APPENDIX A
Standards, Criteria, and Guidelines

Sediment Criteria

Sediment Criteria - December 1989

Used as Guidance by the Bureau of Environmental Protection, Division of Fish and Wildlife, New York State Department of Environmental Conservation

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Note: This document is used as guidance by the Division of Fish and Wildlife. It is neither a standard nor a policy of the Department.

I. Introduction and Overview of Sediment Criteria Methodology

On February 2 and 3, 1989, the USEPA presented to its Science Advisory Board (SAB) a methodology for deriving sediment criteria for non-polar (or non-ionic) organic chemicals. It is known as the equilibrium partitioning (EP) approach. A briefing document was given to the SAB which summarized the theoretical basis for the EP methodology and supporting lab and field data, and included the first list of interim criteria derived by the method (EPA 1989).

The methodology has been discussed in the scientific community for several years. It is based on the theory that toxics in sediments will exert their effect, either toxicity or bioaccumulation, to the extent that the chemical becomes freely bioavailable in the sediment interstitial (pore) water. It has been determined that the best sediment parameter with which to make predictions of bioavailability of non-polar organics in sediments is the fraction of organic carbon in the sediment. For sediments which exceed 0.5% total organic carbon the concentration of the chemical in the pore water can be predicted dividing the bulk sediment concentration by the product of the sediment/organic carbon partition coefficient (K_{oc}) and the fraction organic carbon. Few K_{oc} are accurately known, however it has been determined that K_{ow} (octanol/water partition coefficient) is very nearly equal to K_{oc} and may be substituted for K_{oc} in this calculation. By setting the pore water concentration equal to the water quality standard or criterion for the chemical a sediment criterion can be calculated by solving for the bulk sediment concentration. The sediment criterion algorithm normalized for organic carbon (OC) follows:

Sediment with contaminants in excess of the criteria would be predicted to contain interstitial water in excess of the AWQS/GV. The PCB AWQS that is the basis for the sediment criterion of 1.4 g/gOC is designed to protect wildlife which consume other biota. Therefore, exceedance of the sediment criterion would be predicted to cause accumulation of PCB in surface water biota to levels that would be harmful to wildlife consumers of the biota.

Table 1 contains sediment criteria for a number of non-polar organic chemicals. For many of the chemicals, there is more than one criterion, reflecting the varied environmental protection objectives of the AWQS/GV/C used to calculate the criteria. Exceedance of the aquatic toxicity based criterion for a chemical would be predicted to cause toxicity to benthic or epibenthic life. Exceedance of the human health residue based criterion would be predicted to cause accumulation of the chemicals in aquatic animals to levels that would exceed a human health tolerance, action level or cancer risk dose (depending on the basis of the AWQS/GV/C). Exceedance of the wildlife residue based criterion for a chemical would be predicted to cause accumulation of the chemical in aquatic animals to levels that would be harmful to wildlife consumers of the animals.

There are a number of sediment criteria in Table 1 whose AWQS/GV/C is followed by the footnote "*". The human health based water quality criteria followed by this footnote are 1 X 10^{-6} cancer risk AWQC derived by the method for calculating water quality standards and guidance values in 6NYCRR 701.12. The wildlife based water quality criteria followed by this footnote are derived by dividing fish flesh criteria from Newell et al. (1987) by bioaccumulation factors.

Until the non-polar method receives SAB approval and subsequent public review, there will likely be controversy about its use. If its use at a particular site is questioned, then the criteria should be used in conjunction with sediment toxicity and bioaccumulation tests. A limited number of such tests should be conducted to site-specifically calibrate the criteria.

For polar organics (except for phenols) and metals there are no algorithms to calculate sediment criteria in order to account for variable sediment characteristics which may affect metals toxicity. However, following the logic above, in order to ensure compliance with water quality standards, interstitial (pore) water should not exceed AWQS/GV/C for polar organics in TOGS 1.1.1. This application of AWQS/GV/C is complicated by the fact that dissolved organic carbon (DOC) in pore water is generally quite a bit higher than in the water column. DOC tends to reduce toxicity and bioaccumulation of chemicals. Since water column DOC is usually low AWQS/GV/C are not modified by DOC known to occur in specific waters. If partitioning between DOC and a chemical is known, then the effect of DOC on toxicity or bioaccumulation may be accounted for, and AWQS/GV/C may be applied to pore water. K_{DOC} is known for many chemicals. Also, chemicals with low K_{oc} do not show uptake suppressed by DOC. Appended are some methods for collecting interstitial water, along with references.

For metals, the primary concern in sediments is toxicity to benthic (bottom) organisms. The Ontario Ministry of the Environment reviewed a number of methods to derive sediment criteria, each with a somewhat different level of benthos protection, and calculated metals criteria for each as data was available (MOE 1989). Persaud (1989) derived from MOE (1988) no-effect

For the measurement technique DiToro et al cited Morse (1987). Appendix 2 is a procedure used by DiToro et al which presumably is derived from Morse et al (1987).

There is concern that use of bioaccumulation based sediment criteria derived by the EP method may not be appropriate if the surface water impairment of concern is an elevated residue in pelagic fish. The SAB is addressing this question. It seems to be well accepted that residues in benthic animals are accurately modeled by the EP method, but for low K_{ow} chemicals (less than about 10^5), residues in pelagic fish may not be clearly related to pore water concentrations. However, for high K_{ow} chemicals (greater than about 10^5) biomagnification through the aquatic food chain is known to occur, and EP criteria may actually be underprotective. For these chemicals, there may be an alternative approach to derive sediment criteria. Recent studies with PCB and 2,3,7,8-TCDD indicate that residues in fish can be predicted by sediment to fish bioaccumulation factors. Accumulation in edible fillet with 3% lipid from sediment with 3% OC is about 0.1-1 times the sediment concentration for 2,3,7,8-TCDD and about 1-10 times the sediment concentration for PCB. Using these sediment to fish accumulation factors, sediment criteria can be back calculated from fish residue levels of concern. Table 3 presents some of these criteria. Complete documentation for this approach can be provided in the near future.

Sediment criteria derived by this sediment-to-fish approach are comparable to those derived by the EP method. For PCB the EP criterion in Table 2 of 0.24 ug/kg may be compared to the criterion in Table 3 of 0.6 - 0.06 ug/kg because they are both 1×10^{-5} cancer risk based; as can be seen the former falls within the range of the latter. Similarly the PCB wildlife based criterion

remediation is practicable and feasible. For the sediments which cannot feasibly be treated or removed, further risk management evaluations may be warranted.

The magnitude of the effect caused by a contaminated sediment will depend on the magnitude of the exceedance of the criterion. Where the criterion is based on direct toxicity to aquatic life or indirect toxicity to wildlife via consumption of contaminated fish, a slight exceedance of a criterion would be expected to cause only a slight adverse effect. Increases in the magnitude of exceedance will cause increases in the magnitude of the effects. It may be useful to attempt to quantify the magnitude of predicted adverse impacts where remediation of sediments is expected to be difficult or costly to accomplish. This may be accomplished by desk-top investigation into the basis for a criterion, or site-specific sediment criterion and/or bioaccumulation tests. Decisions about the volume of sediment to remediate may then be made considering predicted residual effects from any unremediated sediments. Where the sediment criterion is based on human exposure to a carcinogen in fish, shellfish or other edible biota, exceedance of the sediment criterion would be predicted to cause a greater than 10^{-6} incremental cancer risk for humans. The actual risk that society is willing to accept may be factored into cleanup decisions. Presumably, once it is predicted that an FDA or EPA tolerance or action level would be exceeded, then cleanup would have to be made to the associated sediment concentration. As with the fish and wildlife toxicity based sediment criteria, site-specific bioaccumulation tests could be conducted to verify that sediments cause the predicted level of biota residues.

that exceedance of a criterion by about ten times will be associated with onset of impacts. For sediment criteria based on bioaccumulation this would mean that there is a high degree of confidence that at ten times the criteria aquatic animals exposed to the sediments would accumulate contaminants to levels that would exceed human health or wildlife related tolerances, action levels, fish flesh criteria etc. For sediment criteria based on toxicity to aquatic life this would mean that there is a high degree of confidence that sediments with contaminants at ten times the criteria would exhibit chronic toxicity to benthic animals. Onset of chronic toxicity may be difficult to detect in natural systems. Since water quality criteria to prevent acute toxicity are generally about ten times the chronic criteria, it may be generalized that for sediments with contaminants at 100 times (factors of 10 for uncertainty and acute:chronic ratios, respectively) toxicity based criteria there is a high degree of confidence that there will be onset of acute toxicity to benthic animals. Such effects would likely be evident as an impacted or depauperate benthic community.

It must also be noted that due to uncertainty about actual partitioning of a chemical between water and sediments there is the possibility that the sediment criteria are somewhat underprotective rather than overprotective.

Uncertainty of the metals criteria can not be characterized so simply. The criteria are based on empirical evidence from both lab and field studies without an attempt to normalize for any toxicity controlling factors in the sediment. Variability of toxicity of metals in any given sediment is evident from Table 4 which provides criteria, all of which are lower than the upper 95% confidence limit of pre-industrial metal concentrations in Great Lake

bioaccumulation and toxicity, and based on quantity of exceedance would impacts be expected to be isolated or widespread through the ecosystem of concern.

2. Compare sediment concentrations with unimpacted, local background concentrations: consider significance of criteria exceedances in light of background concentrations, in particular, for naturally occurring substances such as metals.

3. If sediment concentrations are less than criteria, remediation is not necessary to ensure compliance with standards.

4. If sediments exceed criteria, and especially if exceedance is widespread in the ecosystem of concern, a number of steps can be taken to verify the need for remediation.

   a. For non-polar organic chemicals with K_{ow} <3.0, further remedial investigation or sediment remediation is not necessary if it can be demonstrated that the source of sediment contamination will be eliminated and the sediment will cleanse itself within one year. For these chemicals the greatest value of sediment criteria may be for documentation of a significant release.

   b. For sediments exceeding aquatic toxicity based criteria, including metals:

      i. conduct assessments of ecological communities to estimate

d. For sediments exceeding wildlife risk bioaccumulation based criteria:

i. identify biota which consume aquatic life and study them to determine whether they have been impaired by contaminants in their food supply.

ii. collect sediment samples, test with wildlife food supply and measure residues; compare with residue levels known to be toxic to wildlife.

5. When sediment concentrations and criteria are less than detection, ecological assessments are necessary to directly measure toxicity of sediments or residues in biota if it is suspected that sediments were contaminated by releases.

a. Generally, it is expected that low level impacts would be associated with presence of contaminants in sediments below detection.

b. however, if impacts are found to be of unacceptable magnitude, then iterative ecological assessments may be necessary to quantify the volume of sediments to remediate.

III. Division of Fish and Wildlife sediment criteria contact is Arthur J. Newell, Room 530, 50 Wolf Road, Albany, New York 12233-4756, 518/457-1769.

IV. Detailed Criteria for Contaminants, see tables and appendix.

TABLE 1

Sediment Criteria, Derived for a Variety of Environmental Protection Objectives. (Sediment criteria are normalized to organic carbon (OC) content as ug/gOC; to obtain criteria for bulk sediments in ug/Kg multiply criteria by fraction OC;i.e. fc. 1% multiply by 10. for 2% OC by 20. etc.)

			Aquatic Toxicity Basis		Human Health Residue Basis		Wildlife Residue Basis	
Substance	Log K_{ow}	Freshwater or Marine F or M	AWQS/GV/C* ug/l	Sediment Criterion ug/gOC	AWQS/GV/C ug/l	Sediment Criterion ug/gOC	AWQS/GV/C ug/l	Sediment Criterion ug/gOC
Acenapthene	4.31	F		730**				
Anilene		F		0.0662**				
		M		0.248**				
Aldrin and Dieldrin	5.0	F&M			0.001++	0.1		
		F&M	0.084+	8.4	0.00001+	0.001	0.0077+	0.77
Azinphosmethyl	2.4	F	0.005++	0.001				
		M	0.01++	0.003				
Azobenzene	3.82	F&M			0.07+	0.5		
Benzene	2.0	F&M			6++	0.6		
Benzo(a)pyrene and some other PAHs◊	6.04	F			0.0012++	1.3		
		M			0.0006++	0.7		
Benzidene	1.4	F	0.1++	0.003				
Bis(2-chloro-ethyl) ether	1.73	F&M			0.2+	0.01		
Bis(2-ethylhexyl) phthalate	5.3	F	0.6++	119.7				
Carbofuran	2.26	F	1++	0.2				

Table 1 (continued)

Substance	Log K_{ow}	Freshwater or Marine F or M	Aquatic Toxicity Basis AWQS/GV/C* ug/l	Aquatic Toxicity Basis Sediment Criterion ug/gOC	Human Health Residue Basis AWQS/GV/C ug/l	Human Health Residue Basis Sediment Criterion ug/gOC	Wildlife Residue Basis AWQS/GV/C ug/l	Wildlife Residue Basis Sediment Criterion ug/gOC
Endosulfan	3.55	F	0.009++	0.03				
		M	0.001++	0.004				
Endrin	5.6	F&M	0.002++	0.8			0.0019+	0.8
		F		1.04**		0.0532**		
		M		0.215**		0.0532**		
Ethyl Parathion	2.1	F		0.081**				
Heptachlor & Heptachlor epoxide	4.4	F&M	0.001++	0.03	0.00003+	0.0008	0.0038+	0.1
		F				0.11**		
		M				0.104**		
Hexachlorobenzene	6.18	F&M	<5+	<7568	0.0001+	0.15	0.008+	12
Hexachloro-butadiene	3.74	F&M			0.06+	0.3	0.07+	0.4
		F	1++	5.4				
		M	0.3++	1.6				
Hexachloro-cyclohexanes	3.8	F		0.157**				
		F	0.01++	0.06				
		M	0.004++	0.03				
		F&M			0.009+	0.05	0.23+	1.5
Hexachlorocyclo-pentadiene	3.99	F	0.45++	4.4				
		M	0.07++	0.7				
Isodecyldiphenyl phosphate	5.4	F	1.73++	434				

Table 1 (continued)

Substance	Log K_{ow}	Freshwater or Marine F or M	Aquatic Toxicity Basis AWQS/GV/C* ug/l	Aquatic Toxicity Basis Sediment Criterion ug/gOC	Human Health Residue Basis AWQS/GV/C ug/l	Human Health Residue Basis Sediment Criterion ug/gOC	Wildlife Residue Basis AWQS/GV/C ug/l	Wildlife Residue Basis Sediment Criterion ug/gOC
2,3,7,8-Tetrachlorodibenzo-dioxin	7.0	F&M F&M	<0.001+	<10	$1X10^{-6}$++ $2X10^{-10}$+	0.01 $2X10^{-6}$	$2X10^{-8}$+	0.0002
1,1,22-Tetrachloro-ethane	2.56	F&M			0.7+	0.3		
Tetrachloro-ethylene	2.88	F&M			1++	0.8		
O-Toluidine	1.4	F&M			18+	0.45		
Toxaphene	3.3	F&M	0.005	0.01	0.009+	0.02		
Trichlorobenzenes	4.26	F&M	5++	91				
1,1,2-Trichloro-ethane	2.17	F&M			4+	0.59		
Trichloroethylene	2.29	F&M			11++	2		
Triphenyl phosphate	4.59	F	4++	156				
Vinyl chloride	0.6	F&M			18+	0.07		

* AWQS/GV/C = Ambient water quality standard or guidance value in TOGS 1.1.1 or other water quality criterion.
+ AWQGV proposed by Division of Fish and Wildlife.
++ Current NYS AWQS or GV in TOGS 1.1.1.
** EPA proposed interim sediment criteria; taken from an EPA briefing document for the EPA Science Advisory Board.
♦ The sediment criterion for benzo(a)pyrene also applies to benz(a)anthracene, benzo(b)fluoranthene, benzo-(k)fluoranthene, chrysene, indeno(1,2,3-cd)pyrene, and, methylbenz(a)anthracenes. These PAH have the same TOGS 1.1.1. guidance value as benzo(a)pyrene.

TABLE 3.

Sediment Criteria Derived by the Sediment-to-fish Bioaccumulation Method

	PCB		2,3,7,8-TCDD	
	Fish Residue ug/kg	Sediment Criterion*, ug/kg	Fish Residue ug/kg	Sediment Criterion,* ug/kg
Tolerance or Advisory	2000	2000-200	0.01	0.1-0.01
10^{-6} Cancer Risk @ ½ lb/week fish consumption	0.6	0.6-0.06	$1.4X10^{-5}$	$1.4X10^{-4}$-$1.4X10^{-5}$
Wildlife Fish Flesh Criterion	100	100-10	0.003	0.03-0.003

* For PCB and 2,3,7,8-TCDD, the ranges result from dividing the Fish Residue by a fish to sediment accumulation factor of 1-10 and 0.1-1, respectively.

APPENDIX 1

Collection of Interstitial Water

At this time, there is not a specific recommendation for a site-specific method to collect interstitial water. It is recommended that regulated parties investigate the subject and propose to DEC a method which will provide a sample to best characterize the bioavailable metals in site-specific interstitial water. As a start, it is suggested at least four methods should be considered along with some references.

1. Centrifugation (Edmunds and Bath 1976; Giesy et al. 1988; Landrum et al. 1987; Engler 1977);

2. Squeezing (Reeburgh 1967; Bender et al. 1987; Kalil and Goldhaker 1973);

3. Suction (Knezovich and Harrison 1987); and

4. Equilibrium by using dialysis membrane or fritted glass sampler (Hesslin 1976; Mayer 1976; Bottomley and Bayly 1984; Pittinger et al. 1988).

Additional literature which should be considered are Carignan et al. 1985, Bray et al. 1973, Lyons et al. 1979, Word et al. 1987, and Jenne and Zachara 1987.

These suggestions and references were obtained from a draft ASTM guidance document on sediment collection, storage, characterization, and manipulation. However, this document is not yet available for circulation or reproduction.

APPENDIX 2

ACID VOLATILE SULFIDE
Procedure Used at Manhattan College

The apparatus consists of the following vessels:

A 500-mL Erlynmeyer flask fitted with a three-hole stopper, where the sample to be analyzed is placed.

Three 250-mL Erlynmeyer flasks. Into the first is placed 175-200 mL of pH 4 buffer (0.05M potassium hydrogen phthlate). The second and third contain 175-200 mL of a 0.1M silver nitrate solution. Each of these is fitted with a two-hole stopper.

The four flasks are connected in sequence with appropriately shaped glass and Tygon tubing. All fittings must be air tight.

A nitrogen gas line is introduced into the first vessel through one hole of the stopper. A thistle tube with a stopcock is placed in the second hole. The exit line from the first to the second vessel is placed in the third hole. The second, third and fourth stoppers contain the entry and exit lines, the entry line being below the liquid surface and the exit line, above.

Between the nitrogen tank and the first vessel, an oxygen-scrubbing system must be placed. This system consists of a vanadous chloride solution in the first scrubbing tower and the matrix of the analyte (usually seawater or freshwater) in the second tower. The solution used in the first tower is prepared in the following manner. Four grams of ammonium metavanadate is boiled with 50 mL of concentrated hydrochloric acid and diluted to 500 mL. This solution is then transferred to the tower. Amalgamated zinc, prepared by taking about 15 grams of zinc, covering it with deionized water and adding 3 drops of concentrated hydrochloric acid before adding a small amount of mercury to complete the amalgamation, is then added to the vanadous chloride solution in the first tower. The solution should now be blue or green. When nitrogen is bubbled through it for a time it will turn purple. When the solution is exhausted, it will turn back tp blue or green. It may be replenished by adding more amalgamated zinc or a few drops of concentrated hydrochloric acid.

The sample or standard to be analyzed is placed in the first vessel after the entire system has been purged with nitrogen for about an hour. The usual sample size is 10-15 grams of wet sediment. Any water used in the transfer of the sample to the vessel must be completely deaerated. The system is again purged for 5-10 minutes. Deaerated 6M hydrochloric acid is now added from the thistle tube <u>or</u> to achieve a final concentration in the vessel of 0.5M.

Background Soil

COLUMBIA MILLS RI BACKGROUND SURFACE SOIL SAMPLING
SUMMARY OF VALIDATED ANALYTICAL RESULTS

PARAMETER	SOIL 1	SOIL 2
A. VOLATILES (ug/kg)		
Methylene Chloride	32 B	71 B
Acetone	8 B	65 B
B. SEMIVOLATILES (ug/kg)		
2,4-Dichlorophenol	390 J	490 U
di-n-Butylphthalate	2600 B	2800 B
Butylbenzylphthalate	390 U	1300 B
bis(2-Ethylhexyl)phthalate	390 U	2500 B
- number of unknowns -	- 10 -	- 20 -
C. PESTICIDES/PCBs (ug/kg)		
4,4'-DDE	2.8 J	18 J
D. INORGANICS (mg/kg)		
Aluminum	8800 J	9880 J
Antimony	8.0 B	8.6 B
Arsenic	3.3 J	2.8 J
Barium	34.2 J	80.8 J
Beryllium	0.45 B	0.42 B
Cadmium	0.69 U	0.66
Calcium	254 J	282 J
Chromium	8.6	8.5
Cobalt	5.8 B	4.1 B
Copper	25.2 J	8.5 B
Iron	12100 J	11900 J
Lead	8.6 J	15.9 J
Magnesium	2350 J	1180 J
Manganese	313	178
Mercury	0.14 U	0.11 U
Nickel	10.5	7.6
Potassium	176 B	256 B
Selenium	0.55 J	1.1 J
Silver	0.64 UL	0.53 UL
Sodium	53.0 B	64.5 B
Thallium	0.93 UR	0.78 UR
Vanadium	15.5	19.2
Zinc	33.9 J	45.5 J
Cyanide	1.4 U	1.1 U

Notes: U - indicates compound was analyzed but not detected.
L - indicates the sample quantitation limit is an estimated quantity.
J - indicates an estimated value.
B - indicates analyte was found in associated blank as well as sample.
R - indicated an unreliable result - compound may or may not be present in this sample.

Ground Water/Surface Water
SCGs

STANDARDS, CRITERIA AND GUIDELINES

PARAMETER	DRINKING WATER		GROUND WATER			SURFACE WATER							
						CLASS A		CLASS A,B,C		CLASS D			
	USEPA MCL	NYSDEC MCL	NYSDEC GA-S	NYSDEC GA-G	NYSDEC DIS-GA	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	USEPA FAC-AT	USEPA FAC-CT
VOLATILES													
Acetone		50											
Benzene	5	5	0.7		0.7		0.7		6		6	5,300L	
Bromodichloromethane	100+	100+		50			50						
Bromoform	100+	100+		50			50						
Bromomethane		5											
2-Butanone		50											
Carbon disulfide		50											
Carbon tetrachloride	5	5	5		5		0.4					35,200L	
Chlorobenzene		5	5	20		20		5		50			
Chloroethane		5											
Chloroform	100+	100+	7		7	7						28,900L	1,240L
Chloromethane		5	5	50			5						
Dibromochloromethane	100+	100+		50			50						
1,1-Dichloroethane		5	5	50			5						
1,2-Dichloroethane	5	5	5	0.8		0.8						118,000L	20,000L
c-1,2-Dichloroethene		5										11,600L	
t-1,2-Dichloroethene		5	5	50			5					11,600L	
1,1-Dichloroethene	7	5	5	0.07			0.07					11,600L	
1,2-Dichloropropane		5	5				5					23,000L	5,700L
c-1,3-Dichloropropene		5										6,060L	244L
t-1,3-Dichloropropene		5											
Ethylbenzene		5	5	50			5					32,000L	
2-Hexanone		50		50			50						
Methyl isobutyl ketone		50											
Methylene chloride		5	5	50			5						
Styrene		5	5		930	50							
1,1,2,2-Tetrachloroethane		5	5	0.2			0.2						2,400L
Tetrachloroethene		5	5	0.7			0.7	1	1	5,280L	840L		
Toluene		5	5	50			5					17,500L	
1,1,1-Trichloroethane	200	5	5	50			5						
1,1,2-Trichloroethane		5	5	0.6		0.6							9,400L
Trichloroethene	5	5	5		10		3	11	11	45,000L	21,900L		
Vinyl acetate		50											
Vinyl chloride	2	2	2		5.0		0.3						
m-Xylene		5	5				5						
o-Xylene		5	5				5						
p-Xylene		5	5				5						
Xylenes, total				50									

STANDARDS, CRITERIA AND GUIDELINES

PARAMETER	DRINKING WATER		GROUND WATER			SURFACE WATER							
						CLASS A		CLASS A,B,C		CLASS D			
	USEPA MCL	NYSDEC MCL	NYSDEC GA-S	NYSDEC GA-G	NYSDEC DIS-GA	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	USEPA FAC-AT	USEPA FAC-CT
SEMIVOLATILES													
Acenaphthene		50		20		20						1,700L	520L
Acenaphthylene		50											
Anthracene		50		50			50						
Benzoic acid		50											
Benzo(a)anthracene		50		0.002			0.002						
Benzo(a)pyrene		50	ND		ND		0.002		0.0012		0.0012		
Benzo(b)fluoranthene		50		0.002			0.002						
Benzo(ghi)perylene		50											
Benzo(k)fluoroanthene		50		0.002			0.002						
Benzyl alcohol		50											
Benzyl butyl phthalate		50		50			50						
4-Bromophenylphenyl ether		50											
Di-n-butyl phthalate		50	50		770		50						
4-Chloroaniline		50											
bis(2-Chloroethoxy) methane		50											
bis(2-Chloroethyl) ether		5	1.0		1.0		0.03						
bis(2-Chloroisopropyl)ether		5											
2-Chloronaphthalene		50	5	10		10							
2-Chlorophenol		50											
4-Chlorophenylphenyl ether		5											
4-Chloro-3-methylphenol		50											
Chrysene		50		0.002			0.002						
Dibenzofuran		50											
Dibenzo(a,h)anthracene		50											
Dibromomethane		5											
1,2-Dichlorobenzene		5	4.7		4.7			5	50			1,120L	763L
1,3-Dichlorobenzene		5	5			20		5	50			1,120L	763L
1,4-Dichlorobenzene	75	5	4.7		4.7	30		5	50			1,120L	763L
3,3'-Dichlorobenzidine		50											
2,4-Dichlorophenol		50	1	0.3		0.3		1.0	1.0			2,020L	365L
Diethyl phthalate		50		50			50						
2,4-Dimethyl phenol		50										2,120L	
Dimethyl phthalate		50		50		50							
2,4-Dinitrophenol		50											
2,4-Dinitrotoluene		50											
2,6-Dinitrotoluene		50	5	0.07			0.07					330L	230L
bis(2-Ethylhexyl) phthalate		50	50		4,200		4	0.6				330L	230L
Fluoranthene		50		50			50						
Fluorene		50		50			50					3,980L	

STANDARDS, CRITERIA AND GUIDELINES

PARAMETER	DRINKING WATER		GROUND WATER			SURFACE WATER							
						CLASS A		CLASS A,B,C		CLASS D			
	USEPA MCL	NYSDEC MCL	NYSDEC GA-S	NYSDEC GA-G	NYSDEC DIS-GA	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	USEPA FAC-AT	USEPA FAC-CT
SEMIVOLATILES (cont)													
Hexachlorobenzene		5	0.35		0.35		0.02					90L	9.3L
Hexachlorobutadiene		5	5	0.5		0.5		1.0		10		7L	5.2L
Hexachlorocyclopentadiene		50	5	1.0		1.0		0.45		4.5		980L	540L
Hexachloroethane		5											
Indeno(1,2,3-cd)pyrene		50		0.002			0.002					117,000L	
Isophorone		50		50			50						
2-Methyl-4,6-dinitrophenol		5											
2-Methylnaphthalene		50											
2-Methylphenol		50											
4-Methylphenol		50											
Methyl tert butyl ether		50											
Naphthalene		50		10		10						2,300L	620L
2-Nitroaniline		50											
3-Nitroaniline		50											
4-Nitroaniline		50											
Nitrobenzene		5	5	30		30						27,000L	
2-Nitrophenol		50										230L	150L
4-Nitrophenol		50										230L	150L
N-Nitrosodiphenylamine		50		50			50						
N-Nitrosodi-n-propylamine		50											
Di-n-octyl phthalate		50		50			50						
Pentachlorophenol	1	5	1		21	1		0.4		1.0		20p	13p
Phenanthrene		50		50			50						
Phenol		50	1			1		5.0		5.0		10,200L	2,560L
Pyrene		50		50		50							
1,2,4-Trichlorobenzene		5	5	10i		10		5		50			
2,4,5-Trichlorophenol		5											
2,4,6-Trichlorophenol		5											
1,2,4-Trimethylbenzene		5	5	50i			5						970L
1,3,5-Trimethylbenzene		5	5	50i			5						

STANDARDS, CRITERIA AND GUIDELINES

PARAMETER	DRINKING WATER		GROUND WATER			SURFACE WATER							
						CLASS A		CLASS A,B,C		CLASS D			
	USEPA MCL	NYSDEC MCL	NYSDEC GA-S	NYSDEC GA-G	NYSDEC DIS-GA	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	USEPA FAC-AT	USEPA FAC-CT
PESTICIDES/PCBS													
Aldicarb	3					7							
Aldicarb sulfoxide	4												
Aldicarb sulfone	2												
Aldrin		50	ND		ND		0.002	0.001		0.001		3.0	
delta-BHC		50										100L	
beta-BHC		50										100L	
alpha-BHC		50										100L	
alpha-Chlordane		50	0.1		0.1		0.02		0.002		0.002	2.4	0.0043
gamma-Chlordane		50	0.1		0.1		0.02		0.002		0.002	2.4	0.0043
4,4'-DDD		50	ND		ND	0.01		0.001		0.001			
4,4'-DDE		50	ND		ND	0.01		0.001		0.001		1,050L	
4,4'-DDT		50	ND		ND	0.01		0.001		0.001		1.1	0.001
Dieldrin		50	ND		ND		0.0009	0.001		0.001		2.5	0.0019
Endosulfan I		50						0.009		0.22		0.22	0.056
Endosulfan II		50						0.009		0.22		0.22	0.056
Endosulfan sulfate		50											
Endrin	0.2	0.2	ND		ND	0.2		0.002		0.002		0.18	0.0023
Endrin ketone		50											
Heptachlor		50	ND		ND	0.009		0.001		0.001		0.52	0.0038
Heptachlor epoxide		50	ND			0.009		0.001		0.001			
Lindane	4	4	ND		ND		0.02	0.01		2		2.0	0.06
Methoxychlor	100	50	35		35	35		0.03					0.03
Toxaphene	5	5	ND		ND		0.01	0.005		1.6		0.73	0.0002
PCBs, total		1										2.0	0.014
PCB-1016			0.1		0.1	0.01		0.001		0.001			
PCB-1221			0.1		0.1	0.01		0.001		0.001			
PCB-1232			0.1		0.1	0.01		0.001		0.001			
PCB-1242			0.1		0.1	0.01		0.001		0.001			
PCB-1248			0.1		0.1	0.01		0.001		0.001			
PCB-1254			0.1		0.1	0.01		0.001		0.001			
PCB-1260			0.1		0.1	0.01		0.001		0.001			

STANDARDS, CRITERIA AND GUIDELINES

PARAMETER	DRINKING WATER		GROUND WATER			SURFACE WATER							
						CLASS A		CLASS A,B,C		CLASS D			
	USEPA MCL	NYSDEC MCL	NYSDEC GA-S	NYSDEC GA-G	NYSDEC DIS-GA	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	NYSDEC AWQ-S	NYSDEC AWQ-G	USEPA FAC-AT	USEPA FAC-CT
INORGANICS													
Aluminum													
Antimony					2,000			100					
Arsenic	50	50	25	3	50	50	3	190d		360d		9,000L	1,600L
Barium	2,000	1,000	1,000		2,000	1,000							
Beryllium				3			3	1,100x,a					
Cadmium	10	10	10		20	10		1.13x,a		3.92x,a		130L 3.9x	5.3L 1.1x
Calcium													
Chromium, total	50	50	50			50		207x,a		1,737x,a		1,700x	210x
Chromium, hexavalent			50		100			11a		16a		16	11
Cobalt								5a			110a		
Copper		1,000	200		1,000	200		11.8x,a		17.7x,a		18x	12x
Gold													
Iron		300	300		600	300		300		300			1,000
Lead	50	50	25		50	50		3.2x,a		82.6x,a		82x	3.2x
Magnesium				35,000		35,000							
Manganese		300	300		600	300							
Mercury	2	2	2		4	2			0.2		0.2	2.4	0.012
Nickel					2,000			95.6x,a		1,844x,a		1,400x	160x
Potassium													
Selenium	10	10	10		40	10		1.0a				260	35
Silver	50	50	50		100	50		0.1*		4.1x,a		4.1x	0.12
Sodium			20,000										
Thallium				4			4	8a		20a		1,400L	40L
Vanadium								14a		190a			
Zinc		5,000	300		5,000	300		30a		321x,a		120x	110x
Chloride		250,000	250,000		500,000	250,000							
Cyanide			100		400	100		5.2f		22f		22	5.2
Fluoride	4,000	2,200	1,500		3,000	1,500		2119x		10,597x			
Foaming agents			500		1,000								
Nitrate (as N)	10,000	10,000	10,000		20,000	10,000							
Oil & grease					15,000								
Phenols			1		2	1		1.0		1.0		See Note 16	
Sulfate		250,000	250,000		500,000	250,000							
Sulfide (as hydrogen sulfide)				50	1,000		50	2.0					2

STANDARDS, CRITERIA AND GUIDELINES

NOTES:
1. All values in ug/l.
2. + = Limit for total trihalomethanes
3. p - Limit is pH dependent, pH 7.8 used
4. x - Limit is dependent on hardness, 100 mg/l used
5. i - Limit applies to the sum of the isomers
6. L - Insufficient data to develop criteria. Value presented is the L.O.E.L - Lowest Observed Effect Level.
7. a - Limit applies to the acid-soluble form
8. d - Limit applies to the dissolved form
9. f - Limit applies to free Cyanide
10. * - Limit applies to ionic silver
11. ( ) - Proposed limit
12. The basis for the standard or guidance value of Class A waters is for the protection of human health
13. The basis for the standard or guidance value for Class A, B, C, and D waters is for protection of aquatic life
14. Beryllium - NYSDEC AWQ- S = 11 if hardness less than or equal to 75 mg/l
    = 1100 if hardness is greater than 75 mg/l
15. Chromium, Total - USEPA FAC-AT & CT - Trivalent Chromium Limits
16. Oil & Grease - USEPA FAC-AT & CT Limit varies see reference document
17. Water classes:
    A - Drinking water source
    A,B,C - Fishing and fish propagation
    D - Fishing and fish survival

APPENDIX B
Preliminary Screening
Summary Tables

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF DRUM DISPOSAL AREA FILL MATERIAL
METALS AND SEMI-VOLATILE ORGANICS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	2	0	2	0	0	2	5	11	8	2	3	13	24
Institutional-Access Restrictions	4	4	2	0	0	2	1	13	8	2	3	13	26
Drain Ponds & Reroute Creek/ * Cap in Place	4	3	2	0	4	2	1	16	8	1	3	12	28
Drain Ponds & Reroute Creek/Lime * Stabilization/Cap in Place	4	3	2	5	N/A	4	2	20	7	1	3	11	31
Drain Ponds & Reroute Creek/Excavate/ Cap in Railroad Right of Way	3	3	2	0	4	2	1	15	7	1	3	11	26
Drain Ponds & Reroute Creek/Excavate/ * Stabalize/Cap in Railroad Right of Way	3	3	2	5	N/A	4	2	19	5	1	3	9	28
Drain Ponds & Reroute Creek/Excavate/ Dispose in On-site Landfill	3	3	1	0	4	2	1	14	7	1	3	11	25
Drain Ponds & Reroute Creek/Excavate/ * Dispose in Off-site Landfill	1	3	2	0	4	4	4	18	8	0	2	10	28

* – Indicates remedial alternative carried through to detailed evaluation.
N/A – Not Applicable

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF TEST PIT AREA 3 SOILS
VOLATILE ORGANICS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	0	0	2	0	0	2	0	4	8	2	3	13	17
Vertical Barrier-Slurry Wall	4	0	2	0	4	2	0	12	5	1	3	9	21
Excavation/On-site Disposal	0	4	2	0	4	2	1	13	5	0	3	8	21
Excavation/Off-site Disposal	0	3	2	0	4	4	4	17	6	0	3	9	26
Vapor Extraction/Ground Water Extraction *	3	4	2	5	N/A	4	4	22	8	1	3	12	34
Bioremediation (In-Situ) *	0	4	2	5	N/A	4	4	19	6	1	3	10	29
Soil Washing (In-Situ) *	0	3	2	5	N/A	4	4	18	6	1	3	10	28
Excavation/Spread Out (Aerate)	0	3	0	5	N/A	4	4	16	6	0	3	9	25
Excavation/Low Temperature Incineration	0	3	2	5	N/A	2	3	15	6	1	3	10	25

* – Indicates remedial alternative carried through to detailed evaluation.
N/A – Not Applicable

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF DRUM DISPOSAL AREA POND AND CREEK SEDIMENTS
METALS AND SEMIVOLATILE ORGANICS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	0	2	0	0	2	5	13	8	2	3	13	26
Limit Access	4	0	2	0	0	2	1	9	9	2	2	13	22
Excavation/On-site Disposal *	4	3	2	0	4	2	1	16	7	1	3	11	27
Excavation/Off-site Disposal *	1	3	2	0	4	4	4	18	9	0	3	12	30
Excavation/Treatment/On-site Disposal *	4	3	2	5	N/A	4	2	20	5	1	3	9	29
Excavation/Treatment/Off-site Disposal *	1	3	2	5	N/A	4	4	19	6	0	3	9	28
Excavation/Lime Stabilization/Cap in Railroad Right of Way *	4	3	2	5	N/A	4	2	20	7	1	3	11	31

* – Indicates remedial alternative carried through to detailed evaluation.
N/A – Not Applicable

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF SHALLOW GROUND WATER
IN DRUM DISPOSAL AREA (Between Ponds 1 & 3)
METALS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	0	2	0	0	2	5	13	8	2	3	13	26
Containment *	4	3	2	0	2	3	0	14	6	1	3	10	24
Extraction/Discharge to Sanitary Sewer	4	3	2	0	0	3	0	12	5	1	3	9	21
Extraction/Pretreatment/ Discharge to Sanitary Sewer	4	3	2	0	0	3	0	12	5	0	3	8	20
Extraction/Treatment/ Discharge to Surface Water *	4	3	2	0	0	3	0	12	6	1	3	10	22
Divert Pond Water/Lower GW Table/ Discharge to Surface Water *	4	3	2	0	4	4	4	21	8	1	3	12	33

NOTE:

* – Indicates remedial alternative carried through to detailed evaluation.

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF SHALLOW GROUND WATER
IN MAIN PLANT AREA (UST Area 1)
VOLATILE ORGANICS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	0	2	0	0	2	5	13	8	2	3	13	26
Containment	3	3	2	0	2	2	0	12	5	2	3	10	22
Extraction/Discharge to Sanitary Sewer *	3	3	2	0	2	4	2	16	8	1	3	12	28
Extraction//Pretreatment/ Discharge to Sanitary Sewer *	3	4	2	0	0	3	3	15	7	1	3	11	26
Extraction/Treatment/ Discharge to Surface Water *	3	4	2	0	0	3	2	14	6	1	3	10	24
In-situ Treatment (Bioremediation)	3	4	2	0	0	2	2	13	6	1	3	10	23

* - Indicates remedial alternative carried through to detailed evaluation.

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF DEEP GROUND WATER
IN MAIN PLANT AREA (B-19D Area)
VOLATILE ORGANICS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	0	2	0	0	2	5	13	8	2	3	13	26
Extraction/Discharge to Sanitary Sewer *	4	3	2	0	0	4	3	16	7	2	3	12	28
Extraction//Pretreatment/ Discharge to Sanitary Sewer *	4	3	2	0	0	3	1	13	5	0	3	8	21
Extraction/Treatment/ Discharge to Surface Water *	4	3	2	0	0	4	1	14	5	0	3	8	22
In-situ Treatment (Bioremediation)	4	0	1	0	0	5	0	10	5	0	3	8	18

* - Indicates remedial alternative carried through to detailed evaluation.

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF SEWER SYSTEM SEDIMENTS
SEWER SYSTEM 2A

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	4	2	0	0	2	5	17	8	2	3	13	30
Institutional – Monitoring, Permitting	4	4	2	0	0	2	2	14	8	2	3	13	27
Close Line in Place *	4	4	2	0	4	2	3	19	8	1	3	12	31
Flush Sediments/Onsite Disposal	3	3	2	0	4	2	1	15	8	0	3	11	26
Flush Sediments/Offsite Disposal *	1	3	2	0	4	4	4	18	9	0	3	12	30
Flush Sediments/Treat/Cap in Railroad Right of Way	3	3	2	0	4	4	2	18	6	1	3	10	28

* – Indicates remedial alternative carried through to detailed evaluation.

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF SEWER SYSTEM SEDIMENTS
SEWER SYSTEM 3

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	4	2	0	0	5	5	20	8	2	3	13	33
Institutional – Monitoring, Permitting	4	4	2	0	0	5	2	17	8	2	3	13	30
Close Line in Place *	4	4	2	0	4	5	3	22	8	1	3	12	34
Flush Sediments/Offsite Disposal/ * Fill Trenches	1	3	2	0	4	5	4	19	9	0	3	12	31
Flush Sediments/Onsite Disposal/ Fill Trenches	3	3	2	0	4	5	1	18	8	0	3	11	29
Flush Sediments/Treat/Cap in Railroad Right of Way	3	3	2	5	N/A	5	2	20	6	1	3	10	30

* – Indicates remedial alternative carried through to detailed evaluation.
N/A – Not Applicable

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF SEWER SYSTEM SEDIMENTS
SEWER SYSTEM 5

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	4	4	2	0	0	5	5	20	8	2	3	13	33
Institutional – Monitoring	4	4	2	0	0	5	2	17	8	2	3	13	30
Flush System/Treat Water/Cap Sludge in RailRoad Right of Way/Leave System in Place	4	3	2	0	4	5	2	20	6	1	3	10	30
Flush System/Treat Water/Cap Sludge in RailRoad Right of Way/Close System in Place	4	3	2	0	4	5	2	20	6	1	3	10	30
Close System in Place (Fill with Concrete)*	4	4	2	0	4	5	3	22	8	1	3	12	34
Excavate Tanks & Sediment/Cap in Railroad Right of Way*	4	3	2	0	4	5	2	20	7	1	3	11	31

* – Indicates remedial alternative carried through to detailed evaluation.

COLUMBIA MILLS
PRELIMINARY SCREENING RESULTS
REMEDIATION OF MAIN PLANT AREA
DEBRIS PILE ASBESTOS

	Effectiveness								Implementability				TOTAL
Remedial Alternative	Protection of Community -Short Term	Environmental Impacts -Short Term	Implementation Time	Permanence of Alternative	Lifetime of Remedial Action	Waste Left on Site	Control Adequacy and Reliability	TOTAL (Max.= 25)	Technical Feasibility	Administrative Feasibility	Availability of Service & Materials	TOTAL (Max.= 15)	(Max.= 40)
No Action *	2	0	2	0	0	2	5	11	8	2	3	13	24
Limit Access	2	0	1	0	0	2	0	5	8	2	3	13	18
Consolidate Material/Cover in Place *	3	3	2	0	4	2	2	16	8	0	3	11	27
Excavate/Dispose of in On-site Landfill *	3	3	2	5	N/A	2	2	17	7	0	3	10	27
Excavate/Dispose of in Off-site Landfill *	3	3	2	5	N/A	4	5	22	9	0	3	12	34

* – Indicates remedial alternative carried through to detailed evaluation.

N/A – Not Applicable

APPENDIX C
Preliminary Screening Rating Sheets

Soils

DDA soil/fill
-No Action
11/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ _____	0 4
	° Can the short-term risk be easily controlled?	Yes No	_____ ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	_____ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ _____	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	_____ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ _____	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ _____	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	_____ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0
			3

2

DDA Soil/Fill
- Access Restrictions

3/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	 	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	 ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	 	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ 	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ 	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

7

43

DDA Sal/Fill
Drain Ponds & Reroute Creek/ Cap in place

Table 4-1 * 16/12

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

DDA soil/fill

4 Drain Ponds & Rerate Creek / Lime Stabilization / Cap in Place.

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

5 #1 DDA soil / fill
Drain Ponds & Reroute Creek / Excavate / Cap in RR ROW

Table 4-1 15/11

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

6 DDA Soil Fill Drain ponds & Reroute Creek / Excavate / Lime Stabilize / Cap in RR ROW

Table 4-1 * 1919

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

DDA Soil/Fill

7 Drain Ponds & Reroute Creek / Excavate / On site Landfill

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	___ ✓	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

2

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

DDA Soil/Fill

8 Drain Ponds & Reroute Creek/ Excavate/ Off site Landfill

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ___ / No ✓	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

UST Area 1 Soils
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

UST Area I Soils
Limit-Access

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	 	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ 	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	 ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ 	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ 	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0
			2

UST Area 1
Slurry wall / Capping

11/30

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) fractured bedrock metals appear to be migrating into groundwater	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

A1

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

DST Area 1
Excavation / On Site Disposal

15
9

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		___	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

VT Area 1
Excavation / Off site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled? (Dust VOC in air)	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

AC

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		___	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

LT Area
Soil Washing

22
15

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

5

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		___	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

5

UST Area 1 Soils
Vapor Extraction

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Test Pit 3 Area - VOCs
No Action

4
13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

6

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓	1 0

Test Pit 3 Area: VOCs
Vertical Barriers / Slurry Walls

12
9

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Test Pit 3 Area VOCs
Excavation /on-site Disposal

Table 4-1

13
8

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Test Pit 3 Area - VOCs
Excavation / off-site disposal

17
9

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Test Pit 3 Area - VOCs
Vapor Extraction / Ground Water Extraction

22
12

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

Test Pit 3 Area - VOCs
Bioremediation

19
10

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Test Pit 3 Area - VOCs
Soil Washing

18
10

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		___	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

Test Pit 3 Area - VOCs
Excavation / Soil Aeration

(16/9)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	— ✓	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	— ✓	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ —	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		—	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		—	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		—	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		—	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —	1 0

Test Pit 3 Area - VOCs
Excavation / Low Temp. Incineration

15
10

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ —	5 0
Subtotal (maximum = 5)				

9½

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		—	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		—	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		—	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		—	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	—	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	—	0

SS1

Excavate / Stabilize / Cap in RR ROW

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

SS1

Flush sediments / Treat / Cap in RR ROW / Cap & Close Line

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

551

Flush sediments / Treat / Cap in RR ROW / Return line to service

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

SS 1
Close line in place

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	 ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

SS 2A
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

321

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

SS 2A

Monitoring / Permitting

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	 ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

SS 2A
Close line in place

2

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

15 | 11

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		—	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		—	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		—	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	—	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	—	0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

SS 2B
No Action

Table 4-1

20/13

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

SS 2B

Monitoring / Permitting

17/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓	1 0

35

SS 2B
Flush sediments/ On site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ 	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ 	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ 	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ 	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ 	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ 	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

SS 2B

Flush Sediments / Off Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

19/12

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

SS 2B

Flush Sediments / Treat / Cap in RR ROW -

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

20/10

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	Yes No	✓ —	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

SS 2B
Close main plant section of line in place/
Divert upstream flow into Benson Creek

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

20/12

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		—	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		—	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		—	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —	1 0

SS 3
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	___ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓	1 0

5 7 /

SS 3

Monitoring / Permitting

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

SS 3

Close in place

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

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Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

554
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	 ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

554
Monitoring / Permitting

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

554

Close Col. Mills line in place 12/12

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

19/12

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

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Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

(Note: No pages 413-416)

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

SS 5
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

SS 5
Institutional - Monitoring

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓	1 0

SS 5

Flush System / Treat Water / Cap Sludge in RR ROW / Leave System in Place

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		—	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		—	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		—	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	—	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	—	0

555

Flush system / Treat water / Cap sludge in ZR RAW / Close System in Place

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

555

Close System in Place (Fill with Concrete)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

555

Excavate Tanks & Sediment [illegible] in RR ROW

Table 4-1

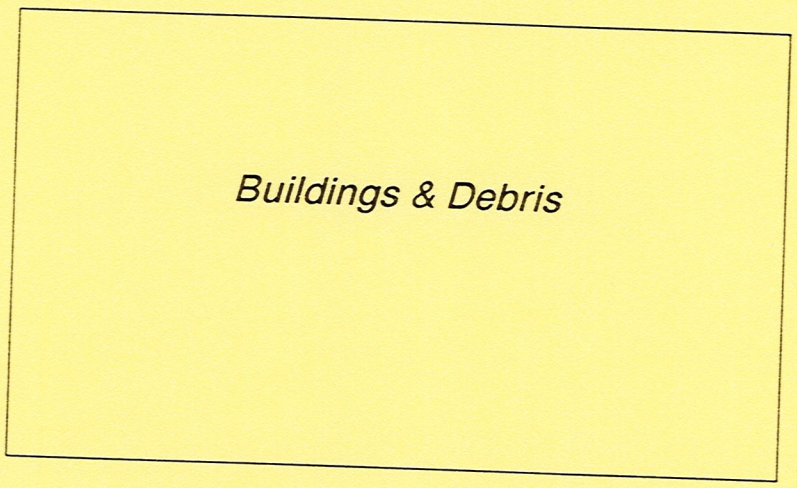
SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0


Buildings & Debris

MPA - Building Asbestos
No Action
11/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

Buildings & Debris

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	— ✓	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sco
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	
c. Schedule of delays due to technical problems.	i) Unlikely	✓	
	ii) Somewhat likely		
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		
	ii) Some future remedial actions may be necessary.	✓	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	
	ii) Required coordination is normal.		
	iii) Extensive coordination is required.	✓	
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	

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Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ 	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ 	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	 ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	 	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ 	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ 	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sco
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		
	iii) Very difficult to construct and/or significant uncertainties in construction.		
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓

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Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

23/12

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions. (3)	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	**Yes**	✓	0
		No		4
	° Can the short-term risk be easily controlled?	**Yes**	✓	1
		No		0
	° Does the mitigative effort to control short-term risk impact the community life-style?	**Yes**		0
		No	✓	2
Subtotal (maximum = 4)				
2. Environmental Impacts (3)	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	**Yes**	✓	0
		No		4
	° Are the available mitigative measures reliable to minimize potential impacts?	**Yes**	✓	3
		No		0
Subtotal (maximum = 4)				
3. Time to implement the remedy. (2)	° What is the required time to implement the remedy?	**≤ 2yr.**	✓	1
		> 2yr.		0
	° Required duration of the mitigative effort to control short-term risk.	**≤ 2yr.**	✓	1
		> 2yr.		0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative. (5)	**° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)**	**Yes**	✓	5
		No		0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sco
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	
c. Schedule of delays due to technical problems.	i) Unlikely	___	
	ii) Somewhat likely	✓	
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	
	ii) Some future remedial actions may be	___	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	
	ii) Required coordination is normal.	___	
	iii) Extensive coordination is required.	✓	
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No ___	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ___ No ✓	

4/59

Alt 1 2 4 5 = Remove "articles" to OSHA methods with Alt on site landfill disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

17/10

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes	✓	0
		No		4
	° Can the short-term risk be easily controlled?	Yes	✓	1
		No		0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes		0
		No	✓	2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes	✓	0
		No		4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes	✓	3
		No		0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr.	✓	1
		> 2yr.		0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr.	✓	1
		> 2yr.		0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes	✓	5
		No		0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓ 2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___ 1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓ 3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___ 2
c. Schedule of delays due to technical problems.	i) Unlikely	___ 2
	ii) Somewhat likely	✓ 1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___ 2
	ii) Some future remedial actions may be necessary.	✓ 1
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	___ 2
	ii) Required coordination is normal.	___ 1
	iii) Extensive coordination is required.	✓ 0
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ 1 No ___ 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ 1 No ___ 0

MPA - Debris Piles Asbestos
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	— 2
	iii) Very difficult to construct and/or significant uncertainties in construction.	— 1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	— 3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓ 2
c. Schedule of delays due to technical problems.	i) Unlikely	✓ 2
	ii) Somewhat likely	— 1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	— 2
	ii) Some future remedial actions may be necessary.	✓ 1
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	✓ 2
	ii) Required coordination is normal.	— 1
	iii) Extensive coordination is required.	— 0
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ 1 / No — 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ 1 / No — 0

Plant Debris piles Access Restriction

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

5/13

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
(2)	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
	Subtotal (maximum = 4)			
(0) 2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	3 0
(3)	**Subtotal (maximum = 4)**			
(1) 3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	— ✓	1 0
	Subtotal (maximum = 2)			
(0) 4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
	Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___ 2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___ 1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___ 3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓ 2
c. Schedule of delays due to technical problems.	i) Unlikely	✓ 2
	ii) Somewhat likely	___ 1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___ 2
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	✓
	ii) Required coordination is normal.	___
	iii) Extensive coordination is required.	___
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No ___
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No ___

Main plant - Debris piles
H1/H3 Complete Cover in place.

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

16 | 11

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Protection of community during remedial actions. (3)	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	**Yes** ✓ **No**	0 4
	° Can the short-term risk be easily controlled?	**Yes** ✓ **No**	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	**Yes** **No** ✓	0 2
	Subtotal (maximum = 4)		
2. Environmental Impacts (3)	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	**Yes** ✓ **No**	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	**Yes** ✓ **No**	3 0
(3)	**Subtotal (maximum = 4)**		
3. Time to implement the remedy. (2)	° What is the required time to implement the remedy?	**≤ 2yr.** ✓ **> 2yr.**	1 0
	° Required duration of the mitigative effort to control short-term risk.	**≤ 2yr.** ✓ **> 2yr.**	1 0
	Subtotal (maximum = 2)		
4. Permanence of the remedial alternative. (0)	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	**Yes** **No** ✓	5 0
	Subtotal (maximum = 5)		

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Sco
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	— 2
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	✓
	ii) Somewhat likely	—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	✓
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

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Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	**Yes** / **No**	0 / 4
	° Can the short-term risk be easily controlled?	**Yes** / **No**	1 / 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	**Yes** / **No**	0 / 2
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	**Yes** / **No**	0 / 4
	° Are the available mitigative measures reliable to minimize potential impacts?	**Yes** / **No**	3 / 0
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. / > 2yr.	1 / 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. / > 2yr.	1 / 0
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	**Yes** / **No**	5 / 0
Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Sco
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	—
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	✓
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

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Main plant Debris plus Route 45 Excavate offsite LF disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
(3)	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
(3)	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
(6)				
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
(2)	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	
(5)				
Subtotal (maximum = 5)				

22/12

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Sco
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	—
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	—
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓
	ii) Some future remedial actions may be necessary.	—
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	✓
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

UST Excavated Soil Piles
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

UST Excavated Soil Piles
Institutional - Access Restrictions

13/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	 	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ 	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	 ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ 	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ 	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

UST Excavated Soil Piles
Dispose In On-Site Landfill

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		—	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		—	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		—	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —	1 0

UST Excavated Soil Piles
Dispose In off-site landfill

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.		1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

UST Excavated Soil Piles
Cap in ~~RR Row~~

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		
	ii) Somewhat likely	✓	2
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	1
	ii) Some future remedial actions may be necessary.	___	2
		✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

UST Excavated Soil Piles
Lime stabilization / Cap in ~~RR Row~~

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ —	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Score
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___ 3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___ 2
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓ 1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓ 3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___ 2
c. Schedule of delays due to technical problems.	i) Unlikely	___ 2
	ii) Somewhat likely	✓ 2
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___ 1
	ii) Some future remedial actions may be necessary.	✓ 1
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	___ 2
	ii) Required coordination is normal.	✓ 1
	iii) Extensive coordination is required.	___ 0
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ 1 No ___ 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ 1 No ___ 0

SEDIMENTS

DDA Pond - Creek Sediments
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		
	ii) Somewhat likely	✓	2
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		1
	ii) Some future remedial actions may be necessary.	✓	2
Subtotal (maximum = 10)			1
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

DDA Unit F
Pond Sediments
Metals

~~No Action~~
Limit Access

1/13

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 4	0
	° Can the short-term risk be easily controlled?	Yes No	1 0	0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2	0
Subtotal (maximum = 4)				0
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4	0
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3 0	0
Subtotal (maximum = 4)				0
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	1 0	1
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	1 0	1
Subtotal (maximum = 2)				2
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0	0
Subtotal (maximum = 5)				0

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	3	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	3	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	1	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	2	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	2	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes 1 / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes 1 / No ___	1 / 0

DDA Pond Sediments Metals

Excavate / Disposal at On-Site Lined Landfill

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 4	0
	° Can the short-term risk be easily controlled?	Yes No	1 0	0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2	2
Subtotal (maximum = 4)				2
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4	0
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3 0	3
Subtotal (maximum = 4)				3
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	1 0	1
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	1 0	1
Subtotal (maximum = 2)				2
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0	5
Subtotal (maximum = 5)				5

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	2	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	3	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	1	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	1	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	2	2
	ii) Required coordination is normal.	1	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes 1 / No ___	1
	ii) Will more than one vendor be available to provide a competitive bid?	Yes 1 / No ___	1

DDH Sediments Metals

Excavate/Dispose at Off-Site Landfill

3/12

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 4	0
	° Can the short-term risk be easily controlled?	Yes No	1 0	1
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2	0
Subtotal (maximum = 4)				1
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4	0
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3 0	3
Subtotal (maximum = 4)				3
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	1 0	1
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	1 0	1
Subtotal (maximum = 2)				2
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	2 0	2
Subtotal (maximum = 5)				2

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	3	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	3	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	1	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	2	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	1	1
	iii) Extensive coordination is required.	0	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes 1 / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes 1 / No ___	1 / 0

DDH Creek
Pond Sediments
Metals

Excavate/Treatment
~~Physical Solution~~
+ Alternative 2

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		23/9	Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	**Yes** / **No**	0 / 4	0 / 4
	° Can the short-term risk be easily controlled?	**Yes** / **No**	0	1 / 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	**Yes** / **No**	0	0 / 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	**Yes** / **No**	0	0 / 4
	° Are the available mitigative measures reliable to minimize potential impacts?	**Yes** / **No**	3	3 / 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	**≤ 2yr.** / **> 2yr.**	1	1 / 0
	° Required duration of the mitigative effort to control short-term risk.	**≤ 2yr.** / **> 2yr.**	1	1 / 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	**° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)**	**Yes** / **No**	5	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	1	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	2	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	1	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	2	2
	ii) Some future remedial actions may be necessary.	1	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	1	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes 1 / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes 1 / No ___	1 / 0

DDA-Unit 2 Pond Sediments + Metals

Excavate/Treatment
~~Chemical Stabilization~~
~~Solidification~~
~~Neutralization~~
+ Alternative 3

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

19/9

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	0 4	0
	° Can the short-term risk be easily controlled?	Yes No	1 0	1
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	0 2	0
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	0 4	0
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	3 0	3
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	1 0	1
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	1 0	1
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	5 0	5
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	3	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	2	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	1	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	3	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	2	2
c. Schedule of delays due to technical problems.	i) Unlikely		2
	ii) Somewhat likely	1	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	2	2
	ii) Some future remedial actions may be necessary.		1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	2	2
	ii) Required coordination is normal.	1	1
	iii) Extensive coordination is required.	0	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes 1 / No	1
	ii) Will more than one vendor be available to provide a competitive bid?	Yes 1 / No	1

TDA Pond & Creek Sediments

Excavation / Lime stabilization / Cap in RR ROW

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

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Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

UST Areal Creek Sediments
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

UST Area 1 Creek Sediments
Limit Access

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.			3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely			1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.			2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		✓	2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.			0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓	1 0

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- UST Area / Creek Sediments
Excavation / On-Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

UST Area I Creek Sediments
Excavation / Off-Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.			2
	iii) Very difficult to construct and/or significant uncertainties in construction.			1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.			2
c. Schedule of delays due to technical problems.	i) Unlikely			2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.			1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.			2
	ii) Required coordination is normal.			1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No		0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No		0

UST Area 1 Creek Sediments
Excavation / Treatment / On-Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	✓	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	✓	1
		No	___	0

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USF Area I Creek Sediments
Excavation / Treatment / Off-Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	___ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		___	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓	2
	ii) Some future remedial actions may be necessary.		___	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

UST Area 1 Creek Sediments

Excavation / Lime stabilization / Cap in RR ROW

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ —	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		✓	2
	ii) Somewhat likely		___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		✓	1
	iii) Extensive coordination is required.		___	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ ___	1 0

Ground Water

DI-1 Section 3.0

No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

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Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓	0 4
	° Can the short-term risk be easily controlled?	Yes No		1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 1
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sco
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		
	iii) Very difficult to construct and/or significant uncertainties in construction.		
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		✓
	ii) Required coordination is normal.		
	iii) Extensive coordination is required.		
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

14/10

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ___	(
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sco
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—	
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	
	iii) Very difficult to construct and/or significant uncertainties in construction.	—	
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—	
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	
c. Schedule of delays due to technical problems.	i) Unlikely	—	
	ii) Somewhat likely	✓	
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—	
	ii) Some future remedial actions may be necessary.	✓	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	—	
	ii) Required coordination is normal.	✓	
	iii) Extensive coordination is required.	—	
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No —	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No —	

DCA Chalcos (GW)

Environmental Dynamics to Sensitive Species

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

12/9

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	(
	° Can the short-term risk be easily controlled?	Yes No	___ ___	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	
Subtotal (maximum = 5)				

IRS

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Sc
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—
	ii) Somewhat difficult to construct. No uncertainties in construction.	—
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	✓
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No —

DDA Stations GW

Evaluation / Preliminary Screening of Control Strategies

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

12/8

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓	C 4
	° Can the short-term risk be easily controlled?	Yes No		1 C
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No		C
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		—
	iii) Extensive coordination is required.		✓
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

12/10

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓	0 4
	° Can the short-term risk be easily controlled?	Yes No		1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No		0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓	1 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

SDA SHALLOW GW
DIVERT SW/GW / LOWER GW TABLE

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

21/12

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 1
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	
Subtotal (maximum = 5)				

A7

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Scc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

A 1 - Alt. SW Test Pit - No Action

3/25 + 17/15 = ~~24~~ 40
20/40

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Scor
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	 ✓	1 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy? Time until remedial response objectives	≤ 2yr. > 2yr.	✓ ✓	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ✓	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Sc
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓
	ii) Somewhat difficult to construct. No uncertainties in construction.	—
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	✓
	ii) Somewhat likely	—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	✓
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

7.0

A2 - Shallow Tr. Alt. - Containment

11/25 + 12/15

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	C 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 (
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	(1
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	
Subtotal (maximum = 5)				

7

20S

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—	
	ii) Somewhat difficult to construct. No uncertainties in construction.	—	
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓	
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—	
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	
c. Schedule of delays due to technical problems.	i) Unlikely	—	
	ii) Somewhat likely	✓	
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—	
	ii) Some future remedial actions may be necessary.	✓	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	
	ii) Required coordination is normal.	—	
	iii) Extensive coordination is required.	—	
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No —	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No —	

A3 - Shallow w/ Pot Pit 2 Area - Ext → Sanitary

Table 4-1 16/25 + 12/15

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	(
	° Can the short-term risk be easily controlled?	Yes No	✓ —	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) PoTw	Yes No	✓ —	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	
Subtotal (maximum = 5)				

3

709

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

2/5

Analysis Factor	Basis for Evaluation During Preliminary Screening		S
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

12

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓
	ii) Some future remedial actions may be necessary.		—
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		—
	iii) Extensive coordination is required.		✓
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

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A5 Shallow GW Test Pit Area
Ext → Treat → Surface Water Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ✓	
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		
	iii) Very difficult to construct and/or significant uncertainties in construction.		
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		
c. Schedule of delays due to technical problems.	i) Unlikely		
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		✓
	ii) Some future remedial actions may be necessary.		
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓

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Shallow Gw Contam Area
AB2 In-Situ Bioremediation

8/25 + 9/15

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Sco
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	— ✓	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ —	0 1
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	— ✓	
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	— ✓	
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	✓ —	
Subtotal (maximum = 5)				

6

Table 4-2

1/15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

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(31 - Challenges in UST Area 1
No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes / No	✓
	° Can the short-term risk be easily controlled?	Yes / No	—
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes / No	—
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes / No	✓ / —
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes / No	✓
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. / > 2yr.	✓ / ✓
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. / > 2yr.	✓ / ✓
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes / No	— / ✓
Subtotal (maximum = 5)			

225

13/15

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		✓
	ii) Required coordination is normal.		—
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

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B2) Shallow, in situ treatment
Containment

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ —	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ —	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	— ✓	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ —	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ —	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ —	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ —	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	Scc
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—
	ii) Somewhat difficult to construct. No uncertainties in construction.	—
	iii) Very difficult to construct and/or significant uncertainties in construction.	✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	✓
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

B3 Shallow GW UST Area No. 1
Excavation, Disposal on Sanitary Sewer

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS 12/25 + 12/15
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes ✓ No	
	° Can the short-term risk be easily controlled?	Yes ✓ No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No ✓	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes ✓ No	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes ✓ No	
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. ✓ > 2yr.	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. ✓ > 2yr.	
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No ✓	
Subtotal (maximum = 5)			

Table 4-2

12/15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		✓
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

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Shallow - N UST Area No. 1

B4) Ext → Pretreat → POTW
Cu, Metals

15/2 < 11/15

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes ✓ No ___	
	° Can the short-term risk be easily controlled?	Yes ✓ No ___	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes ___ No ✓	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes ___ No ✓	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes ___ No ___	
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. ✓ > 2yr. ___	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. ✓ > 2yr. ___	
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes ___ No ✓	
Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	—
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	✓
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No —

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B5

Shallow GW : UST Area 1

Ext → Treat → Disposal in Surface Water

VOCs, Metals, Pesticides

Table 4-1

14/25 + 10/15

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes ✓ / No	
	° Can the short-term risk be easily controlled?	Yes ✓ / No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes / No ✓	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes / No ✓	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes / No	
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. ✓ / > 2yr.	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. ✓ / > 2yr.	
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes / No ✓	
Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	
	iii) Very difficult to construct and/or significant uncertainties in construction.		
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	
c. Schedule of delays due to technical problems.	i) Unlikely		
	ii) Somewhat likely	✓	
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		
	ii) Some future remedial actions may be necessary.	✓	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		
	ii) Required coordination is normal.	✓	
	iii) Extensive coordination is required.		
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	

(66) Shallow Gw VST Area 1
In Situ Treatment

12/25 x 10/15

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes ✓ No	
	° Can the short-term risk be easily controlled?	Yes ✓ No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No ✓	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No ✓	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. ✓ > 2yr.	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. ✓ > 2yr.	
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No ✓	
Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	—
	ii) Somewhat likely	✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	—
	ii) Required coordination is normal.	✓
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ No —

D 1 Deep GW in Test Pit 3 Area — No Action (VOCs)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes / No ✓	
	° Can the short-term risk be easily controlled?	Yes / No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes / No	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) GW Standards	Yes ✓ / No	
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes / No ✓	
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. ✓ / > 2yr.	
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. ✓ / > 2yr.	
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes / No ✓	
Subtotal (maximum = 5)			

Table 4-2

13/15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening	S
1. Technical Feasibility		
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓
	ii) Somewhat difficult to construct. No uncertainties in construction.	—
	iii) Very difficult to construct and/or significant uncertainties in construction.	—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓
c. Schedule of delays due to technical problems.	i) Unlikely	✓
	ii) Somewhat likely	—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—
	ii) Some future remedial actions may be necessary.	✓
Subtotal (maximum = 10)		
2. Administrative Feasibility		
a. Coordination with other agencies.	i) Minimal coordination is required.	✓
	ii) Required coordination is normal.	—
	iii) Extensive coordination is required.	—
Subtotal (maximum = 2)		
3. Availability of Services and Materials		
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No —

D2 Dep 4th – Pit 8 Area – Ext → Sanitary VOC

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

16/25 + 12/15

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc.
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 √
	° Can the short-term risk be easily controlled?	Yes No	 —
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	 —
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) implementing site recovery collection trench Yes POTW pretreatment wells - No	Yes No	√ —
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	√ —
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	√ —
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	√ —
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	— √
Subtotal (maximum = 5)			

Table 4-2

12/15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		S
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		✓
	iii) Very difficult to construct and/or significant uncertainties in construction.		—
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		✓
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		—
c. Schedule of delays due to technical problems.	i) Unlikely		✓
	ii) Somewhat likely		—
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		✓
	iii) Extensive coordination is required.		—
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

255

D3 Deep GW in Test Pit Area - Ext → Pretreat → Sanitary (VOCs)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	 ✓
	° Can the short-term risk be easily controlled?	Yes No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) both [illegible] Cell Trench Cell - problem	Yes No	✓
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	 ✓
Subtotal (maximum = 5)			

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

7/15

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	—	
	ii) Somewhat difficult to construct. No uncertainties in construction.	—	
	iii) Very difficult to construct and/or significant uncertainties in construction.	√	
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	—	
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	√	
c. Schedule of delays due to technical problems.	i) Unlikely	—	
	ii) Somewhat likely	√	
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	—	
	ii) Some future remedial actions may be necessary.	√	
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	—	
	ii) Required coordination is normal.	—	
	iii) Extensive coordination is required.	√	
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes √ No —	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes √ No —	

D4 Deep GW in Test Pit 3 Area - Ext → Treat → Dw
VOCs) (low levels).

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

13/25 +8/15

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes / No	✓
	° Can the short-term risk be easily controlled?	Yes / No	
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes / No	
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes / No	✓
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes / No	✓
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. / > 2yr.	✓
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. / > 2yr.	✓
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes / No	✓
Subtotal (maximum = 5)			

Table 4-2

8|15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		S
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		—
	iii) Extensive coordination is required.		✓
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

55

Deep GW in Test Pit Area - In Situ Treatment (VOCs) (Bioremediation

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

10 | 25 + 8 | 15

Analysis Factor	Basis for Evaluation During Preliminary Screening		Sc
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	√
	° Can the short-term risk be easily controlled?	Yes No	___
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___
Subtotal (maximum = 4)			
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	√ ___
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ √
Subtotal (maximum = 4)			
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	√ ___
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	___ √
Subtotal (maximum = 2)			
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ √
Subtotal (maximum = 5)			

5

265

Table 4-2

8|15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		S
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—
	ii) Somewhat difficult to construct. No uncertainties in construction.		—
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓
c. Schedule of delays due to technical problems.	i) Unlikely		—
	ii) Somewhat likely		✓
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—
	ii) Some future remedial actions may be necessary.		✓
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.		—
	ii) Required coordination is normal.		—
	iii) Extensive coordination is required.		✓
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —

E1 - Deep GW in B-19D Area - No Action (VOCs)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

13/25 + 13/15

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ✓	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

13/15

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Scor
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	

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Deep GW – B-19D Area – Ext → POTW

VOCs)

E2)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ √	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.) POTW	Yes No	√ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	√ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	√ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	√ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ √	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

12/15

Analysis Factor	Basis for Evaluation During Preliminary Screening		Scor
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	√	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	√	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	√	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	√	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	√	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes √ / No ___	
	ii) Will more than one vendor be available to provide a competitive bid?	Yes √ / No ___	

E3 Deep GW in B-190 Area - Ext → Pretreat → POTW (VOC's)

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS 13/25 + 8/15
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	√ √	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	√ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	√ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	√ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	√ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	√ ___	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

8/15

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		√	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		√	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		√	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		√	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		√	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes	√	1
		No	___	0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes	√	1
		No	___	0

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E4) Depiction in E'90 Area - Ext → Treat → SW
JAC:1

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

4/2c + 6/15

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

8/15

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		—	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		—	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		✓	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		—	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		✓	2
c. Schedule of delays due to technical problems.	i) Unlikely		—	2
	ii) Somewhat likely		✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		—	2
	ii) Some future remedial actions may be necessary.		✓	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		—	2
	ii) Required coordination is normal.		—	1
	iii) Extensive coordination is required.		✓	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	✓ —	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	✓ —	1 0

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	___ ✓	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

8|15

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Technical Feasibility				
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.		___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.		√	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		___	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.		√	2
c. Schedule of delays due to technical problems.	i) Unlikely		___	2
	ii) Somewhat likely		√	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		___	2
	ii) Some future remedial actions may be necessary.		√	1
Subtotal (maximum = 10)				
2. Administrative Feasibility				
a. Coordination with other agencies.	i) Minimal coordination is required.		___	2
	ii) Required coordination is normal.		___	1
	iii) Extensive coordination is required.		√	0
Subtotal (maximum = 2)				
3. Availability of Services and Materials				
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes No	√ ___	1 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes No	√ ___	1 0

Sewer Sediment

SS1

No Action

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? **(If answer is no, go to Factor 2.)**	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? **(If answer is no, go to Factor 3.)**	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). **(If answer is yes, go to Factor 6.)**	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

SS1

Monitoring / Access Restrictions

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	___ ✓	0 4
	° Can the short-term risk be easily controlled?	Yes No	___ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	___ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	___ ✓	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	___ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

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Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.		2
	iii) Very difficult to construct and/or significant uncertainties in construction.		1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.		3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	✓	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely		1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.		2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	✓	2
	ii) Required coordination is normal.		1
	iii) Extensive coordination is required.		0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No	1 / 0

SS 1
Excavate / Off Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	✓	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	___	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	___	2
	ii) Somewhat likely	✓	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	✓	2
	ii) Some future remedial actions may be necessary.	___	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	___	1
	iii) Extensive coordination is required.	✓	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0

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SS1

Excavate / On Site Disposal

Table 4-1

SHORT-TERM/LONG-TERM EFFECTIVENESS
(Maximum Score = 25)

Analysis Factor	Basis for Evaluation During Preliminary Screening			Score
1. Protection of community during remedial actions.	° Are there significant short-term risks to the community that must be addressed? (If answer is no, go to Factor 2.)	Yes No	✓ ___	0 4
	° Can the short-term risk be easily controlled?	Yes No	✓ ___	1 0
	° Does the mitigative effort to control short-term risk impact the community life-style?	Yes No	✓ ___	0 2
Subtotal (maximum = 4)				
2. Environmental Impacts	° Are there significant short-term risks to the environment that must be addressed? (If answer is no, go to Factor 3.)	Yes No	✓ ___	0 4
	° Are the available mitigative measures reliable to minimize potential impacts?	Yes No	✓ ___	3 0
Subtotal (maximum = 4)				
3. Time to implement the remedy.	° What is the required time to implement the remedy?	≤ 2yr. > 2yr.	✓ ___	1 0
	° Required duration of the mitigative effort to control short-term risk.	≤ 2yr. > 2yr.	✓ ___	1 0
Subtotal (maximum = 2)				
4. Permanence of the remedial alternative.	° Will the remedy be classified as permanent in accordance with Section 2.1(a), (b), or (c). (If answer is yes, go to Factor 6.)	Yes No	___ ✓	5 0
Subtotal (maximum = 5)				

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Table 4-2

IMPLEMENTABILITY
(Maximum Score = 15)

Analysis Factor	Basis for Evaluation During Preliminary Screening		Score
1. Technical Feasibility			
a. Ability to construct technology.	i) Not difficult to construct. No uncertainties in construction.	___	3
	ii) Somewhat difficult to construct. No uncertainties in construction.	✓	2
	iii) Very difficult to construct and/or significant uncertainties in construction.	___	1
b. Reliability of technology.	i) Very reliable in meeting the specified process efficiencies or performance goals.	✓	3
	ii) Somewhat reliable in meeting the specified process efficiencies or performance goals.	___	2
c. Schedule of delays due to technical problems.	i) Unlikely	✓	2
	ii) Somewhat likely	___	1
d. Need of undertaking additional remedial action, if necessary.	i) No future remedial actions may be anticipated.	___	2
	ii) Some future remedial actions may be necessary.	✓	1
Subtotal (maximum = 10)			
2. Administrative Feasibility			
a. Coordination with other agencies.	i) Minimal coordination is required.	___	2
	ii) Required coordination is normal.	✓	1
	iii) Extensive coordination is required.	___	0
Subtotal (maximum = 2)			
3. Availability of Services and Materials			
a. Availability of prospective technologies.	i) Are technologies under consideration generally commercially available for the site-specific application?	Yes ✓ / No ___	1 / 0
	ii) Will more than one vendor be available to provide a competitive bid?	Yes ✓ / No ___	1 / 0