

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)	
)	
PROPOSED AMENDMENTS TO CLEAN)	R12-9
CONSTRUCTION OR DEMOLITION)	(Rulemaking – Land)
DEBRIS (CCDD) FILL OPERATIONS:)	
PROPOSED AMENDMENTS TO 35 Ill.)	
Adm. Code 1100)	

NOTICE OF FILING

TO: SEE ATTACHED PROOF OF SERVICE

PLEASE TAKE NOTICE that I have today filed the Illinois Association of Aggregate Producers' Pre-Filed Testimony of Bret Hall, Annick Maenhout, Greg Wilcox, P.E. and John Hock, P.E. on Proposed Amendments to 35 Ill. Adm. Code 1100, with the Office of the Clerk, Illinois Pollution Control Board, copies of which are served upon you.



By: _____
John Henriksen, Executive Director
Illinois Association of Aggregate Producers
1115 South Second Street
Springfield, IL 62704
217.241.1639

Date: March 2, 2012

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
)
PROPOSED AMENDMENTS TO CLEAN) R12-9
CONSTRUCTION OR DEMOLITION) (Rulemaking – Land)
DEBRIS (CCDD) FILL OPERATIONS:)
PROPOSED AMENDMENTS TO 35 Ill.)
Adm. Code 1100)

**PRE-FILED TESTIMONY OF BRET HALL ON PROPOSED
AMENDMENTS TO 35 ILL. ADM. CODE 1100**

My name is Bret Hall. I graduated in 1994 from Illinois State University with a Bachelor of Science degree in Environmental Health. I am the Manager of CCDD Operations at Hanson Material Service, and have worked with our CCDD operations since 2000. I have over 15 years of experience as an Environmental Health professional, working in a regulatory capacity for two years at a local Health Department as Assistant Sanitarian and two years performing field and laboratory work for an environmental consultant.

My primary responsibility is to manage two permitted CCDD facilities and two registered Uncontaminated Soil Fill (USF) facilities in the Chicagoland area. In the course of my duties, I have conducted due diligence on thousands of construction project sites in order to consider material for acceptance at either CCDD or USF sites.

I have been actively involved in the rulemaking process for PA 96-1416 and have provided input to the Illinois Environmental Protection Agency (IEPA) through the Illinois Association of Aggregate Producers (IAAP). I was also actively involved in the development and implementation of BMPs concerning CCDD for several years prior to the passage of PA 96-1416.

I am here today to present for the Board's consideration a compilation of analytical pH data from a variety of sites throughout the Chicagoland area that Hanson Material Service examined in order to consider the material for CCDD or USF acceptance. This data was received from July 2010 to January 2012 as attachments to IEPA Soil Certification Forms, which CCDD and USF operators are required to collect from construction site owners or operators.

This pH data represents 53 separate construction project locations throughout the Chicagoland area. The site locations ranged from the northern suburbs such as Wheeling, to central (Hodgkins), south (Oak Lawn), west (Naperville), and east (downtown Chicago). The average pH values from this data was 8.3.

From my experience and with regards to CCDD generation, Chicago area soils tend to have a neutral to slightly alkaline pH. I therefore believe that using Maximum Allowable Concentrations (MACs) based on the most acidic TACO pH based cleanup objectives is unrealistic and not indicative of soils material generated from construction projects in northeastern Illinois.

Dates

July 2010 - January 2012
Electronic Filing - Received, Clerk's Office, 03/02/2012

Project Location

Data Points

	a	b	c	d	e	f	g	Average
Bedford Park	8.02	8.06	8.14	8.09	8.01			8.06
	8.14	7.89	8.61					8.21
	9.74	8.77						9.26
Bensenville	7.83							7.83
Berkeley	8.4							8.40
Berwyn	8.6							8.60
Bridgeview	8.76							8.76
Chicago	7.9							7.90
	8.58							8.58
	8	7.6						7.80
	8.6	8.05						8.33
	8.37	8.79						8.58
	9.5	8.6	8.25	9.5	8.07			8.78
	7.35	8.53						7.94
	7.7							7.70
	7.7	7.6	8.6	8.2				8.03
	8.45							8.45
	7.62							7.62
	7.8							7.80
	8.8	8.6	9	8.9				8.83
	7.4	7.8						7.60
Countryside	8.74							8.74
Des Plaines	8.96							8.96
	8.83							8.83
Darien	7.6							7.60
Downers Grove	8.29							8.29
	6.01	7.45						6.73
	10.43	9	9.41	9.18				9.51
Forest Park	8.72	8.63	8.72					8.69
	8.29							8.29
Glendale Heights	7.5	7	7.6	7.7				7.45
Hillside	7.01							7.01
Hinsdale	7.82	7.87						7.85
	8.95							8.95
Hodgkins	7.6							7.60
McCook	8							8.00
Melrose Park	7.86	8.66	8.64	8.48	8.67	8.42		8.46
Naperville	8.3							8.30
Niles	7.96							7.96
Northbrook	7.95							7.95
North Riverside	7.45							7.45
Oak Lawn	8.7							8.70
Oak Park	9	9.1						9.05
Park Ridge	7.99							7.99
Rosemont	9.11	9.71						9.41
Schiller Park	8.35	8.3	8.52	8.37	8.46	8.4	7.93	8.33
Skokie	8.5	8.3						8.40
Stickney	8.85	8.32	7.76					8.31
Villa Park	7.42							7.42
	8.58							8.58
Wheeling	7.9	8.57						8.24
Willow Springs	7.9							7.90
Wood Dale	7.8	7.33						7.57
								Average
								8.22
Total Site Locations		53						
Total Data Points		103						
pH Range (avg.)	6.73 - 9.51							
Average pH	8.22							

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PROPOSED AMENDMENTS TO 35 Ill.)
Adm. Code 1100)

**PRE-FILED TESTIMONY OF ANNICK MAENHOUT ON PROPOSED
AMENDMENTS TO 35 ILL. ADM. CODE 1100**

My name is Annick Maenhout. I graduated in 1998 from Lake Forest College with a Bachelor of Arts degree in Environmental Studies. I am currently the Lands Manager at VCNA Prairie, Inc., and have worked with CCDD operations since 1998.

One of my responsibilities is to manage four permitted CCDD facilities in the greater Chicago area. In the course of my duties, I have conducted due diligence on many construction project sites in order to consider material for acceptance at CCDD sites.

I have been actively involved in the rulemaking process for PA 96-1416 and have provided input to the Illinois Environmental Protection Agency (IEPA) through the Illinois Association of Aggregate Producers (IAAP). I was also actively involved in the development and implementation of BMPs concerning CCDD for several years prior to the passage of PA 96-1416.

I am here today to present for the Board's consideration a compilation of analytical pH data from a variety of sites throughout the greater Chicago area. This data was received from August 2010 to December 2011 as attachments to the IEPA "Uncontaminated Soil Certification Form by Licensed Professional Engineer or Licensed Professional Geologist for Use of Uncontaminated Soil as Fill in a CCDD or Uncontaminated Soil Fill Operation" (LPC-663). Each of the data points were obtained from a completed form with Professional Engineer or Professional Geologist certification of uncontaminated.

This pH data represents 103 separate data points in and around the Chicago Metropolitan Area. The average pH value from this data was 8.3.

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Sample Data*

7.19	8.09	8.9
7.3	8.11	8.92
7.31	8.13	8.99
7.34	8.13	9.0
7.37	8.15	9.06
7.41	8.16	9.06
7.45	8.17	9.19
7.45	8.18	9.22
7.46	8.2	9.23
7.5	8.2	9.24
7.56	8.2	9.48
7.58	8.2	9.62
7.6	8.2	9.62
7.62	8.2	9.63
7.7	8.25	9.71
7.7	8.33	9.86
7.71	8.34	9.9
7.73	8.35	9.9
7.76	8.36	10.0
7.76	8.37	
7.78	8.4	
7.8	8.4	
7.8	8.5	
7.8	8.53	
7.82	8.54	
7.83	8.55	
7.83	8.56	
7.83	8.58	
7.89	8.58	
7.93	8.6	
7.95	8.6	
7.96	8.6	
7.97	8.61	
7.98	8.71	
7.99	8.72	
8.0	8.79	
8.0	8.8	
8.0	8.8	
8.05	8.8	
8.05	8.84	
8.05	8.85	
8.06	8.88	

Data Points

103

Average pH

8.3

pH Range

7.19 through 10.0

* Data points from samples collected by third parties. All data collected from submitted LPC 663 forms between August 2010 and December 2011.

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**PRE-FILED TESTIMONY OF GREGORY WILCOX, P.E. ON PROPOSED
AMENDMENTS TO 35 ILL. ADM. CODE 1100**

My name is Gregory Wilcox and I am President of Winston Engineering in Bartlett Illinois. I graduated in 1976 from Purdue University with a Bachelor of Science degree in Environmental Engineering and am currently a registered Professional Engineer in Illinois and Indiana. I am also the President of the Land Reclamation and Recycling Association which represents permitted CCDD sites in the state of Illinois. My firm does permit review and soil/CCDD review work for several Permitted CCDD sites in the Chicago Metropolitan Area and we perform 663 applications for several contractors and government agencies. .

I have been actively involved in the rulemaking process for PA 96-1416 and have provided input to the Illinois Environmental Protection Agency (IEPA) through the Illinois Association of Aggregate Producers (IAAP) and Land Reclamation and Recycling Association. I have presented papers on CCDD rules in Illinois to the American Public Works Association, Illinois Society of Professional Engineers, Underground Contractors Association and Fox Valley Contractors Association.

I am here today to present for the Board's consideration a compilation of analytical pH data from a variety of sites throughout the Chicagoland area that I have reviewed or performed for CCDD sites in Chicago Metro Area. This data was received from July 2010 to January 2012 as attachments to IEPA Soil Certification Forms.

This pH data is from 218 separate construction project locations throughout the Chicago Metro area and there are 767 pH analysis of the soil from those project sites. The site locations ranged from the northwestern suburbs such as Barrington and Niles, Chicago commercial and industrial areas, and southwest Naperville and Oak Lawn. In all we have samples from over 60 suburban towns and the City of Chicago. The pH values from this data were typically (standard deviation) between 7.7 and 8.8. Only two samples had a pH below 7.0 and they were 6.7 and 6.88.

From my experience Chicago Metro Area soils tend to have a neutral to alkaline pH. As these soils come from farm areas in the suburbs to industrial areas in the city I believe that this data is very representative of soils that could be encountered in most areas within the State of Illinois. I therefore believe that using Maximum Allowable Concentrations (MACs) based on the most acidic TACO pH based cleanup objectives is unrealistic and not indicative of soils material generated from construction projects in Illinois.

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REF #	Location, City	NUMBER OF DATA	RANGE	AVERAGE
RML-001	Chicago, Kildare	2	7.54-7.8	7.67
RML-002	Palos Heights, 80th av	1	7.4	7.4
RML-003	Irving pakr & Barringt	1	8.72	8.72
RML-004	Burr Ridge, Tower Dr	1	8.48	8.48
RML-005	Burr Ridge, Tower Dr	1	8.48	8.48
RML-006	Burr Ridge, Tower Dr	1	8.48	8.48
RML-007	Chicago, 68th St	3	8.72-9.12	8.86
RML-008	Schiller Park/Ivanhole	8	7.93-9.47	8.48
RML-009	Carol Stream, 449 Ran	1	8.05	8.05
RML-010	Schiller Park - Willow F	8	7.93-9.47	8.48
RML-011	Chicago, 235 W Van B	11	7.86-9.47	8.77
RML-268	McCook, 55th	1	7.9	7.9
RML-269	Maywood, loyola	1	7.6	7.6
RML-270	Niles, Howard	1	8.5	8.5
RML-271	Chicago ridge	1	8.8	8.8
RML-272	Chicago, campbell	1	8.34	8.34
RML-273	Chicago, jackson	1	8.03	8.03
RML-274	Oak lawn, cicero	1	8.6	8.6
RML-275	Berwyn, Cermak	1	8.6	8.6
RML-276	Chicago, Archer	1	9.2	9.2
RML-277	Chicago, Drake	6	7.94-8.38	8.073
RML-278	chicago, Cullerton	4	8.24-8.85	8.495
RML-279	Downers Grove, midw	1	8.9	8.9
RML-280	Chicago, Laramie & Ro	2	7.0-7.3	7.15
RML-281	Berwyn, roosevelt	1	7.49	7.49
RML-282	Broadview, Hines	1	8.23	8.23
RML-283	Chicago, spaulding	6	7.99-8.87	8.366
RML-284	Chicago, Winona	1	8.33	8.33
RML-285	Chicago, foster	1	8.5	8.5
RML-286	Chicago, spaulding	6	7.99-8.87	8.366
RML-287	Chicago, wacker	9	7.86-9.38	8.74
RML-288	Hodgkins	2	7.76-8.49	8.125
RML-289	Chicago, damen	1	8.97	8.97
RML-290	Kenilworth, Greenbay	1	8.96	8.96
RML-291	Chicago, albany & Geo	7	7.76-9.28	8.117
RML-292	Chicago, clybourn	2	7.6-8.0	7.8
RML-293	Chicago, Elson	1	8.75	8.75
RML-294	Chicago, Artesian	5	7.92-8.54	8.208
RML-295	Chicago, Berenice	8	7.77-8.84	8.145
RML-296	Chicago, halsted	8	7.51-9.04	8.05
RML-297	Chicago, may	5	7.59-8.17	7.924
RML-298	Chicago, division	1	7.62	7.62
RML-299	La Grange, wolf	2	7.97-8.83	8.4

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RML-300	Burr Ridge, Tower Dr	1	8.48	8.48
RML-301	Elmhurst, grand	1	8.67	8.67
RML-302	Chicago, union	1	8.04	8.04
RML-303	Chicago, Monticello	6	7.84-8.52	8.237
RML-304	Chicago, Dorchester	6	8.64-9.37	9.03
RML-305	Chicago, western	2	7.71-7.94	7.825
RML-306	Chicago, kedvale	8	7.93-8.33	8.17
RML-307	Chicago, Wacker	1	8	8
RML-308	Chicago, Dorchester	6	8.64-9.37	9.03
RML-309	Chicago, Western	2	7.71-7.94	7.825
RML-310	Oak park, marion & ra	2	8.4-9.6	9
RML-311	Skokie, oakton	1	8.35	8.35
RML-312	Villa park, 900 s rt 83	3	7.7-8.1	7.92
RML-313	Blue island, ashland	2	7.3-8.0	7.65
RML-314	chicago, wood	3	8.47-9.58	8.873
RML-315	chicago, shore dr	2	8.99-9.6	9.295
RML-316	Chicago, Green	5	8.18-9	8.436
RML-317	Evergreen park, 95th	1	8.01	8.01
RML-318	Chicago, schoubert	6	8.17-9.11	8.463
RML-319	Riverside	1	8.54	8.54
RML-320	Chciago, California	8	7.4-8.85	8.031
RML-321	Chicago, Maddison & (1	9.22	9.22
RML-322	Chicago, Wallace	7	7.46-8.38	7.837
RML-323	Chicago, 103rd	20	7.1-7.1	7.99
RML-324	Chicago, Whipple	5	7.9-9.06	8.34
RML-325	Chicago, Narragansett	1	7.83	7.83
RML-326	Chicago, foster	1	7.87	7.87
RML-327	chicago, Wolcott	6	7.64-8.36	7.85
RML-328	Chicago, halsted	1	9.94	9.94
RML-329	Chicago, Stoney island	8	7.67-8.36	8.05
RML-330	Hodgkins, River orad	1	9.62	9.62
RML-331	Chicago, Stoney island	8	7.67-8.36	8.05
RML-332	Chicago, 75th	2	8.06-8.35	8.205
RML-333	Northlake, E Lake	2	7.4-8.52	7.96
RML-334	Hodgkins, Santa fe	1	7.6	7.6
RML-335	Chicago, Washtenaw	6	7.89-9.1	8.26
RML-336	Chicago, Prairie & 54th	2	8.37-9.95	9.16
RML-337	Hinsdale, Pamela cr	1	8.32	8.32
RML-338	Forest Park, Des Plaine	3	8.63-8.72	8.69
RML-339	Chicago, Peterson	1	8.1	8.1
RML-340	Chicago, Broadway	1	8.2	8.2
RML-341	Chicago, LeMoyne	5	7.76-10.1	8.39
RML-342	Bridgeview, 71st	8	7.53-8.06	7.841
RML-343	Chicago, Racine Ave	2	7.74-8.18	7.96
RML-344	Hinsdale, Chestnut-Ful	3	8.0-8.9	8.367
RML-345	Chciago, Michigan	2	9.0-11.1	10.05
RML-346	Chicago, Ridgeway	1	8.3	8.3

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RML-347	Glen Ellyn, Finley	2	7.99-8.49	8.24
RML-348	Cicero	1	9.19	9.19
RML-349	Lemont, Cass	1	7.97	7.97
RML-350	Northbrook, Greenfair	1	8.36	8.36
RML-351	Forest Park, Des Plaine	3	8.63-8.72	8.69
RML-352	Wood dale, Irving park	1	7.94	7.94
RML-353	Broadview, Hines	1	8.23	8.23
RML-354	Chicago, Lake shore dr	5	8.07-9.5	8.784
RML-355	Chicago, Racine Ave	2	7.74-8.18	7.96
RML-356	Chicago, Stoney island	8	7.67-8.36	8.05
RML-357	Chicago, Huzon	1	10.97	10.97
RML-358	Bur Ridge, Shore Dr	1	8.2	8.2
RML-359	Chicago, Halsted	1	9.04	9.04
RML-360	Forest View, Central 1-	106	6.8-10.1	7.84
RML-361	bedford Park, Sayre	1	6.88	6.88
RML-362	Chicago, 37th & State	2	8.25-8.48	8.365
RML-363	Oak Lawn, 95th	1	8.97	8.97
RML-364	Chicago, 47th	1	8.5	8.5
RML-365	chicago, Kostner and P	2	7.91-9.29	8.6
RML-366	Chicago, Clark	1	8.5	8.5
RML-367	Chicago, Wood & Harr	7	8.22-10.3	9.687
RML-368	Glen Ellyn	1	7.98	7.98
RML-369	Chicago, Laramie & Ro	2	7.0-7.3	7.2
RML-370	Chicago, Pratt	1	8.7	8.7
RML-371	Chicago, Damen	1	8.2	8.2
RML-372	Oak Lawn, 93rd & Kost	1	8.7	8.7
RML-373	Stickney, Pershing	1	8.01	8.01
RML-374	Chicago, 47th	1	8.5	8.5
RML-375	Chicago, Clifton	3	8.51-9.37	8.8
RML-376	Chicago, 70th	5	7.85-8.85	8.294
RML-377	Chicago, State	3	7.8-9.0	8.33
RML-378	Chicago, Ewing	6	8.02-9.21	8.497
RML-379	Chicago, Laramie & Rox	2	7.0-7.3	7.2
RML-380	Chicago, Western	2	7.71-7.94	7.825
RML-381	Chicago, illinois st	1	8.2	8.2
RML-382	Chicago, Perry	6	7.84-8.15	7.94
RML-383	Chicago, Stoney island	20	7.41-11.1	9.284
RML-384	Chicago, Ewing	6	8.02-9.21	8.497
RML-385	Chicago, Drake	8	7.55-8.34	7.864
RML-386	Chicago, 82nd	6	7.62-8.25	7.89
RML-387	Chicago, Hubbard	1	6.7	6.7
RML-388	Chicago, Kenmore	5	8.5-9.0	8.76
RML-389	Chicago, Irving park	3	7.35-8.53	7.87
RML-390	Chicago, St Louis	1	8.68	8.68
RML-391	Chicago, 82nd	6	7.62-8.25	7.89
RML-392	Chicago, 72nd	4	8.26-10	9.0975
RML-393	Chicago, 68th	5	7.57-8.15	7.994

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RML-394	Chicago, 68th	5	7.57-8.15	7.994
RML-395	Chicago, 72nd	4	8.26-10	9.0975
RML-396	chicago, Union	6	7.46-8.29	8.045
RML-397	Chicago, Elston	4	8.38-9.11	8.68
RML-398	Chjicago, Racine Ave	2	7.74-8.18	7.96
RML-399	Downers Grove,Lacey	2	8.44-8.5	8.47
RML-400	Chicago, Belmont & Sa	1	8.5	8.5

Reliable Materials Lyons
July 2010-February 2012

Total Site Locations	144
Total Data Points	531
pH Range	6.7-11.1
Average pH	8.344128

Electronic Filing - Received, Clerk's Office, 03/02/2012

REF #	Location, City	NUMBER OF DATA	RANGE	AVERAGE
BCM-1	Schaumburg	4	8.26 - 8.91	8.68
BCM-2	Schaumburg	4	8.26 - 8.91	8.68
BCM-3	Hoffman Estates	1	7.30	7.30
BCM-4	Schiller park	8	7.93 - 9.47	8.47
BCM-5	Downers grove	4	8.06 - 8.42	8.22
BCM-6	Carol Stream	1	8.05	8.05
BCM-7	Addison	2	7.38 - 7.98	7.92
BCM-8	Northlake	1	8.38	8.38
BCM-9	Evanston	1	7.06	7.06
BCM-10	Elk grove	1	8.15	8.15
BCM-11	West Chicago	6	7.20 - 7.44	7.31
BCM-12	Skokie	2	8.3 - 8.5	8.40
BCM-13	winfield	2	7.90 - 8.02	7.96
BCM-14	SKokie	2	8.3 - 8.5	8.40
BCM-15	Schaumburg	1	7.39	7.39
BCM-16	Chicago	1	8.06	8.06
BCM-17	Elgin	2	7.12	7.12
BCM-18	Carol Stream	1	8.05	8.05
BCM-19	Des Plaines	1	8.55	8.55
BCM-20	wooddale	2	7.59	7.59
BCM-21	St Charles	10	7.70 - 8.37	8.13
BCM-22	Chicago	4	8.03- 8.05	8.18
BCM-23	Arlington Heights	2	8.24	8.24
BCM-24	*Elk grove village*	80	7.88 - 9.62	8.48
BCM-25	Carol Stream	4	8.68-9.93	9.22
BCM-26	Naperville	3	7.8-8.75	8.14
BCM-27	Carol Stream	4	8.68-9.93	9.22
BCM-28	Elgin	2	8.07-8.3	8.19
BCM-29	Skokie	1	8.56	8.56
BCM-30	Park Ridge	1	7.68	7.68
BCM-31	Itasca	1	7.6	7.60
BCM-32	Elmhurst	1	8.67	8.67
BCM-33	Arlington Heights	1	8.27	8.27
BCM-34	Batavia	2	7.7-8.3	8.00
BCM-35	Addison	1	8.96	8.96
BCM-36	Batavia	2	7.7-8.3	8.00
BCM-37	Bensenville	3	7.76-8.16	7.94
BCM-38	Hanover park	1	7.8	7.80
BCM-39	Glendale Heights	1	8.3	8.30
BCM-40	Schaumburg	2	7.5-8.2	7.85
BCM-41	Skokie	1	8.35	8.35
BCM-42	Bensenville	1	7.55	7.55
BCM-43	Chicago	3	8.7-9.1	8.93
BCM-44	Chicago	6	7.6-8.3	8.07
BCM-45	West Chicago	1	7.7	7.70

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BCM-46	Mount Prospect	2	8.01-10.9	9.46
BCM-47	Schaumburg	1	8.11	8.11
BCM-48	Melrose Park	2	8.31-8.62	8.47
BCM-49	Northfield	1	7.65	7.65
BCM-50	Palatine	1	9.13	9.13
BCM-51	Bensenville	2	7.76-7.83	7.80
BCM-52	Crystal lake	1	8.67	8.67
BCM-53	West Chicago	2	7.66-7.94	7.80
BCM-54	Chicago	1	8.7	8.70
BCM-55	Carol Stream	5	7.81-8.93	8.31
BCM-56	Carol Stream	5	7.81-8.93	8.31
BCM-57	Lombard	1	8.1	8.10
BCM-58	Schaumburg	1	7.37	7.37
BCM-59	Irving park	1	7.94	7.94
BCM-60	Downers grove	1	8.65	8.65
BCM-61	Chicago	1	8.3	8.30
BCM-62	Palatine	3	7.75-8.41	8.03
BCM-63	Naperville	1	7.88	7.88
BCM-64	Hanover park	1	9.57	9.57
BCM-65	Glen Ellyn	1	7.98	7.98
BCM-66	Elgin	1	9.02	9.02
BCM-67	Bensenville	6	7.22-7.78	7.67
BCM-68	Hoffman Estates	1	10.3	10.30
BCM-69	Willowbrook	4	7.71-8.49	7.96
BCM-70	Addison	1	7.8	7.80
BCM-71	Barrington	1	8.52	8.52
BCM-72	Elk grove village	1	8.2	8.20
BCM-73	Addison	1	7.8	7.80
BCM-74	Niles	1	7.96	7.96

Bluff City Materials

July 2010-February 2012

Total Stie Locations 74

Total Data Points 236

pH Range 7.12-10.9

Average pH 8.205365

* = estimated value because
there were too many data points

BEFORE THE ILLINOIS POLLUTION CONTROL BOARD

IN THE MATTER OF:)
)
PROPOSED AMENDMENTS TO CLEAN) R12-9
CONSTRUCTION OR DEMOLITION) (Rulemaking – Land)
DEBRIS (CCDD) FILL OPERATIONS:)
PROPOSED AMENDMENTS TO 35 Ill.)
Adm. Code 1100)

**PRE-FILED TESTIMONY OF JOHN HOCK, P.E. , ON PROPOSED
AMENDMENTS TO 35 ILL. ADM. CODE 1100**

My name is John E. Hock. I am a Vice President of Civil & Environmental Consultants, Inc. (CEC) where I also serve as the Office Lead of the Chicago Office. CEC provides consulting services in five areas: environmental science and engineering; civil and site development engineering; ecological sciences; waste management; and water resources.

I graduated from Ohio State University in 1987 with a B.S. in Chemical Engineering. Following graduation I spent over 11 years working for large and mid-size solid waste hauling and disposal companies as a site and regional engineer throughout the Midwest. My work allowed me to develop an expertise in directing complex environmental projects at solid waste disposal sites, including issues related to environmental monitoring, minor and major permit modifications, compliance systems, landfill development, landfill gas systems, leachate treatment plant development, wetland mitigation, and closure activities. I later served as a senior project manager in the environmental group of a major corporation where I managed multiple remedial projects under CERCLA, RCRA, NRC, and property transfer regulations. The projects involved Corrective Action Programs for two active manufacturing facilities, investigation of a low-level radioactive disposal site, and O&M of multiple CERCLA Sites.

For the last 11 years I have been employed by CEC in a variety of positions, including my current position as Vice President and Office Lead. While at CEC, I have directed a large number of environmental and waste management projects including several involving CCDD facilities. I am a registered as a Professional Engineer in the states of Illinois, Missouri and Ohio and have over 24 years of experience in the environmental engineering field. A brief summary of my education and work experience is included as Attachment 1.

Today I will be testifying in regards to the First Notice of the proposed amendments to the existing 35 Illinois Administrative Code (IAC) Part 1100 rules mandated by Public Act 96-1416.

CEC has been assisting the Illinois Association of Aggregate Producers (IAAP) with their review of the proposed amendments to 35 IAC Part 1100. CEC has provided input regarding the Subpart F – Standards for Uncontaminated Soil Used as Fill Material at Fill Operations Regulated by this Part.

We appreciate the Illinois Pollution Control Boards (PCB) consideration of the IAAP's previous comments and the PCB's modifications to the July 29, 2011 Proposed Rules (Proposed Rules) that are incorporated into the February 2, 2012 First Notice Rules (First Notice Rules), including the removal of Subpart G: Groundwater Monitoring.

I will be testifying regarding the Maximum Allowable Concentrations (MACs) for parameters with pH specific soil remediation objectives.

Section 1100.605(a)(2) states the following;

For ionizing organic constituents, the lowest pH-dependent value for the soil component of the Class I groundwater ingestion exposure route in 35 ILL. Adm. Code 742.Appendix B, Table C must be substituted for the pH-neutral value provided for the soil component of the Class I groundwater ingestion exposure route in Appendix B, Table A before determining the lowest Tier I chemical-specific soil value pursuant to subsection (a)(1) of this Section.

Section 1100.605(a)(3) states the following:

For inorganic constituents, the remediation objectives for the soil component of the Class I groundwater ingestion exposure route in Appendix B, Tables A and B are based on the contaminant concentration resulting from an extraction test and are not directly comparable to the remediation objectives provided for the ingestion and inhalation exposure routes, which are based on total concentrations. The following values, based on total concentrations, must be substituted for the extraction test values in Table A before determining the lowest Tier I chemical-specific soil value pursuant to subsection (a)(1) of this Section:

A) The lowest chemical-specific, pH-dependent values in Appendix B, Table C; or

Both 1100.605(a)(2) and (a)(3)(A) require that, for both ionizing organic and inorganic constituents, the lowest pH-dependent values for the soil component of the Class I groundwater ingestion exposure route in 35 IAC 742.Appendix B, Table C must be substituted for the pH-neutral value provided for the soil component of the Class I groundwater ingestion exposure route value in Appendix B. Table A.

Basing MACs upon low pH specific soil remediation objectives is not appropriate based on the following data.

- Pre-acceptance data from multiple CCDD facilities;
- Investigation data of CCDD facilities; and
- Laboratory data of soil samples.

Each is discussed further below.

Pre-acceptance data from multiple CCDD facilities

Public Act 96-1416 became effective July 30, 2010 and included additional requirements for facilities accepting CCDD materials. For all soil, certification that the soil is uncontaminated is now required to be obtained prior to acceptance. If the source site has been used for commercial or industrial purposes, analytical data, including pH, may be provided as part of the certification. Thus, since July 30, 2010, facilities have been obtaining analytical results from certain sources.

CEC has reviewed certification data from VCNA Prairie, Inc. (Prairie), Hanson Material Service (Hanson), Bluff City Materials (Bluff City) and Reliable Materials (Reliable) from August 2010 through December 2011. Prairie is the operator of four CCDD fill sites; Hanson is the operator of two CCDD fill sites and two uncontaminated soil fill sites; Bluff City is the operator of five CCDD fill sites; and Reliable is the operator of one CCDD fill site. In summary, 973 pH data points from approximately 197 project locations was provided. The pH of the fill material ranged from 6.7 to 11.1 and averaged approximately 8.2.

Investigation data of CCDD facilities

CEC presented investigation data in its previous testimony. Specifically, CEC has performed or reviewed the data from investigations of multiple CCDD fill sites. The CCDD sampled at each of these sites was predominantly filled prior to the current rules, including the current pre-screening requirements.

The pH data from the above referenced investigation shows that the pH values of the soil in the CCDD facilities were all above 7.3 and averaged 8.1.

Laboratory data of soil samples

CEC presented laboratory data in its previous testimony. Specifically, First Environmental provided pH data from "solid" samples analyzed by their lab. The solid samples include soil and non-soil materials (e.g., wastes that are not even considered to be sent to a CCDD facility). First Environmental has analyzed approximately 8,500 solid samples from January 2006 to September 2011. Eight thousand three hundred of these samples (over 97.6 percent) had a pH of 6.25 or greater.

Summary

In prior testimony, CEC suggested establishing a MAC for pH of 6.25 or greater, and further suggested basing MACs for applicable parameters on the lowest pH specific soil remediation objectives from pH 6.25 and above.

In the First Notice, the PCB noted that the previously presented data resulted from a limited geographic area (Northern Illinois) but that the rules apply to the entire State. While we understand the PCB's comment, the data presented above is from Northeastern or Northwestern Illinois, which is consistent with the location of the large majority of the CCDD fill sites. Based on the IEPA website (<http://epadata.epa.state.il.us/land/ccdd/index.asp>), CCDD permits were issued to 64 facilities. Approximately 60% of these facilities are located in Northeastern Illinois (McHenry, Lake, Cook, Will, DuPage, Kane, Grundy, Kankakee or Kendall Counties) and

approximately 90% of these facilities are located in Northeastern or Northwestern Illinois. Northwestern Illinois includes the counties of Boone, Bureau, Carroll, DeKalb, Jo Daviess, LaSalle, Lee, Ogle, Putnam, Stephenson, Whiteside and Winnebago.

During the October 16, 2011 hearing, the IEPA presented Illinois soil pH measurements from the United States Department of Agriculture Natural Resources Conservation Service STATSGO database (See pages 71 through 76 of 10/16/11 hearing transcript and IEPA Exhibit 25). A range of pH data was provided for major soil types in the 23 Illinois counties which have a permitted CCDD fill site or registered uncontaminated soil fill site. However, the manner in which these results were measured and its relevance to potential soil acceptance at CCDD or uncontaminated soil fill sites was not discussed. Moreover, in contrast to the data provided by Prairie, Hanson, Bluff City and Reliable, the IEPA presented no evidence that soil with these pH results were used as fill at any permitted CCDD fill sites or registered uncontaminated soil fill sites. Thus, the pH results from the STATSGO database have not been shown to be representative of soil typically accepted at CCDD fill sites or registered uncontaminated soil fill sites.

In summary, CEC reviewed additional data which is consistent with the data provided in previous testimony and is believed to be representative of soil fill material accepted at greater than 90% of the currently permitted CCDD fill sites in Illinois. Thus, CEC re-affirms our suggestion of establishing a MAC for pH of 6.25 or greater, and further suggests basing MACs for applicable parameters on the lowest pH specific soil remediation objectives from pH 6.25 and above.



JOHN HOCK, P.E.

Vice President

Mr. Hock is a Vice President in CEC's Chicago Office where he serves as the waste management practice lead. He has over 24 years of experience with environmental issues at solid waste, CERCLA, RCRA, and voluntary action sites from both the private industry and consulting perspectives.

Mr. Hock spent over 11 years of his career working for large and mid-size solid waste hauling and disposal companies as a site and region engineer throughout the Midwest. In this role, he developed an expertise in directing complex environmental projects at solid waste disposal sites, including issues related to environmental monitoring, minor and major permit modifications, compliance systems, landfill development, landfill gas systems, leachate treatment plant development, wetland mitigation, and closure activities.

Mr. Hock also served as a senior project manager in the environmental group of a major corporation. In this role, he managed multiple remedial projects under CERCLA, RCRA, NRC and property transfer regulations. The projects involved Corrective Action Programs for two active manufacturing facilities, investigation of a low-level radioactive disposal site, and O&M of multiple CERCLA Sites.

SELECT PROJECT EXPERIENCE

Development Projects

- Kendall County, Illinois - Principal for engineering design and preparation of a local siting application for a green field solid waste disposal facility with a capacity of approximately 50 million cubic yards.
- Newark, New Jersey – Managed the design/build of an approximately 1600 tpd truck to rail transfer facility including overall site grading, drainage, relocation of over 1-½ miles of live rail, truck and rail scales, and utilities.
- Midwest – Performed due diligence on multiple solid waste landfills for start up solid waste companies.
- Chicago, Illinois - Oversaw the preparation of the permit application and prepared an environmental impact report for a proposed construction and demolition waste recycling and transfer facility.
- Morris, Illinois – Managed the redesign and permitting of a solid waste landfill.
- Northwest Ohio - Managed the permitting of a solid waste landfill expansion including presenting the proposed project at the local zoning hearing and the public meeting.
- Northwest Ohio - Managed the permitting of a new solid waste transfer station.

EDUCATION

B.S., Chemical Engineering,
The Ohio State University,
1987

REGISTRATIONS

Registered Professional
Engineer in States of Illinois,
Missouri and Ohio



- Kentucky - Managed the permitting of a landfill expansion that was located in a wetland, in a floodplain and within 10,000 feet of a major airport, including satisfying approximately 17 different regulatory agencies and testifying at the local zoning hearing.
- Illinois - Prepared the permit application and testified at the local zoning hearing for a compost facility.
- Illinois – Managed the redesign of several solid waste landfills to comply with the Subtitle D regulations.

Landfill Gas Collection and Control Systems

- Illinois – Principal for landfill gas collection and control system (GCCS) repairs and upgrades at multiple landfills, including downhole camera investigations, piping replacement, sump installations and control modifications.
- Illinois – Principal for monitoring and performing O&M of a GCCS and a soil-gas extraction system. The GCCS includes approximately 240 gas wells/ extraction points in two separate landfill units. The soil-gas extraction system includes a slurry wall, approximately 30 extraction wells and the evaluation of the system to mitigate gas migration.
- Illinois – Project Manager and Principal for the mitigation of gas migration at a closed landfill, including monitoring the effectiveness of an interceptor trench and installation of vent wells.
- Illinois – Principal for the evaluation of the landfill gas collection and control system for a closed landfill in support of constructing a golf course on the landfill.
- Illinois, Kentucky and Ohio - Managed the design, construction and operation of landfill gas collection and control systems in closed and active portions of various solid waste landfills. The design included evaluating the overall effectiveness of the system and the construction included replacing/reconfiguring non-functional portions. The operations involved reviewing routine monitoring information from the system and recommending action items.
- Pennsylvania - Supported determination of odor origin, developed and managed odor control measures at a various solid waste landfills which were receiving numerous odor complaints. Measures included improving operations of landfill gas collection and control system, installing additional landfill gas extraction wells and piping, applying geo-synthetic materials as intermediate cover material and using odor masking agents, tracking the effectiveness of odor control measures based on odor observations and complaints and meeting with local officials, residents and governmental agencies.

Construction

- Illinois – Certifying engineer for approximately 15 acres of composite final



cover, surface water management system upgrades, and leachate system improvements

- Ohio – Principal for the construction of approximately 16 acres of composite liner system, surface water management system upgrades, and leachate system improvements.
- Illinois - Certifying engineer for the liner development of four solid waste landfill cells in Illinois with a groundwater underdrain and a composite liner system.
- Illinois, Kentucky, Ohio and Pennsylvania - Managed the construction of over 100 acres of composite and/or double composite liner and leachate collection systems over a 10+ year period at various solid waste landfills.
- Illinois, Kentucky, Ohio and Pennsylvania - Managed the construction of over 200 acres of soil and/or composite final cover systems over a 10+ year period at various solid waste landfills.
- Pennsylvania - Managed the construction of 10M gallon per year leachate treatment plant including aerobic and anaerobic treatment capabilities and an on-site stream discharge
- Illinois - Managed the RCRA Closure of an approximately 20 acre drum trench area and 60 acre co-disposal landfill, and clean closure of a decant facility, container storage area and waste storage ponds.
- Illinois- Managed the HSWA investigation of two landfill areas including the exhumation/relocation of waste material, installation of a slurry wall and retro-fitting of a leachate collection system.
- Pennsylvania - Managed the exhumation and relocation of an approximately 20 acre unlined solid waste disposal area at a landfill.
- Kentucky - Managed the creation or enhancement of 434 acres of wetlands in four separate areas to compensate for the ability to alter and fill 178 acres of jurisdictional wetlands.

Environmental Compliance

- Illinois – Managed CCDD permitting and compliance support for multiple CCDD facilities.
- Illinois, Ohio, Kentucky and Pennsylvania - Managed the environmental monitoring at several landfills including groundwater, leachate, surface water, residential wells, gas migration, NSPS surface emissions and NSPS landfill gas extraction wells.
- Illinois, Kentucky, Ohio and Pennsylvania - Managed environmental compliance issues at various hauling companies and transfer stations.
- Illinois - Revised the SPCC plan, Storm water Pollution Prevention (SWPP) Plan and Chemical Safety Contingency Plan for an approximately 300,000 square foot custom chemical blending and packaging facility with approximately 800,000 gallons of tank storage.



- Illinois - Prepared SPCC and SWPP Plans and for multiple solid waste landfills.
- Illinois - Performed an environmental assessment of solid waste hauling divisions to evaluate current conditions with respect to applicable regulatory standards, including the revised SPCC regulations.
- Indiana - Managed an investigation into the cause and potential environmental impact of an oil spill from a rail car that occurred at product blending/distribution center.
- Illinois - Assessed the current environmental programs with regard to applicable federal, state, and local regulations (including the revised SPCC regulations) at an approximately 500,000 square foot custom printing, manufacturing, and distribution facility.
- Indiana - Evaluated the existing storm water sewer system from a portion of a steel plant in order to develop options to cease the discharge of oily water.
- Illinois, Ohio, and Pennsylvania - Developed and managed an environmental compliance system for non-hazardous solid waste landfills including state and local regulations, permit requirements (from air, water and land regulatory agencies) and company policies.
- Kentucky - Managed an environmental compliance system at a non-hazardous solid waste landfill which involved landfill operations, environmental monitoring, and construction in a floodplain, a wetland mitigation program, wastewater pretreatment, a landfill gas extraction system, soil bioremediation and yard waste composting.
- Tennessee - Served as the Respondent's designated Project Coordinator pursuant to an Administrative Order for a CERCLA site in Tennessee with a 300 gallon per minute groundwater extraction and treatment system.
- Multiple States - Participated in the environmental audit of several solid waste and RCRA facilities.
- Illinois - Prepared Individual NPDES permit applications for 10 facilities which included performing flow and/or time composite sampling of surface water.

Site Investigations

- Illinois – Managed environmental subsurface investigations of multiple CCDD facilities.
- Illinois – Managed the environmental due diligence process including a subsurface investigation for a CCDD facility.
- Michigan - Performed an investigation and dose assessment pursuant to NRC regulations of a low-level radioactive disposal site.
- Michigan - Oversaw and represented the client in regulatory negotiations and at public meetings regarding a multi-agency investigation and



remediation of a CERCLA site that was contaminated by former pesticide and PBB manufacturing operations.

- New Jersey - Served as technical contact with the agencies, and coordinated the overall RI/FS activities under CERCLA, including preparation of the human health and ecological risk assessments, for a property that was previously used as a mercury processing facility.
- Tennessee - Oversaw the RCRA Corrective Action Program of a chemical manufacturing facility including the investigation/remediation of DNAPL and chlorinated organic compounds in groundwater, construction of an engineered cap and exhumation of waste disposal areas.
- Tennessee - Oversaw the RCRA Corrective Action Program of a former chemical manufacturing facility including the construction and operation of a groundwater and vapor phase extraction and treatment system, exhumation of a buried pond/buried tank car, and investigation of off-site groundwater and sediment.
- Tennessee - Prepared a Phase I Remedial Investigation Report for a disposal site, including compiling information from various sources dating back 30 years (including information regarding two other highly contaminated adjacent properties) to help define the site conditions with regard to geology, hydrogeology, existing conditions, and potential exposure pathways.
- Illinois - Performed a HSWA investigation of a former land farm area.

Other Solid Waste Projects

- Performed an evaluation of the surety industry's risk in issuing financial assurance bonds guaranteeing closure and post-closure obligations for municipal solid waste landfills, including describing current national solid waste industry trends, industry practices, regulatory requirements, risk factors, bankruptcy case studies and other catastrophic events
- Performed various planning and budgeting services for municipal solid waste landfills including coordinating airspace/ volume study, evaluating the results, performing budget calculations, preparing contract/construction documents

PROFESSIONAL AFFILIATIONS

American Institute of Chemical Engineers
National Solid Wastes Management Association
Solid Waste Association of North America

PROOF OF SERVICE

I, John Henriksen, certify that I have served the attached **Illinois Association of Aggregate Producers' Pre-Filed Testimony of Bret Hall, Annick Maenhout, Gregory Wilcox, P.E. and John Hock, P.E. on Proposed Amendments to 35 Ill. Adm. Code 1100 and Notice of Filing**, via electronic filing, on March 2, 2012, to the following:

John Therriault, Clerk
Illinois Pollution Control Board
James R. Thompson Center
100 West Randolph Street, Suite 11-500 Chicago, IL 60601;

and by first class mail, postage prepaid, on March 2, 2012, to the following:

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John Henriksen