April 21, 2011



Ms. Michelle Tipple
New York State Department of Environmental Conservation (NYSDEC)
Region 3
21 South Putt Corners Road
New Paltz, NY 12561

Subject: Work Plan to Install Upgradient Well Clusters

Hangar D1 Bay 1B Project at the Westchester County Airport

White Plains, New York

Dear Ms. Tipple:

We would like to thank you and Ms. Brown for meeting with us on March 30, 2011. Confirming our meeting, ExxonMobil is planning to implement the following work scope to investigate possible sources of chlorinated solvents that are upgradient to Hangar D1 Bay 1B at the Westchester County Airport. A Site Location Map and a Site Area Map are included as Figures 1 and 2.

1.0 BACKGROUND / REMEDIAL ACTIVITIES CONDUCTED

In accordance with the Record of Decision for the Hangar D1 Bay 1B site, soil vapor extraction (SVE) was selected as the remedial alternative for chlorinated volatile organic compounds (CVOCs) found in soils and in-situ oxidation using potassium permanganate was selected as the remedial alternative for CVOCs in ground water.

In 2004, a SVE system was installed and started-up to remediate impacted soils above the water table where they were found in the vicinity of well MW-02. Initial removal rates were 2.5 pounds of CVOCs per year; presently, the system is removing less than 1 pound of CVOCs per year.

In August 2001 and September 2004, Potassium Permanganate was applied to the subsurface beneath Hangar D1 Bay 1B near monitoring wells MW-01 and MW-02 (see Figure 3). Results from samples collected three months after each injection indicated a rebound of contaminant concentrations in the MW-01 area. In November and December 2008, a third application of Potassium Permanganate was applied to the subsurface near monitoring well MW-01, and a subsurface investigation was conducted to discern the source of impact near well MW-01. Again, ground water samples collected after injection showed that contaminant concentrations in the MW-01 area rebounded, and long term concentrations remain stable.

For the 2008 investigation in the MW-01 area, total CVOCs in soil samples were minimal, ranging from an estimated value of 2.7 micrograms per kilogram (ug/kg) to below method detection limits. However, the highest concentration of Tetrachloroethene and the second highest concentration of 1,1,1-Trichloroethane in ground water were detected in the new upgradient well MW-13 along the northwest hangar wall (refer to Figure 3). Concentrations of Tetrachloroethene degradation products, including Trichloroethene, 1,1-Dichloroethene, cis- and trans-1,2-Dichloroethene, and Vinyl Chloride, were found at the highest concentrations downgradient from well MW-13 (refer to the Appendix A).

Research for potential upgradient sources, including extensive documentation obtained under Freedom of Information Law (FOIL) requests, revealed a Former Air National Guard (ANG) Septic Area that is reported to be impacted with Tetrachloroethene. Ongoing investigation at the ANG facility (Site V-00499-3)



documented Tetrachloroethene and its breakdown products in the deep overburden and shallow bedrock ground water between Hangars 6, 26, and V (refer to Figure 2 for hangar locations).

ExxonMobil contacted Westchester County Airport regarding these findings and to request installation of bedrock well clusters between Hangar D and Hangar V. After providing two separate submittals of information to the Airport, the Airport responded that they did not believe the ground water concentrations in the MW-01 area were explained by an upgradient source.

On March 30, 2011, ExxonMobil met with the NYSDEC to review its findings and the site status. At that meeting, ExxonMobil agreed to provide the work plan herein and conduct well installations to expedite the needed project documentation.

2.0 PROPOSED ACTIVITIES

Upon notice from the NYSDEC that this work scope is approved, ExxonMobil and its contractors will coordinate the field schedule with Westchester County Airport. Two well clusters will be installed upgradient of Hangar D as noted on Figure 3. Construction of the wells will be similar to that of existing wells MW-13 and MW-8S (refer to Figure 3 and Attachment B). The shallow well of the cluster will be constructed of 2-inch diameter PVC with 10 feet of 10 slot well screen set at the top of bedrock. The deep well of the cluster will be constructed of 2-inch casing set at the top of rock with 10 feet of open boring into bedrock.

Following installation and redevelopment, each new well will be sampled for laboratory analysis using EPA Method SW846 8260B. Sampling is planned to be conducted coincidental with a quarterly ground water sampling event under the existing ground water monitoring plan for Hangar D1 Bay 1B.

3.0 SCHEDULE AND REPORTING

Well installation activities will be conducted as soon as possible upon approval to proceed from the NYSDEC and Westchester County Airport. Well sampling will be coordinated with the quarterly ground water monitoring program for the Hangar D1 Bay 1B site. Installation activities and ground water monitoring results will be reported in quarterly progress reports submitted for the Hangar D1 Bay 1B site.

Please do not hesitate to contact me at (203) 271-0379 with if you need any additional information to facilitate your review and approval of this Work Plan. Thank you again for your time and assistance.

Sincerely,

WOODARD & CURRAN INC.

Anne E. Proctor, PE Sr. Project Manager



copy: M. Lamarre - ExxonMobil

M. Tipple – NYSDEC (repository copy)
S. Bates – NYSDOH (electronic copy only)
M. Parletta - Westchester County Airport
E. Faulkner, R. Martinez - Landmark Aviation

M. DeGloria - GES

Attachments:

Figures

Attachment A: Summary of Ground Water Results Attachment B: Sample Monitoring Well Logs

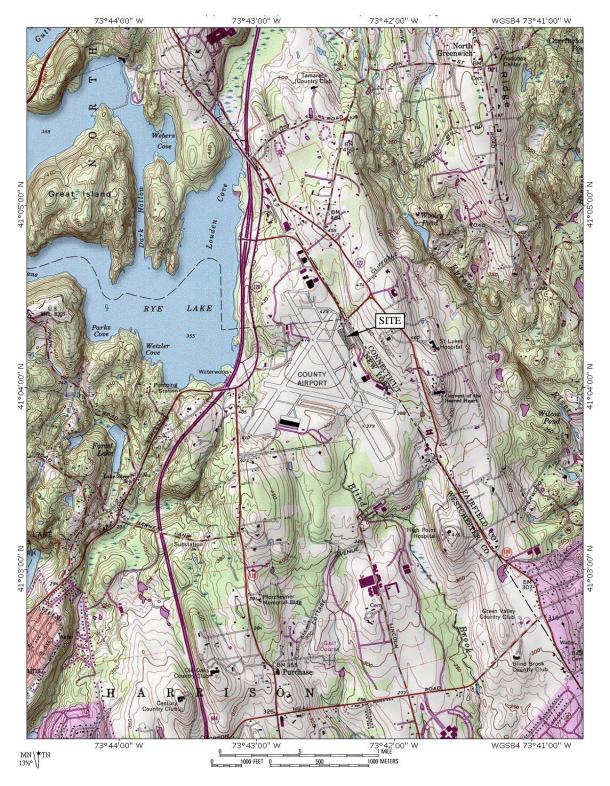
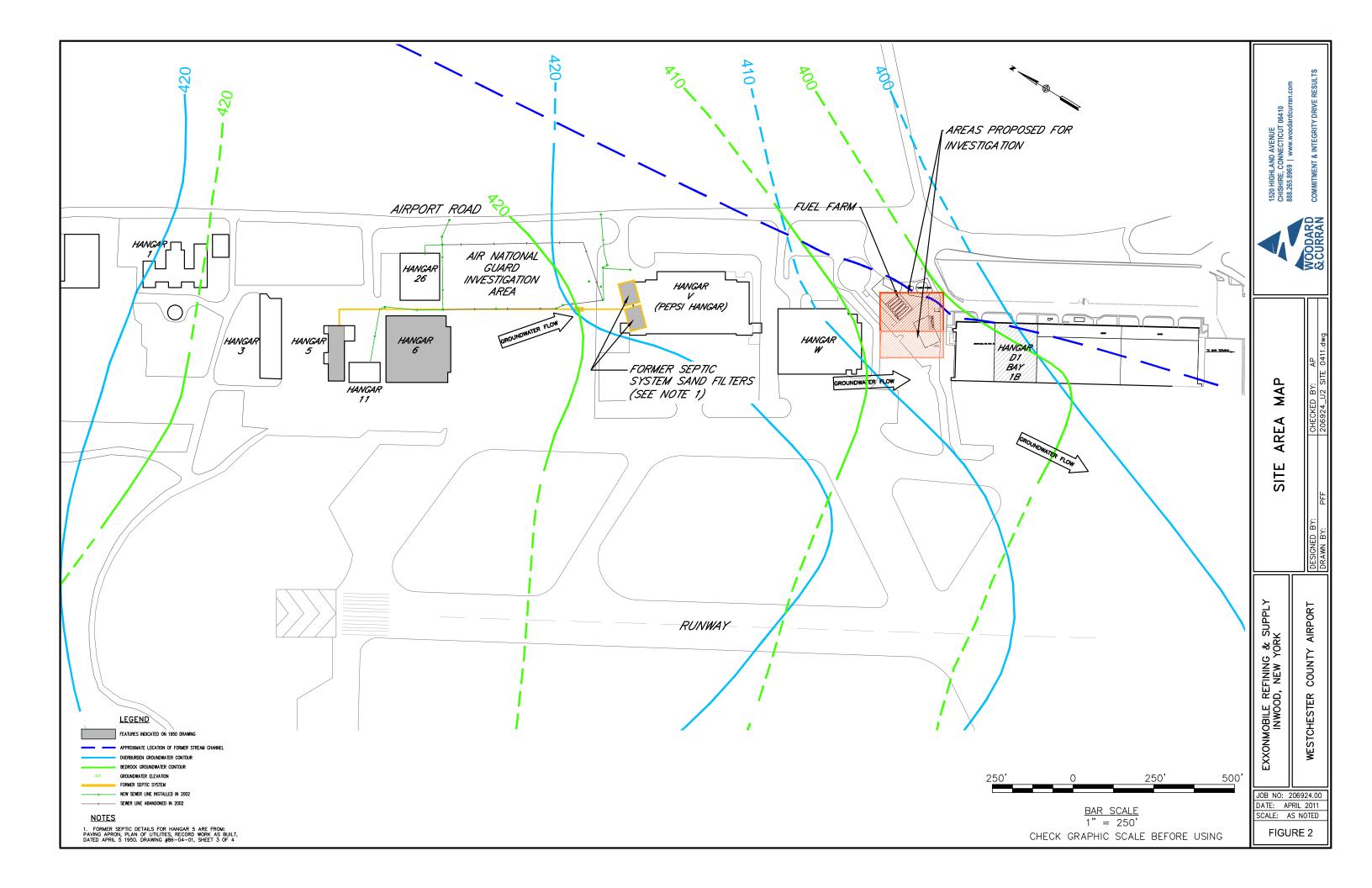
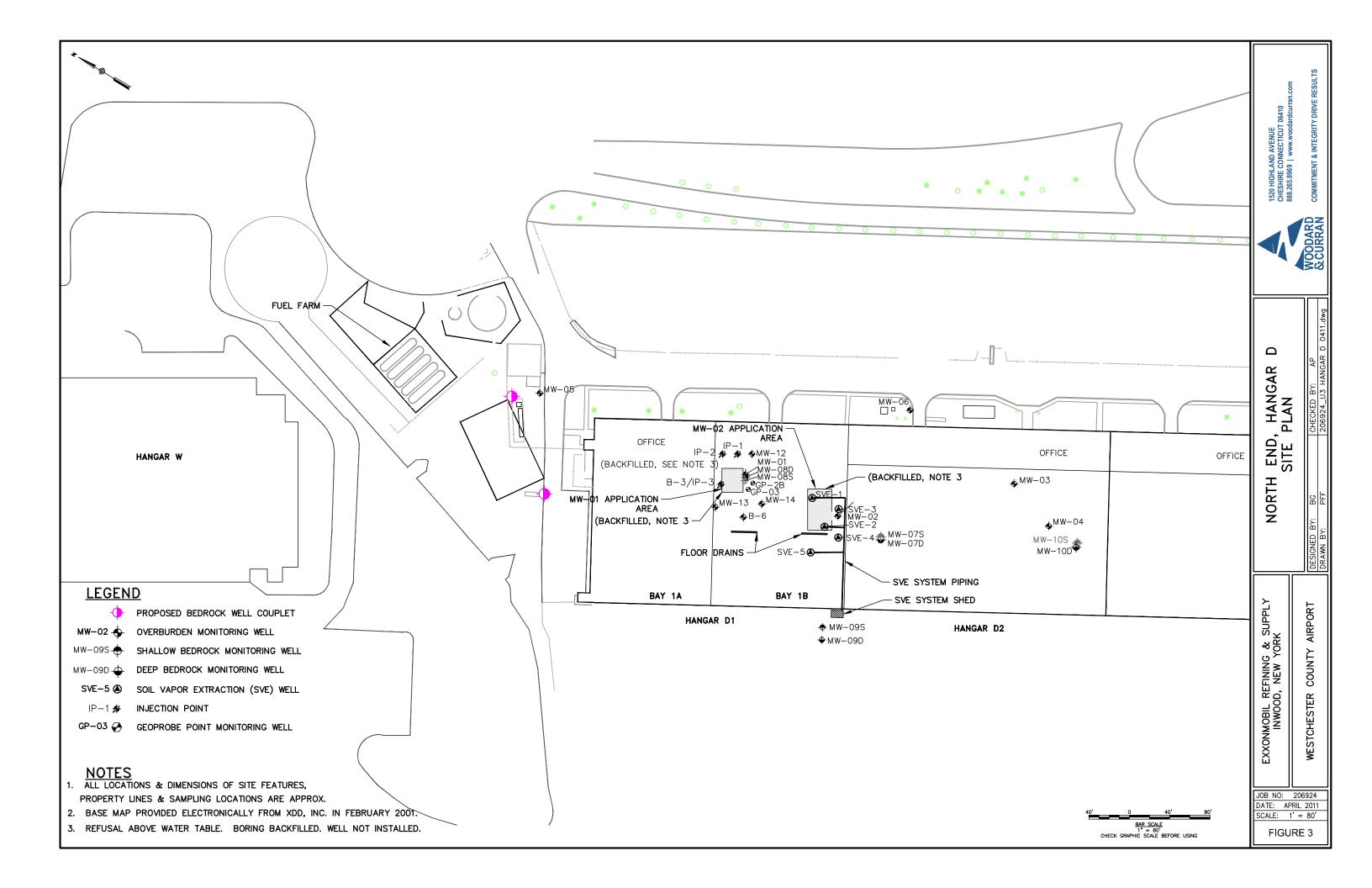


FIGURE 1 SITE LOCATION MAP Hangar D1, Bay 1B Westchester County Airport Site Number 360037





ATTACHMENT A – SUMMARY OF GROUND WATER RESULTS



Summary of Ground Water Results December 2008 Hangar D1, Bay 1B, Westchester County Airport

	Monitoring	Sample	Tetrachloro-	Trichloro-	cis-1,2- Dichloro-	trans-1,2- Dichloro-	1,1-Dichloro-	Vinyl	1,1,1- Trichloro-	1,1-Dichloro-	Chloro-
Area	Well	Well Date ethene ethene ethene		ethene	ethene	ethene	Chloride	ethane	ethane	ethane	
	MW-13	12/19/08	256	12.4	84.9	0.40 U	1.4	0.52 U	11.7	16.8	0.55 U
	MW-14	12/19/08	146	20.3	105	2.0	1.8	0.61	5.8	16.1	0.22 U
MW-01	MW-01	12/19/08	0.29 U	1.5	74.6	20	0.53	9.4	0.24 U	14	0.22 U
Area	MW-8S	12/19/08	182	64.7	133	4.6	1.9	0.21 U	9	19.3	0.22 U
	GP-02B	12/19/08	0.47	2.6	226	10.7	1.5	9.4	0.24 U	32.8	0.22 U
	GP-03	12/19/08	95.5	79	151	6.3	1.9	3.9	3.8	30.1	0.22 U
MW-02	MW-02	12/19/08	0.29 U	3.2	47.1	1.2	0.51	43.3	0.24 U	22.7	1.2
Area	MW-7S	12/19/08	3.4	13.1	53.1	0.16 U	15.6	13.9	24	41.2	0.22 U
Alea	MW-7D	12/19/08	1.6	12.3	37.9	0.16 U	19.1	3.3	0.24 U	78.1	0.22 U
	MW-03	12/19/08	0.29 U	0.18 U	0.43	0.16 U	0.29 U	0.65	0.24 U	0.24 U	0.52
Down-	MW-04	12/19/08	0.29 U	0.18 U	0.72	0.16 U	0.29 U	2.3	0.24 U	0.96	1.6
gradient	MW-10S	12/19/08	0.7	2.3	23.6	0.16 U	4.7	3.8	0.24 U	31.4	0.22 U
Area	MW-10D	12/19/08	0.29 U	0.18 U	0.25 U	0.16 U	0.29 U	0.35	0.24 U	27.7	15.7
Alea	MW-9S	12/19/08	0.49	0.18 U	0.32	0.16 U	0.29 U	0.21 U	0.24 U	0.24 U	0.22 U
	MW09D	12/19/08	7.9	0.74	2.8	0.16 U	0.29 U	0.21 U	0.24 U	1.3	0.22 U

Notes:

Concentrations are in ug/L (ppb).

U = Compound undetected.

Highest concentration in wells monitored.

Second highest concentration in wells monitored.

Summary of Ground Water Results November 2009 Hangar D1, Bay 1B, Westchester County Airport

Area	Monitoring Well	Sample Date	Tetrachloro- ethene	Trichloro- ethene	cis-1,2- Dichloro- ethene	trans-1,2- Dichloro- ethene	1,1-Dichloro- ethene	Vinyl Chloride	1,1,1- Trichloro- ethane	1,1-Dichloro- ethane	Chloro- ethane
	MW-13	11/09/09	258	19	92.8	1.3	1.3	0.44 U	7.8	13.6	0.37 U
	MW-14	11/09/09	220	36.1	126	3.2	1.5	0.54 J	5.1	17.2	0.37 U
MW-01	MW-01	11/09/09	0.27 U	1.1	67.8	19.4	0.40 U	16.5	0.26 U	13.9	0.37 U
Area	MW-8S	11/09/09	175	79.2	141	7.3	1.6	0.70 J	5.1	19.1	0.37 U
	GP-02B	11/09/09	0.69 J	1.7	193	9.4	1.1	12.3	0.26 U	28.8	0.37 U
	GP-03	11/09/09	97.3	78.5	146	5	0.97 J	2.5	2	21.7	0.37 U
MW-02	MW-02	11/09/09	0.91 J	26.9	45.2	1.2	0.48 J	31.5	0.46 J	19.6	0.37 U
Area	MW-7S	11/09/09	0.35 J	13.6	55.8	0.44 J	5.7	11.5	8.8	24.8	0.37 U
Alca	MW-7D	11/09/09	3.0	11.7	37.5	0.25 U	17	2.8	0.26 U	69.1	0.37 U
	MW-03	11/09/09	0.27 U	0.24 U	0.22 U	0.25 U	0.40 U	0.44 U	0.26 U	0.29 U	0.37 U
Down-	MW-04	11/09/09	0.27 U	0.24 U	0.22 U	0.25 U	0.40 U	0.82 J	0.26 U	0.62 J	1.8
gradient	MW-10S	11/09/09	1.6	4	39.2	0.32 J	6.1	5.6	0.26 U	46	0.37 U
Area	MW-10D	11/09/09	0.27 U	0.24 U	0.22 U	0.25 U	0.40 U	0.82 J	0.26 U	8.8	0.37 U
Alca	MW-9S	11/09/09	0.35 J	0.24 U	0.22 U	0.25 U	0.40 U	0.44 U	0.26 U	0.29 U	0.37 U
	MW09D	11/09/09	0.73 J	0.24 U	0.22 U	0.25 U	0.40 U	0.44 U	0.26 U	0.29 U	0.37 U

Notes:

Concentrations are in ug/L (ppb).

U = Compound undetected.

Highest concentration in wells monitored.

Second highest concentration in wells monitored.

Summary of Ground Water Results November 2010 Hangar D1, Bay 1B, Westchester County Airport

					cis-1,2-	trans-1,2-			1,1,1-		
	Monitoring	Sample	Tetrachloro-	Trichloro-	Dichloro-	Dichloro-	1,1-Dichloro-	Vinyl	Trichloro-	1,1-Dichloro-	Chloro-
Area	Well	Date	ethene	ethene	ethene	ethene	ethene	Chloride	ethane	ethane	ethane
	MW-13	11/12/10	298	19.1	87.1	1.5 J	1.5 J	0.89 U	7.2	12.7	0.74 U
	MW-14	11/12/10	223	36.9	133	3.3	1.6	0.73 J	4.2	16.7	0.37 U
MW-01	MW-01	11/12/10	1.5	2.7	122	21.3	0.76 J	11	0.26 U	14.3	0.37 U
Area	MW-8S	11/12/10	184	85.4	168	6.6	2.4	0.99 J	5.2	20.3	0.37 U
Alca	MW-8D	11/12/10	79.1	20.9	73.6	3.5	0.98 J	0.44 U	0.6 J	14	0.37 U
	GP-02B	11/12/10	1.6	1.4	181	10.2	1	22.9	0.26 U	29.7	0.37 U
	GP-03	11/12/10	117	107	164	6.8	1.7	6.5	2.4	25.8	0.37 U
MW-02	MW-02	11/12/10	0.60 J	9.1	70	0.96 J	0.69 J	16.4	0.26 U	13.7	0.37 U
Area	MW-7S	11/12/10	3.7	20.6	86.8	0.93 J	22.8	17.5	18	50.7	0.37 U
71100	MW-7D	11/12/10	8	25.1	67.1	0.68 J	34.8	6.1	0.26 U	119	0.37 U
	MW-03	11/12/10	0.27 U	0.24 U	0.47 J	0.25 U	0.40 U	0.75 J	0.26 U	0.29 U	0.37 U
Down-	MW-04	11/12/10	0.27 U	0.24 U	0.57 J	0.43 J	0.40 U	1.6	0.26 U	0.49 J	0.88 J
gradient	MW-10S	11/12/10	3.3	3.9	33.1	0.49 J	6.3	5	0.26 U	33.7	0.37 U
Area	MW-10D	11/12/10	0.27 U	0.24 U	0.22 U	0.25 U	0.40 U	0.44 U	0.26 U	10.1	0.71 J
7.1100	MW-9S	11/12/10	1.5	0.24 U	0.22 U	0.25 U	0.40 U	0.44 U	0.26 U	0.29 U	0.37 U
	MW09D	11/12/10	11.6	1.6	7.6	0.25 U	0.40 U	0.44 U	0.26 U	1.6	0.37 U

Notes:

Concentrations are in ug/L (ppb).

U = Compound undetected.

Highest concentration in wells monitored.

Second highest concentration in wells monitored.

ATTACHMENT B - SAMPLE MONITORING WELL LOGS



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CLIENT: XDD

PROJECT NAME: WESTCHESTER

COUNTY AIRPORT LOCATION: WESTCHESTER, NY

DRILLER: M. St. John

INSPECTOR: L. Buttermore

DATE START: 5-30-00

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



TYPE

SIZE I.D.

HAMMER WT.

129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

> Casing NW 3"

Sampler

Core Barrel

BORING No. MW-8S

SHEET 1 OF 1

ARCHITECT/ ENGINEER

FILE NO. XDDWESTC

SURFACE ELEV.

	DATE START: 5-30-00						MMER WT. MMER FALL	300 24"			LINE & STATION			
DATE	FINISH: 5-3										OFFSET			
	D. E	SA	MPLE	DED O			CASING BLOWS/							
No.	DEPTH RANGE IN FEET	0-6	BLOWS ON SA 6-12	MPLER 12-18	18-24	REC.	CASING BLOWS/ CORING TIMES PER FT.	1	FIELD CLASSIFICATION A	ND REMARKS		Well Cons.	Installation Details	
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CLIENT: XDD

PROJECT NAME: WESTCHESTER

COUNTY AIRPORT LOCATION: WESTCHESTER, NY

DRILLER: M. St. John

INSPECTOR: S.Maggie/L.Buttermor

DATE START: 5-23-00

NEW ENGLAND BORING CONTRACTORS OF CT., INC.



129 KRIEGER LANE GLASTONBURY, CT 06033 (860) 633-4649 -- (413) 733-1232 FAX (860) 657-8046

NQ

2"

Casing Sampler Core Barrel TYPE NW SS SIZE I.D. 3" 1-3/8" HAMMER WT. 300 140 HAMMER FALL 24" 30"

BORING No. MW-8D

SHEET 1 OF 1

ARCHITECT/ **ENGINEER**

FILE NO. XDDWESTC

SURFACE ELEV.

LINE & STATION

DATE	FINISH: 5-2	3-00					VIIVIERTALL	24 30	OFFS	ET	
		SA	MPLE			r	CASING			ГТ	
No.	DEPTH RANGE IN FEET	0-6	ON SA	PER 6" MPLER 12-18		REC.	BLOWS/ CORING TIMES PER FT.	FIELD CLASSIFICATION AND REMARKS		Well Cons.	Installation Details
								6" Concrete 12" Thin Wall			
								Gravel Silt			
S1 R1	5'-5'3" 6'-10'	100/ 3"		RED		3" 14"		Brown Fine - Coarse Sand, Some Fine - Co Gravel, Silt		1	
								Run #1, Cored Boulders, Rec. 14"	6	1	
52	10'-12'	2	2	1	4	10"		Gray Silt and Fine - Medium Sand, Little Fir	10		
33	12'-13'	12	100			6"		Gravel			
								Top of Weathered Rock @ 13'			
32	15'-20'		COF	₹ED		38"	6 5	Run #2, Cored Gray Mica Schist, Rec. 38"			
R3	20'-25'		COF	RED		46"	5 4 5 5	Run #3, Cored Gray Mica Schist, Rec. 46"	20		
₹4	25'-30'		COF	RED		50"	4 5 6 5	Run #4, Cored Gray Mica Schist, Rec. 50"	25		
₹5	30'-35'		COF	RED		49"	4 5 5 5 5	Run #5, Cored Gray Mica Schist, Rec. 49"	30		
R6	35'-40'		COF	RED		45"	5 5 5 5	Run #6, Cored Gray Mica Schist, Rec. 45"	35		
17	40'-45'		COR	ED		43"	4 5 5 5 6	Run #7, Cored Gray Mica Schist, Rec. 43"	40.		
							7 7 6	End of Boring @ 45'	45		
								Water @ 9'			
FS:	1) The examilication	n lines re-		21 116-				DEMARKS Comment 361 CAMMAC :			

NOTES: 1) The stratification lines represent the approximate boundary between soil types. Transitions may be gradual.

Water level readings have been made in the drill holes at times and under conditions stated on the boring logs. Fluctuations in the level of ground-water may occur due to factors other than those present at the time meas-urements were made.

REMARKS: Grouted 35' of NW Casing in place One 8" Road Way Box Installed

Monitoring Well Log

Groundwater & Environmental Services, Inc.

ID NO.**MW-13**

Project: Hangar D, Westchester Co. Airport

Client: EMES

Address: 184 Airport Rd, White Plains, NY

GES Job #: 1101379

Regulatory Case #:

Regulatory Case Mgr:M. Tipple

County: Westchester GES Project Mgr: M. DeGloria

Logged By: John Simms Drilling Company: Zebra Date Drilled: November 22, 2008 Completion Date: November 22, 2008 Permit #: NA

Drill Operator: Charlie

Drilling Method: HSA

Split Spoon/Acetate Sleeve Diameter: NA Split Spoon/Acetate Sleeve Length: NA Soil Classification System: USCS/Burmister

Drill Rig Type: GeoProbe 6620DT

Sampling Method: Macro Core

Field Screening: PID 10.6 eV Lamp (ppm)

Lattitude: NA Surface Elevation: NA Total Depth: 20 fbg

Longitude: NA Borehole Diameter:7 in. Well Diameter: 2 in.

Top of Bentonite Seal: 3 fbg Type of Seal: Cetco Granular

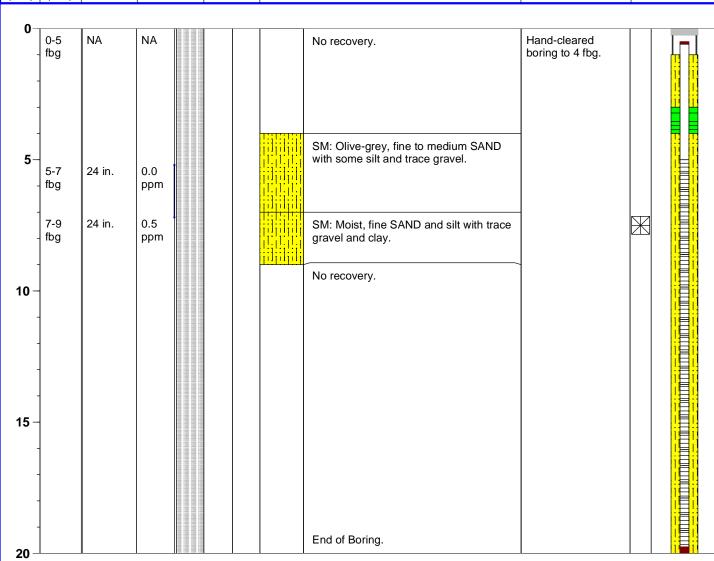
Refusal Depth: NA Initial Depth to Water: NA Static Depth to Water: NA

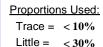
Top of Sand: 4 fbg Riser Length: 4.5 ft Sand Type: #2 Screen Slot Size: 10

Well Material Type: Schedule 40 PVC

Screen Length: 15 ft Top of Grout: NA

Well Sample Field Depth Recovery Blow SAMPLE LITHOLOGY Completion Comments Interval Screen Counts (inches) (ppm) Detail (feet) (feet)





Some = < 50%

and =

NA = not available; fbg. = feet below grade in. = inches; ft.= feet; ppm.= parts per million Soil Lithologies based on field observations only. Blow Count Pentration Resistance:

0 - 4 = Very Loose5 - 9 = Loose

10 - 29 = Medium Dense30 - 49 = Dense

50 + = Very Dense

Symbols:

Apparent Water Level



