# 304

			Project Information				
Project Title: Hyperspectral Sun			vey	Date:	7.23.2010		
	DOE Code: 6730.020.61031  Project Lead: V.Stamp			Contractor Code:	8067-523		
			SIMULATED				
1. 2. 3. 4.	Project O Brief project des anything that co environment] Legal location Duration of the p Major equipmen	conption [include uld impact the	Partner has contracted with an aviation provider to fly two optical in gas leaks of varying rates and liquid hydrocarbon "spills" created u unleaded gasoline and diesel. Two leak sites will be operated with flow rates of 20 scf/hr and 70 scf/hr. The other leak sites will use N Wells and field locations to be used include: Previously-constructed plant, wells 25-Stx-23, 37-MX-10, 85-AX-33, 27-AX-34, 44-MX-10, Roughly 4 days of field prep, and 2-3 days of flying contracted by pranufactured "spills" and various geologic features of NPR-3.  Forklift, flat bed truck, Bobcat, SG5 building for project storage.	sing two types of NPR-3 commercially provided PR-3 produced gas at v d gas leak sites: 1, 2c, 2 , 401-a-10, 33-MX-10, a	3 crude oil, gas cylinders at varying rates. 2d ,4 and 5; Gas nd 76-MX-3.		

The table below is to be completed by the Project Lead and reviewed by the Environmental Specialist and the DOE NEPA Compliance Officer. NOTE: If Change of Scope occurs, Project Lead must submit a new NEPA Compliance Survey and contact the Technical Assurance Department.

Impacts Anticipated?			If YES, then complete below	
Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
	x			
	x			
	x			
	×			
	x			
	Yes	Yes No	Anticipated?  Yes No NA	

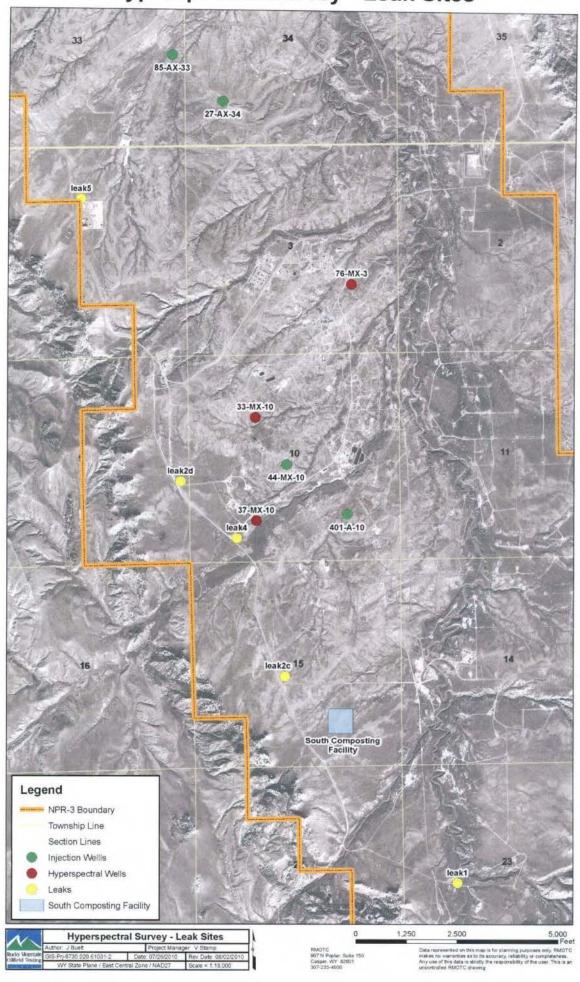
		Impac ticipat		If YES, then complete below.
Geology & Soils	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed project present potential for impacts related to geology or soils?	x			Excess soils/substrates from spill bin construction will be moved to berm area in S. Composting facility. No other soil /geology impacts.
Does the proposed project alter, excavate or otherwise disturb land area consistent with other land use and habitat area?		×		No excavation or surface alteration.
3Is the proposed project likely to impact local seismicity?		x		NA
If the project involved disturbance of surface soils, are erosion and storm water control measures addressed?			×	NA
Air Quality	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:
Does the proposed action present potential for impacts on ambient air quality under both normal and accident conditions?		x		Gas emissions from planned leak sites will not significantly impact air quality.
Are potential emissions (gases and/or airborne particulates including dust) outside of the normal scope for oil field operations?		×		
Does the project present risk to human health and the environment from exposure to radiation and hazardous chemicals in emissions?		x		
Is the project subject to New Source Performance Standards?		x		
Is the project subject to National Emissions Standards for Hazardous Air Pollutants?		×		
Is the project subject to emissions limitations in an Air Quality Control Region?		х		

	Impa	cts cipated	If YES, then complete below		
Wildlife and Habitat	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed action present potential for impacts on wildlife or habitat?		x			
Does the project impact state or federally listed threatened and endangered species?		x		*	
Human Health Effects	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed project present potential for effects on human health?		х			
e.g.: Hanta virus, radiological exposure, or chemical exposure (must provide MSDS)					
Transportation	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Does the proposed project involve transportation of radiological sources or hazardous materials (including explosives)?	×			Created "spill" bins will include 3 bins containing approximately 15 gals each of unleaded gasoline, and 3 bins containing 15 gals each of diesel fuel; each "spill" will be mixed in approx 16 cu ft of varied soil substrates in double-lined wooden bins. Contaminated soils from these bins will be disposed by RMOTC at the end of the project.	
Waste Management and Waste Minimization	Yes	No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:	
Are pollution prevention and waste minimization practices needed in the proposed project?	x			Measures are being taken to minimize the risk of spills from the "spill" bins. Full "spill" procedure is being developed with partner.	
Does project plan establish procedures in compliance with local, state and/or federal laws and guidelines affecting the generation, transportation, treatment, storage or disposal of hazardous and other wastes?	x			Unleaded gasoline and diesel "spill" mixtures will be transported and disposed of according to accepted procedures.  NOTE 3	

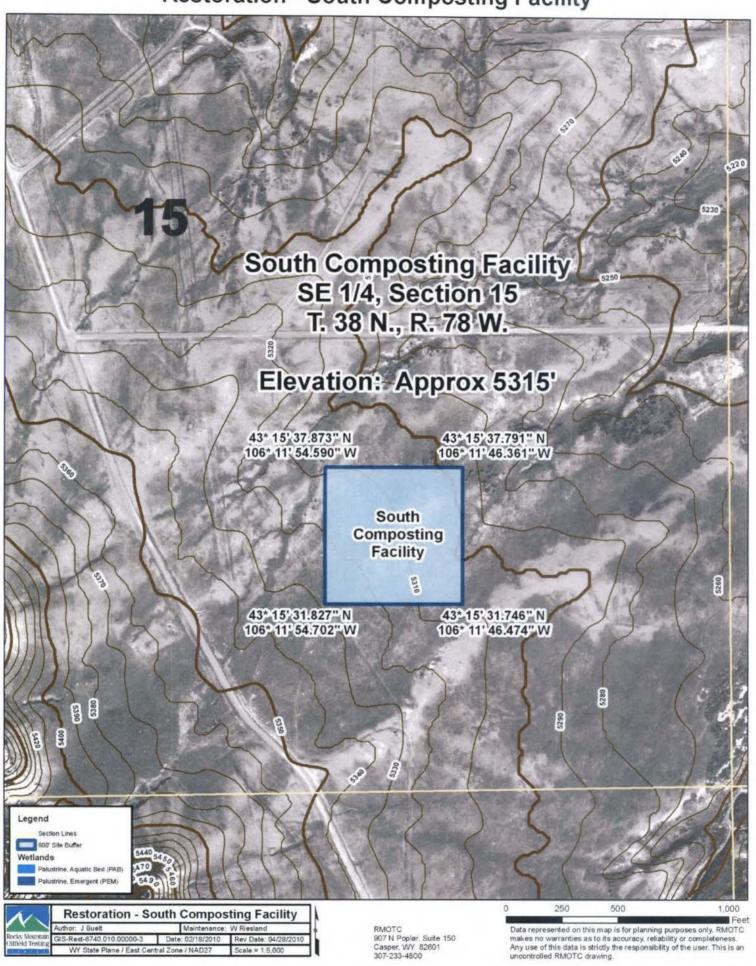
				1000000	acts cipated?		If YES, then complete below.			
Cultural Impact					No	NA	NA If the anticipated impact n unacceptable, recommend n measures:			
s there poteresources?	ential for imp	pact on cul	tural (historic)		×					
Community Impact					No	NA	If the anticipated impact might be unacceptable, recommend mitigation measures:			
	osed projec ual, or other		significantly adv	erse 🗆	х					
	osed projec use of publ				×					
Vill the prop					×					
NOTE: To	pography M	ap and Wet		quired to be and specifi			applicable SOPs for	or Risk Assessment		
Are environ	mental pern	nits require	d? If YES, list bel	ow:			Yes x	No		
Vaste mana	gement per	mits.								
		Section be	elow to be review	ed by Enviro	nmental S	pecialis	t and DOE NCO.			
dequate Mi	tigation Me	asures Pro	vided?			Ade	quate Mitigation M	leasures Provided?		
		Yes	No			Yes	No			
later Quality In	npacts	X	T	ransportation I	mpacts	X				
ir Quality Impa	ects	X	V	Waste Management Impacts		X				
Vildlife and Ha	bitat Impacts	X		Cultural Impacts						
eology and So	oils Impacts	X		Community Imp	act	X				
Human Health Impacts		X		Categorical Exclusion						
				Approv	als					
Comments and Conditions:	B3.11 Ou	itdoor tes	ogical/environits, experiments byproduct mat	on materi	als and e		rea ent components,	no source,		
Contractor ESS&H	ESS&H Took on the						Date 8.10-10			
Comments and Conditions:	NOTE						S, AT TS	CONTRACTOR		
	as NEPA Co	y review of ompliance ( pecified class	information convey Officer (as authorized as of actions, the other	yed to me and ed under DO her regulatory	I in my pos E Order 45 requireme	session ( 1.1A), I h nts set fo	or attached) concern have determined that orth above are met, a	ing the proposed action the proposed action fits nd the proposed action		
Officer	NOTE 2: SIMULATED SPILL NOT TO COMMENCE Date UNTIL "SPILL" PROCEDURE IS APPROVED BY TECHNICAL ASSURANCE DEP  CX B 3.8 Michael 9 Taylor 8/11/10									

Revised on: 11/12/2008

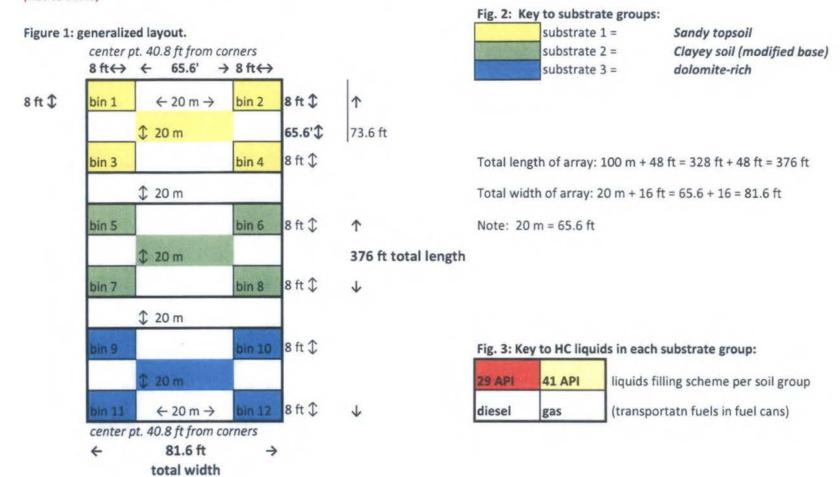
# Hyperspectral Survey - Leak Sites



## **Restoration - South Composting Facility**



# Bin Array / Hydrocarbon / Substrate filling for Hyperspectral Survey (not to scale)



#### Instructions for setting up bin grid: (see Fig. 4)

- 1. Entire grid (fig 1) to be laid out roughly NW-SE.
- 2. N and S stakes and corners (see below) will be at GPS'd positions. DO NOT MOVE.
- 3. Lay out string for N,S, E and W lines (see fig. 1)
- 4. Place a stake at upper LEFT (NW) corner of west bins per dimensions above (fig. 1)
- 5. Place a stake at upper RIGHT (NE) corner of east bins per dimensions above (fig. 1)
- 6. Lay out bins upside down; these will be inverted and placed on tarps at start of test.

