry or inadequate volume, after '93.

NOT ON COMPUTER

PALMER STREET LANDFILL
MW-5 SOLUBLE CHROMIUM (screened in the waste)

ATTACHMENT 'C1'



MW-5, Cr

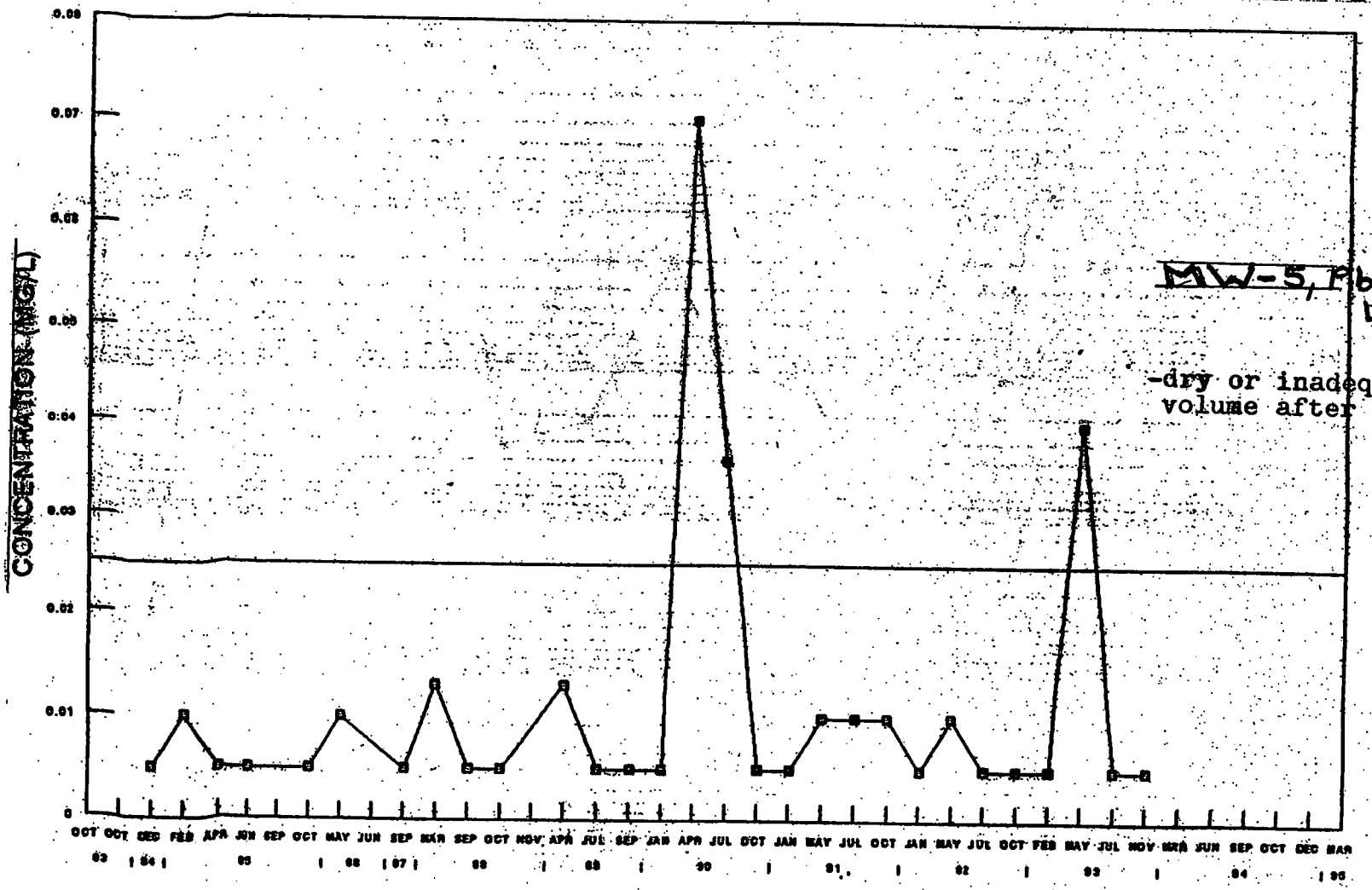
CHROME

-dry or inadequate volume after '93.

NOT ON COMPUTER

PALMER STREET LANDFILL
MW-5 SOLUBLE LEAD (screened in the waste)

ATTACHMENT C1 #



MW-5, Pb
LEAD

-dry or inadequate volume after '93.

NOT ON COMPUT'

PALMER ST. LANDFILL; MOENCH COMPANY

MW-6 SOLUBLE METAL(SCREENED IN WASTE)

	2/85	5/86	9/87	9/88	9/89	10/90	10/91	Dec. '15 10/92	7/93	10/94	8/98	8/03	8/06	3/07	8/07
Arsenic	0.01	0.005	0.02	0.02	0.01	0.01	0.02	0.02	0.01	0.04	0.03	0.005	0.026	0.044	
(soluble)												l.t.			dry
Chrome	0.02	0.01	0.01	0.02	0.01	0.05	0.01	0.01	0.01	0.01	0.03	0.007	0.005	0.005	
(soluble)													l.t.	l.t.	dry
Lead	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.005	0.005	0.005	
(soluble)												l.t.	l.t.	l.t.	dry

	3/08	8/08	3/09	8/09	3/10	7/10	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14	4/15
Arsenic	0.014	0.056	0.005	0.066	0.04	0.051	0.005	0.062	0.005	0.039	0.005	0.005	0.007	<.005	<.005
(soluble)							l.t.		l.t.		l.t.	l.t.			
Chrome	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005
(soluble)	l.t.	l.t.	lt	lt	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.			
Lead	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005
(soluble)	l.t.	l.t.	lt	lt	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.	l.t.			

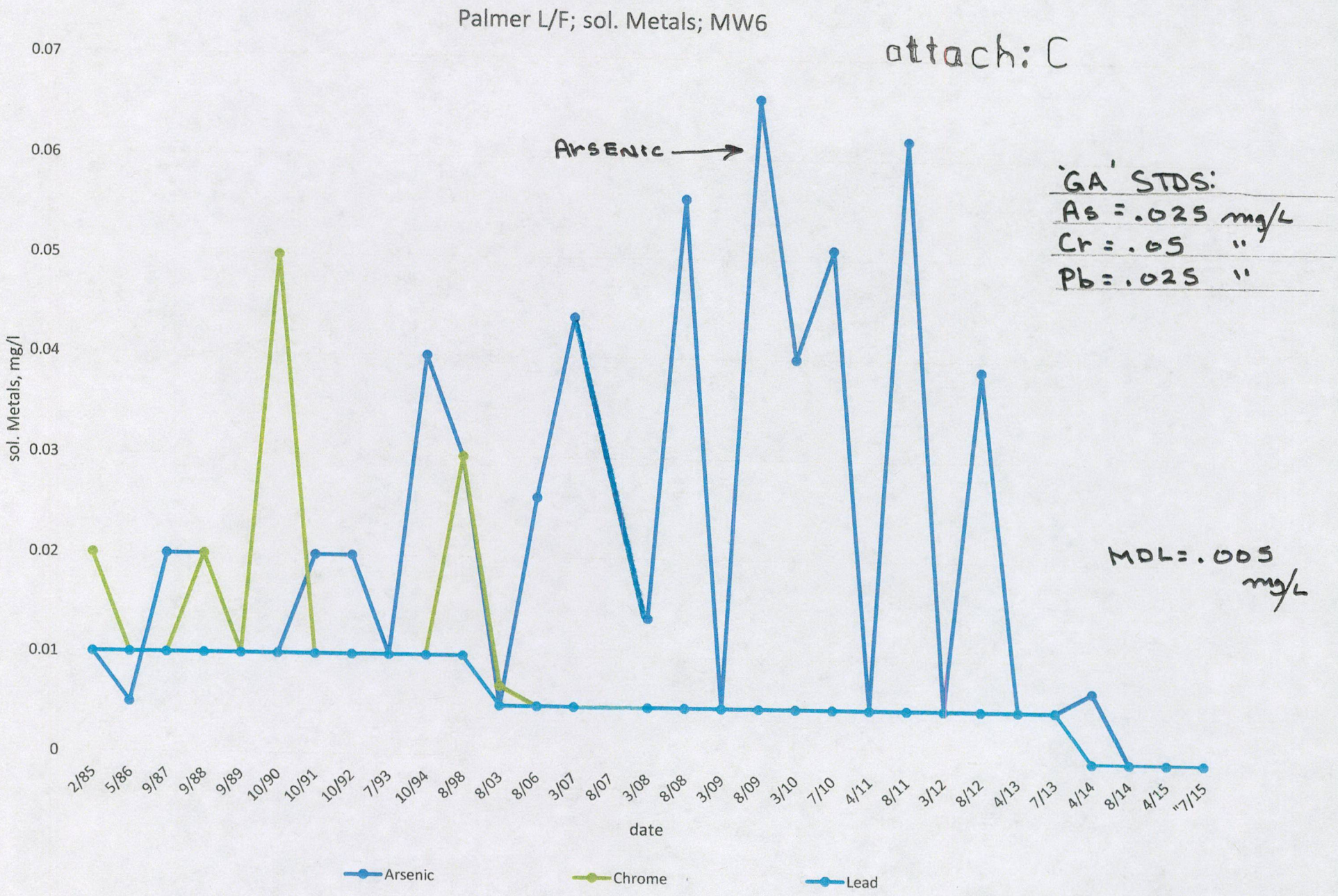
	"7/15
Arsenic	<.005
(soluble)	
Chrome	<.005
(soluble)	
Lead	<.005
(soluble)	

Screened in waste

attach: C

PlmrmiLmw6

attach: C



PLMR MTL MW6

PALMER ST L/F, MOENCH COMPANY
ARSENIC (SOLUBLE) vs TIME (MG/L)
MONITOR WELLS & BANK SEEPS

Dec.' 14

Attachment 'C'

Soluble Arsenic: 6D, 7D, 8D

	Sep-87	Mar-88	Sep-88	Oct-88	Nov-88	Apr-89	Jul-89	Sep-89	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93
MW-6D	START94																				
MW-7D	0.005	0.005	0.005	0.005	0.005	0.03	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.005	0.01	0.005	0.005	0.005
MW-8D	0.01	0.005	0.005	0.005	0.007	0.05	0.01	0.01	0.005	0.005	0.005	0.005	0.005	0.01	0.01	0.01	0.005	0.01	0.005	0.005	0.005

Attachment 'C'

	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Oct-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99
MW-6D				<.005	0.007	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
MW-7D	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01	<.01
MW-8D	<.005	<.005				<.005	<.005			<.005		<.005	<.01	<.01		<.01		<.01	<.01		

Attachment 'C'

	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09
MW-6D	<.01	<.01	<.005	<.005	<.002	<.002	<.002	<.002	<.002	<.02	<.002	<.002	0.001	0.003	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-7D	<.01	<.01	<.005	<.005	<.002	<.002	<.002	<.002	<.002	<.02	<.002	<.002	<.001	<.001	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D		<.01	<.005			<.002	<.002	<.002		<.02		<.002		≤:001		<.005	<.005	<.005	<.005	<.005	<.005

Attachment "C"

	Soluble Ar
MW-6D	
MW-7D	
MW-8D	Mar. '09
	<.005
	<.005
	0.011

	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14
MW-6D	<.005	<.005	<.005	<.005	0.006	<.005	<.005	<.005	<.005	<.005	<.005
MW-7D	<.005	<.005	<.005	<.005	0.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D	<.005	<.005	0.008	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

No graphs due to minimal detection past 20 years.

No detection; 2015

PALMER ST L/F, MOENCH COMPANY
CHROME(SOLUBLE), mg/l vs. time
MONITOR WELLS & Dec. '14

Attachment "C"

	Sep-87	Mar-88	Sep-88	Oct-88	Nov-88	Apr-89	Jul-89	Sep-89	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93
MW-6D	START94																				
MW-7D	<.005	0.006	<.005	<.005	<.005	<.01	<.01	<.01	<.05	<.05	<.05	<.05	<.05	<.05	<.01	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D	<.005	0.008	<.005	<.005	<.005	0.02	<.01	<.01	<.05	<.05	<.05	<.05	<.05	<.05	<.01	<.005	<.005	<.005	<.005	<.005	<.005

SOLUBLE Chrome: 6D, 7D, 8D.

Attachment "C"

	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Oct-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Attavhmen Apr-99
MW-6D				<.005	<.01	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.01	<.005	<.01	<.01	<.01	<.01	<.01	<.01	<.01
MW-7D	<.005	<.005	<.005	<.005	<.005	0.025	<.005	<.005	<.005	<.005	<.005	<.005	<.01	<.005	<.01	<.01	<.01	<.01	<.01	<.01	<.01
MW-8D	<.005	<.005				<.005				<.005				<.005		<.01		<.01			

"C"

Attachment "C" Sol. Chrome

	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09
MW-6D	<.01	<.01	<.005	<.005	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
MW-7D	<.01	<.01	<.005	<.005	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
MW-8D		<.01	<.005			0.005	<.004			<.004		<.004		<.004		<.004	<.004	<.004	<.004	<.004	<.004

	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. "12	Apr. '13	July '13	Apr. '14	Aug. '14
MW-6D	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
MW-7D	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004
MW-8D	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004	<.004

No graphs; minimal detections past 20 years.

NO DETECTION; 2015

PALMER ST. L/F, MOENCH COMPANY
LEAD(SOLUBLE) vs TIME (MG/L)
MONITOR WELLS & I

Dec. '14

Attachment 'C'

	Sep-87	Mar-88	Sep-88	Oct-88	Nov-88	Apr-89	Jul-89	Sep-89	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92
MW-6D	START'94																		
MW-7D	0.005	0.043	0.005	0.005	0.005	0.01	0.005	0.005	0.005	0.05	0.026	0.005	0.005	0.01	0.01	0.01	0.01	0.01	<.005
MW-8D	0.005	0.01	0.005	0.005	0.005	0.025	0.005	0.006	0.005	0.1	0.006	0.005	0.005	0.01	0.01	0.01	0.01	0.01	0.01

SOLUBLE LEAD: MW-6D 7D, 8D

Attachment 'C'

	Oct-92	Feb-93	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Oct-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97
MW-6D						<.005	0.013	<.005	<.005	<.005	<.005	<.005	<.005	0.006	<.005	<.005	<.005	<.005	<.005
MW-7D	0.007	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.015	<.005	<.005	0.214	<.005
MW-8D	<.005	<.005	<.005	<.005				<.005				<.005				<.005		<.005	

Attachment "C"

	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06
MW-6D	<.005	<.005	<.005	0.008	<.005	<.005	<.02	<.02	0.027	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.005	<.005	<.005
MW-7D	<.005	<.005	<.005	<.005	<.005	<.005	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.02	<.005	<.005	<.005
MW-8D	<.005	<.005				<.005	<.02			<.02	<.02			<.02		<.02		<.005	

Attachment "C"

	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14
MW-6D	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-7D	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D		<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

Lead

NO DETECTION IN 2015

No graphs: minimal detection past 20 years.

PLYMTL7

DEC. '14

PALMER ST L/F, MOENCH COMPANY
ARSENIC(SOL), CHROME(SOL), LEAD(SOL) vs TIME (MG/L)
BANK SEEPS BS1, BS2, BS3

Attachment 'C'

	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02
ARSENIC																										
BS-1	0.005	0.005		0.005	0.005	0.005	0.005		0.005	LT .01	LT.01	0.01	0.01	0.01	0.01	0.011	0.01	0.01	0.01	0.01	0.005	0.005	0.004	0.002	0.002	0.002
BS-2																										
BS-3	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	LT.025	LT.01	0.01	0.012	0.01	0.012	0.01	0.027	0.01	0.01	0.01	0.005	0.005	0.002	0.002	0.002	0.002
																									I.t.	I.t.
CHROME												Chrome														
BS-1	0.005	0.005		0.005	0.005	0.006	0.005		0.005	LT.025	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.006	0.005	0.01	0.004	0.005	0.004
BS-2																										
BS-3	0.005	0.008	0.005	0.005	0.005	0.005	0.005	0.005	0.005	LT.025	0.005	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.004	0.009	0.005	0.012	0.006	0.005
LEAD																										
.BS-1	0.005	0.005		0.005	0.005	0.005	0.005		0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.008	0.005	0.005	0.02	0.02	0.02	0.02	0.02	0.02
BS-2																										
BS-3	0.005	0.005	0.007	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.2	0.005	0.005	0.005	0.005	0.008	0.005	0.005	0.02	0.02	0.02	0.02	0.02	0.02	0.02
		**No graphes due to minimal detection & creek samples taken.																							I.t.	I.t.

plmtl13.xlxs.xls

Attachment 'C'

	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug.'11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14
ARSENIC												Arsenic									Arsenic			
BS-1	0.003	0.02	0.005	0.002	0.002	0.001	0.005	0.005	0.005	0.005	0.005	0.005	0.0005	0.005	<.005	<.005	<.005	na	ND	ND	ND	ND	ND	NA
BS-2																								
BS-3	0.002	0.02	0.002	0.002	0.003	0.005	0.005	0.005	0.005	0.005	0.005	0.007	0.007	0.005	<.005	<.005	<.005	na	ND	ND	ND	ND	ND	NA
	I.t.	I.t.	I.t.	I.t.		I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	0.005	0.008	0.005	<.005	0.007	<.005	<.005	ND	0.007	ND	ND	ND	NA
CHROME				Chrome								Chrome									Chrome			
BS-1	0.008	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005	na	ND	ND	ND	ND	ND	NA
BS-2																								
BS-3	0.008	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005	na	ND	ND	ND	ND	ND	NA
	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.												
LEAD			leas																					
.BS-1	0.02	0.02	0.02	0.02	0.005	0.005	Lead 0.005	0.005	0.005	0.005	0.005	Lead 0.005	0.005	0.005	<.005	<.005	<.005	na	ND	ND	Lead (A)			
BS-2																								
BS-3	0.02	0.02	0.02	0.02	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	<.005	<.005	<.005	na	ND	ND	A- .023	ND	ND	NA
	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.	I.t.												
	A -Often creek sample when no Bank seep.																							

NO DETECT 2015.

(A) Apr '13 - LEAD DETECT'N CATTARAUGUS CREEK FLOW, NOT BANK SEEP
NO BANK SEEP AVAILABLE BS1 + BS2
NO GRAPHS; MINIMAL DETECTION PAST 25+ YEARS.

ATTACHMENT "D"

TOTAL VOLATILES vs TIME
(grouped by monitoring point)

MONITORING EVENTS: APRIL 2015
~~July~~ 2015

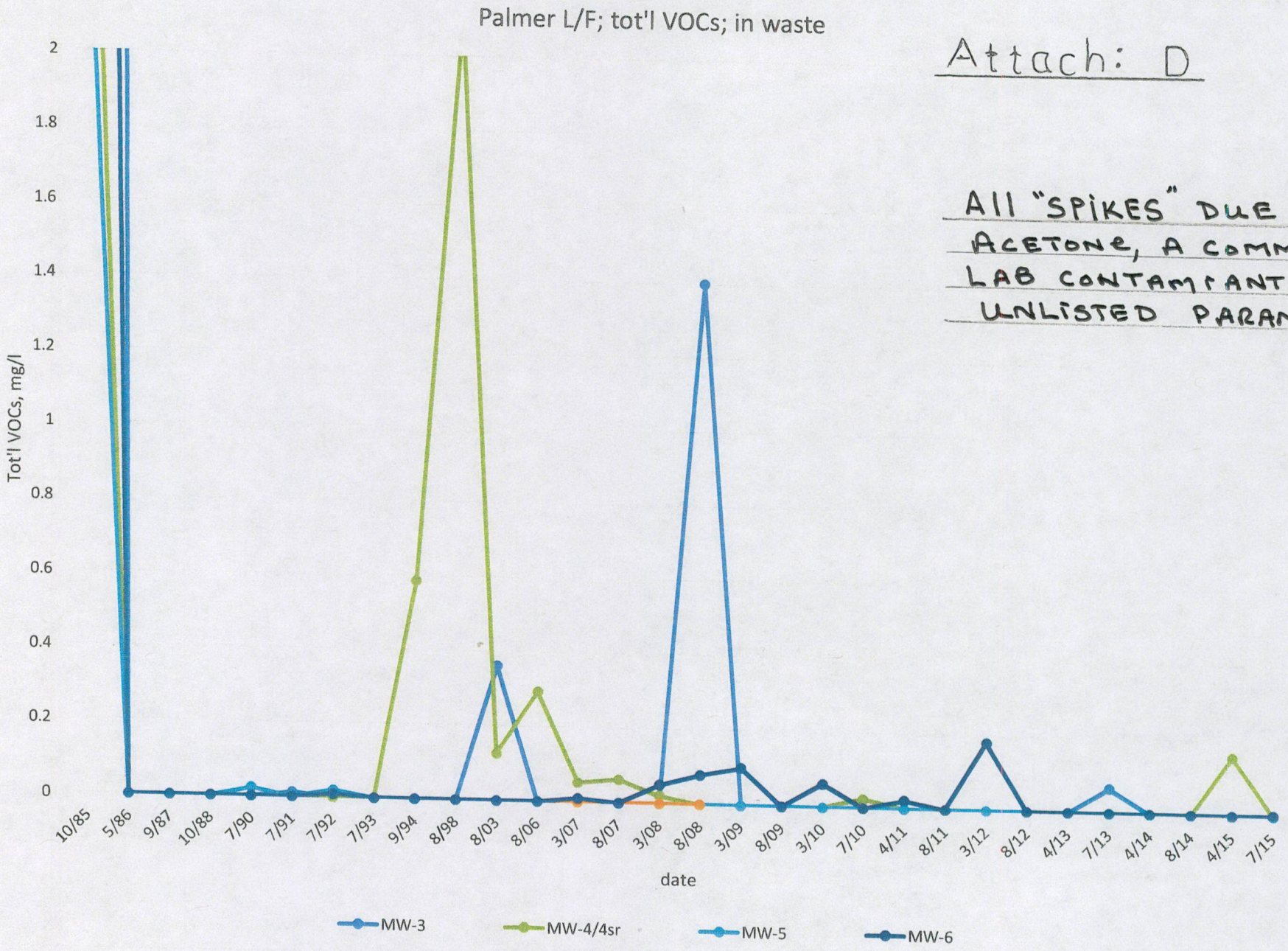
		PALMER ST. LANDFILL; MOENCH CO.															
		TOTAL VOLATILE ORGANICS	OF RELEVANT; ACETONE, TOLUENE, XYLENE							Dec. 15		(ATTACHMENT "D")					
		MW3, MW4, MW5, MW6; ALL SCREENED U	IN WASTE														
	10/85	5/86	9/87	10/88	7/90	7/91	7/92	7/93	9/94	8/98	8/03	8/06	3/07	8/07	3/08	8/08	3/09	8/09
MW-3	8.97	<.005	<.005	<.005	<.005	0.011	<.005	<.005	<.005	<.005	0.36	dry	dry	dry	dry	1.4	dry	dry
MW-4/4sr	2.46	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.586	2.1	0.125	0.293	0.052	0.062	0.021	<.005	<.005	<.005
															acetone			
MW-5	2.02	<.005	<.005	<.005	0.022	<.005	0.019	<.005	<.005	<.005	dry	dry	dry	dry	dry	dry	dry	dry
MW-6	4.82	<.005	<.005	<.005	<.005	<.005	0.009	<.005	<.005	<.005	<.005	<.005	0.01	dry	0.05	0.078	0.099	<.005
															acetone	acetone	acetone	

ALL WELLS SCREENED IN WASTE.

	3/10	7/10	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14	4/15	7/15
MW-3	dry	dry	dry	dry	dry	dry	dry	0.065	<.005	dry	dry	<.005
MW-4/4sr	<.005	0.024	<.005	<.005	<.005	<.005	<.005	acetone				
		acetone						<.005	<.005	<.005	0.154	<.005
MW-5	dry	dry	dry	dry	dry	dry	dry				acetone	
								dry	dry	dry	dry	dry
MW-6	0.062	<.005	0.022	<.005	0.18	<.005	<.005					
	acetone		acetone		acetone			<.005	<.005	<.005	<.005	0.002

WELLS IN WASTE - TOTAL VOC

Attach: D



All "SPIKES" DUE TO ACETONE, A COMMON LAB CONTAMINANT + UNLISTED PARAMETER.

WELLSINWASTE/TOTALVOC

				PALMER ST. LANDFILL; MOENCH COMPANY									
	DEC. '15			TOTAL RELEVANT VOCs; BEDROCK WELLS(acetone, toluene,xylene)									ATTACHMENT "D"
	9/87	11/88	7/90	7/91	7/92	7/93	8/06	3/07	8/07	3/08	8/08	3/09	8/09
MW-3D	<.005	<.005	<.005	<.007	<.005	<.005	<.005	<.005	<.005	0.021	0.019	<.005	<.005
MW-4D						<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
										acetone	acetone		

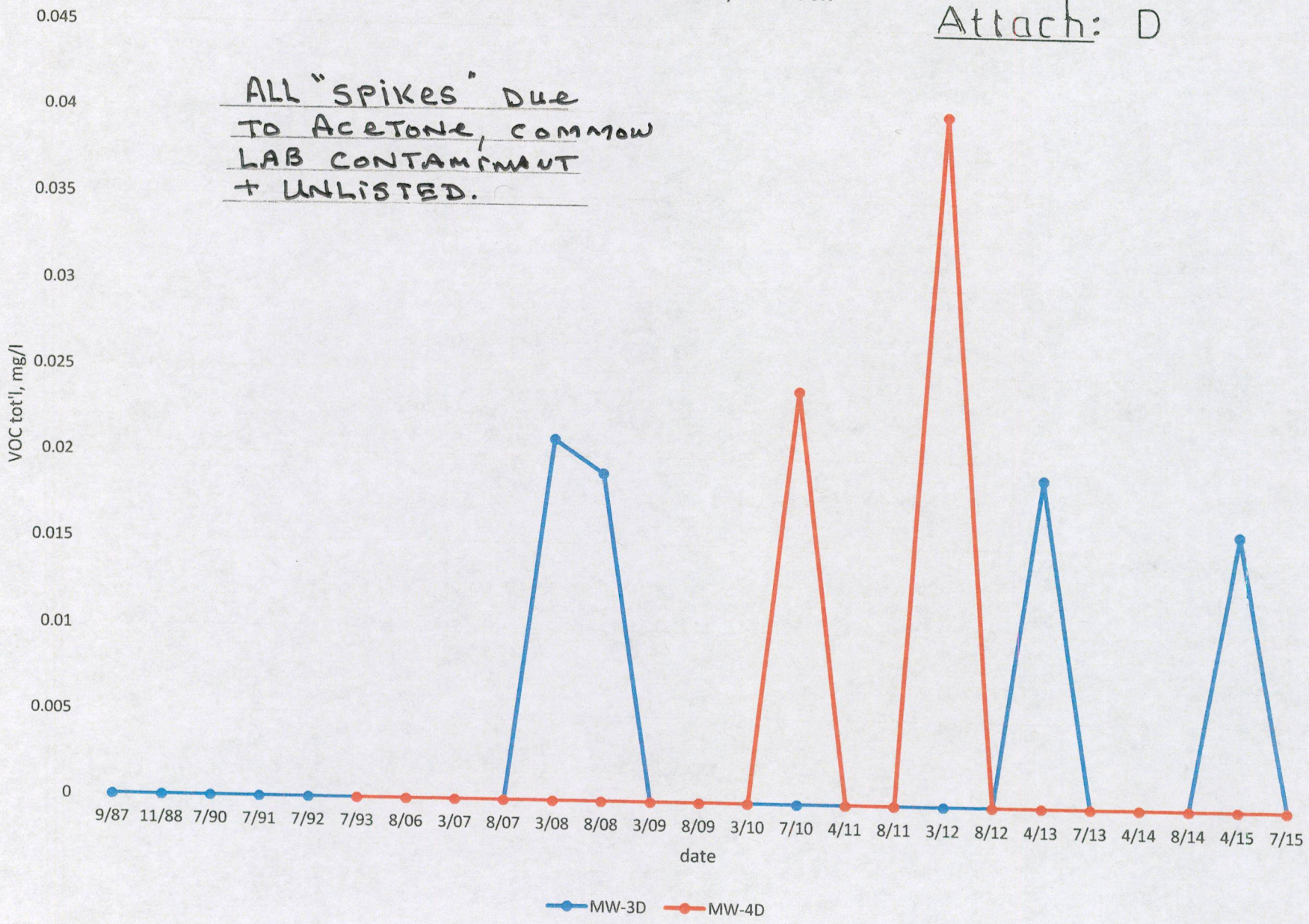
	3/10	7/10	4/11	8/11	3/12	8/12	4/13	7/13	4/14	8/14	4/15	7/15
MW-3D	<.005	<.005	<.005	<.005	<.005	<.005	0.019	<.005	<.005	<.005	0.016	<.005
MW-4D	<.005	0.024	<.005	<.005	0.04	<.005	<.005	<.005	<.005	<.005	<.005	<.005
					acetone		acetone					

Plmr. Voc. BEDROCK

Palmer L/F: Tot'l VOC; Bedrock

Attach: 'D'

ALL "SPIKES" DUE TO ACETONE, COMMON LAB CONTAMINANT + UNLISTED.



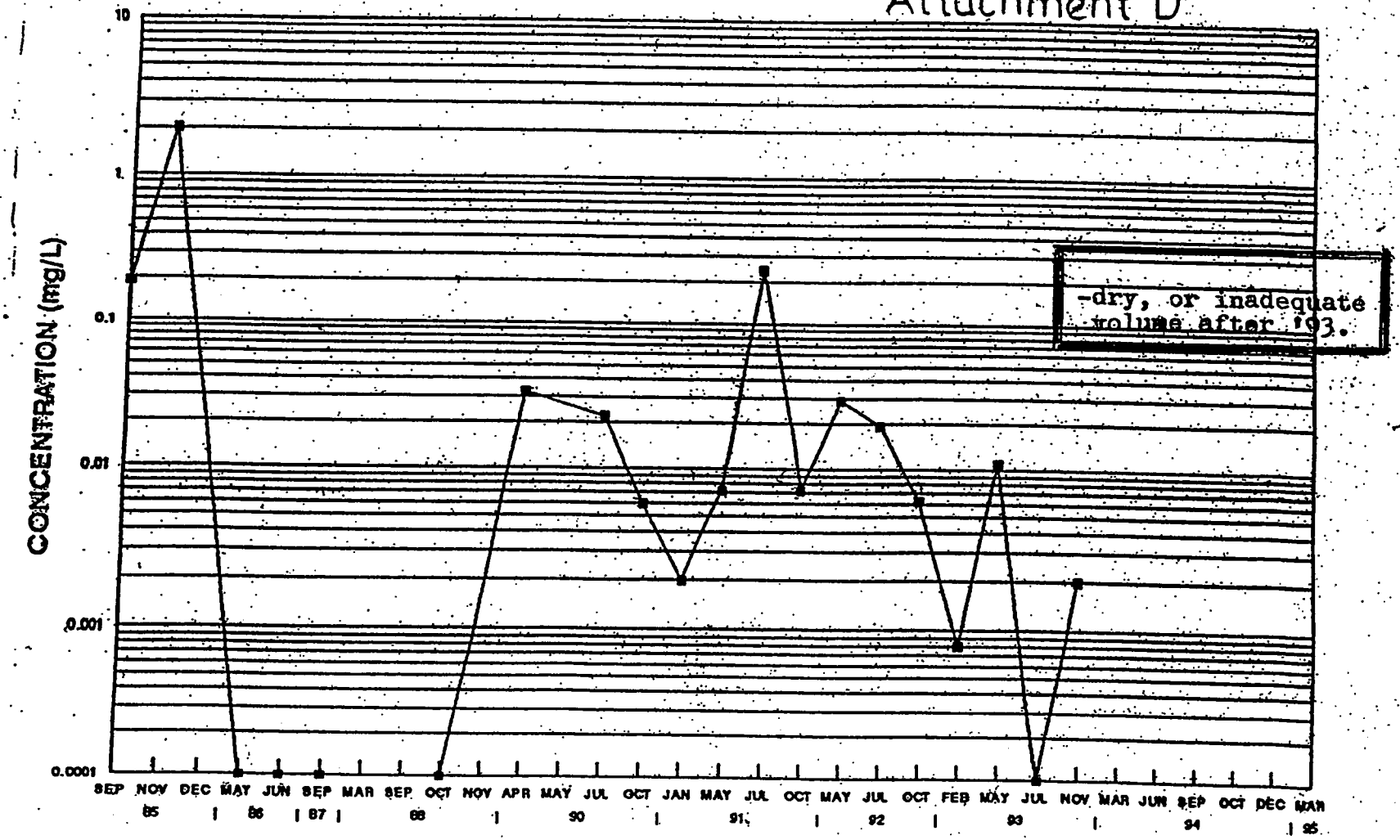
PLMR.VOC. BEDROCK

PALMER STREET LANDFILL

TOTAL VOLATILE ORGANICS (sereened in the waste)

MW-5

Attachment D



PALMER ST. L/F, MOENCH COMPANY
TOTAL VOLATILE ORGANICS vs TIME (MG/L)
Dec. '15 MONITOR WELLS &
**relevant VOCs; acetone, toluene, xylene
Attachment 'D'

	Sep-87	Mar-88	Sep-88	Oct-88	Nov-88	Apr-89	Jul-89	Sep-89	Jan-90	Apr-90	Jul-90	Oct-90	Jan-91	May-91	Jul-91	Oct-91	Jan-92	May-92	Jul-92	Oct-92	Feb-93
MW-6D	START90									0.2	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-7D	<.005				<.005					<.005	<.005	<.005	<.005	<.005	<.005	0.011		<.005	<.005	<.005	<.005
MW-8D	<.005			0.012						<.005	0.07	<.005	<.005	0.011	<.005			<.005	<.005	<.005	<.005

Attachment 'D'
DEC. '15
Attachment 'D'

	May-93	Jul-93	Nov-93	Mar-94	Jun-94	Oct-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98	Aug-98	Nov-98	Apr-99
MW-6D	<.005	<.005	<.005	0.02	0.03	0.03	0.02	0.03	0.008	<.005	<.005	<.005	0.012	<.005	0.007	<.005	<.005	<.005	<.005	<.005	<.005
MW-7D	<.005	<.005	<.005	<.005	0.008	0.012	<.005	<.005	<.005	<.005				<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D	<.005	<.005				<.005								<.005		<.005		<.005	<.005		

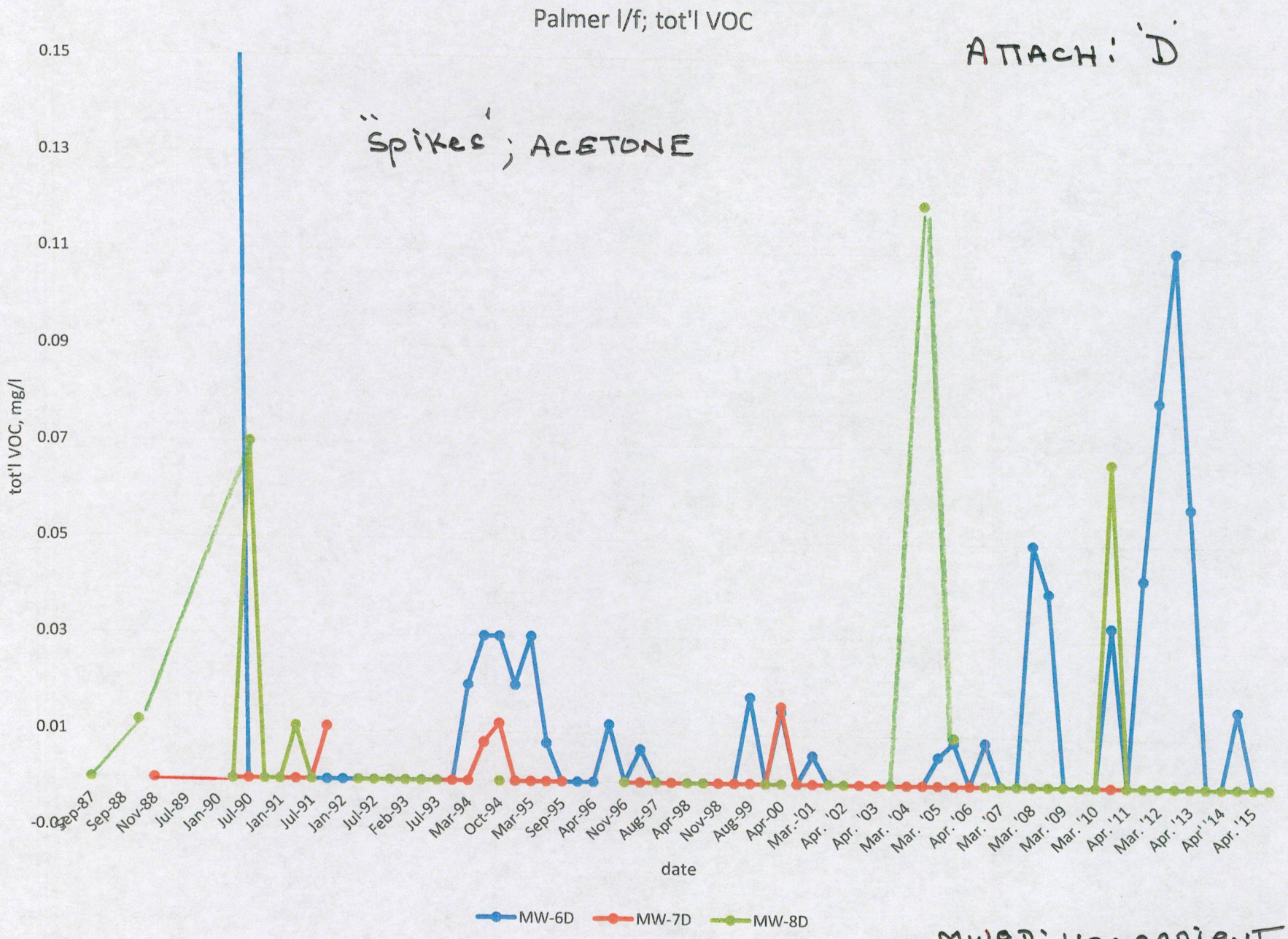
Attachment 'D'

	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. '03	Aug. '03	Mar. '04	Aug. '04	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09
MW-6D	0.018	<.005	0.015	<.005	0.006	<.005	<.005	<.005	<.005	<.005	<.005	<.005	0.006	0.009	<.005	0.009	<.005	<.005	0.05	0.04	<.005
MW-7D	<.005	<.005	0.016	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D		<.005	<.005			<.005	<.005			<.005		0.12		0.01		<.005	<.005	<.005	<.005	<.005	<.005
												(	) est						acetone	acetone	

attachment D

	Aug.'09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12	Aug. '12	Apr. '13	July '13	Apr' '14	Aug. '14	Apr. '15	July '15
MW-6D	<.005	<.005	0.033	<.005	0.043	0.08	0.111	0.058	<.005	<.005	0.016	<.005	<.005
MW-7D	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
MW-8D	<.005	<.005	0.067	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
			ace/CS2		acetone	acetone	acetone	acetone			acetone		

Plrvoc8


Palmer I/f; tot'l VOC
ATTACH: 'D'
"Spikes"; ACETONE
tot'l VOC, mg/l
0.15
0.13
0.11
0.09
0.07
0.05
0.03
0.01
-0.01
Sep-87
Sep-88
Nov-88
Jul-89
Jan-90
Jul-90
Jan-91
Jul-91
Jan-92
Jul-92
Feb-93
Jul-93
Mar-94
Oct-94
Mar-95
Sep-95
Apr-96
Nov-96
Aug-97
Apr-98
Nov-98
Aug-99
Apr-00
Mar.-'01
Apr. '02
Apr. '03
Mar. '04
Mar. '05
Apr. '06
Mar. '07
Mar. '08
Mar. '09
Mar. '10
Apr. '11
Mar. '12
Apr. '13
Apr '14
Apr. '15
date
MW-6D
MW-7D
MW-8D
, MW8D; UPGRADIENT

PALMER ST. L/F, MOENCH COMPANY
TOTAL VOLATILE ORGANICS vs TIME (MG/L)
BANK SEEPS BS-1,2,3

	Dec. '15														
	Mar-94	Jun-94	Sep-94	Dec-94	Mar-95	Jun-95	Sep-95	Dec-95	Apr-96	Aug-96	Nov-96	Apr-97	Aug-97	Nov-97	Apr-98
BS-1	0.13			0.009	<.005	<.005			<.005	<.005	<.005	<.005	<.005	<.005	<.005
BS-2	(started in 2006)														
BS-3					<.005	<.005			<.005	<.005	<.005	<.005	<.005	<.005	<.005

	Aug-98	Nov-98	Apr-99	Aug-99	Nov-99	Apr-00	Sep-00	Mar.-'01	Aug.-'01	Apr. '02	Aug. '02	Apr. "03	Aug. '03	Mar. '04	Aug. '04
											(Attachment 'D')				
BS-1	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005
BS-2															
BS-3	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005	<.005

	Mar. '05	Aug. '05	Apr. '06	Aug. '06	Mar. '07	Aug. '07	Mar. '08	Aug. '08	Mar. '09	Aug. '09	Mar. '10	July '10	Apr. '11	Aug. '11	Mar. '12
							acetone			Attachment 'D'					
BS-1	0.006	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005	na	ND
BS-2				<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005	na	ND
BS-3	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	<.005 b	0.011	<.005 b	<.005	<.005	<.005	<.005	<.005	<.005	ND
		Often no B	ank seep	; took cree	sample										

	Aug. '12	Apr. '13	July '13	Apr. '14	Aug. '14	Apr. '15	July '15
BS-1	ND	<.005	<.005	na	na	NA	NA
BS-2	ND	<.005	<.005	na	na	NA	NA
BS-3	ND	<.005	<.005	ND	ND	ND	ND

No graphs Due to minimal detection past 20+ years. No bank seep @ BS1 or BS3, past 3 yrs (NA). ND = non detect.

ATTACHMENT "E"

* FIELD MEASUREMENT DATA SHEETS;

SAMPLE EVENTS: Apr. + July 2015

*Individual "field data sheets" were submitted with prior actual sample event reports. Contact Moench if you require them.

ATTACHMENT "F"

ANALYTICAL DATA EVENTS: April + July 2015

*Analytical data from _____
was submitted in the prior individual semi-annual reports.
Please contact Moench Co. if you require them.

6.0 REFERENCES

1. PALMER STREET LANDFILL CLOSURE/POST CLOSURE PLAN (EPA ID. NYDO02126910), PREPARED BY MALCOLM PIRNIE, INC. REVISED FEBRUARY 1989 July 1993, DEC. 2006.
2. PALMER STREET LANDFILL, SUPPLEMENTAL HYDROGEOLOGIC INVESTIGATION, PREPARED BY MALCOLM PIRNIE, INC. JANUARY 1989.
3. SAMPLING PLAN/QUALITY ASSURANCE PLAN FOR GROUNDWATER MONITORING - PALMER STREET LANDFILL. PREPARED BY MALCOLM PIRNIE, INC., AUGUST 1989. REVISED-7/93, 8/94, 12/06.
4. TEST METHODS FOR EVALUATING SOLID WASTE, PHYSICAL/ CHEMICAL METHODS, THIRD EDITION, USEPA OFFICE OF SOLID WASTE AND EMERGENCY RESPONSE, NOVEMBER 1986.
5. PALMER STREET LANDFILL, EVALUATION OF ALTERNATIVE COVER SYSTEMS, PREPARED BY MALCOLM PIRNIE, INC., JANUARY 1989.
6. COVER SYSTEM PERFORMANCE EVALUATION, PALMER STREET LANDFILL; PREPARED BY MALCOLM PIRNIE, INC. OCTOBER 1995 & FEBRUARY 1999.
7. FORMER TANNERY PLANT SITE, WELL INSTALLATION REPORT; PREPARED BY BENCHMARK ENVIRONMENTAL ENGINEERING SCIENCE CO., AUGUST 2000.
8. (previously #3) Letter to Mr. Jeffrey Smith, Moench Tanning Co., from New York State Dept. of Environmental Conservation, dated August 31, 1993.
9. PALMER ST. LANDFILL; COVER SYSTEM PERORMANCE SYSTEM EVALUATION, PREPARED BY GEOMATRIX CONSTULTANTS, WILLIAMSVILLE, NY. FEBRUARY 2004.
10. JULY 27,2006 LETTER FROM RICHARD FRAPPA, GEOMATRIX CONSULTANT, WILLIAMSVILLE, NY; DOCUMENTING THE AGREEMENT WITH N.Y. STATE DEPT. OF ENVIRONMENTAL CONSERVATION, REGION 9; REVISED MONITORING(DETECTION) PROGRAM. LETTER TO STAN RADON.
11. SEPTEMBER 7, 2006 LETTER FROM STAN RADON (NYSDEC9) TO JEFFREY SMITH(MOENCH), CONFIRMING THE ACCEPTANCE OF THE REVISED DETECTION MONITORING SYSTEM, AND THE ELIMINATON OF THE PERFORMANCE MONITORING PLAN-COVER SYSTEM EVALUATION.