21 September 2007 ERM Reference: 0051545

Brian Monahan Conservation Administrator Wayland Conservation Commission Town Building Wayland, MA 01778

Re: Inspection Report #7: 10 through 21 September 2007

Former Raytheon Facility 430 Boston Post Road DEP File No. 322-647

Dear Mr. Monahan:

Environmental Resources Management (ERM) is pleased to provide the Wayland Conservation Commission (Commission) with this Inspection Report for Northern Area Excavation activities at the Former Raytheon Facility at 430 Boston Post Road in Wayland, Massachusetts (Site). This report is submitted in accordance with the Order of Conditions for Massachusetts Department of Environmental Protection (DEP) File Number 322-647 dated 8 August 2006.

INSPECTION REPORT #7

Special Conditions 31 and 32 of the Town of Wayland Wetlands and Water Resources Permit Chapter 194 (Chapter 194) and Special Conditions 47 and 49 of Attachment A to the Wetlands Protection Act Form 5 Order of Conditions (WPA) require that a registered Professional Engineer perform weekly inspections of the work activities and certify in bi-weekly reports that those activities are in compliance with the Order of Conditions. The following information summarizes work performed between 10 and 21 September 2007.

Work Performed During Period

Extraction of the sheet pile began on 10 September using an excavator with a vibratory hammer (Appendix A, Photographs 1 and 2). As each sheet was lifted out of the ground, any soil adhering to the sides was scraped off with hand tools. This soil brought up on the sheets was

Environmental Resources Management

399 Boylston Street, 6th Floor Boston, MA 02116 (617) 646-7800 (617) 267-6447 (fax)



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contained with polyethylene sheeting in place and will be transported off Site for disposal.

Removal of the sheet pile continued in this manner through 21 September, averaging 11 sheets per day. Once removed from the ground the sheets were placed inside the excavation to await decontamination.

Soil from Stockpiles I and J (Figure 1) was loaded for disposal as non-hazardous waste at Turnkey Recycling and Environmental Enterprises (Turnkey) in Rochester, New Hampshire beginning 13 September. By 19 September, 63 truckloads had been removed from the Site, each averaging 30 to 35 tons. At the end of this reporting period, the only soil remaining for off-Site disposal was contained in Stockpile I and inside the excavation (material brought up with the sheets). This volume is approximately 120 cubic yards.

Eleven of the decontaminated Tundra mats (used to provide a workable surface at the bottom of the excavation) were removed from Site on 10 September. There are five mats remaining on site, two of which have not yet been decontaminated.

Sixty cubic yards of clean topsoil from NewLand Farm of Norton, Massachusetts was brought onto Site on 19 September and stockpiled in the northern part of the parking lot (Appendix A, Photograph 3) and covered with a tarp. The topsoil will be used in the wetland restoration area. Certification that this soil is contaminant and invasive species free will be provided in the next inspection report.

Only minor water treatment activities were conducted during this period. These activities consisted of treating and moving water to the two "clean" fractionation tanks to create as much capacity as possible in the two tanks comprising the untreated side of the system. This capacity will be needed to allow collection of wash water from sheet pile and Tundra mat decontamination activities.

Approval of the Notice of Change (NOC) for the Remediation General Permit was received from the United States Environmental Protection Agency (USEPA) on 19 September. As described in the previous Inspection Report (ERM, 7 September 2007), the NOC was filed to request permission to relocate the water treatment system discharge from the catch basin adjacent to the system to direct discharge to the Sudbury River. Discharge to the river will allow use of a greater dilution factor for the concentrations of naturally-occurring arsenic and copper in the

system effluent. Water discharge is not anticipated until the sheet pile and tundra mat decontamination is completed.

Throughout the reporting period a mechanical sweeper was used to clean the parking lot of remaining soil and prevent soil from tracking off Site (Appendix A, Photograph 5).

Alicia Kabir conducted the weekly Professional Engineer's inspections on 12 and 21 September. No items or procedures were identified as out of compliance with the Order of Conditions during the Site visits.

In addition to the major activities detailed above, several other tasks were completed as required by the Order of Conditions:

- Daily inspections of the sedimentation controls have been performed. Records of these inspections are kept with the Daily Site Logs in Appendix B. Sufficient supplies of silt fence and straw bales are maintained on Site to allow for corrective action and maintenance activities per WPA Condition 50 and Chapter 194 Condition 42.
- Equipment is being refueled in accordance with the Refueling Plan provided in the Response to Order of Conditions as stipulated in WPA Condition 39 and the Amendment to Refueling Plan provided in Inspection Report #3. Sufficient spill containment supplies are maintained at the refueling area and near each piece of heavy equipment.

Items Not in Conformance with Order of Conditions During Period

• Items on Site were in conformance with the Order of Conditions during this reporting period.

ERM will continue to comply with the Order of Conditions and will inform the Commission of any significant deviations in the schedule or work plan.

If you have any questions or comments please contact the undersigned at (617) 646-7800.

Sincerely,

Jeremy J. Picard, P.G. Senior Project Manager Jason D. Flattery Project Engineer

Encl:

Figure 1

Stockpile Locations

Appendix A

Site Photographs

Appendix B

Daily Site Logs: 10 to 21 September

Cc:

Louis Burkhardt, Raytheon Company

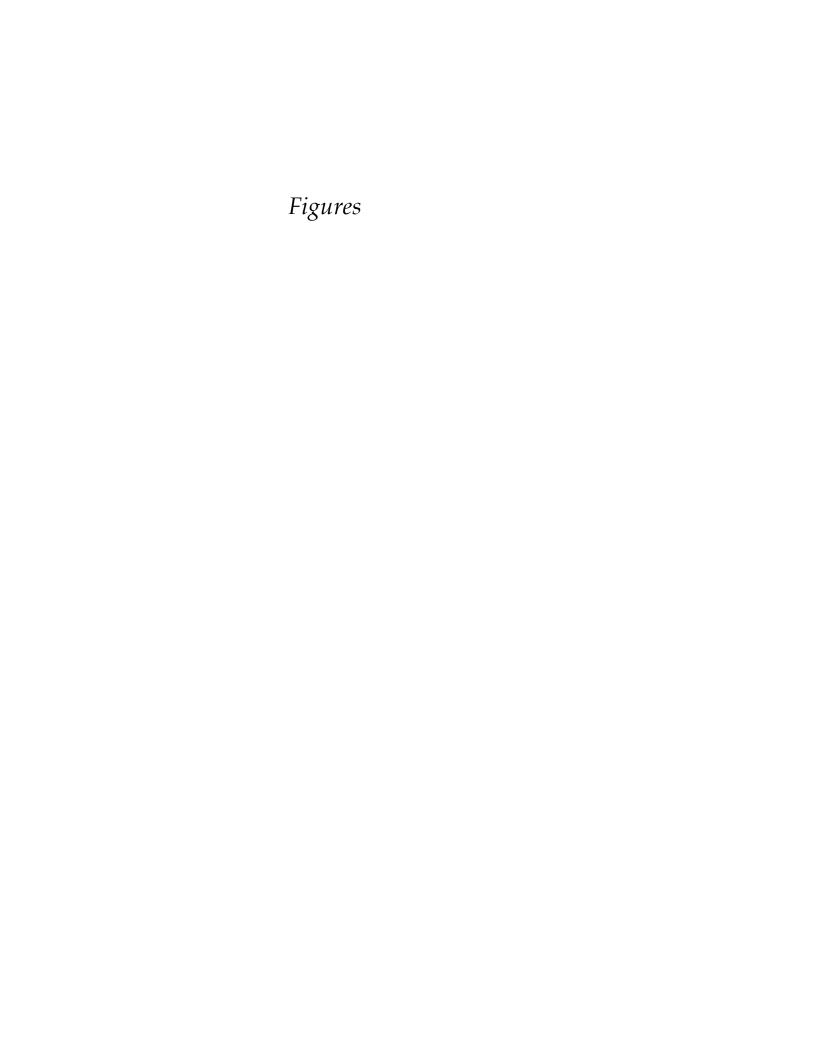
Public Repositories

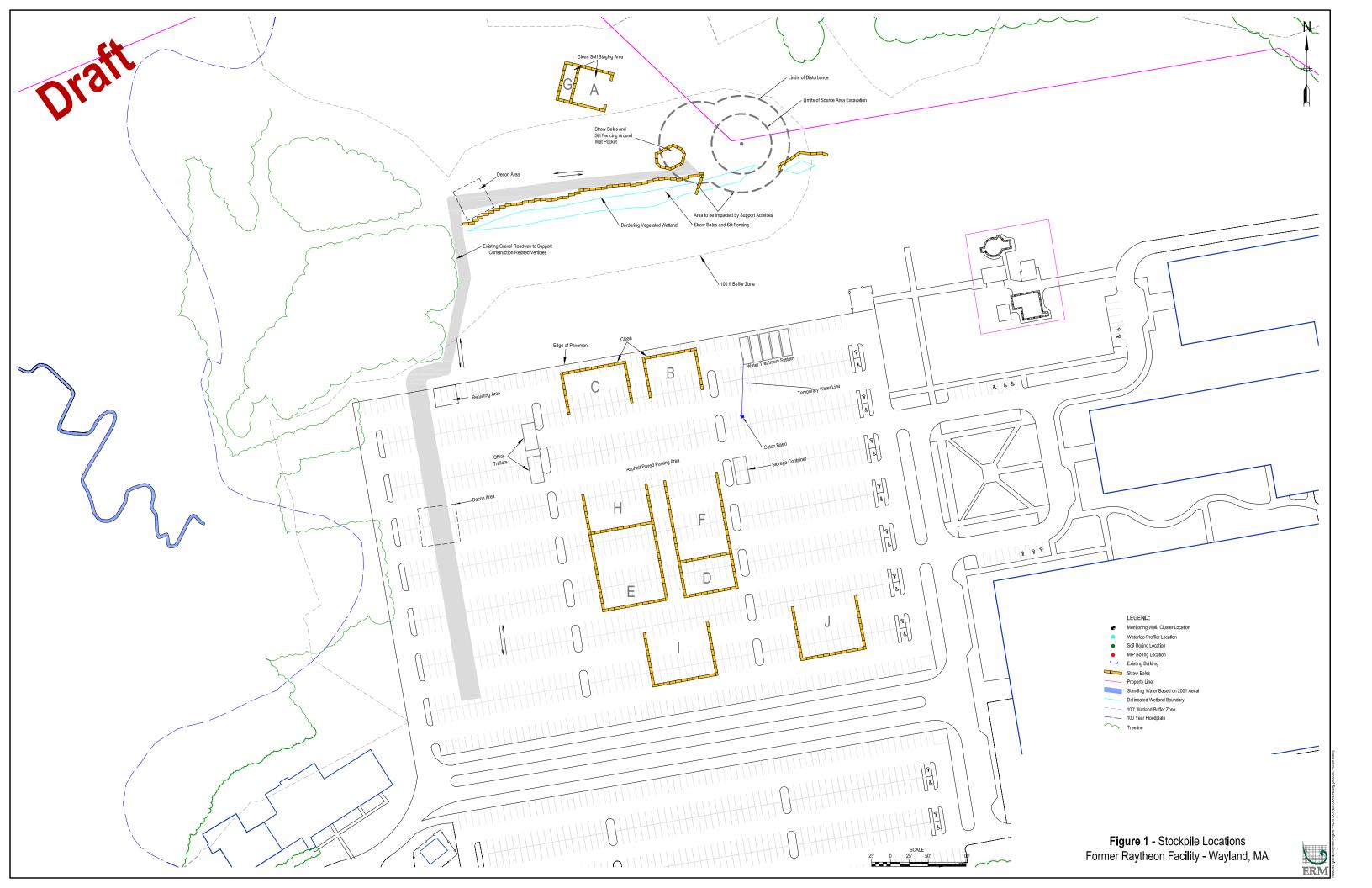
Ben Gould, CMG Environmental

As required by WPA Conditions 47 and 49 and Chapter 194 Conditions 31 and 32, I certify based on my observations during Site visits on 12 and 21 September 2007 and conversations with ERM field representatives that, to the best of my knowledge, work (except for any exceptions noted above) has been conducted in accordance with the Order of Conditions for DEP File Number 322-647.



Alicia Kabir, P.E. Professional Engineer MA License #46671





Appendix A Site Photographs



Photograph 1 – Initial Sheet Pile Removal



Photograph 2 – Continued Sheet Pile Removal





Photograph 3 – Delivery of Wetland Topsoil



Photograph 4 – Loading Soil From Stockpiles for Disposal





Photograph 5 – Sweeping Parking Lot and Former Soil Staging Areas



Appendix B Daily Site Logs: 10 – 21 September



Date: Start Time:	9/10/07		End Time:	16:30
Personnel ERM:	HAnzenberger,	BMassihz	edegan,	SFLAHERY
Other Personnel:	,	ar. RiMano J. Hackott	jardi Zam, TMu-	to
Visitors:	Carlo Motor Exp	oress (steel	pipe deliver	y), Taylor
Equipment On Site Type LOUGE EXCAVATOR Severator Welder Vater Treator	MACE/MODEL Operating Company Kom atsu WA Caterpillar 3) MQ Paver WA Lincoln 257 Ment System Elgin Premier	30,345,307 Dispervat	51.75- 14.16 45	Sanjon
Describe Activities:	- A4	D.	ad 16 Nag	als () an
Cofferdam	Those Mays From and brushed off	in prepurat	hàn for pour	rushing.
pipe for	was broken/cracke	a in the p	Deliva	red steel





Are silt fence, hay bails and wooden stakes intact?		MES
Have soils/sediment been deposited in any wetland areas?	-	NO
If yes, was it removed and how? Please describe below.	-	MA
Is there evidence of erosion along access road?	-	M
If yes, please describe below.		
Please note any corrective actions taken.		
/		
Field Supervisor Name (Printed):	Bahaar Massinzadega	N
(Signature):	Ba Th	



Date: Start Time:	9/11/07	End Time:	15:50
Personnel ERM:	BMassitzadegan, HAnzen &	perger	
Other Personnel:	MT: (Joses Dsyriac, RMarg) Union: BMc(arthy, I Hackett, A		
Visitors:	Taylor Fuel Oil, Branch	n Brook Truck	
Equipment On Site Type Loa der Excavator Senerator Welder Water Treaty Weeper	Make/NoDEL Operating Company Komatsu WA380 Catenpillar 330,345,30 Ma Power Whisperwa Lincoln 250 ment System Elgin Premier felican	# 151.75- it 14.10 45	Scanton
Describe Activities: Removed off sheet pressure w	12 sheets from excavation , s and staged in cofferdom , ashing.	or lo pairs.	Brushed Br



Wayland, Massachusetts	9/11/07	ERM
Are silt fence, hay bails and wooden stakes intact? Have soils/sediment been deposited in any wetland areas? If yes, was it removed and how? Please describe below. Is there evidence of erosion along access road? If yes, please describe below.		MES NO N/A NO
Please note any corrective actions taken.		
Field Supervisor Name (Printed):	BAHAAR MASSIHZADEHAN	
(Signature):	Bory	



Date: Start Time:	9/12/07	End Time:	17:00
Personnel ERM:	BMassinzadegan Akabir	:HAnzenberger,	STATTERY,
Other Personnel:	MT: CJones, Dignal, UNION: BMclarthy, A	emargiardi Laim, THackett, JML	uto.
Visitors:	TPisanelli (MT) The pickup (Ca+307), Tay	ongcor Maxymillia! Ior Oil Co.) Delivery +
Equipment On Site Type LOUCE EXCAVATOR Senerator Velder Nater Treating Weeper	MARCE/MODEL Operating Company Komateu WA 3BO Caterpillar 330 Ma Power Whisper Lincoln 250 Ment System Elgin Premier Pe	0,345,30751,75- nvati 14,16 45	MT Scanlon
Describe Activities: Dumped SII removing s Coffeeda	t residue from floctory helt pile: 12 Sheet	s removed and stag	inved jed in

Northern Area Excavation Former Raytheon Facility Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?

Have soils/sediment been deposited in any wetland areas?

If yes, was it removed and how? Please describe below.

Is there evidence of erosion along access road?

If yes, please describe below.

Please note any corrective actions taken.

NA

Field Supervisor Name (Printed):

Buhuar Musih zadegon

(Signature):



Date: Start Time:	9/3/07	End Time:	16:30
Personnel ERM:	JFlattery HAnzen	verger, B.Massinzadeg)an
Other Personnel:	MT: CTONES, DSyno Union: BMC(ashy, AZo	uc Bemangiardi um Thallott TMut	0
Visitors:	Scanton Sweeping,	Trucks dupatched	from Amental
Equipment On Site Type Older XCAVAFOR Aenerativ Nelder Vater Treatm Weeper	Lincoln 250 Elgin Premjer)345 51.75 Spennatt 14.16 45	Number MT Scenton
Describe Activities: 13 sheets In exeavation in Romesi	were removed from. M. 20 loads of soil; ter, NH from Stock pi	exeavation, brushed were disposed of	of and staged at Turnkey

Northern Area Excavation Former Raytheon Facility Wayland, Massachusetts



9/13/07

		: 1
Are silt fence, hay bails and wooden stakes intact?	_	MES
Have soils/sediment been deposited in any wetland areas?	_	NO
If yes, was it removed and how? Please describe below.		NA
Is there evidence of erosion along access road?	_	NO
If yes, please describe below.		
Please note any corrective actions taken.		
/		
Field Supervisor Name (Printed):	BAHAAR MASSIHZADEBAT	√
	10 1	
(Signature):	16 el	



Date: Start Time:	9/14/07		End Time:	14:30
Personnel ERM:	BMassinzadeg Janharki	an, HAnzen	berger, Ja	lattery.
Other Personnel:	MT. CTones, DSC Union: BMcCarthy	ina GRMangi AZaim, IHU	ardi Wett, TMU	10
Visitors:	Brian Monahan Conservation Com Tractor Trutter o	. X C	_	ra Howell Comatsu Repairs.
Equipment On Site Type LOUGE Excavator Grenerator Welder Water Treat Neeper	Caterpillar MQ Power Lincoln 25 tment System	MA 3BD 330345 Whisperwatt 50	# 51,75 14,16 45	OP-CO. Number MT Scanlon
Describe Activities: 9 Me	ets were pulled of soid in stock	from coffeda cpile Ja+7	n. 11tnic urnkeyin	kloads RouhesterM





Are silt fence, hay bails and wooden stakes intact?	MES
Have soils/sediment been deposited in any wetland areas?	M
If yes, was it removed and how? Please describe below.	NA
Is there evidence of erosion along access road?	NO
If yes, please describe below.	
Please note any corrective actions taken.	
	AND
Field Supervisor Name (Printed): Bahaar Massinzadegan	
(Signature):	



Date: Start Time:	9/17/07		End Time:	15:30
Personnel ERM:	BMassinzadegan. JPicard	HAnzenba	ergerJHa-	tteny,
Other Personnel:	MT: CTONES DS Pra UMON: BMelerthy. A	+ RMangia Zaim, Ma	rdi Wett, JMuto	
Visitors:	TractorTrailers (Dig	noteized from A	mentach)	
Equipment On Site Type Liouder Excavator Generator Welder Nater Treat Sweeper	Comatsu WA Catemillar 381 MQ Rover W Lincoln 250 Tment System Elgin Premier	1380 D345 hisperwatt	± 51,75 14,16 - 45	MT Scanlon
Describe Activities: Transport For Further	ted 11 loads of vere pulled from ex or power washing.	Soil from	Stockpi nd staged	le J. in coffedam

Northern Area Excavation Former Raytheon Facility Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?	YES
Have soils/sediment been deposited in any wetland areas?	<u>No</u>
If yes, was it removed and how? Please describe below.	_ NA
Is there evidence of erosion along access road?	NO
If yes, please describe below.	
Please note any corrective actions taken.	
Field Supervisor Name (Printed):	BAYAAR MASSIHZADTECHN
(Signature):	BILM

9/17/07



Date: Start Time:	9 18 07	End Time:	17:00
Personnel ERM:	BMassihzaclegon, H. JDnobinski	Anzenberger, JF	lattery,
Other Personnel:	MT: CJones, DSyria UMON: BMCCathy, AZ	e R Mangrardi aim , I Hackett, J	Muto
Visitors:	Tractor Trailers (Newand Farm, Scanlon	Dispatched from Sweeping, Taylor C	Amentech),
Equipment On Site Type OULLEY EXCUVATOR Senerator Neldex Vater Treut	Konatsu WA 3 Catepitlar 330 MQ Paver Whisy Lincoln 250 Tment System Elgin Premier	14,16 14,16 45	MT Scarlar
Describe Activities: [Sheets SP-J has Semoral Well (collecting N	were pulled 14/00 been removed entire ding hole in flow tonk to ster)	ds were disposed by and 7 loads or we up pressure v	d of offsite. from SP-Iwell washing smoots

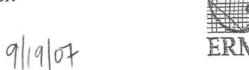




Are silt fence, hay bails and wooden stakes intact?		YES
Have soils/sediment been deposited in any wetland areas?	_	MO
If yes, was it removed and how? Please describe below.		NA
Is there evidence of erosion along access road?		M
If yes, please describe below.		
Please note any corrective actions taken.		
Field Supervisor Name (Printed):	BAHAAR MASSIHZADELLAN	
(Signature):	Bah	



Date: Start Time:	9/19/07	End Time:	15:50
Personnel		.) .	
ERM:	BMassinzadego JPicard	an, HANZENBERGE	R, JEGGYERY
Other Personnel:	MT: CJONES, DSyni UMON: BMClarthy	al, RMorgiardi Azaim, I Hackett, S	Muto
Visitors:	TPisanelli (MT), from Amerteun), M. (hopsil), Scentin	Tractor Trailed for offe axymillial Ack up, New	sje desposal (Dispetch Lord Famer Delivery
Equipment On Site	***************************************		
Туре	Operating Company	=	Number
buder	Komatsu WA	380 -	MT
Exeavator	Caterpillar.	380.345 51.75	
Severator	MQ Power U	Mopernatt 14,16	
Neider	Lincoln 25	D -	
Vater Trea	tment system	45	4
Sweeper	Elgin Prem	ner Pelican -	Scanlon
,	J		
Describe Activities:	add despoted of a	feit alestin	e-T I Span co-c
Stockwile I	has been composely	removed 10 Sheets running and staged injury	empred a lot yell
of topsal w	a delivered for exeave	his and staged inviund	m of SPB. Cat330
offsite.			



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Are silt fence, hay bails and wooden stakes intact?		YES
Have soils/sediment been deposited in any wetland areas?		MO
If yes, was it removed and how? Please describe below.		NA
Is there evidence of erosion along access road?		NO
If yes, please describe below.		
Please note any corrective actions taken.		
Field Supervisor Name (Printed):	BAHAAR MASSIHZADEGAN	
(Signature):	Bala	



Date: Start Time:	9/20)07	End Time:	15:00
Personnel ERM:	BMassitradegan, J	FLATTERY, JDrobin	ncki
Other Personnel:	MT: CJones, DSyrial, RM Union: Bruchathy, AZar		70
Visitors:	Sweep scape, TMaxi	millian (MT),	BFI
Equipment On Site Type Loader Excavator Generator Nelder Noter Treat Freeper	Komatsu WA 38 Caterpillar 345 MQ Power Whisper Lincoln 250 ment System Elgin Premier Pe	75 watt 14,16 -	Scanion
Describe Activities: Moved Sey to create	re soil from SP-A to a a steady surface for s were removed to	SW corner of co exercator to sit	offedan On.

Northern Area Excavation Former Raytheon Facility Wayland, Massachusetts



Are silt fence, hay bails and wooden stakes intact?		MES
Have soils/sediment been deposited in any wetland areas?	_	MD
If yes, was it removed and how? Please describe below.	_	N/A
Is there evidence of erosion along access road?	_	NO
If yes, please describe below.		
Please note any corrective actions taken.		
//:		
Field Supervisor Name (Printed):	BAHAAR MASSIHZADEGAN	
	21	
(Signature):	10 Ja /h	

9/20/07



Date: Start Time:	9/21/07	End Time:	1345
Personnel ERM:	BMassihzadegan, AKabir		
Other Personnel:	MT: CJones, Drynoc, R. Maro Umon: BM Coarthy, Azaim, It	hardi Lacketti JMU	to
Visitors:			
Equipment On Site Type LOUGE	Conatsu WA 380	-	Number MT
Exeavator Generator	MQ Paver Unispense Lincoln 250	75 xtt 14.16	
Nater Trea Sweeper	tment system Eigin Premier Pelica	45 N -	Scanlon
Describe Activities: Finished (e)	noving sheetpill from exeava	tión.	

Northern Area Excavation Former Raytheon Facility Wayland, Massachusetts



9/21/07

	1 1	
Are silt fence, hay bails and wooden stakes intact?	_	MES
Have soils/sediment been deposited in any wetland areas?	<u> </u>	MO
If yes, was it removed and how? Please describe below.	_	NA
Is there evidence of erosion along access road?	_	NO
If yes, please describe below.		
Please note any corrective actions taken.		
Field Supervisor Name (Printed):	Bahaar Marribzadayan	
(Signature):	Ma	