From: Belaval, Marcel <Belaval.Marcel@epa.gov>

Sent on: Tuesday, October 5, 2021 4:33:57 PM

To: Driscoll, Keith J NFG NG MAANG (USA) <keith.j.driscoll.nfg@mail.mil>

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Downing, Jane <Downing.Jane@epa.gov>; leonard.pinaud@mass.gov

Subject: Questions/requests for MPMG Range EPA SSA review

Attachments: Questions for MAARNG MPMG Range SSA Review Oct2021.pdf (129.02 KB)

Hi Keith,

Attached please find a list of questions related to the Phase 1 buildout of the proposed MPMG Range.

I realize that some of these questions/info requests require more time than others. Please feel free to send responses back in stages if that is helpful. As always, please reach out by phone or email if you have questions, need additional information, or would just like to talk through some of these topics to get a better sense for what we're looking for.

Once you have a chance to review the questions/info requests please let me know what timeline you think may be required for responses.

Thanks,

Marcel

Marcel Belaval

Hydrologist, <u>USEPA New England</u> 617.918.1239

EPA Sole Source Aquifer Review of the Proposed Multi-Purpose Machine Gun Range for Joint Base Cape Cod Preliminary Questions and Information Requests (Phase I only)

10/5/2021

Category	#	Question/Request	EPA Comment
Design	1	List all weapons and other devices to be used.	
Design	2	What are the projected total number of weapons (for each type) and pyrotechnic devices to be used in an average use day, a maximum use day, and annually?	
Design	3	Describe the components and associated mass for all ammunitions for each weapon type.	The Draft OMMP provides a diagram of one type of ammunition. Please provide similar diagrams for all type of ammunition used.
Design	4	For each type of ammunition, provide the total number of rounds per day expected to be fired for each weapon (in average use and maximum use scenarios)	
Design	5	List the constituents of the propellants, primers, bullets, and cartridge cases for all weapons systems and bullets proposed for use on the range. List the constituents of tracers, flares, and simulators that are proposed for use on the range.	EPA acknowledges MAARNG's related response to Comment #900 in the document "Environmental Assessment for the Proposed Construction and Operation of a Multi-Purpose Machine Gun (MPMG) Range, Camp Edwards, Joint Base Cape Cod, Massachusetts Public Review Comments 8 August - 7 September 2020." However, this response did not provide the information requested.
Design	6	How will stormwater be managed to minimize contaminant mobilization and transport during construction and operation (e.g. within bullet collection systems/berms)?	
Design	7	Provide the 90% Design Plan (or most current design plan) for the proposed range, including drawings of bullet capture systems (if any proposed), drawings showing locations and types of berms, descriptions of berm construction, etc.	
Design	8	Provide Appendices to the Notice of Project Change (not provided online).	
Design	9	Describe any threats to soil and groundwater that exist outside the MPMG Range Area but within the Surface Danger Zone	
O&M	1	What recycling plans will be instituted, including products, storage, metal stockpiles, recycling facility, and location and frequency of	EPA acknowledges MAARNG's related response to Comment #904 in the document "Environmental Assessment for the

		recycling. What BMPs will be used to minimize releases during recycling and storage procedures?	Proposed Construction and Operation of a Multi-Purpose Machine Gun (MPMG) Range, Camp Edwards, Joint Base Cape Cod, Massachusetts Public Review Comments 8 August - 7 September 2020." However, specific BMPs were not described in the response or in the referenced Draft OMMP.
O&M	2	What is the projected general efficiency with which the projectile removal process eliminates the source of metals (projectiles) on the ranges, based on the total mass of metals removed from the range compared with the total computed mass of bullets fired on the range? Provide any relevant and and/or scientific studies.	
O&M	3	The Draft OMMP states that projectiles will be removed after 500,000 rounds or every 5 years, whichever is first. Is that amount per lane or range? What is the basis for the 500,000 rounds criterion? Based on projected use, what is projected frequency of projectile removal?	
O&M	4	What procedures and locations will be used to clean weapons, including types of cleaning materials and storage? Describe associated BMPs to minimize contaminant releases.	EPA acknowledges Draft OMMP Section 2.1 includes general procedures related to weapon cleaning. More detail is needed.
O&M	5	Draft OMMP (Section 8.1.3) states that projectile pockets will be checked monthly to see if fragmentation is occurring. The OMMP also states, " select projectile pockets will be excavated by hand to see if fragmentation is occurring." Are these the same procedures to be done monthly or different procedures at different schedules?	
O&M	6	Draft OMMP Section 9.6.1. states, "Surface soil action levels for lead, copper, and antimony are set using selected concentrations from the Massachusetts Contingency Plan." Provide a basis for how concentrations were "selected" for each metal.	
O&M	7	Are there specific SOPs and/or BMPs written to cover range activities? If so, provide a copy of all SOPs and/or BMPs applicable to activities on the MPMG Range.	
O&M	8	Will fire suppressant chemicals be used on the MPMG Range? If so, provide chemical information. If fire suppressant chemicals will not be used, provide an SOP/BMP reference prohibiting their use.	
Monitoring	1	Provide Figure 9.1 for Draft OMMP	
Monitoring	2	Provide construction information for all proposed monitoring wells, including depth of screened intervals.	
Monitoring	3	The Draft OMMP was provided to EPA with a file named "MPMG Well Modeling.jpg". How were water table contours in this image generated? If modeled, provide model description and QA	

		documentation including process for calibrating and verifying model with field data.	
Monitoring	4	What was the basis used for designing the monitoring well network, including number existing and/or new wells, construction (e.g. screened interval), and locations? Is there a plan for adaptive management of groundwater monitoring in response to evolving site conditions?	
Monitoring	5	Describe why plans for porewater monitoring are deleted in the Draft OMMP	
Monitoring	6	Provide information about baseline conditions (e.g. contaminant concentrations, groundwater levels, etc) for contaminants of concern within the MPMG Range area, including surface soils, subsurface soils, porewater, and groundwater.	
Monitoring	7	Soil resampling in the KD Range was required under the EPA September 2015 Decision Document. Provide results from this sampling.	EPA acknowledges MAARNG's related response to Comment #901 in the document "Environmental Assessment for the Proposed Construction and Operation of a Multi-Purpose Machine Gun (MPMG) Range, Camp Edwards, Joint Base Cape Cod, Massachusetts Public Review Comments 8 August - 7 September 2020." EPA is requesting data and/or reports which informed this comment response.
Monitoring	8	Draft OMMP Section 9.5 states that subsurface soils may be monitored if surface soil results show "increasing" trends or exceedance of OMMP action levels. How will you determine increasing trends? Over what time interval?	
Monitoring	9	If subsurface soils are sampled pursuant to question 8, above, what are the specific plans and time frames?	

Category	#	EPA Question/Request	EPA Additional Comment	MAARNG Response
Design	1	List all weapons and other devices to be used.		The M-249, M240B are the weapons approved for use on the MPMG range and approved for use on other ranges in the Northern Training Area.
Design	2	What are the projected total number of weapons (for each type) and pyrotechnic devices to be used in an average use day, a maximum use day, and annually?		Estimated Average Weapons Use (1 Range day): M240: 10, M249: 10 Estimated Max Weapons Use (1 Range day): M240: 32, M249: 44 Estimated Annual use: M240: 350, M249: 700 No pyro use estimated nor is it part of the request to the EMC. Numbers are based on existing force structure in MA. Annual use factors and estimation of extra weapons from out of state units. All estimations are based on a maximum use case from all units and does not account for Soldiers either not being assigned a weapon or deployed.
Design	3	Describe the components and associated mass for all ammunitions for each weapon type.	The Draft OMMP provides a diagram of one type of ammunition. Please provide similar diagrams for all type of ammunition used	See data sheets for Design #5 for components and associated mass. Only 5.56mm and 7.62 mm Enhanced Performance Round (EPR) (Copper Rounds) will be used on the range. See 7.62 mm Schematic (attached).

Design	4	For each type of ammunition, provide the total number of rounds per day expected to be fired for each weapon (in average use and maximum use scenarios)		Estimated 5.56 EPR ammunition per range day: 11,100 Estimated 7.62 EPR ammunition per Range day: 8,800 Estimated Max Ammunition Use (1 Range day): 5.56: 48,400, 7.62: 25,600 Estimated Annual use: 5.56: 770,000, 7.62: 280,000
				Ammunition estimates are based on TC 3-22.240 (7.62) and TC 3-22.9 (5.56) from the number of weapons provided in question Design 2. Please note that this is an estimated maximum use estimation.
Design	5	List the constituents of the propellants, primers, bullets, and cartridge cases for all weapons systems and bullets proposed for use on the range. List the constituents of tracers, flares, and simulators that are proposed for use on the range.	EPA acknowledges MAARNG's related response to Comment #900 in the document "Environmental Assessment for the Proposed Construction and Operation of a Multi-Purpose Machine Gun (MPMG) Range, Camp Edwards, Joint Base Cape Cod, Massachusetts Public Review Comments 8 August - 7 September 2020." However, this response did not provide the information requested.	See attached (Attachment 1) for Ammunition Constituent Data for 5.56mm and 7.62mm ammunition to be used for the MPMG. Tracer rounds included. The tracer composition for the 5.56mm EPR is R-258, the specific constituents are not provided on the attached data sheet. The MAARNG has a request in to the Joint Munitions Command for the formulation to be provided. The tracer composition in the rounds to be used at the MPMG is primarily strontium salts, strontium peroxide, strontium nitrate, and magnesium (Attachment 1). Flares and simulators are not used or required for qualification at an MPMG range.

Design	6	How will stormwater be managed to minimize contaminant mobilization and transport during construction and operation (e.g. within bullet collection systems/berms)?	A construction and operational stormwater management plan has been specifically designed for the MPMG in compliance with Massachusetts Stormwater regulations (previously sent to EPA). The design of the MPMG includes individual backstop capture berms behind every target in an effort to capture and contain to the maximum extent practicable. See General Notes Sheet C-001 of the design drawing and see Section 8.1 and 8.2 of the draft OMMP for berm maintenance and erosion.
Design	7	Provide the 90% Design Plan (or most current design plan) for the proposed range, including drawings of bullet capture systems (if any proposed), drawings showing locations and types of berms, descriptions of berm construction, etc.	Provided
Design	8	Provide Appendices to the Notice of Project Change (not provided online).	Appendices will be forwarded via DoD SAFE

Design	9	Describe any threats to soil and		Within the surface danger zone (SDZ),
Design	9	•		
		groundwater that exist outside		the potential threats to groundwater
		the MPMG Range Area but within		are legacy in nature, have been
		the Surface Danger Zone		identified, are actively being treated
				and remediated through the Impact
				Area Groundwater Study Program
				(IAGWSP), and are not be from the
				proposed MPMG (Attachment 2). The
				threats are an oxidizer (potassium
				perchlorate) and an explosive (RDX)
				from past artillery firing. These same
				constituents are a concern from past
				contractor ranges and are in close
				proximity to the SDZ; however, in both
				these cases, ground water flow is away
				from the SDZ.
O&M	1	What recycling plans will be	EPA acknowledges MAARNG's	The recycling and storage process will
		instituted, including products,	related response to Comment #904	be conducted outside of the reserve
		storage, metal stockpiles,	in the document "Environmental	and be part of the QRP program. Once
		recycling facility, and location and	Assessment for the Proposed	rounds are harvested they will be
		frequency of recycling. What	Construction and Operation of a	stored in closed containers for storage
		BMPs will be used to minimize	Multi-Purpose Machine Gun (MPMG)	in the QRP yard pending disposition.
		releases during recycling and	Range, Camp Edwards, Joint Base	The time Quit you a persuang anaposition
		storage procedures?	Cape Cod, Massachusetts Public	
		Storage procedures:	Review Comments 8 August - 7	
			September 2020." However, specific	
			BMPs were not described in the	
			response or in the referenced Draft	
			OMMP.	

O&M	2	What is the projected general	The projected general efficiency is
		efficiency with which the	estimated to be ~90%. This is due to
		projectile removal process	the implementation of capture
		eliminates the source of metals	(auxiliary) berms behind the targets,
		(projectiles) on the ranges, based	which is a unique design feature that
		on the total mass of metals	has received input and comment from
		removed from the range	the EMC.
		compared with the total	When added with the information on
		computed mass of bullets fired on	the number of rounds fired on a
		the range? Provide any relevant	particular range based on RFMSS data
		and and/or scientific studies.	(found in the State of the Reservation
			Report) there is good information on
			how many total rounds are available
			for harvest. During the harvest,
			procedures for projectile removal
			include excavation and sieving to a
			depth where projectile metals are no
			longer found. The material is then
			moved out of the reserve to our
			Qualified Recycling Program yard for
			disposition. Due to the corrosion of
			the steel penetrator, the ability to
			conduct an exact mass balance is
			compromised. However, during a
			harvest a rough estimate can be made
			by with the known weight of the steel
			penetrators.
	<u> </u>		

O&M	3	The Draft OMMP states that	1. Based on joint inspections by the
UQIVI	3		
		projectiles will be removed after	MAARNG and the EMC, projectile
		500,000 rounds or every 5 years,	removal will be by range. However, if
		whichever is first. Is that amount	identified during inspections by either
		per lane or range? What is the	the MAARNG, EMC, or both, an
		basis for the 500,000 rounds	individual lane or level of targets, e.g.
		criterion? Based on projected use,	50 meter targets all lanes, may be
		what is projected frequency of	closed for bullet harvest.
		projectile removal?	2. The 500,000 round criteria is a
			carryover from the STAPP system (a
			rubber, sandwiched, granulated bullet
			trap) Operations, Maintenance and
			Monitoring Plan (OMMP) and is used
			only as a placeholder for determining
			the appropriate projectile density for
			each individual range. The MAARNG
			has been working with the EMC EO at
			other ranges to determine the
			appropriate density for harvest
			projectiles. As stated above it may be
			determined that a partial harvest may
			be necessary at specific target levels,
			e.g. 50 meter targets all lanes. The
			MAARNG and the EMC will be
			performing a range harvest within the
			next training year to further refine
			knowledge on projectile density and
			harvest needs, i.e. expected
			frequency.
			3. The expected frequency of
			projectile removal at the MPMG will
			be determined with the EMC EO using
			information gleaned from other ranges
			and inspection results at the MPMG to
	1		and inspection results at the Million to

		assist in determining when the MPMG bullet pockets and individual backstop capture berms will need to be harvested for copper projectiles.

O&M	4	What procedures and locations	EPA acknowledges Draft OMMP	Weapons cleaning does not take place
OQIVI	4	will be used to clean weapons,	Section 2.1 includes general	on the ranges or in the Upper Cape
		including types of cleaning	procedures related to weapon	Water Supply Reserve. Units will
		materials and storage? Describe	cleaning. More detail is needed.	typically take their weapons to the
		associated BMPs to minimize	cleaning. More detail is fleeded.	1 ** *
		contaminant releases.		Training Support Center and use the
		contaminant releases.		weapons cleaning tanks or conduct
				weapons cleaning activities at their home armories. Units are issued a CLP
				bucket in order to lubricate weapons
				on the range before use. The
				procedure is outlined in Section 2.1 of
				the draft OMMP. Any trash or residue
				generated is sent to a satellite
				collection point out of the Reserve for
				disposition.
				Cleaning/lubricating/preservative
				compound (CLP) and other weapons
				maintenance, cleaning, and lubricants
				will be conducted in a manner that
				minimizes the potential for spills and a
				release to the environment. Personnel
				will sparingly use these products when
				maintaining their weapons. When CLP
				containers are not in use, dependent
				upon their size, will be kept on the
				soldier's person; or, when not in use
				these containers will have their lids on
				and should be placed in an
				appropriate container, like a drip pan
				or 5 gallon bucket. An appropriate
				container is one that will contain the
				product when the original container is
				compromised and/or if spilled. If
				cleaning materials are used on the

			range, such as rags, patches, and other cleaning materials, they will be thrown away into a separate plastic trash bag inside of an issued 5 gallon bucket labeled Waste Weapons cleaning material. The content of the bucket will then be inspected to determine appropriate disposition IAW Massachusetts Solid Waste Regulations (310 CMR 19.00) and/or Massachusetts Hazardous Waste Regulations (310 CMR 30.00.)
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O&M	5	Draft OMMP (Section 8.1.3)	"select bullet pockets will be
		states that projectile pockets will	excavated by hand to see if
		be	fragmentation is occurring" This
		checked monthly to see if	specific action will occur as
		fragmentation is occurring. The	determined by the EMC EO and in
		OMMP also states, " select	coordination with the MAARNG. The
		projectile pockets will be	range is inspected before and after
		excavated by hand to see if	each firing event. The range bullet
		fragmentation is occurring." Are	pockets are checked before each firing
		these the same procedures to be	event. If there is no firing during a
		done monthly or different	particular month, then the range will
		procedures at different	be checked at least monthly. Bullet
		schedules?	pockets are checked to ensure we do
			not have excessive fragmentation and
			that the frontal and individual
			backstop capture berms are in good
			working condition to capture
			projectiles as designed. Based on
			observations from other ranges the
			copper rounds disfigure but exhibit
			little to no fragmentation due to the
			nature of copper. Procedures will be
			the same for bullet pocket checks:
			visual, excavation, and sieving to
			determine a rough density.The
			MAARNG and the EMC EO will be
			conducting a copper projectile harvest
			test this Training Year to determine
			capture efficiency. This will also aid in
			determining project removal
			frequency as discussed in O&M #3

	1		
O&M	6	Draft OMMP Section 9.6.1. states,	The surface soil action level numbers
		"Surface soil action levels for	are based on the modeled potential
		lead, copper, and antimony are	for leaching to groundwater calculated
		set using selected concentrations	using proposed sampling areas and a
		from the Massachusetts	sample depth of 3". Surface soil action
		Contingency Plan." Provide a	levels initially had two action levels, 1
		basis for how concentrations	and 2. Currently, we default to the
		were "selected" for each metal.	Level 1 action level, and if there is an
			exceedence management actions may
			be taken. The surface soil action Level
			2 numbers are based on modeled
			potential for leaching to groundwater
			calculated using proposed sample
			areas of approximately 35m x 5m and
			a sample depth of 3 inches. Level 1
			numbers are derived by taking 50% of
			the Level 2 numbers and are
			established to ensure close monitoring
			of elevated analyte concentrations in
			surface soils. Based on the results of
			soil, lysimeter, and groundwter
			sampling Camp Edwards initiates
			range maintenance actions to prevent
			pollution of the environment, in
			coordination with the EMC. The need
			for maintenance actions will be
			indicated by comparing monitoring
			results to the action level. The action
			levels are subject to change as more
			information is developed on the
			leaching potential of metals and the
			effectiveness of the pollution
			prevention plan. These action levels

			will be periodically reviewed in coordintation with the EMC.
O&M	7	Are there specific SOPs and/or BMPs written to cover range	TC 3-20.40, CE Reg 350-1, TC 3-22.240, TC 3-22.9, and applicable OMMPs.
		activities? If so, provide a copy of	- , app
		all SOPs and/or BMPs applicable to activities on the MPMG Range.	

O&M	8	Will fire suppressant chemicals be used on the MPMG Range? If so,	It is unlikely that fire suppressant chemicals would be used within the
		provide chemical information. If	range footprint due to the vegetation
		fire suppressant chemicals will	conditions of a maintained range.
		not be used, provide an SOP/BMP	However, maintaining the potential for
		reference prohibiting their use.	use at the discretion of incident
			commanders is essential to safe and
			effective wildland fire management
			and the protection of life and
			property. The MAARNG and JBCC Fire
			Department maintain lists and files of
			safety data sheets and are developing
			a suppressant chemical SOP in
			coordination with the E&RC and EMC
			EO. This draft SOP addresses outlines
			appropriate use standards, reporting,
			and record keeping. • Attached,
			Novacool SDS used by JBCC FD. • The
			USFS Wildland Fire Chemical Systems
			office
			https://www.fs.fed.us/rm/fire/wfcs/in
			dex.php .
Monitoring	1	Provide Figure 9.1 for Draft	This information is yet to be
		OMMP	determined and coordinated with the
			EMC EO who has final approval
			authourity of the OMMP before the
			range can be operational. The figure
			will be included in the final OMMP.
Monitoring	2	Provide construction information	This information is yet to be
		for all proposed monitoring wells,	determined and coordinated with the
		including depth of screened	EMC EO who has final approval
		intervals.	authority of the OMMP before the
			range can be operational. Well
			location determination is being

			conducted in cooperation with the Impact Area Groundwater Study Program via the Army Corps of Engineers, Camp Edwards, and the EMC EO.
Monitoring	3	The Draft OMMP was provided to EPA with a file named "MPMG Well Modeling.jpg". How were water table contours in this image generated? If modeled, provide model description and QA documentation including process for calibrating and verifying model with field data	Water table contours in the image were developed by the Army Corps of Engineers (ACOE) coordination with and approval of the USEPA and MassDEP. This was an initial draft from the modelers at the ACOE through the IAGWSP. Well locations are determined in cooperation and with the approval of the EMC EO. All modeling information can be provided as the final process and decisions take place with the EMC EO.
Monitoring	4	What was the basis used for designing the monitoring well network, including number existing and/or new wells, construction (e.g. screened interval), and locations? Is there a plan for adaptive management of groundwater monitoring in response to evolving site conditions?	The determination for well placement will be determined by past data, on analogous ranges, past machine gun range use, bullet and primer constituents, anticipated lane use (e.g. middle lanes generally get higher use based on past range data) and with the knowledge from the IAGWSP for monitoring small arms ranges under USEPA AO2. Well placement at the firing line, mid, and down range will be decided in cooperation with and approved by the EMC EO. The OMMPs are living documents that will be updated as needed, necessary, and as information is identified that

			may help with monitoring, i.e. changing site conditions.
Monitoring	5	Describe why plans for porewater monitoring are deleted in the Draft OMMP	The porewater section of the OMMP needs revision and discussion with the EMC EO. Lysimeters will be used for range monitoring.
Monitoring	6	Provide information about baseline conditions (e.g. contaminant concentrations, groundwater levels, etc) for contaminants of concern within the MPMG Range area, including surface soils, subsurface soils, porewater, and groundwater	Prior to the range being used, an initial baseline sampling will take place for soil, porewater, and groundwater. This will take place in coordination with the EMC EO. Details on previous investigations and soil removal actions conducted by the Impact Area Groundwater Study Program (IAGWSP) at the KD Range can be found in the Small Arms Ranges Investigation Report (January 2014), the Final JBCC Training Areas Investigation Report (November 2017) and associated documents.

npact Area Groundwater Study am's (IAGWSP) Small Arms s (SAR) Investigation Report
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s (SAR) Investigation Report
ry 2014) and the SAR Decision
nent (September 2015)
mended resampling at one
on at KD Range near the parking
t the front of the range to
nine if the range met the
ards for no further action under
assachusetts Contingency Plan
ations. An Incremental Sampling
od (ISM) sample was collected
newly established 20' x 20' grid
4) were chromium was observed
ated concentrations in a
te sample collected in 1999.
nium concentrations in the three
ate ISM samples collected from
id were 52.2 mg/Kg, 54.0 mg/Kg
3.4 mg/Kg, which is below the
-1/GW-1 standard for total
nium (100 mg/KG) and no further
was required. A description of
mpling at the KD Range is
ed in a IAGWSP Project Note -
ing, Soil Removal and
oring at Small Arms Ranges (May
The results of soil sampling at
st are presented in Table 1 of the
nber 2014 Second Addendum to
ay 2014 Project Note. The
ated sampling grid and ISM
ing results are also shown on
ir of the manage

			Figure 9 of the draft Small Arms Ranges Completion of Work Report (April 2021). Note that this sampling location is outside of the layout of the proposed MPMG, approximately 1,500 feet south of the firing line.
8	Draft OMMP Section 9.5 states that subsurface soils may be monitored if surface soil results show "increasing" trends or exceedance of OMMP action levels. How will you determine increasing trends? Over what time interval?		After two annual samplings if there is an increasing trend of a constituent of concern then it is discussed with the EMC EO and a determination for actions to be taken will be made. In general if there is an increase, but not an exceedance of an action level, we will wait until the following sampling period to determine if an increase is occurring. If at that point there is a
	8	that subsurface soils may be monitored if surface soil results show "increasing" trends or exceedance of OMMP action levels. How will you determine increasing trends? Over what	that subsurface soils may be monitored if surface soil results show "increasing" trends or exceedance of OMMP action levels. How will you determine increasing trends? Over what

			sampling cycle the information will be discussed with the EMC EO and a determination will be made whether or not to sub surface sample.
Monitoring	9	If subsurface soils are sampled pursuant to question 8, above, what are the specific plans and time frames?	If it were determined that subsurface sampling was needed, then sampling would take place as soon as administrative processing can be completed. Technically no longer than a month for sampling unless identified by the EMC EO that sampling could take place at another point in time. For specific plans or methods see Section 9.5 of the draft OMMP.