Comments of West Virginia Highlands Conservancy and Ohio Valley Environmental Coalition

on the

Draft Programmatic Environmental Impact Statement on
Mountaintop Removal Mining/Valley Fill Activities in Appalachia

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The West Virginia Highlands Conservancy and the Ohio Valley Environmental Coalition submit the following comments on the Draft Environmental Impact Statement (DEIS) for mountaintop removal mining and valley fills in Appalachia.

I. The DEIS Violates the 1998 Bragg Settlement Agreement

A. The Agreement Required the U.S. to Develop Alternatives to Minimize Environmental Impacts

Under the 1998 Bragg Settlement Agreement, the United States agreed to prepare an EIS:

on a proposal to consider developing agency policies, guidance, and coordinated agency decision-making processes to minimize, to the maximum extent practicable, the adverse environmental effects to waters of the United States and to fish and wildlife resources affected by mountaintop mining operations, and to environmental resources that could be affected by the size and location of excess spoil disposal sites in valley fills.

Thus, the central, agreed purpose of that EIS was “to minimize ... the adverse environmental effects” of mountaintop mining operations and valley fills. The January 16, 2001 Executive Summary of the Mountaintop Mining/Valley Fill Status Report on the EIS confirmed that “[t]he agencies agreed to prepare an Environmental Impact Statement (EIS) to consider new guidance and policies to minimize the adverse impacts of mountaintop mining and valley fills.” Ex. 4, p. 1. The DEIS violates this agreement. The DEIS does not analyze a single action alternative that is designed to minimize environmental impacts. Instead, the DEIS only analyzes process alternatives that are designed to streamline agency decision making.

B. From 1998 Until Mid-2002, Preliminary Drafts Recognized that the DEIS Had to Include Action Alternatives to Minimize Environmental Impacts

The process alternatives in the May 2003 DEIS are a radical change from the action alternatives in earlier drafts of the DEIS. The January 16, 2001 Executive Summary of the Mountaintop Mining/Valley Fill Status Report on the EIS stated that “the agencies formulated alternatives for the draft EIS that evaluate changes to the current restrictions on mountaintop mining operations in varying degrees.” Ex. 4, p. 5. This summary continued:

The alternatives use watershed size as a frame of reference as described below. This is considered a definitive and practical basis for comparing the economic and environmental consequences among the respective alternatives. A preferred alternative will not be determined until after the draft EIS has been circulated for public review and public comments have been considered.

Id. (emphasis added). Thus, in January 2001, there was no doubt that the United States believed that the Settlement Agreement required consideration of alternatives to restrict valley fills. A

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References are to the exhibit list and exhibits accompanying this letter.
Preliminary Draft EIS was issued in January, 2001. It contained three action alternatives that restricted valley fills to ephemeral or intermittent streams, retained the 100-foot stream buffer zone (SBZ) rule, and required adequate soil practices and forestry PMLUs. Ex. 3, pp. ES-6, IV-1. Different versions of these same alternatives were present in later drafts until June 2002. For example, a March 2002 draft stated:

The most significant distinction between the four alternatives is how each one addresses Issue 1, “Direct loss of streams and stream impairment.” The question of what portions of a stream can be legally filled under SMCRA authority was central to the Bragg v. Robertson lawsuit. The District Court decision in that case established that the SMCRA stream buffer zone regulations at 30 CFR 816.57 and 817.57 do not allow mining activities (including valley fills) within 100 feet of intermittent or perennial streams. The Fourth Circuit Court of Appeals later vacated the District Court’s decision, but on grounds unrelated to the applicability of the stream buffer zone rule. Because of the atmosphere of regulatory uncertainty surrounding this issue, and the importance of allowable valley fill size to mine viability and environmental impacts, the agencies developed the EIS alternatives around it. Each alternative proposes different changes to regulatory programs that determine the allowable extent of stream loss through valley filling. The amount of valley filling that is allowable will affect the amount of mining that can occur, which in turn will determine the environmental and economic consequences of selecting a given alternative.

Ex. 21, Att., p. 5 (emphasis added). See also Ex. 24, p. IV-2. The Proposed Agenda for a June 18, 2002 Steering Committee meeting describes the four alternatives as follows:

<table>
<thead>
<tr>
<th>Table IV-1. Mountaintop Mining / Valley Fill EIS Alternative Summary</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Alternative A</strong></td>
</tr>
<tr>
<td><strong>Alternative B</strong></td>
</tr>
<tr>
<td><strong>Alternative C</strong></td>
</tr>
</tbody>
</table>
Alternative D

Valley fills could be located only in the ephemeral portion of streams. Permit-by-permit baseline data collection would be more limited than under Alternative B, and alternative analyses would demonstrate that minimization of downstream or indirect impacts were considered. Mitigation could include compensation in lieu of in-kind replacement of lost aquatic function and value.

Ex. 9, p. 1.

C. In October 2001, the Deputy Secretary of Interior Ordered a Complete Change in the Direction and Purpose of the EIS

However, on October 5, 2001, J. Steven Griles, Deputy Secretary of the U.S. Department of the Interior, issued a letter to the CEQ, Office of Management and Budget (OMB), EPA, and COE, stating in pertinent part:

We believe the [MTM/VF] EIS is the logical vehicle to address environmental protection and promote government efficiency, while meeting the nation’s energy needs... We do not believe that the EIS, as currently drafted, focuses sufficiently on these goals. We must ensure that the EIS lay the groundwork for coordinating our respective regulatory jurisdiction in the most efficient manner. At a minimum, this would require that the EIS focus on centralizing and streamlining coal mine permitting, and minimizing or mitigating environmental impacts.

Ex. 7, p. 1 (emphasis added). In an October 11, 2001 e-mail, Mike Robinson (OSM) explained:

OSM has received some executive direction from the Department of the Interior on a[n] overall theme for the EIS to embrace... It’s ... in line with the President’s desired direction for the energy policy. [T]he document was shared by Deputy Secretary Griles with many of the principals of our agencies this Monday at a meeting with the President’s [CEQ].

Ex. 8, p. 2.

In response to the Griles letter, OSM developed a “Vision” statement. See 10/19/01 Hoffman e-mail, Ex. 9 (“I’ve also included the ‘vision’ that OSM developed in response to the Griles letter”). In the heading of the OSM “vision statement” clearly appeared “the vision,” as follows:

The Vision: Streamline the regulation of valley fills by creating a “one-stop”

Ex. 9, p.1: “I’ve also included the ‘vision’ that OSM developed in response to the Griles letter.”
The drafters of the DEIS recognized that the “OSM Vision” represented a dramatic departure with “key changes” from the PDEIS – that is, that the DEIS gutted the substantive environmental restrictions contained in the PDEIS in favor of purely “process” alternatives. For example, a January 16, 2003 memorandum regarding “[MTM/VF] DEIS Background Information for Communications Team,” identified a series of “key issues that we anticipate will be raised when the DEIS is published for public review,” including the following: “In response to a 2001 FOIA request, an earlier version of the DEIS...” [was] released to the public... The current draft is different in several important respects, including the characterization of alternative actions being considered in the DEIS. (The earlier version focused on evaluation of alternative restrictions for limiting the size of valley fills as a way to limit environmental impacts. The current version is focusing on alternative “programmatic” improvements under permitting authority to satisfy all pertinent statutory requirements.)

Refocusing of the EIS: ... The EIS, as currently drafted, ... does not sufficiently consider options for centralizing and streamlining coal mine permitting. The scope of the EIS should be narrowed to focus on minimizing and mitigating impacts to the waters of the U.S. rather than the broad scope currently contained in the draft.

Needless to say, this is not a shining example of our Department having “spoken with one voice,” since I can find no evidence of anyone at FWS having reviewed or concurred with this approach. Regardless, based on my initial review, I find I cannot support this approach, if for no other reason than the record having amply demonstrated that it has been the absence of federal oversight, not its confounding influence, that has gotten us in the fix we are in now.

As the “OSM Vision” reshaped the EIS, it became clear that OSM was demanding to do away with the SBZ rule, not consider any requirement for reforestation, avoid regulation of “terrestrial impacts” altogether, and consolidate permitting authority in the OSM, the COE, and state SMCRA agencies (the development agencies) while diminishing the role of EPA and FWS (the environmental protection agencies). Ex. 10, 11, 12, 13, 19, 20. These objectives were
embodied in what was called “Alternative B,” which OSM had unilaterally 4 designated as the “preferred alternative.” Id. Alternative B contained the process changes necessary to “streamline” the permitting process and consolidate authority in the development agencies, while setting no substantive limits on fill size, location, or impacts. Ex. 24, p. IV-1. EPA’s William Hoffman summarized:

...OSM seems to be understating the “environmental criteria” aspects of the Section 404(b)(1) guidelines that must be satisfied before a decision to issue a permit can be made. OSM seems to be focusing solely on procedural aspects, which, if satisfied, will always lead to permit issuance ... even if the [environmental] impacts continue to be significant. If OSM focuses solely on incorporating the procedural aspects of the Section 404(b)(1) guidelines without including the “environmental criteria,” the Section 404/SMCRA merger will be incomplete. The reason this is troubling to me is a statement made ... by an OSM attorney which suggested that ... [a] permit will not be denied based upon environmental effects... We must make sure that the SMCRA rule changes incorporate performance standards that look at both process and environmental effects (material damage in OSM lingo) if the one stop permitting process is to work.

2/13/02 Hoffman e-mail, Ex. 15 (emphasis added and removed). Mr. Hoffman further explained:

OSM has been pushing hard to avoid requiring reforestation and PMLU controls, and to create a one-stop permitting process for mining with the State SMCRA agency as the regulatory agency for CWA 402 and 404 permitting... They [OSM] are going to propose rule changes at the same time the EIS goes out that would incorporate 404(b)(1) analyses into SMCRA regs and which would modify the stream buffer rule to permit fills under this “enhanced” State review process. As such, they are pushing for the selection of Alternative B in the EIS as the preferred alternative (fills would not be restricted to any particular watershed size or segment - but decisions would be made case-by-case under an improved regulatory scheme). Until the administration changed, we had agreed not to select any alternative as preferred, and wait to see how the public reacted to the different options. That’s all changed now under the current OSM regime.

2/27/02 Hoffman e-mail, Ex. 17 (emphasis added).

The “OSM Vision” is, in effect, a blatant attempt by political appointees in the Interior

CWA and SMCRA to ensure more effective environmental protection. Why were these key changes made?” Ex. 62, p. 2 (emphasis added).

4An EPA official stated: “This came right out of the blue last night. There has been absolutely no agency coordination (to my knowledge), and it flys [sic] in the face of all of our previous agreements not to designate a preferred alternative.” Ex. 10.
Department to unilaterally rewrite the Settlement Agreement without the consent of the parties to that litigation. As a plaintiff in Bragg, the Conservancy never agreed to OSM’s “Vision.” Instead, it agreed to the plain language in the Agreement. That “Vision” has become the driving force in the DEIS process, in place of the Settlement Agreement.

D. Shortly After June 2002, Senior Agency Executives Overruled the DEIS Steering Committee and Directed Adoption of a Revised Alternative Framework that Eliminated Any Restrictions on Valley Fills and Substituted Only Process Alternatives

EPA continued to argue in April, 2002 that the SBZ rule should be strengthened rather than eviscerated, and that a NWP 21 minimum impact threshold should be established, particularly within “Alternative B” since that alternative relied on a “project-by-project” review. Ex. 23. The draft of the EIS that existed in April, 2002, while setting forth “Alternative B” as the “preferred alternative,” still contained Alternatives C and D, which did contemplate substantive restrictions on fill size and placement. Ex. 24.

Mr. Griles participated in a meeting on April 29, 2002 about the EIS. Ex. 75. On May 22, 2002, the key agency officials working on the DEIS had a conference call with Mr. Griles to receive further directions on the content of that document. 5/16/02 Robinson e-mail, Ex. 25 (“Inasmuch as our principals may be meeting next Wednesday at the Deputy Secretary of Interior’s office...”); 5/17/02 Robinson e-mail, Ex. 26 (“I received word... from Deputy Secretary Griles’ office that the principals’ meeting next Wednesday will be by a conference call... [T]hey said that Holly Hopkins, Steve Griles’ assistant will be contacting WVDEP and the other agencies with the information.”); 6/14/02 Robinson e-mail, Ex. 33, Proposed Agenda, p. 10 (“The draft letter from Mr. Griles (DOI) to the Principals of the Steering Committee focuses on the issue of whether or not the DEIS should identify a preferred alternative, and recommends that ‘at a minimum, this requires identification of a preferred alternative.’”). On the day of the May 22, 2002 conference call to discuss the DEIS, Mr. Griles received a fax from Assistant Attorney General John Cruden that focused specifically on the text of the 1998 settlement agreement regarding that document. Ex. 27, 28. The clear implication of this fax is

OSM has suggested that “[n]o political appointees or coal industry representatives participated [in re-writing the EIS],” (6/2/03 Robinson e-mail, Ex. 73, Attachment, p. 1), and that “Mr. Griles was briefed early in 2001 on the status of the EIS by OSM career staff... [b]ut [o]ther than receiving routine briefing papers prepared by OSM for the Department, Mr. Griles has not been involved in finalizing the document.” Id. at 2. Any suggestion that Mr. Griles was not directly involved in the re-writing of the DEIS is at best inaccurate and at worst disingenuous.

See also Ex. 29, Attachment (“EPA Issues - MTM/VF EIS”), in which EPA advocated a minimum impact threshold for application of NWP 21, and “actions to ensure” that reforestation occurs after mining is completed.
that Mr. Griles was worried that the new direction of the DEIS may violate that agreement.

At a June 18, 2002 meeting, Steering Committee members reconsidered the alternative framework. Ex. 33, Proposed Agenda. EPA and the U.S. Fish and Wildlife Service (FWS) members of the Steering Committee took the position that the DEIS must consider alternatives to reduce environmental impacts. Id. at 8. They believed that “the new framework does not meet the NEPA requirements by providing a contrasting choices [sic] among several clear and distinct alternatives.” Id. at 2. As a result of this meeting, the Steering Committee changed the alternative framework, but still recommended inclusion of an alternative that “would represent the suite of actions that would result in the most environmentally-protective alternative (i.e., restricting fills to the ephemeral zone...).” Id. at 11. The Steering Committee approved that recommendation. 6/19/02 Hoffman e-mail, Ex. 34. These changes were incorporated into a new alternatives matrix table. 6/26/02 Robinson e-mail, Ex. 35.

However, shortly thereafter, the Steering Committee’s decision was overruled by the DEIS Executive Committee. Unnamed higher-level agency “executives instructed the SC to attempt to construct the alternatives for the EIS in a framework based largely on coordinated decision making for SMCRA and CWA–with no alternative restricting fills.” Ex. 41, 9/23/02 Agenda, p. 1. Minutes of a July 14, 2002 Executive Committee meeting show that a new three-alternative approach was adopted. 8/15/02 email, Ex. 38, Attachment: Executive Committee Discussion. As a result, the prior alternatives restricting valley fills were stripped from the DEIS. Instead, the new alternative framework considered only process alternatives.

E. The Revised Alternative Framework Violates the Settlement Agreement

In a devastating internal critique, the FWS explained why the revised alternative framework violates the Settlement Agreement:

The Fish and Wildlife Service has reviewed the September 20 draft of Chapter IV for the MTM/VF EIS. We previously proposed a four-alternative scenario that included consideration (not selection) of at least one alternative to restrict, or otherwise constrain, most valley fills to ephemeral stream reaches by employing the significant degradation or advance identification (ADID) provisions of the 404(b)(1) Guidelines. Our intent was to provide for consideration of at least one alternative that “developed agency policies, guidance, and coordinated decision-making processes” and minimized the impacts of mountaintop mining and valley filling on waters of the U.S. and fish and wildlife resources; a two-part goal established by the settlement agreement that we believe the three-alternative approach failed to accomplish. Our proposed approach was subsequently voted down within the Executive Committee in part because a decision appears to have been made that even relatively minor modifications of current regulatory practices are now considered to be outside the scope of the EIS process. The current three-alternative framework was adopted, but incorporated only a very limited ADID concept that does not meet our objectives. The September 20 draft retains the deficiencies contained in the previous three-alternative framework, and the full draft of
Chapter IV confirms our concerns. Therefore, we continue to object to the use of this approach. However, since the agencies are proceeding based on adoption of this approach, we do not believe that elevating this issue for higher level review would be helpful or productive. The following general comments are intended to provide you only with our sense of how problematic the proposed alternatives framework has become.

Now that the basic concept has been more fully elaborated in the September 20 write-up, it is painfully obvious to us that there are no differences between the three action alternatives that can be analyzed in a NEPA context. Table IV-2 (Comparison of Alternatives) underscores this fundamental shortcoming: Each of the three action alternatives offers only meager environmental benefits (thus a “two-star rating,” as with a budget hotel or B movie), and there is no difference between them -- even in their degree of meagerness. The relative economic effects of these alternatives are similarly indistinguishable. The reader is left wondering what genuine actions, if any, the agencies are actually proposing.

Table IV-1 states that the alternatives would “minimize” the adverse effects of mountaintop mining and valley fill construction; the “analysis of alternatives” section states that “all three alternatives will result in greater environmental protection that will fulfill the agencies EIS objectives.” As we have stated repeatedly, it is the Service’s position that the three “action” alternatives, as currently written, cannot be interpreted as ensuring any improved environmental protection, as stipulated in the settlement agreement, let alone protection that can be quantified or even estimated in advance for purposes of a NEPA analysis. Without providing clear indications of how the Corps would evaluate projects and reach decisions through either the nationwide permit or individual permit processes, and how the SMCRA agency would make its decisions under Alternative 3, the public will not be able to deduce whether impacts to waters under any of these alternatives would be any different than the no action alternative. Furthermore, the results of implementing individual action items whose “actions” do not produce an outcome (“will continue to evaluate,” “will work with the states to establish,” “will continue to assess,” “will continue to refine”), and of developing “Best Management Practices” whose use will be voluntary, are not likely to effect quantifiable, or even recognizable, improvements in environmental protection.

As we have already discussed ad nauseum, NEPA regulations describe the Alternatives section as “the heart of the environmental impact statement” which, in combination with the Affected Environment and Environmental Consequences sections, should “present the environmental impacts of the proposal and the alternatives in comparative form, thus sharply defining the issues and providing a clear basis for choice among options by the decisionmaker and the public.” Even after considering the necessarily broad, programmatic nature of this document, we have clearly failed to meet these standards.

The EIS technical studies carried out by the agencies -- at considerable taxpayer expense -- have documented adverse impacts to aquatic and terrestrial ecosystems, yet the
The alternatives and actions, as currently written, belie four years of work and the accumulated evidence of environmental harm, and would substitute permit process tinkering for meaningful and measurable change. Publication of a draft EIS with this approach, especially when the public has seen earlier drafts, will further damage the credibility of the agencies involved.

9/30/02 Densmore e-mail, Ex. 42, Attachment: FWS Comments (emphasis added). EPA’s Steering Committee member made similar criticisms of this new alternative framework, stating that “[i]t will not be clear to the public that any concrete steps are being proposed among the alternatives that directly address the environmental impacts.” 10/4/02 Forren email, Ex. 43, para. 3. The Steering Committee agreed that “additional efforts to better distinguish between the alternatives” were needed. 10/22/02 Peck email, Ex. 44, Discussion Summary, p. 2. Those efforts were minimal, because a week before the DEIS was issued, an EPA briefing statement anticipated that a major issue raised by the public would be: “Process v. Environmental Protection: Where’s the meat? What is being proposed that will improve environmental protection? What proposals will place limits on MTM/VF?” 5/21/03 Forren e-mail, Ex. 72, Briefing Outline.

F. The Narrow Focus and Purpose of the DEIS Eviscerates Its Utility as a Guide for Future Decisions on How to Minimize Environmental Impacts

The narrow focus of the DEIS eviscerates its utility for resolving the MTM/VF controversy, as envisioned by the Settlement Agreement. The Corps itself stated that:

The use of this document to Army and the Corps, if it does not include evaluations of all of the environmental impacts of Mountaintop Mining/Valley Fills, is minimal. We are proceeding with developing consistency within our agency on 1) waters of the U.S. jurisdictional extent, 2) a stream assessment protocol, 3) mitigation requirements and 4) minimal and cumulative impacts thresholds. Unless this document can serve as an umbrella document that can be tiered off of under NEPA, it does not serve a function for our agency.

Ex. 33, June 18, 2002 Proposed Agenda, p. 10. FWS also criticized the DEIS for its failure to articulate any substantive environmental protections:

To belabor a point I know you’re all sick of hearing, the “Why” in this case is supposed to be “to minimize, to the maximum extent practicable, the adverse environmental effects to waters of the United States and to fish and wildlife resources affected by mountaintop mining operations, and to environmental resources that could be affected by the size and location of excess spoil disposal sites in valley fills.” In the case of the alternatives framework that we’re working with, “Why?” is instead going to be the public’s response when they see that, to accomplish the EIS goal, all we’ve proposed is alternative locations to house the rubber stamp that issues the permits. Why on earth would we
even prepare an EIS on such a non-event as tinkering with the permit issuance process, UNLESS we also fully develop and provide the details on HOW each one of the alternatives is really going to minimize environmental impacts? ... Mike [Robinson (OSM)] said we don’t need to go into details because it’s a PROGRAMMATIC EIS... [W]here is it written that programmatic EIS’s should offer only vague alternatives ...? Again, it seems that hiding behind the “programmatic” veil that we as agencies have unilaterally chosen and defined, really violates the spirit of the settlement agreement.

10/30/02 Tibbott e-mail, Ex. 45 (emphasis added).

As it now stands, the DEIS is simply an analysis of which agency takes the lead role in making the decisions. There is no guidance on how those decisions should be made. The unresolved decisions include what streams should be protected, how many streams should be protected, how the buffer zone rule should be applied, how much forest should be preserved, and how mitigation requirements should be applied. The agencies have not addressed any of these issues in the DEIS or in any other NEPA document. Nor have they explained whether the different alternatives would reach different conclusions about these issues. As a result, the DEIS is useless as a means of guiding future decisions on minimizing environmental impacts, and all of these issues will have to be addressed in additional EISs in the future.

In sum, early drafts of the DEIS considered alternatives that were designed to minimize environmental impacts, as the Settlement Agreement required. OSM then substituted its own “vision” of one-stop permitting that unilaterally amended the Settlement Agreement. To carry out that unilateral amendment, the DEIS substitutes purely process alternatives that eviscerate the utility of the document in deciding how to minimize environmental impacts. Consequently, the DEIS violates the Settlement Agreement.

II. In Addition to Violating the Settlement Agreement, the DEIS Violates NEPA in Numerous Respects.

A. The DEIS Violates NEPA Because It Does Not Contain a Reasonable Range of Alternatives; All of the Alternatives Are “Process Alternatives” Without Any Substantive Differences.

The three “action alternatives” considered in the DEIS do not represent a legally sufficient range of alternatives because they are merely “process alternatives” without any substantive differences between them, or any substantive difference from the “no action alternative.” That is, the three “action alternatives” contemplate merely reshuffling the procedural responsibilities between the various agencies, and all three have the same or very similar environmental impacts. None of the alternatives consider substantive restrictions or changes from the status quo.

The DEIS directly states that “[a]ll alternatives ... are based on process differences and
not directly on measures that restrict the area of mining.” DEIS IV.G-3 (emphasis added). The DEIS further admits that “[t]he environmental benefits of the three action alternatives are very similar,” (DEIS II.B-13), and that “[t]he regulatory responsibilities ... are common to all the alternatives. However, the lead agency for each responsibility under the action could vary under each alternative.” DEIS II.C-25. The DEIS further explains: “This programmatic EIS is necessarily broad given its purpose of addressing policies, guidance, and coordinated agency decision-making processes... The proposed action alternatives are largely administrative and as a result, accurately projecting their environmental consequences is difficult.” DEIS IV.A-1. That the DEIS relies upon a fundamental misconception that it need not consider substantive environmental restrictions is evident also in the agenda for an Executive and Steering Committee meeting of November 21, 2002, which states:  

- Lack of environmental contrast; is a fill restriction component needed in Alternative 1 to provided [sic] most environmentally-protective alternative? ... 
- OFA states that NEPA compliance not satisfied; alternatives need not be limited to existing statutory authority — Should a “no mining” or other restrictive alternative be included?; 
- Counter: current contrast is “administrative” and similar environmental consequences is ok for programmatic DEIS and consistent with 1999 Notice of Intent and 1998 settlement agreement.

11/18/02 Hodgkiss e-mail, Ex. 52, Attachment (underlining added). As argued throughout these comments, a mere “administrative contrast” without distinguishable environmental restrictions or consequences between the alternatives is not consistent with the 1999 Notice of Intent, the Bragg settlement agreement, or NEPA requirements to consider a reasonable range of alternatives.

Members of the Executive and Steering Committees criticized the DEIS for this same reason. FWS stated that it “is painfully obvious to us that there are no differences between the three action alternatives that can be analyzed in a NEPA context.” Ex. 42, FWS Comments (emphasis added). The FWS further commented that “all we’ve proposed is alternative locations to house the rubber stamp that issues the permits.” 10/30/02 Tibbott e-mail, Ex. 45. EPA’s John Forren stated that: “On its face, the set of alternatives studied in detail in this DEIS do not represent the full range of alternatives . . .” 10/4/02 Forren email, Ex. 43. “[T]he principal distinction between the three proposed alternatives is which agency will take the lead role...” Id., Detailed Comments, para. 4. “A question that will surely be posed by some in the public is ‘They did an EIS to determine which federal agency should take the lead role?’” Id. (emphasis added). Similarly, EPA’s Wheeling Office commented:

The body of the report has excellent scientific information on the environmental impacts of MTM/VF mining. Unfortunately, it appears that information was not used in developing the Alternatives. It is not clear why Alternative 2 is the preferred alternative when the only major difference among the three alternatives seems to be which agency leads the permit process. The summary of the alternatives ... states that cross-program
actions minimizing adverse effects of mountaintop mining and valley fill construction on terrestrial resources and the public are identical in Alternatives 1, 2 and 3.

Ex. 55, Attachment: Comments, p. 1 (emphasis in original); see also, 12/29/02 George email, Ex. 56 (the DEIS’ “science findings are not reflected in [its] conclusions/recommendations”). EPA’s Greg Peck recommended consideration of a 50% restriction on first order streams in second order watersheds because it would “address our goal of sharply defining the differences among the alternatives and to address cumulative impacts, which he feels is lacking among the alternatives now.” 11/15/02 Forren email, Ex. 51. FWS’ Tibbott proposed applying the alternatives to a hypothetical mine project to understand what the consequences of each alternative were, but that proposal was rejected. 11/1/02 Robinson email, Ex. 46.

The CEQ’s NEPA regulations provide that the Record of Decision on an EIS must “[i]dentify all alternatives considered by the agency in reaching its decision, specifying the alternative or alternatives which were considered to be environmentally preferable.” 40 C.F.R. § 1505.2(b) (emphasis added). OSM has explained: “These actions (e.g., what may specifically be intended by the agencies in a record of decision following the final EIS – not some indefinite ‘future’ possible actions) will dictate the alternatives...” 6/10/02 Robinson e-mail, Ex. 29, p. 2. Any record of decision regarding MTM/VF operations in Appalachia will be unable to comply with this regulation because the DEIS does not identify or consider any alternative which is distinguishable from any other alternative in environmental consequences.

The court in Simmons v. United States Army Corps of Eng’rs, 120 F.3d 664, 666 (7th Cir.1997), stated the rule that “[t]he broader the purpose, the wider the range of alternatives.” Despite the DEIS’s admission that “[t]his programmatic EIS is necessarily broad,” (DEIS IV.A-1), however, the range of alternatives considered in the DEIS is quite narrow, containing no analysis of how stream loss will differ under the three alternatives nor any analysis of how much stream loss will be avoided under any particular alternative. DEIS IV.B-1, et seq. Instead, the DEIS merely makes the conclusory statement that “SMCRA and CWA program improvements common to the action alternatives ... will serve to reduce future direct stream loss,” (DEIS IV.B-3 (emphasis added)), and admits that “[t]he indirect impacts from MTM/VF will continue regardless of alternative selected by decision makers.” DEIS IV.B-5 (emphasis added). The DEIS fails to satisfy the NEPA requirement to consider an adequate range of alternatives because the DEIS does not consider any substantive restrictions, considering only rearrangements of existing procedural responsibilities between the relevant agencies.

NEPA requires an EIS to “present the environmental impacts of the proposal and the alternatives in comparative form, thus sharply defining the issues and providing a clear basis for choice among options by the decisionmaker and the public,” and to “rigorously explore and objectively evaluate all reasonable alternatives.” 40 C.F.R. § 1502.14 (emphasis added). In Friends of Southeast’s Future v. Morrison, 153 F.3d 1059 (9th Cir. 1998), the court summarized:

An EIS must describe and analyze alternatives to the proposed action. See Alaska Wilderness Recreation & Tourism Ass’n v. Morrison, 67 F.3d 723, 729 (9th Cir.1995).
Indeed, the alternatives analysis section is the “heart of the environmental impact statement.” 40 C.F.R. § 1502.14. The agency must look at every reasonable alternative within the range dictated by the nature and scope of the proposal. See Idaho Conservation League, 956 F.2d at 1520. **The existence of reasonable but unexamined alternatives renders an EIS inadequate.** See Alaska Wilderness Recreation & Tourism Ass'n, 67 F.3d at 729.

Id. at 1065 (emphasis added). In Simmons v. U.S. Army Corps. of Engineers, 120 F.3d 664 (7th Cir. 1997), where the plaintiffs opposed a plan to build a water reservoir, the court stated:

> As a matter of logic, ... [a certain alternative] is not absurd – which it must be to justify the Corps’ failure to examine the idea at all... “The existence of a viable but unexamined alternative renders an environmental impact statement inadequate.” (citation omitted)... If NEPA mandates anything, it mandates this: a federal agency cannot ram through a project before first weighing the pros and cons of the alternatives. In this case, the officials of the Army Corps of Engineers executed an end-run around NEPA’s core requirement. By focusing on the single-source idea, the Corps never looked at an entire category of reasonable alternatives and thereby ruined its environmental impact statement.

Id. at 669-70 (emphasis added). See also, State of Cal. v. Block, 690 F.2d 753, 767 (9th Cir. 1982) (enjoining release by the U.S. Forest Service of public lands to multiple use management because the programmatic EIS prepared by the agency, which dealt with management category designations for 62 million acres of National Forest Service land, did not consider any alternative which allocated more than one-third of the land to “wilderness” designation, and the agency’s selection of alternatives dictated an “end result” in which non-wilderness designations substantially exceeded wilderness designations, despite the fact that all of the land met the criteria for wilderness designation).

In contrast to the deficient EIS at issue in Simmons, the court in Northern Alaska Environmental Center v. Lujan, 961 F.2d 886 (9th Cir. 1992), found the EIS prepared by the U.S. Park Service for mining operations in the Yukon-Charley Rivers National Preserve (“Yukon”) to be adequate under NEPA. That EIS, in contrast to the MTM/VF DEIS, does contain different alternatives with environmentally distinguishable substantive restrictions and consequences. For example, the Yukon EIS uses “Resource Protection Goals” (RPGs) to quantify stream loss due to future mining under different alternatives. Ex. 1, p. 149.

The three “action alternatives” in the MTM/VF DEIS are purely process alternatives and provide no meaningful basis for analyzing or reducing environmental impacts. By failing to consider reasonable alternatives that would restrict the size, scope, and number of valley fills, the DEIS fails to consider a reasonable range of alternatives, as NEPA requires.

**B. The DEIS Violates NEPA Because It Adopts OSM’s “Vision” and Defines the DEIS’s Purpose and Scope in an Unreasonably Narrow Manner.**
The DEIS further violates NEPA in that it defines the purposes of its action to be so unreasonably narrow that only “process alternatives” can satisfy it, and therefore illegally rejects a broader range of substantive alternatives without analysis of their relative impacts. As we have shown, OSM redefined the purpose of the EIS from minimizing environmental impacts to streamlining permitting. The DEIS states that “[t]he proposed action alternatives are largely administrative and as a result, accurately projecting their environmental consequences is difficult.” DEIS IV.A.1. The DEIS admits that “[a]ll alternatives ... are based on process differences and not directly on measures that restrict the area of mining.” DEIS IV.G-3 (emphasis added). Although the DEIS states that “[o]ne of the principal goals of this EIS is to explore ways to minimize the adverse impacts on streams from [MTM/VF] construction,” (DEIS II.C-30), the narrow “process” purposes of the DEIS only allow it to “focus[] on the existing regulatory controls and alternatives to these controls that have a bearing on the direct loss of streams...” (DEIS II.C-30 to C-31), and force the DEIS to eliminate from consideration any direct restrictions on stream loss.

The CEQ’s NEPA regulations warn that a NEPA document is not to be used to justify a decision already made. 40 C.F.R. § 1502.2(g). Thus, “an agency may not define the objectives of its action in terms so unreasonably narrow that only one alternative ... would accomplish the goals of the agency’s action, and the EIS would become a foreordained formality.” Citizens Against Burlington, Inc. v. Busey, 938 F.2d 190, 196 (D.C. Cir. 1991), cert. denied, 502 U.S. 994 (1991). See also, Muckleshoot Indian Tribe v. U.S. Forest Service, 177 F.3d 800, 812-14 (9th Cir. 1999).

In Simmons, 120 F.3d at 666, the court explained:

When a federal agency prepares an [EIS], it must consider “all reasonable alternatives” in depth. 40 C.F.R. § 1502.14. No decision is more important than delimiting what these “reasonable alternatives” are. That choice, and the ensuing analysis, forms “the heart of the environmental impact statement.” 40 C.F.R. § 1502.14. To make that decision, the first thing an agency must define is the project’s purpose. See Citizens Against Burlington, Inc. v. Busey, 938 F.2d 190, 195-96 (D.C.Cir.1991). The broader the purpose, the wider the range of alternatives; and vice versa. The “purpose” of a project is a slippery concept, susceptible of no hard-and-fast definition. One obvious way for an agency to slip past the strictures of NEPA is to contrive a purpose so slender as to define competing “reasonable alternatives” out of consideration (and even out of existence). The federal courts cannot condone an agency’s frustration of Congressional will. If the agency constricts the definition of the project’s purpose and thereby excludes what truly are reasonable alternatives, the EIS cannot fulfill its role. Nor can the agency satisfy the Act. 42 U.S.C. § 4332(2)(E). [emphasis added]

In Davis v. Mineta, 302 F.3d 1104 (10th Cir. 2002), the plaintiffs sought to enjoin a highway project, including construction of a new bridge over the Jordan River in Utah, arguing that the defendants had violated NEPA by failing to consider reasonable alternatives. Citing, inter alia, Simmons, the Davis court held:
While it is true that defendants could reject alternatives that did not meet the purpose and need of the project, ... they could not define the project so narrowly that it foreclosed a reasonable consideration of alternatives... Further, if the Project did narrowly express its purposes and needs as requiring a new crossing across the Jordan River at 11400 South, we would conclude that such a narrow definition of Project needs would violate NEPA given the more general overarching objective of improving traffic flow in the area.

302 F.3d at 1119 (citations omitted) (emphasis added).

Similarly, here, by focusing on the “OSM Vision” to “[s]triamline the regulation of valley fills by creating a ‘one-stop’ permitting authority to satisfy all pertinent statutory requirements” (Ex. 9), and eliminating an entire category (i.e., substantive restrictions) of reasonable alternatives, the DEIS violates NEPA. See, e.g., Simmons, 120 F.3d at 670 (“By focusing on the single-source idea, the Corps never looked at an entire category of reasonable alternatives and thereby ruined its environmental impact statement.”). See also, Blue Mountains Biodiversity Project v. Blackwood, 161 F.3d 1208, 1215 n.6 (9th Cir. 1998) (denouncing “[e]xpediency and prejudice in favor of logging over NEPA compliance and adequate concern for the environment.”).

C. The Alternatives Considered in the DEIS Violate NEPA and Defeat the Purpose of a Programmatic EIS Because They All Defer Analysis to Future “Case-by-Case” Decisions on Mining Activities, and Are Not Designed to Address and Reduce the Cumulative Impacts of Those Decisions.

The alternatives considered in the DEIS fail to meet the requirements of NEPA because they all rely on future “case-by-case” analyses. This precludes effective analysis of cumulative impacts, impermissibly segments mining activities into individual mines, and defeats the purpose of a programmatic EIS. That is, any alternative which would have evaluated cumulative or regional impacts was not carried forward in the DEIS, while all of the alternatives which are considered in the DEIS are based on “site-specific” analyses only. See DEIS II.D-1, regarding “Alternatives Considered But Not Carried Forward in this EIS,” stating: “Other alternatives evaluated [but not carried forward] used cumulative impact measures to limit the size, location, and number of valley fills in a given cumulative impact area.” Specifically, the DEIS explains: “A number of alternatives with restrictions ... based on cumulative impacts ... were considered and dismissed... The existing data do not show that an across-the-board cumulative impact threshold could replace case-specific evaluations of all MTM/VF and other disturbances within a defined CIA [(cumulative impact area)]/watershed.” DEIS II.D-6.

NEPA requires an agency to consider the cumulative impact of the proposed action together with “other past, present, and reasonably foreseeable future actions.” 40 C.F.R. § 1508.7. The CEQ has further explained in its 1997 guidance document on cumulative impact analysis that: “If ... significant cumulative effects would occur as a result of a proposed action, the project proponent should avoid, minimize, or mitigate adverse effects by modifying or adding alternatives.” CEQ, “Considering Cumulative Effects Under the National Environmental
“Cumulative impacts can result from individually minor but collectively significant actions...” 40 C.F.R. § 1508.7. A NEPA document must “catalogue adequately the relevant past projects in the area.” City of Carmel-by-the-Sea v. U.S. Dep’t of Trans., 123 F.3d 1142, 1160 (9th Cir. 1997). It must also include a “useful analysis of the cumulative impacts of past, present, and future projects [which] requires a discussion of how [future] projects together with the proposed ... project will affect the environment.” Id. The NEPA document must analyze the combined effects of the actions in sufficient detail to be “useful to the decision-maker in deciding whether, or how, to alter the program to lessen cumulative impacts.” Id. Detail is therefore required in describing the cumulative effects of a proposed action together with other proposed actions. Neighbors of Cuddy Mountain v. USFS, 137 F.3d 1372, 1379 (9th Cir. 1998). A meaningful cumulative impact analysis “must identify (1) the area in which the effects of the proposed project will be felt; (2) the impacts that are expected in that area from the proposed project; (3) other actions—past, present, and proposed, and reasonably foreseeable—that have had or are expected to have impacts in the same area; (4) the impacts or expected impacts from these other actions; and (5) the overall impact that can be expected if the individual impacts are allowed to accumulate.” Grand Canyon Trust v. FAA, 290 F.3d 339, 345 (D.C. Cir. 2002). See also, Blue Mountains Biodiversity Project v. Blackwood, 161 F.3d 1208, 1214-1215 (9th Cir. 1998); City of Tenakee Springs v. Clough, 915 F.2d 1308, 1312 (9th Cir. 1990); Friends of the Earth v. U.S. Army Corps of Engineers, 109 F. Supp.2d 30, 41 (D.D.C. 2000).

Federal agencies cannot “evade their responsibilities” under NEPA by “artificially dividing a major federal action into smaller components, each without a ‘significant’ impact.” Coalition on Sensible Transportation, Inc. v. Dole, 826 F.2d 60, 68 (D.C.Cir. 1987). That is, cumulative impacts analysis cannot be avoided by “segmenting” the project. NEPA requires “that an agency consider the effects of several related actions in a single EIS in appropriate circumstances. ‘Not to require this would permit dividing a project into multiple ‘actions,’ each of which individually has an insignificant environmental impact, but which collectively have a substantial impact.”’ Churchill County v. Norton, 276 F.3d 1060, 1076 (9th Cir. 2001), quoting Thomas v. Peterson, 753 F.2d 754, 758 (9th Cir. 1985). Valley fills fit the classic paradigm of cumulatively significant actions, where “[d]ozens of small operations of a single type incrementally contribute to deterioration of water quality in a common drainage stream.” Sierra Club v. Penfold, 664 F.Supp. 1299, 1303 (D.Alas. 1987), aff’d., 857 F.2d 1307, 1320-22 (9th Cir. 1988). “While the operations are not functionally or economically interdependent, their impacts are interdependent and require common analysis.” Id. at 1304. In Penfold, as here, a federal agency had granted numerous permits for mining in a watershed without considering their cumulatively significant effects. The court held that an EIS was required. Id. at 1305. Other courts have similarly held that the successive dumping of material into the same area requires analysis of cumulative impacts in an EIS. NRDC v. Callaway, 524 F.2d 79, 87-89 (2nd Cir. 1975); Manatee County v. Gorsuch, 554 F.Supp. 778, 793 (M.D. Fla. 1982); National Wildlife Federation v. Benn, 491 F.Supp. 1234, 1248-52 (S.D.N.Y. 1980).

The three action alternatives considered in the DEIS fail to meet the requirements of
NEPA because they all rely on “case-by-case” analyses and therefore preclude effective analysis of cumulative impacts. Any alternative which would have evaluated cumulative or regional impacts was not carried forward in the DEIS, while all of the alternatives which are considered in the DEIS are based on “site-specific” analyses only. See DEIS II.D-1, 6. Each of the alternatives considered in the DEIS, therefore, would impermissibly segment mining activities into individual mines covering a small area, even though it is highly likely that mining will continue over a much wider geographic area until coal reserves are exhausted. The DEIS thus defeats the purpose of a programmatic EIS – consideration of alternatives for reducing cumulative impacts – by only considering alternatives that defy cumulative impacts analysis and rely entirely on case-by-case analyses.

Cumulative impact analysis is precisely the function of a programmatic EIS. “The CEQ regulations require that so-called ‘connected’ or ‘cumulative’ actions be considered in a single EIS. 40 C.F.R. § 1508.25(a)(1), (a)(2); ... ‘Where there are large-scale plans for regional development, NEPA requires both a programmatic and a site-specific EIS...’” Churchill County, 276 F.3d at 1076 (citation omitted; emphasis added). The Second Circuit has stated:

The purposes of NEPA are frustrated when consideration of alternatives and collateral effects is unreasonably constricted. This can result if proposed agency actions are evaluated in artificial isolation from one another. Accordingly, an agency is required to consider the full implications of each decision in light of other potential developments in the area, and to prepare a comprehensive impact statement if several projects are significantly interdependent.

Greene County Planning Bd. v. Federal Power Comm’n, 559 F.2d 1227, 1232 (2d Cir. 1976), cert. denied, 434 U.S. 1086 (1978) (emphasis added). In Scientists’ Inst. for Pub. Info., Inc. v. Atomic Energy Com’n., 481 F.2d 1079, 1086-1088 (D.C. Cir. 1973), the court quoted from a 1972 CEQ memorandum on this issue and observed:

7This NEPA “cumulative impacts” violation is distinct from the CWA “minimal cumulative impacts threshold” violation discussed below in which the “case-by-case” approach advocated in the DEIS for all alternatives is inherently inconsistent with the requirement in Section 404(e) of the CWA that activities permitted under NWPs cannot have more than minimal cumulative adverse effects on the environment.

8See, e.g., DEIS IV.I-1 (“[T]he demand for central Appalachian coal will likely increase at some point in the future.”); DEIS ES-2 (“The U.S. Department of Energy (DOE) estimated in 1998 that 28.5 billion tons of high quality coal ... remain in the study area. DOE reported about 280 million tons of coal were extracted by surface and underground mining from the study area in 1998. Coal produced from the study area continues to provide an important part of the energy needs of the nation. Regionally, coal mining is a key component of the economy[,] providing jobs and tax revenue. Almost all of the electricity generated in the area comes from coal-fired power plants... [C]oal production remains high...”).
This section will focus on ... the [Commission’s suggested] possibility of substituting an “environmental survey” for a NEPA statement... The Commission takes an unnecessarily crabbed approach to NEPA in assuming that the impact statement process was designed only for particular facilities rather than for analysis of the overall effects of broad agency programs. **Indeed, quite the contrary is true.**

“Individual actions that are related either geographically or as logical parts in a chain of contemplated actions may be more appropriately evaluated in a single, program statement. Such a statement also appears appropriate in connection with ... the development of a new program that contemplates a number of subsequent actions. ... *The* program statement has a number of advantages. It provides an occasion for a more exhaustive consideration of effects and alternatives than would be practicable in a statement on an individual action. *It ensures consideration of cumulative impacts that might be slighted in a case-by-case analysis.*”

*See also, Tex. Committee on Natural Resources v. Bergland, 433 F.Supp. 1235, 1252 (E.D.Tex. 1977), rev’d on other grounds, 573 F.2d 201 (5th Cir. 1978), citing the 1972 CEQ Memorandum for the proposition that “[t]he CEQ has ... issued guidelines stating the advantages of a programmatic EIS.”* These “advantages of a programmatic EIS” were noted also by the court in *Ass’n. of Pub. Agency Customers v. Bonneville Power, 126 F.3d 1158, 1184 (9th Cir. 1997)*, where the court observed: “In many ways a programmatic EIS is superior to a limited, contract-specific EIS because it examines an entire policy initiative rather than performing a piecemeal analysis within the structure of a single agency action.” (emphasis added).


Two distinct tiers of environmental review may be applicable to some “major Federal actions.” Site-specific EISs constitute a second tier in the discussion and analysis of impacts on the environment. ... “The first tier EIS should focus on broad issues such as mode choice, general location and areawide air quality and land use implications of alternative transportation systems.” A programmatic EIS reflects the broad environmental consequences attendant upon a wide-ranging federal program. The thesis underlying programmatic EISs is that a systematic program is likely to generate disparate yet related impacts. *This relationship is expressed in terms of “cumulation” of impacts or “synergy” among impacts that are caused by or associated with various aspects of one big Federal action. Whereas the programmatic EIS looks ahead and assimilates “broad

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issues” relevant to one program design, the site-specific EIS addresses more particularized considerations arising once the overall program reaches the “second tier,” or implementation stage of its development. In evaluating a comprehensive program design an agency administrator benefits from a programmatic EIS which indubitably “promote(s) better decisionmaking.” ... The Supreme Court has held that the environmental consequences of proposed actions must all be considered together in a single, programmatic EIS when their impacts will have a compounded effect on a region. “Cumulative environmental impacts are, indeed, what require a comprehensive impact statement.” In other words, if the “major Federal action” at issue consists of a number of related enterprises associated within a single program and planned together, then their joint effects should probably also be considered together. This proceeds from the requirement that the scope of the federal action be accurately characterized to ensure that an EIS of equivalent scope is prepared.

(emphases added and removed). The court further explained, regarding “program segmentation:”

Quite simply, “(s)egmentation of a large or cumulative project into smaller components in order to avoid designating the project a major federal action has been held to be unlawful.” We assume this same proscription would apply if an agency sought to evade its NEPA responsibility to consider programmatic environmental impacts. The existence of a comprehensive program with cumulative environmental effects cannot be escaped by disingenuously describing it as only an amalgamation of unrelated smaller projects.

677 F.2d at 890 (citation and footnote omitted) (emphasis added).

Further, not only must cumulative “proposed action” impacts be considered together in a programmatic EIS, but so also must cumulative “foreseeable action” impacts. As explained in Texas Committee on Natural Resources v. Van Winkle, 197 F. Supp.2d 586, 617 (N.D.Tex. 2002): “[E]ven if a foreseeable, future action is not a proposed action such that it does not need to be analyzed and decided in the same EIS, the cumulative impacts of this foreseeable action nevertheless must be analyzed in the EIS.” (citation omitted). Similarly, in Cady v. Morton, 527 F.2d 786, 795 (9th Cir. 1975), the court held that an EIS limited to studying the effects of a 770 acre 5-year plan for coal strip mining was inadequate, and that an EIS encompassing the entire 20-year project contemplated by coal leases approved by the Secretary of the Interior was required. The Cady court explained:

While it is true that each mining plan prepared for tracts within the leased area is to a significant degree an independent project which requires a separate EIS with respect to each, it is no less true that the breadth and scope of the possible projects made possible by the Secretary’s approval of the leases require the type of comprehensive study that NEPA mandates adequately to inform the Secretary of possible environmental consequences of his approval.
In Ballard, the court held:

At a minimum, this Court must order the Defendants to take a ‘hard look’ at the

Finally, this programmatic DEIS cannot defer cumulative impacts analysis to future site-specific EISs, even if the cumulative impacts analysis necessitates some degree of “forecasting and speculation” at the programmatic level. In Kern v. U.S. Bureau of Land Management, 284 F.3d 1062 (9th Cir. 2002), plaintiffs challenged the adequacy of an EIS prepared by the BLM in connection with a resource management plan (RMP), under which site-specific timber sales would be governed. The BLM argued, inter alia, that detailed environmental analysis need not be undertaken by the EIS for the RMP because such analyses would be undertaken at the site-specific level. The court rejected this argument, holding:

An agency may not avoid an obligation to analyze in an EIS environmental consequences that foreseeably arise from an RMP merely by saying that the consequences are unclear or will be analyzed later when an EA is prepared for a site-specific program proposed pursuant to the RMP. “[T]he purpose of an [EIS] is to evaluate the possibilities in light of current and contemplated plans and to produce an informed estimate of the environmental consequences.... Drafting an [EIS] necessarily involves some degree of forecasting.” City of Davis v. Coleman, 521 F.2d 661, 676 (9th Cir.1975) (emphasis added). ... Once an agency has an obligation to prepare an EIS, the scope of its analysis of environmental consequences in that EIS must be appropriate to the action in question. NEPA is not designed to postpone analysis of an environmental consequence to the last possible moment. Rather, it is designed to require such analysis as soon as it can reasonably be done. See Save Our Ecosystems v. Clark, 747 F.2d 1240, 1246 n. 9 (9th Cir.1984) (“Reasonable forecasting and speculation is ... implicit in NEPA, and we must reject any attempt by agencies to shirk their responsibilities under NEPA by labeling any and all discussion of future environmental effects as ‘crystal ball inquiry,’” quoting Scientists’ Inst. for Pub. Info., Inc. v. Atomic Energy Comm’n, 481 F.2d 1079, 1092 (D.C.Cir.1973)). If it is reasonably possible to analyze the environmental consequences in an EIS for an RMP, the agency is required to perform that analysis.

284 F.3d at 1072 (emphasis added).

In the present case, the alternatives considered in the DEIS fail to meet the requirements of NEPA because they all rely on “case-by-case” analyses, precluding effective analysis of cumulative impacts, impermissibly segmenting mining activities into individual mines, and defeating the purposes of a programmatic EIS. “[C]umulative impact analysis must be timely. It is not appropriate to defer consideration of cumulative impacts to a future date when meaningful consideration can be given now.” Id. at 1075. See also, Defenders of Wildlife v. Ballard, 73 F. Supp.2d 1094, 1112-1114 (D. Ariz. 1999).  

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10In Ballard, the court held:

At a minimum, this Court must order the Defendants to take a ‘hard look’ at the
The FWS similarly criticized the MTM/VF DEIS, stating:

Mike [Robinson (OSM)] and I argued ... over the need to provide details on how the programs would evaluate permits under each of the alternatives. Mike said we don’t need to go into details because it’s a PROGRAMMATIC EIS... [W]here is it written that programmatic EIS’s should offer only vague alternatives – especially a programmatic EIS that involved four years of studies that documented environmental impacts that need to be dealt with? Again, it seems that hiding behind the “programmatic” veil that we as agencies have unilaterally chosen and defined, really violates the spirit of the settlement agreement.

10/30/02 Tibbott e-mail, Ex. 45.11

That the DEIS relies upon a fundamental misconception that it need not consider substantive environmental restrictions - but only reshuffling of “administrative” tasks - due to the “programmatic” nature of the EIS is evident also in the agenda for an Executive and Steering Committee meeting of November 21, 2002, which states:

Issues Raised During Preparation:
- Lack of environmental contrast; is a fill restriction component needed in Alternative 1 to provided [sic] most environmentally-protective alternative? ...
- OFA states that NEPA compliance not satisfied; alternatives need not be limited to existing statutory authority — Should a “no mining” or other restrictive alternative be included?;
- Counter: current contrast is “administrative” and similar environmental consequences is ok for programmatic DEIS and consistent with 1999 Notice of
D. None of the Three Alternatives Considered in the DEIS Should Be Adopted

All three of the alternatives considered in the DEIS are fatally flawed. They are purely process alternatives that should be discarded and replaced with alternatives that actually reduce the cumulative environmental impacts of mountaintop removal mining and valley fills.

Even if they could be adopted, there is no rational basis for choosing which of the three is the best alternative. First, the three alternatives are internally contradictory. Under Alternative 1, valley fills are presumed to have more than minimal adverse effects and need an individual 404 permit. DEIS II.B-3. Under Alternative 3, valley fills are presumed to have minimal effects and qualify for a NWP 21 authorization. Id. Under Alternative 2, valley fills may or may not have more than minimal adverse effects, depending on case-by-case determinations. Id. The DEIS does not explain why the effects of a valley fill, and the type of 404 permit used, should change depending on which alternative is selected. In reality, the impacts are fixed regardless of which alternative is selected.

Second, the DEIS never specifically explains why Alternative 2 is the preferred alternative and is better than the other two. It makes the general claim that it is “because of the improved efficiency, collaboration, division of labor, benefits to the public and applicants, and the recognition that some proposals will likely be suited for IPs, and others best processed as Nationwide Permit (NWP) 21.” DEIS ES-5. These benefits are entirely procedural, and do not explain in any way why, or how, better procedures will lead to better decisions or better protection of the environment.

Third, it is impossible for the public to discern from the DEIS what difference any of the alternatives will make in terms of environmental impacts. On the contrary, the DEIS admits that the environmental benefits, if any, of the three alternatives are the same. See, e.g., DEIS II.B-13, II.C-25, IV.A-1, IV.G-3.

E. The DEIS Violates NEPA By Not Analyzing Alternatives to Restrict Valley Fills, Stream Loss, Deforestation, and Use of NWPs

NEPA requires that an EIS “[r]igorously explore and objectively evaluate all reasonable alternatives” to the federal action. 40 C.F.R. § 1502.14(a); Bob Marshall Alliance v. Hodel, 852 F.2d 1223 (9th Cir. 1988), cert. denied, 489 U.S. 1066 (1988). The purpose of this “rigorous” analysis is to “provid[e] a clear basis for choice among options by the decisionmaker and the

Intent and 1998 settlement agreement.

11/18/02 Hodgkiss e-mail, Ex. 52, Attachment (underlining added). A mere “administrative contrast” without distinguishable environmental restrictions or consequences between the alternatives is not consistent with the 1999 Notice of intent, the Bragg settlement agreement, or NEPA.
Establishment of a minimal cumulative impact threshold does not preclude a finding that such threshold has already been exceeded, which has in fact occurred.

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1. Restrictions on Valley Fill Sizes Should Be Considered

Restrictions on valley fill sizes, either individually or cumulatively, should have been considered because the studies contained in the DEIS demonstrate that while the cumulative environmental harm caused by past and future valley fills is enormous, the economic impact of valley fill size restrictions is tiny.

Regarding the correlation between valley fill size and environmental harm, the DEIS states that: “[t]he size, number, and location of valley fills correlate with direct loss of streams and riparian and terrestrial habitats,” (DEIS II.C-45), and case studies demonstrate that “direct impacts to streams may be greatly lessened” by “reducing the ... size of the excess spoil fill.” DEIS IV.I-9. In fact, a March 2002 EPA options paper states that a “con” to “[s]election of Alternative B (unrestricted watershed, project by project review)” is that it: “Will appear inconsistent with findings of tech studies, including economics, and with stated purpose of EIS to reduce impacts.” Ex. 18, Attachment, p. 1. Conversely, the same options paper explains that “[s]election of Alternative C (Restricts fills to intermittent zone #250 acre watersheds)” is: “Most consistent with findings of tech studies.” Id. The options paper further states that “[s]election of Alternative D (Restricts fills to ephemeral zone #75 acre watersheds)” has the “[l]east direct impact on the aquatic ecosystem.” Id. at 2.

The record shows that OSM vetoed fill restrictions because they would reduce environmental impacts. The civilian head of the U.S. Army Corps of Engineers stated in a March 11, 2003 email that “OSM is very sensitive about the message that [valley fill] thresholds result in improved environmental quality. If that were the case, then the real message is that [a] 200 [acre threshold] would be better, 100, better yet and 0 fills, best of all.” March 11, 2003 email from George Dunlop to Chip Smith, Ex. 68, Attachment. “Instead, the focus needs to be on stream protocols and the relative quality for each stream.” Id. The MTM/EIS Executive Committee admitted that this approach is counterintuitive: “Even without scientific data on the

12 Establishment of a minimal cumulative impact threshold does not preclude a finding that such threshold has already been exceeded, which has in fact occurred.
relationship of fill size to indirect impacts, it is intuitive to justify a minimal threshold based on
the concept that ‘smaller fills are better than larger fills’ with respect to direct impacts on aquatic
habitat buried by fills.” Ex. 65, Agenda, p. 3.

The failure to consider fill restrictions also cannot be justified on economic grounds. The
DEIS explains that “in most situations the restriction would change the price of coal to less than
one dollar per ton,” and that “[t]he price of electricity would continue to rise approximately 1 to
2 percent across the scenarios; the impacts due to restrictions will have little effect on price.”
DEIS App. G, p. 6 (summary of Phase II Economics study by Hill and Associates) (emphasis
added). Even after adjusting the model inputs to be more favorable to the coal industry, the
change in the price of coal rose to only two dollars a ton. Id. at 7. The DEIS also observes that
“[t]he most restrictive scenario [limiting fills to 35-acre watersheds] would, under the worst
condition, cause up to a 20 percent reduction in direct coal mining employment in the region.”
Id. at 6 (emphasis added). However, “[c]oal mining earnings within West Virginia are 5% of
total state income (3% of employment); just over 1% of total earnings and employment in
Kentucky, and less than 1% of employment and income in Virginia and Tennessee.” DEIS IV.I-2.

Further, a major theme of the alternatives considered is that mitigation will reduce
environmental impacts, although the amount of impact reduction cannot be known because the
mitigation is site-specific. See, e.g., DEIS IV.I-2 - I-4. Direct valley fill restrictions would
similarly reduce impacts by an unknown but sizable amount and are therefore a valid alternative
that should have been considered. The DEIS states:

It is reasonable to presume that required mitigation costs (i.e., to offset valley fills) will
result in future MTM designs with reduced valley fill sizes. The economic studies in
Appendix G evaluated absolute fill restrictions to specific watershed sizes... [The
studies] provide a logical and parallel inference for potential general economic effects of
fill minimization. That is, since some of the economic studies show that absolute fill
restrictions increase mining costs due to additional material handling and use of different

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13See also, 1/10/03 Robinson e-mail, Ex. 60, Attachment: MWCI Analysis, p. 8: “As
stated in the H&A Final Report, ‘...it is evident that the electricity prices are quite insensitive to
the MTM/VF restrictions, showing differences of only 1%-2%, or 3% at the maximum.’ ...Consistent with the results obtained with coal tonnage and direct employment, the anticipated
1.15% increase in the base case from $0.01971/KW-Hr in 2002 to $0.02276/KW-Hr in 2010
overshadows price changes induced by potential valley fill restrictions...” (emphasis added). See
also, “Mountaintop Mining / Valley Fill DEIS Background Information for Communications
Team, January 16, 2003,” Ex. 62, p. 2: “As part of the studies conducted in conjunction with the
DEIS were studies to assess the economic impacts that would result from implementing actions
considering limits on the size of valley fills. Information from the economic studies ... suggest
that limits on the size of fills will have only minimal economic consequences on coal and
electricity prices.” (emphasis added).
equipment, it can be inferred that minimizing fills will to some degree also affect mining costs.

DEIS IV.I-3. The DEIS further explains:

[M]itigation to replace and restore aquatic functions lost beneath valley fills can be a costly endeavor. Therefore, the cost of compensatory mitigation can serve as an incentive to minimize valley fills in aquatic habitats.

DEIS II.C-47 (emphasis added). In other words, fill restrictions are just a more stringent method of mitigation. (Or, conversely, mitigation costs are just a more clumsy way of achieving fill-size restrictions.) Indeed, direct fill restrictions appear to achieve the goal of reduced fill size (and therefore less stream, forest and habitat loss) with greater accuracy than does imposing mitigation costs with the secondary effect of making larger fills less economically attractive. Certainly, direct fill restrictions more effectively limit environmental impacts in light of the fact that technological factors often prohibit actual mitigation\(^{14}\) and “result in greater consideration of in lieu fee arrangements.” DEIS II.C-49. Therefore, direct fill restrictions should have been considered as feasible alternatives to mitigation and/or “in lieu fee arrangements.”

2. Restrictions on Deforestation Should Be Considered

Restrictions on deforestation, either individually or cumulatively, should have been considered because, as explained in greater detail below in section G.1.b., MTM/VFs have already converted, and will continue to convert, huge portions of one of the most biologically diverse forest areas in the United States into grasslands. “When adding past, present and future terrestrial disturbance, the study area estimated forest impact is 1,408,372 acres which equates to 11.5% of the study area.” DEIS IV.C-1. Further, “[h]abitat changes will occur ... [involving] a shift from a forest dominated landscape to a fragmented landscape with considerably more mining lands and eventually grassland habitat,” (DEIS App. I., p. 93), and this “change in these habitats could put a number of species in peril.” DEIS App. I., p. v. For example, “forest loss in the West Virginia portion of the study area has the potential of directly impacting as many as 244 vertebrate wildlife species.” DEIS App. I., p. 86. These alterations of the ecosystem are profound and permanent. “Results from this study support the thesis that fundamental changes to the terrestrial environment of the study area may occur from mountaintop mining.” DEIS App. I, p. v (emphasis added). “Mountaintop mining and valley fill activities significantly affect the landscape mosaic... The result is an area drastically different from its pre-mining condition.”

\(^{14}\)Stream creation on filled area is very difficult in general due to the inability to capture sufficient groundwater flows necessary to provide a source.” DEIS III.D-18. “To date, no drainage structures observed appear to have successfully developed into a functional headwater stream (Appendix D).” DEIS III.D-19. “In summary, to date functioning headwater streams have not been re-created on mined or filled areas as part of mine restoration or planned stream mitigation.” DEIS III.D-20.
DEIS App. I, p. 23 (emphasis added). Further,

[R]e-establishing native hardwood forests on reclaimed mines is still experimental. We don’t know what the long-term success will be. Even if hardwood forests can be re-established, it should be intuitively obvious that they’ll be a drastically different ecosystem from pre-mining forests for generations, if not thousands of years...

6/26/01 Tibbott e-mail, Ex. 5, p. 1 (emphasis added). See also DEIS IV.A-4 (reforestation “may take hundreds of years”).

In the face of this serious and enduring environmental destruction, the DEIS does not consider any restrictions on deforestation. Instead, the alternatives considered in the DEIS include only meager attempts to “encourage” reforestation, although forestry post mining land use (PMLU) would remain purely voluntary under all of the alternatives, and actual reforestation could take hundreds of years, if it can be achieved at all. Currently, disincentives and barriers to reforestation are the norm. “[T]he use of grasses and legumes serves as the low cost, low-risk option for bond release. Even when the reclamation plan calls for the planting of trees, excessive compaction of the rooting medium, which severely reduces tree growth, is the norm.” DEIS III.B-9. “The predominant PMLU has included a bias towards salvaging ... soil materials that provide favorable chemical conditions for the growth of grasses and legumes, but have a negative impact on forest regeneration.” DEIS III.B-11. Current soil practices prevent reforestation and violate OSM regulations, because the post-mining soil supports lower quality vegetation than did the existing pre-mining soil. 30 C.F.R. § 816.22. “Production of soils that will support commercial forestry as part of mountaintop mining requires selective overburden handling and replacement procedures on a scale that has never been carried out in Appalachia.” DEIS III.B-15.

3. The Existing Alternatives in the DEIS Regarding Deforestation Are Inadequate and Ineffective

See also, DEIS IV.D-5: “[T]he permanent nature of filling would suggest that MTM/VF impacts to biotic interactions in headwater stream systems ... may constitute a[n] irreversible impact to this system in the study area.” (emphasis added). See also, Ex. 6, p. 6: “Unless reclamation practices are changed drastically, it can be assumed that this forest to grassland conversion is, for all practical purposes, permanent. Even if reclamation practices are changed, we must still consider the recovery of a functional mesophytic forest ecosystem as a long-term ecological experiment with uncertain results.” (emphasis added).

See also, Ex. 6, p. 4 (“Current reclamation practices result in conditions that discourage the re-establishment of trees.”); id., p. 5 (“The study found no evidence that native hardwood forests, including their herbaceous understory component, will eventually recolonize large mountaintop sites using current reclamation methods.”).
Despite this current lack of reforestation practices, the DEIS only considers one alternative—the compilation of a “Best Management Practices (BMP) manual” encouraging voluntary reforestation, and briefly ponders hypothetical legislation that might require reforestation. Regarding the “manual,” the DEIS states: “A BMP manual emphasizing the latest cost-effective reforestation techniques could encourage forestry-related PMLUs.” DEIS II.C-76. However, the DEIS admits that “the only difference between the No Action Alternative and the development and use of BMPs as part of Alternatives 1, 2, and 3 is that this action anticipates broader acceptance and use of the BMPs to improve reclamation to a forest land use.” DEIS IV.C-8. Thus, the DEIS simply assumes that the “BMP manual” will effectively encourage reforestation, without any support for this assumption and without any requirement for forestry as a PMLU, and in the face of the acknowledged fact that reforestation is not currently practiced due to significant technological barriers and economic disincentives.17 FWS’s Tennessee office states that reforestation initiatives recently failed in Kentucky, and “we do not believe landowners or the mining industry will show significant support for anything more than is required.” 1/02/03 Tibbott e-mail, Ex. 57, p. 1.

Regarding the “legislation,” the DEIS states: “If legislative authority is established by Congress or the states, then SMCRA regulatory authorities will require reclamation with trees as the post mining land use.” DEIS II.C-83 (emphases added); see also, DEIS IV.C-8 (“...this action, if implemented, would have legislative authorities enact changes to SMCRA...”). This “action” is no action at all. The DEIS contains no specific analysis or discussion of the hypothetical “legislation” or who, precisely, would “have legislative authorities” enact it. Further, the DEIS contains no explanation of why a forestry PMLU could not be implemented under existing authority.18

The consideration of alternatives addressing deforestation in the DEIS is insufficient to meet the requirements of NEPA because the environmental consequences of past, present, and foreseeable future deforestation are profound and permanent, and “BMP manual” suggestions that technologically infeasible and economically unattractive reforestation be voluntarily undertaken are insufficient to address this serious environmental harm. Restrictions on deforestation, either individually or cumulatively, should have been considered as feasible alternatives.

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17In fact, even “flat land” PMLUs are not being completed. “This investigation found that many sites are not being developed as envisioned when PMLU variances are granted, and that the supply of flat land seems to outweigh the demand.” Ex. 6, p. 4.

18See, e.g., DEIS III.B-15: “[T]he current regulations (which have been in place since May 16, 1983) require that selected overburden substitutes for soil be ‘equal to, or more suitable for sustaining vegetation than the existing topsoil, and the resulting soil medium is the best available in the permit area to support revegetation.’ Also, soil materials are to be redistributed in a manner that prevents excessive compaction of the materials.”
4. Restrictions on Stream Loss Should Be Considered

Restrictions on stream loss, either individually or cumulatively, should be considered because significant stream loss has occurred and will continue to occur, and the purpose of the EIS should be to minimize impacts on streams. The DEIS finds that “[d]irect impacts to 1,208 miles of streams is estimated based on the last 10 years of data ... [and] an additional thousand miles of direct impacts could occur in the next ten years.” DEIS App. I, pp. 66-67. When streams are filled or mined all biota living in the footprint of the fill or in the mined area are lost.” DEIS III.D-2. In addition, “[t]he projected potential adverse impacts [to riparian habitats] in ... West Virginia ... is 7,591 acres, or 3.2%. Approximately 55% of ... [such] impacts occur in first and second order streams which are important habitats to many species of ... wildlife.” DEIS App. I, p. vi. Further, the DEIS admits that “[v]alley fills are not ‘water dependent,’” and that “if a valley fill is proposed in a special aquatic site, upland alternatives ... are presumed to exist...” DEIS II.C-33. Moreover, the DEIS acknowledges that “[o]ne of the principal goals of this EIS is to explore ways to minimize the adverse impacts on streams from [MTM/VF] construction.” DEIS II.C-30 (emphasis added). In fact, FWS argued in August, 2002 in favor of including an alternative that restricted stream loss, explaining:

The ... action proposed ... would identify intermittent and perennial stream reaches as “generally unsuitable” for valley fills. In so doing, EPA and the Corps are signaling that, as a general matter, valley fills beyond the ephemeral reach are not likely to meet the requirements of the Guidelines. Given MTM/VF EIS findings on (previously little-understood) value of headwater streams; the degradation of aquatic life and water quality within and downstream of valley fills; the “persistence and permanence of the effects” (factors the Guidelines say should be given special emphasis); and the anticipated difficulty in developing meaningful compensatory mitigation for these impacts, the “unsuitable” designation is appropriate and logical.

8/21/02 Densmore e-mail, Ex. 39, Attachment, p. 1. However, this proposal “was subsequently voted down within the Executive Committee in part because a decision appears to have been made that even relatively minor modifications of current regulatory practices are now considered

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19 These figures reflect only the “directly impacted” (i.e., buried) streams, and not the streams which are significantly “indirectly” impacted (e.g., by toxic selenium levels or other impacts on stream chemistry, temperature, flow, energy, sedimentation, or biota (DEIS III.D-1 -D-8)) downstream from MTM/VF operations, (DEIS App. I, pp. iii-iv), which “indirect impacts ... will continue regardless of alternative selected by decision makers.” DEIS IV.B-5. Further, as the FWS has observed: “Even if EPA restricts consideration of impacts to the reach of stream below the filled reach, studies described in section III.D show that fills contribute to significant degradation to the overall chemical, physical, and biological integrity of adjacent waters. For example, below fills the ambient water quality criterion for selenium concentration is exceeded consistently, natural flow regimes are altered, and macroinvertebrate diversity is depressed.” 1/02/03 Tibbott e-mail, Ex. 57, p. 2.
outside the scope of the EIS process.” 9/30/02 Densmore e-mail, Ex. 42, Attachment, p. 1.

Further, as explained in detail in section II.H. of these comments, all of the alternatives considered in the DEIS – including the “no action alternative” – contemplate eliminating the stream buffer zone (SBZ) rule, which is the strongest current protection for intermittent and perennial streams, and which is, in some cases, the only protection for threatened or endangered species habitat. No alternative contemplates keeping the SBZ rule in place as it currently exists. The failure of the DEIS to consider any alternative which incorporates restrictions on stream loss renders the DEIS’s consideration of “all reasonable alternatives” insufficient to meet the requirements of NEPA, and restrictions on stream loss, either individually or cumulatively, should be considered as feasible alternatives.

5. Individual and Cumulative Minimal Impacts Thresholds for NWPs Should Be Considered

Finally, individual and cumulative minimal impact thresholds for NWPs should be considered because: (1) Section 404(e) of the CWA requires permitting agencies to determine whether individual and cumulative impacts are more than minimal, (2) MTM/VF activities do exceed the minimal impacts threshold on both an individual and cumulative basis, (3) the 250-acre individual threshold established in the Bragg agreement has reduced the size and number of valley fills, (4) the application of that threshold via the Bragg agreement specifically contemplated that this EIS would establish individual and cumulative minimal impact thresholds for NWPs, and (5) the DEIS illegally attempts to segment the required NEPA analysis by asserting that the establishment of minimum cumulative impact thresholds is “an independent action from this EIS.” DEIS II.B-16; II.C-5.

Section 404(e) of the CWA requires the Corps of Engineers to determine whether an individual activity will have more than minimal impacts both individually and cumulatively in conjunction with other past, present, and reasonably foreseeable future activities in the same category. Although the minimum cumulative impact threshold for permitting MTM/VF activities under NWPs has already been reached (as shown below in section II.G.1.b.), the Corps must nevertheless determine and establish where the individual and cumulative minimal impact thresholds lie.21

For example, FWS has stated that: “Protection of some plants is secured through minimization of the disturbance of specific habitats. For example, riparian species such as Cumberland rosemary and Virginia spiraea require protection of streams and adjacent areas. Adherence to the 100-foot buffer zone regulation fulfills these plants’ needs. Likewise, maintenance of a buffer zone along sandstone clifflines benefits the species that inhabit those areas ...” 12/20/02 FWS Letter, Ex. 54, p. 1 (emphasis added).

EPA stated in June, 2002, for example, that: “If Alternative B is to be selected, ... a minimum impact threshold must be developed for the purposes of triggering a more rigorous
MTM/VF activities in Appalachia clearly have had, are having, and will continue to have significant cumulative adverse effects on the environment. Similarly, it is clear that the impacts of individual valley fills may be more than “minimal,” because the DEIS itself states that “filling or mining stream areas even in very small watersheds has the potential to impact aquatic communities[,] some of which may be of high quality or potentially support unique aquatic species.” DEIS III.D-4 (emphasis added).

The DEIS illegally attempts to segment the required NEPA analysis by asserting that establishment of minimal impact thresholds is “an independent action from this EIS,” (See, e.g., DEIS II.B-16, II.C-5), and that such determinations are best left to “case-by-case assessments.” Id. The court in Marble Mountain Audubon Society v. Rice, 914 F.2d 179 (9th Cir. 1990), rejected a similar argument that the maintenance of a biological corridor need not be considered in a timber sale EIS because the corridor issue was “a forest-planning matter and therefore beyond the scope of [the EIS].” Id. at 182. Further, the “case-by-case” approach embraced by the alternatives in the DEIS is inherently inconsistent with the requirement in Section 404(e) of the CWA that activities permitted under NWPs cannot have more than minimal cumulative adverse effects. By segmenting each permit application and considering it in isolation from all other past, present, and reasonably foreseeable future applications, it is not possible to do a meaningful cumulative impact analysis. Rather, all of those other applications must be included in the cumulative impact analysis on a programmatic basis. The COE cannot restrict the cumulative impact analysis to a smaller subset of Appalachia, such as a discrete watershed.

The DEIS acknowledges that the 250-acre threshold established in Bragg is useful and effective in reducing the size and number of valley fills because “[t]he COE Huntington District found [that] this condition contributed to conscious attempts by the regulated coal industry to avoid the IP process by keeping proposed fill sizes below the 250-acre threshold.” DEIS II.C-5; see also, DEIS II.C-73 (“Based on the fact that there have been 5 individual permit applications compared to the 81 projects approved under NWP 21 in West Virginia, it appears [that] applicants are designing the majority of MTM/VF proposals to stay below the 250-acre minimal impact threshold and thereby avoid the IP process.”). Thus, the DEIS shows that the need for a minimal impacts threshold, both individually and cumulatively, exists, and that the 250-acre threshold has been proven to be useful and effective in addressing this need. Further, the FWS permit review process under CWA Section 404... The direct and indirect aquatic impacts from MTM/VF operations are arguably more than minimal, complicating the NWP 21 issue...” 6/10/02 Hoffman e-mail, Ex. 29, Attachment (“EPA Issues - MTM/VF EIS”). EPA further stated: “We believe NWP 21 minimal impact thresholds ... (individually and cumulatively) are required.” 6/14/02 Rider and Hoffman e-mails, Ex. 31, 32.

The OSM has argued that “other factors” could account for the fact that there were fewer valley fills following the institution of the 250-acre threshold. However, the self-serving nature of that position is belied by a March 11, 2003 from the COE’s George Dunlop, who explains: “[T]here should be discussion about the OSM perspective that there were other factors
in January, 2003, proposed a 75-acre threshold “based on data specifically collected for this EIS.” 1/28/03 Densmore e-mail, Ex. 66.23 Therefore, the DEIS should have considered individual and cumulative minimal impact thresholds for NWPs.

Indeed, the DEIS acknowledges that “[t]he 250-acre general minimal impact threshold was intended as an interim threshold based on the assumption that this EIS would find the basis for some other threshold for NWP 21 applicability.” DEIS II.C-73 (emphasis added). The DEIS is a bit schizophrenic, however, regarding whether it does, in fact, consider such a threshold. Although the DEIS repeatedly asserts that “[t]he extension of this [Bragg 250-acre] threshold through a regional permit condition by the COE is an independent action from this EIS,” (DEIS II.B-16; II.C-5), the DEIS incongruously also asserts that the 250-acre threshold arising via Bragg would continue to apply on a “regional” basis under the “preferred” Alternative 2. See, e.g., DEIS II.C-17 (“Action 1.2: The COE ... would make a case-by-case determination of the applicability of NWP 21, subject to a regional condition in certain geographic areas that valley fills proposed in watersheds larger than 250-acres would generally require IP processing”); DEIS IV.B-8 (“This [Bragg 250-acre threshold] would continue to apply to certain geographic locations under the No Action and Preferred (Alternative 2) Alternatives and it is anticipated that the consequences to fill size would continue.”). The DEIS muddies the waters even further by stating that under Action 12, applicable to all three action alternatives, “[t]he COE ... would compile data ... [to] be used to determine the extent of cumulative impact areas for appropriate resources and ascertain whether a “bright-line” cumulative impact threshold is feasible for CWA Section 404 MTM/VF permits.” DEIS II.C-69.

Thus, the DEIS simultaneously asserts that the Bragg 250-acre threshold was based on an assumption that this EIS would determine a minimal impacts threshold; that establishment of a minimal impacts threshold is “an independent action from this EIS;” that the Bragg 250-acre threshold would continue to apply under Alternative 2, but only on an undefined “regional” operating at the same time as thresholds and those other factors may have been the reasons that there were fewer valley fills after the thresholds were in place. OSM is very sensitive about the message that thresholds result in improved environmental quality. IF that were the case, then the real message is that 200 would be better, 100, better yet and 0 fills, best of all.” 3/12/03 Hodgkiss e-mail, Ex. 68, Attachment, p. 1. Further, a January 16, 2003 memorandum identified a series of “key issues that we anticipate will be raised when the DEIS is published for public review,” including the following: “Since smaller fills would seem to coincide with reduced environmental impacts, why is the current version of the DEIS not recommending such limits?” Ex. 62.

23That FWS proposal further notes that “OSM’s fill inventory indicates that historically, most valley fills have been [less than] 75 acres (70% of permits in VA, 81% in KY, 59% in WV),” and that “[p]revious studies in developing areas in the mid-Atlantic have noted that impacts to stream ecosystems are identifiable when [more than] 10% of a watershed is developed.” 1/28/03 Densmore e-mail, attachment at 2, n.1 and n.3 (A-167).
basis; and that under all three action alternatives the COE and other agencies would “compile
data” to be used in order to determine whether a minimal impacts threshold is “feasible.” This is
internally inconsistent on multiple levels. If the DEIS acknowledges that the Bragg agreement
included an “assumption” that this EIS would establish a minimal impacts threshold, why does the
DEIS also assert that such an action must be “independent from this EIS”? If such a
determination is necessarily external to the EIS, why is the threshold applicable under
Alternative 2? If the threshold is applicable under Alternative 2, why is it only applicable on a
“regional” basis, rather than to the entire Appalachian region covered by the DEIS? What is the
“region” to which the threshold would be applicable under Alternative 2? If this EIS determines
that the threshold should be applicable on a “regional” basis under Alternative 2, why must the
COE simultaneously “compile data” in order to determine whether such a threshold is “feasible”
(since the “data compilation” under Action 12 is applicable to all three action alternatives)? If
all three action alternatives under this EIS contemplate “data compilation” in order to determine
whether a minimal impacts threshold is “feasible,” why must the actual establishment of such a
threshold be “an independent action from this EIS”?

In any event, the DEIS is internally inconsistent and should be clarified. Further, if the
250-acre individual threshold would continue to apply under Alternative 2, but only in West
Virginia, then the DEIS fails to articulate any rationale for not applying the same threshold in the
entire Appalachian region covered by the DEIS. Further, the alternatives considered in the DEIS
illegally segment their consideration of the effects of MTM/VF operations, considering each
such operation in isolation from all past, present, and reasonably foreseeable future MTM/VF
operations, thereby failing to adequately consider the cumulative impacts of mountaintop
removal mining and valley fills in Appalachia. This “case-by-case” approach fails to fulfill the
fundamental purposes of NEPA and fails to satisfy the requirements of Section 404(e) of the
CWA. For these reasons, any alternative selected should determine minimal impact thresholds,
both individually and cumulatively.

6. The “No Fill” Alternative Should Be Considered

Federal case law discusses the NEPA requirement that agencies consider the alternative
of “total abandonment of the project.” Although the cases deal with public land, and
mountaintop removal mining would occur on private land, the streams which would be buried or
damaged by the valley fills are “waters of the U.S.” and are therefore analogous to the “public
land” at issue in the “total project abandonment” cases. Therefore, the MTM/VF DEIS must
consider a “no fill / no stream damage” alternative in order to present the decision-maker with
the full spectrum of possibilities. Although “mountaintop removals” may not be logistically
possible under the “no fill” alternative, that does not relieve the DEIS of the requirement to
consider the “no fill” alternative. As the courts have stated: “This requirement ... seeks to
ensure that each agency decision maker has before him and takes into proper account all possible
approaches to a particular project... Only in that fashion is it likely that the most intelligent,
optimally beneficial decision will ultimately be made.” Calvert Cliffs’ Coordinating Committee
v. U.S. Atomic Energy Commission, 449 F.2d 1109, 1114 (D.C. Cir. 1971). Put another way,
“[s]uch an alternative ... afford[s] the opportunity for scientific and public participation and
debate regarding the delicate balance between preserving natural resources and ... [resource] management.” Friends of Bitterroot, Inc. v. U.S. Forest Service, 900 F.Supp. 1368, 1374 (D.Mont. 1995). See also, All Indian Pueblo Council v. United States, 975 F.2d 1437, 1444 (10th Cir. 1992) (“NEPA requires a ‘detailed’ EIS ‘to ensure that each agency decision maker has before him and takes into proper account all possible approaches to a particular project (including total abandonment of the project) which would alter the environmental impact and the cost-benefit balance.’”) (citation omitted, italics in original, underlining added).24

In Friends of Bitterroot, the court remanded an EIS to the U.S. Forest Service with instructions that the agency was required to consider the “less environmentally damaging” alternative of preserving roadless lands in order to provide wildlife corridors essential for maintaining biological diversity. There, the USFS had not included any alternative which would have excluded logging of roadless areas, arguing that such an alternative would not have satisfied the “purposes” of the forest plan. The court rejected this argument, holding that the failure to “consider all reasonable alternatives so as to ensure an EIS fosters informed decision making” by “address[ing] an alternative preserving existing roadless lands” compelled the court to remand to the agency. The court’s decision was based in part on comments by the Montana Department of Fish, Wildlife & Parks that wildlife corridors were essential for maintaining biological diversity. The court in Friends of Bitterroot first observed that:

NEPA requires the preparation of an EIS ... to ensure each agency considers all possible approaches to a particular project (including total abandonment of the project) which would alter the environmental impact and the cost-benefit balance.

Id. at 1371 (citation omitted) (emphasis added). The court continued:

[P]laintiffs contend the Trail Creek EIS fails to adequately analyze all reasonable alternatives, including a less environmentally damaging alternative that would exclude logging and road building activity in existing roadless areas within the Beaverhead National Forest ... in order to preserve that area’s value as secure wildlife habitat. In response, defendants assert the alternative advanced by the plaintiffs would not have met the management goals ... of the Beaverhead National Forest Plan.

24See also, MTM/VF DEIS Agenda for Executive and Steering Committee Meeting of November 21, 2002, which states:

-Lack of environmental contrast; is a fill restriction component needed in Alternative 1 to provided [sic] most environmentally-protective alternative? ...
-OFA states that NEPA compliance not satisfied; alternatives need not be limited to existing statutory authority — Should a “no mining” or other restrictive alternative be included?

11/18/02 Hodgkiss e-mail, Ex. 52, Attachment (underlining added).
In the case *sub judice*, the Forest Service examined seven alternate courses of action... The action alternatives all called for varying degrees of timber harvesting in the Beaver Lakes roadless area. ...

[T]he extent defendants maintain an alternative aimed at preserving the Beaver Lakes roadless area would be “pointless,” based upon the goals of the Beaverhead Forest Plan,... [d]efendants position is contrary to NEPA’s underlying tenet, i.e., that agencies consider all reasonable alternatives so as to ensure an EIS fosters informed decision making. See, Idaho Conservation League v. Mumma, *supra*, 956 F.2d at 1519-20.

The Forest Service cannot deny there is some benefit to be derived from considering an alternative that preserves the Beaver Lakes roadless area. Plaintiffs, as well as the Montana Department of Fish, Wildlife & Parks, whose considerable expertise in the area of wildlife management is undisputed, expressed concerns that preservation of the Beaver Lake’s roadless area warranted full consideration in the Trail Creek NEPA process given the area’s high security value for wildlife...

[T]he NEPA process would have been properly served by development of an action alternative that preserved roadless lands in the Trail Creek area. Such an alternative would have afforded the opportunity for scientific and public participation and debate regarding the delicate balance between preserving natural resources and timber management.

Accordingly, the EIS’ failure to address an alternative preserving existing roadless lands in the Trail Creek area renders [sic] compels this court to REMAND this matter for further administrative proceedings.

*Id*. at 1373-74 (footnote and citations omitted) (emphases added).

Friends of Bitterroot is directly applicable to the MTM/VF DEIS, where both EPA and FWS have expressed grave concerns about the lack of alternatives containing substantive environmental and wildlife habitat protections. The DEIS has failed to consider any “no fill” alternative, or, indeed, any alternative containing substantive restrictions on the number, size, location, or impacts of valley fills, or substantive protections for forest ecosystems and riparian habitat. These failures render the DEIS inadequate so that it must be remanded for correction and reissued for public comment.

7. An “Environmentally Preferred” Alternative Should Be Considered

Similarly, an “environmentally preferred” alternative should be considered. 40 C.F.R. § 1505.2(b). At a June 18, 2002 Steering Committee meeting to reconsider the alternatives framework, EPA and FWS took the position that the DEIS must consider alternatives to reduce environmental impacts. Ex. 33, Proposed Agenda, p. 8. As a result of this meeting, the Steering Committee agreed on a revised framework which identified the “Environmentally Preferable Alternative” (“Alternative B”), which, among other things, “restrict[ed] fills to the ephemeral zone....” *Id*. at 11; 6/19/02 Hoffman email, Ex. 34, Proposed EIS Alternative Framework. A
later draft further developed this into the “most environmentally protective alternative.” 6/26/02 Robinson email, Ex. 35, Attachment.

Subsequently, FWS proposed another “‘environmentally preferred’ alternative,” identified as “Alternative 4.” 7/31/02 Tibbott e-mail, Ex. 36. FWS’ Alternative 4 would have applied the SBZ rule as written and applied the antidegradation policy to prohibit filling in intermittent and perennial streams (thus allowing fills only in ephemeral streams). Id. The FWS explained that this “environmentally preferred alternative:”

- Avoids setting undesirable CWA precedents (weakening the application of the antidegradation policy and the spirit and intent of the CWA itself; allowing out-of-kind mitigation to buy down impacts that are clearly more than ‘minimal’; allowing the issuance of NWPs for activities that are clearly more than ‘minimal’; issuing individual permits for activities that clearly cause ‘significant degradation’).
- Most closely responds to the adverse aquatic and terrestrial impacts documented by the EIS studies.
- Industry has demonstrated that it can still mine coal even if fills are restricted to the ephemeral zone...
- Allows the use of the 35-acre scenario in the EIS, giving us at least one alternative whose effects can actually be quantified in terms of environmental and economic consequences.

Id., Rationale, p. 1. “[T]he EPA and FWS Steering Committee members agree[d] that this version [of the alternatives which included this ‘alternative 4’] represent[ed] an accurate portrayal of possible viable contrasting alternatives...” 8/13/02 Robinson e-mail, Ex. 37, p. 1.

However, shortly thereafter, the Steering Committee’s decision was overruled by the DEIS Executive Committee. Unnamed higher-level agency “executives instructed the SC to attempt to construct the alternatives for the EIS in a framework based largely on coordinated decision making for SMCRA and CWA–with no alternative restricting fills.” Ex. 41, 9/23/02 Agenda, p. 1. According to FWS, its alternative “was subsequently voted down within the Executive Committee in part because a decision appears to have been made that even relatively minor modifications of current regulatory practices are now considered outside the scope of the EIS process.” 9/30/02 Densmore email, Ex. 42, FWS Comments, p. 1. Minutes of a July 14, 2002 Executive Committee meeting show that a new three-alternative approach was adopted. 8/15/02 e-mail, Ex. 38, Executive Committee Discussion. As a result, the prior alternatives restricting valley fills were stripped from the DEIS. Instead, the new alternative framework considered only process alternatives.

Thus, the DEIS irrationally dismissed every proposal for an “environmentally preferred” alternative. Any record of decision regarding MTM/VF operations in Appalachia will be unable to comply with 40 C.F.R. § 1505.2 because the DEIS does not identify any “environmentally preferred alternative” or consider any alternative which is distinguishable from any other alternative in terms of environmental consequences.
F. The DEIS Violates NEPA Because It Presents Irrational Reasons for Eliminating Reasonable Alternatives.

The DEIS violates NEPA because it does not present valid reasons for the elimination of reasonable alternatives from detailed analysis. The DEIS must present the reasons, in brief discussion, for the elimination of alternatives from detailed study. 40 C.F.R. § 1502.14. By failing to articulate valid reasons for the elimination of reasonable alternatives, the DEIS fails to satisfy this NEPA requirement.

The DEIS identifies eight “alternatives considered but not carried forward.” DEIS II.D-1. These eliminated alternatives were: 1) restriction of individual valley fill size based on the type of stream segments buried (ephemeral, intermittent or perennial); 2) restriction of individual valley fill size based on watershed size (35, 75, 150, and 250 acres); 3) establishment of “minimal impact thresholds” based on watershed size (75 or 250 acres) below which MTM/VF operations could be permitted under NWP 21 rather than individual CWA § 404 permits; 4) restricting individual valley fills based on maximum “cumulative impact thresholds;” 5) fill restrictions based on protecting high-value streams by designating all headwater streams as “generally unsuitable” for valley fills pursuant to the CWA Advanced Identification of Disposal Sites (ADID) process; 6) fill restrictions based on protecting high-value streams by designating all headwater streams as “special aquatic sites” pursuant to CWA § 404(b)(1); 7) fill restrictions based on protecting high-value streams by preserving all headwater streams with an EPA “advanced veto” pursuant to CWA § 404(c); and 8) prohibition of valley fills in waters of the U.S. based on the CWA’s “antidegradation policy.” DEIS II.D-1 - 9.

1. Even if There Were Insufficient Information to Draw a “Bright Line” Type of Restriction, Some Type of Individual or Cumulative Restriction on Valley Filling Must Be Considered

As the DEIS recognizes, there are many potential alternatives for restricting valley fills. They include restrictions on fill size (35, 75, 150, or 250-acre watersheds), fill location in different types of streams (ephemeral, intermittent or perennial), the percentage of streams in a particular watershed that can be filled, or the amount of stream length that can be filled. The primary argument advanced in the DEIS for rejecting these alternatives is that there is insufficient information at this time to draw a “bright line” that works in every situation, and variations between streams and watersheds make it difficult to apply any “bright line” to differing individual situations. The DEIS states that “[s]cientific data collected for this EIS do not clearly identify a basis (i.e., a particular stream segment, fill or watershed size applicable in every situation) for establishing programmatic or absolute restrictions that could prevent ‘significant degradation.’” DEIS II.D-8. The DEIS therefore posits that since one general rule does not apply in every situation, there is no basis for applying any general rule at all, and the only alternative is to apply a “case-by-case” analysis to every individual situation. DEIS II.D-1
However, FWS has observed that: “Designating all headwater streams as special aquatic sites is no different than designating all wetlands or all riffle-pool complexes as special aquatic sites as EPA has already done in the 404(b)(1) guidelines.” 11/13/02 Tibbott e-mail, Ex. 49.

EPA argued in November, 2002: “Whether or not the ‘bright line’ percentage threshold eventually becomes part of Alternative 1, we should still include in Alternatives 1 and 2 a commitment to develop a cumulative impact assessment protocol specific to headwater streams.” 11/15/02 Forren e-mail, Ex. 51.
limiting valley fill size,\textsuperscript{27} it would similarly be arbitrary and capricious.\textsuperscript{28}

If the 250-acre limit is retained and action to lower that limit is postponed, that would also be unreasonable.\textsuperscript{29} The Corps itself has applied a lower limit with NWPs 39, 40, 42, and 43, providing that such authorizations do not apply to fills that exceed 300 linear feet of a perennial stream bed. 67 Fed. Reg. at 2060. In contrast, NWP 21 has been used to fill hundreds of miles of perennial streams. The Corps is applying less stringent rules to mining activities than to non-mining activities, without any rational basis for distinguishing between them.\textsuperscript{30} Indeed, from the standpoint of stream destruction, mining activities pose greater risks than non-mining activities. As FWS has stated, “there is no other single industry or activity in the country that receives Section 404 authorization for the total elimination of waters of the United States on the scale that stream destruction occurs with mountaintop mining,” (10/30/02 Tibbott e-mail, Ex. 45), and “there are no other activities in the country that routinely eliminate entire streams.” 11/13/02 Tibbott e-mail.

There are ways to establish general rules, without bright lines, and with the opportunity to adjust the rule for individual situations. For example, the Corps could establish a rebuttable presumption that valley fills should not be placed in intermittent or perennial streams. FWS proposed such an alternative in August 2002, but it was summarily rejected without any analysis:

\textsuperscript{27}See section II.E.5 above.

\textsuperscript{28}Further, the court in \textit{Arkansas Nature Alliance, Inc. v. U.S. Army Corps of Engineers}, 266 F. Supp.2d 866, 887 (E.D. Ark. 2003), observed that: “It seems pretty plain that when there is not a bright line for whether a project can be handled by ‘categorical exclusion’ \textit[i.e., a ‘significant impact’ threshold], District Engineers should raise their ‘environmental sensitivity’ and err on the side of performing an EIS, particularly when the proposed action could have substantial environmental effects.” Similarly, here, in the absence of a “bright line,” the DEIS should err on the side of “environmental sensitivity” and rely on an interim “rule of thumb” such as the Bragg 250-acre threshold, rather than simply conclude that since the precise threshold is not yet clear, there should be no threshold at all.

\textsuperscript{29}See also, \textit{Kern v. U.S. Bureau of Land Management}, 284 F.3d 1062, 1072 (9th Cir. 2002): “NEPA is not designed to postpone analysis of an environmental consequence to the last possible moment. Rather, it is designed to require such analysis as soon as it can reasonably be done.”

\textsuperscript{30}FWS has observed: “[T]he impacts of Walmart and even highway projects pale in comparison to the mining impacts. If the Corps starts issuing permits for the total destruction of miles of streams, what precedent does that set for the significant degradation test for the ‘big box’ stores and shopping malls and housing developments and all the other permit applicants that now have relatively minor impacts on streams? Would the Corps be still able to require them to avoid the streams?” 10/30/02 Tibbott e-mail, Ex. 45.
EPA and COE issue regulatory guidance that, based on the factual determinations made in the EIS regarding direct impacts, downstream impairment, and the impracticability of available mitigation, fills in intermittent and perennial stream reaches are presumed to cause or contribute to significant degradation, pursuant to the 404(b)(1) Guidelines. Permit applicants who can demonstrate that their fills will not significantly degrade intermittent or perennial streams would be eligible for an individual permit.

Fills in ephemeral stream reaches would be eligible for NWP 21 authorization by the COE. If COE determines, through their stream protocol, that the values of affected ephemeral streams are high, and/or cannot be compensated, or if the cumulative effects are more than minimal, an individual permit will be required. COE will revise NWP regulations to reflect limits on authorization for NWP 21.

8/13/02 Robinson email, Ex. 37, 8/13/02 Alternatives Matrix, p. 3. FWS stated that this alternative “was subsequently voted down within the Executive Committee in part because a decision appears to have been made that even relatively minor modifications of current regulatory practices are now considered outside the scope of the EIS process.” 9/30/02 Densmore e-mail, Ex. 42, FWS Comments. Thus, the DEIS irrationally dismissed every proposal for a fill restriction, regardless of the merit of the proposal.

2. The DEIS’ Claim of Lack of Harm Is Erroneous and Is Not a Valid Basis for Rejecting Fill Restriction Alternatives

The DEIS claims that fill restriction alternatives were eliminated from consideration because MTM/VF operations do not contribute to significant degradation of U.S. waters. The DEIS states:

The data indicate that impacts may (or may not) be linked to the presence of mining, and not necessarily related to the size of fills... Impacts could include several stressors, such as valley fills, residences, and/or roads. Therefore, a causal relationship between the impacts and particular stressors could not be established with the available data. Further, the EIS studies did not conclude that impacts documented below MTM/VF operations cause or contribute to significant degradation of waters of the U.S. [40 C.F.R. 230.10(c)]. DEIS II.D-9.

This claim of no documented harm is flatly erroneous. First, this claim completely ignores the harm caused when streams are filled or mined, and instead considers only harm downstream from such fills or mining. The DEIS admits elsewhere that “[w]hen streams are filled or mined all biota living in the footprint of the fill or in the mined area are lost.” DEIS III.D-2. Over twelve hundred miles of streams, or 2% of total streams, fall within this category. Id. “Headwater streams are destroyed by filling.” DEIS, App. J, p. 70. This degradation must be deemed significant. There is no evidence showing that buried streams can be recreated successfully elsewhere on mined sites. Id. “Past efforts at compensatory mitigation have not
achieved a condition of no-net loss of stream area or functions.” DEIS III.D-17. Consequently, this loss is permanent and irreversible.

Second, there is no doubt that valley fills cause significant harm to downstream watersheds. “The fisheries and technical studies in support of the MTM/VF EIS support that the functions of these [headwater stream] systems may be impacted for considerable distances by upstream fills.” DEIS, App. J, p. 70. “MTM/VF impacts of critical headwater stream systems constitute one of the most major threats to this system in the study area.” Id. (emphasis added). “Impacts from MTM/VF activities to the ability of headwater streams to maintain their nutrient cycling function are of great concern.” Id. at 74 (emphasis added).

The EPA and FWS scientists who commented on the draft DEIS agreed with these conclusions. “EPA’s Cincinnati laboratory prepared the existing WV statistical evaluation that concluded [there is a] strong correlation between mining and downstream impacts.” Ex. 41, 9/23/02 Executive Meeting Agenda, p. 2. An EPA scientist similarly commented that:

EPA’s studies and other studies have found that the strongest and most significant correlations are between biological condition and conductivity. We do know that the stream segments downstream of some of the fills are impaired, and we believe the impairments are due to water chemistry changes, based on the strong correlations.

Ex. 55, 12/20/02 Comments by EPA Wheeling Staff. An FWS scientist similarly objected to the “no significant degradation” statement, stating that “If impaired aquatic life, and selenium above water quality standards, resulting in streams being placed on the 303(d) list don’t constitute significant degradation, what would?” 4/21/03 Rider email, Ex. 71, attached file: chIVcomments.wpd, p. 2.

The stream chemistry study cited by FWS found that:

MTM/VF mining is associated with violations of the stream water quality criteria for total selenium. Selenium violations were detected in each of the five study watersheds and all were at sites in the category Filled, downstream from MTM/VF operations. No other site categories had violations of the selenium limit.

DEIS App. D, p. 2. It also found that “[t]he selenium data indicate numerous violations of the West Virginia stream water quality criterion related to MTM/VF mining,” (id. at 47), and explains that selenium is “highly toxic” in amounts “slightly greater” than those found naturally, and is “strongly bioaccumulated in aquatic habitat.” Id. at 73. See generally section II.G.2. of this letter. Consequently, the DEIS’s claim of lack of harm is erroneous and is not a valid basis for eliminating alternatives to restrict fills.

3. Even if Sufficient Information Were Not Available Now to Develop Fill Restrictions, That Information Must Be Obtained, Because It Is Essential to Choosing Among Alternatives, and the DEIS Does Not
Demonstrate that the Cost of Obtaining That Information is Exorbitant.

Even if sufficient information were not available now to develop fill restriction alternatives, that information is essential and therefore must be obtained prior to making a final decision. The CEQ regulations provide that “[i]f the incomplete information relevant to reasonably foreseeable significant adverse impacts is essential to a reasoned choice among alternatives and the overall costs of obtaining it are not exorbitant, the agency shall include the information in the environmental impact statement.” 40 C.F.R. § 1502.22(a). There is no doubt that information about the impacts of valley fills on headwater stream systems is of paramount importance to choosing between alternatives. Indeed, that was the whole reason for preparing this EIS. The Settlement Agreement created the interim 250-acre fill restriction until information and alternatives developed in this EIS could create a better one. As the DEIS itself admits, “[t]he 250-acre general minimal impact threshold was intended as an interim threshold based on the assumption that this EIS would find the basis for some other threshold for NWP 21 applicability.” DEIS II.C-73 (emphasis added). Now, the DEIS says that, despite millions of dollars and four years of information-gathering devoted to the essential task of identifying this alternative, the DEIS cannot find it.

In evaluating whether the cost of obtaining this information is exorbitant, the cost must be measured in terms of what has already been spent. Obviously, the federal government believed that that cost was not exorbitant, or else it would not have spent it. The DEIS does not assign a specific figure to that cost, but as of February 13, 2002, the government had “spent or committed about 4.5 million” dollars to the DEIS. 2/13/02 Hoffman email, Ex. 14. It is hard to imagine that the cost of studies to resolve the stream issue will be more than a small fraction of that amount. The “stream impact” studies performed to date are only a few of the total of 30 studies that were performed for the DEIS. At a minimum, the DEIS must be revised to explain how much more it would cost to resolve the stream impact issue. If that cost is not more than the amount already invested and spent, the information must be obtained before a decision is made.

The federal courts have held that NEPA requires agencies to conduct research and provide information whenever the information is “important,” “significant,” or “essential” to a reasoned decision and the costs are not exorbitant in light of the size of the project and/or the possible harm to the environment. For example, the court in Oregon Environmental Council v. Kunzman, 817 F.2d 484, 495 (9th Cir. 1987) (citation omitted), held: “In general, NEPA imposes a duty on federal agencies to gather information and do independent research when missing information is ‘important,’ ‘significant,’ or ‘essential’ to a reasoned choice among alternatives.” The court in Save Our Ecosystems v. Clark, 747 F.2d 1240, 1244 n. 5 (9th Cir.1984), similarly explained:

[T]he duty to gather information and do research under section 1502.22(a) should not turn on whether the information is “essential” or “important.” ... [G]eneral NEPA law requires research whenever the information is “significant.” As long as the information is “important,” “significant,” or “essential,” it must be provided when the costs are not
exorbitant in light of the size of the project and/or the possible harm to the environment.

The court continued:

We recognized in SOCATS that an agency may be required to do independent research on the health effects of a herbicide. This is not a new requirement. In Foundation for North American Wild Sheep v. U.S. Dept. of Agriculture, 681 F.2d 1172 (9th Cir.1982), this court held an EIS inadequate because it failed to address the effect on bighorn sheep of opening a road when those effects were uncertain. We said, “the very purpose of NEPA’s requirement that an EIS be prepared for all actions that may significantly affect the environment is to obviate the need for such speculation by insuring that available data is gathered and analyzed prior to the implementation of the proposed action.” 681 F.2d at 1179 (emphasis added). Similarly, in Warm Springs Dam Task Force v. Gribble, 621 F.2d 1017 (9th Cir.1980), we held that an agency cured the defect in its EIS by commissioning a study about the effects of a newly discovered fault system on that dam. 621 F.2d at 1025-26. Other courts have imposed similar requirements on agencies. [citations omitted]

Furthermore, in SOCATS and in Warm Springs we recognized that such a duty also flowed from the worst case analysis regulation:

If the information relevant to adverse impacts is essential to a reasoned choice among alternatives and is not known and the overall costs of obtaining it are not exorbitant, the agency shall include the information in the environmental impact statement.

40 C.F.R. § 1502.22(a) (emphasis added). Only if the costs are exorbitant or the means of obtaining the information is beyond the state of the art is the agency excused from compliance... 40 C.F.R. § 1502.22(b). The Forest Service presents no evidence and makes no argument that the costs are exorbitant or that research is impossible. Rather, it argues that it cannot be forced to do it. Section 1502.22 clearly contemplates original research if necessary.

747 F.2d at 1248-49 (footnote omitted). See also, The Fund for Animals v. Norton, Civil No. 02-2367 (D.D.C.), Dec. 16, 2003 Mem. Op., p. 38 (“this failure to even consider taking the steps necessary to gather relevant information results in an incomplete EIS analysis”). Regarding the MTM/VF DEIS, even if sufficient information is not available now to develop fill restriction alternatives, that information is essential and therefore must be obtained prior to making a final decision. 1/2/03 Forren email, Ex. 58, EPA OGC Comments, pp. 2, 6-7.

31Although Save Our Ecosystems applied 40 C.F.R. § 1502.22 when it still contained the “worst case analysis” requirement of then-Section 1502.22(b)(2), the holding and reasoning of the court pertains to the requirement of Section 1502.22(a) that “the agency shall include the information” if it is “essential” and the “costs of obtaining it are not exorbitant.” That section is still applicable and remains unchanged by the amendment of the “worst case analysis” requirement.
4. The DEIS Cannot Evade the Need to Consider Fill Restrictions on the Ground that Those Restrictions Are Prohibited by the CWA

The DEIS argues that applying the stream buffer zone rule under SMCRA to prohibit fills in intermittent and perennial streams would be inconsistent with existing CWA requirements allowing valley fills, and would therefore violate section 702 of SMCRA, 30 U.S.C. § 1292(a)(2), which provides that SMCRA does not supercede, amend or repeal the CWA. DEIS II.D-2.

EPA’s Office of Water expressed concern in December, 2002 that the DEIS’s legal position in this regard is incorrect, commenting that:

There are fairly sweeping legal conclusions here that the stream buffer zone rule could not be used to determine allowable stream segments for filling because doing so would supercede the CWA, something [C]ongress precluded in SMCRA. The lawyers need to look at this more closely. I’m uncomfortable with the breadth of this argument...

1/7/03 Neugeboren e-mail, Ex. 59, OGC water law office comments, p. 1.32

Further, the DEIS’s argument is directly inconsistent with the position taken by the United States in the Bragg litigation. In its brief in the 4th Circuit, the United States stated:

WVDEP has argued that because SMCRA cannot supersede, amend, modify, or repeal the CWA, SMCRA cannot be construed to prohibit any activity that would be allowed by the CWA. That argument is without merit. ...

SMCRA section 702 provides merely that SMCRA does not alter the existing regulatory schemes adopted by Congress in the CWA and other environmental statutes. ...

When Congress has intended that one statute should take precedence over another statute in the regulation of a particular activity, it has done so with language very different and much clearer than SMCRA section 702. ...

While WVDEP has asserted that it would create an impermissible statutory “conflict” to read the buffer zone rule to establish a stricter standard than that established by the

32The position of the DEIS in this regard reflects the position of the OSM, with which the EPA and FWS disagreed during the development of the alternatives. See, e.g., 8/13/02 Robinson e-mail, Ex. 37: “[T]he EPA and FWS Steering Committee members agree that this version [of the alternatives which includes the ‘environmentally preferred alternative 4’] represents an accurate portrayal of possible viable contrasting alternatives... OSM agreed to disagree on Alternative 4... OSM disagreement stems from our belief ... that SMCRA must defer to the CWA standards regarding activities affecting waters of the U.S.”
Under the “no action alternative,” “Valley Fill impacts [are] assessed on [a] case-by-case basis to set NWP 21 or [individual permit (IP)] process; WV fills in less than 250-acre watershed[s] [are] generally eligible for NWP 21.” DEIS II.B-19. The DEIS states that one “Proposal[] Common to Action Alternatives 1, 2, and 3” (DEIS II.B-10) is that “[t]he U.S.

Where an activity is regulated under the CWA and SMCRA – i.e., a surface mining activity that involves the discharge of pollutants from point sources into U.S. waters — regulation of the activity is governed by the usual principles that courts apply to reconcile overlapping statutes. Under those principles, “when two statutes are capable of co-existence, it is the duty of the courts, absent a clearly expressed congressional intention to the contrary, to regard each as effective. ‘When there are two acts upon the same subject, the rule is to give effect to both if possible.’” Morton v. Mancari, 417 U.S. 535, 551 (1974) (quoting United States v. Borden Co., 308 U.S. 188, 198 (1939)). See also 2A Sutherland Statutory Construction § 51.05 (4th ed. 1984). An activity governed by both the CWA and SMCRA must therefore satisfy the requirements of both statutes.

G. The DEIS Violates NEPA Because It Fails to Address or Remedy Continuing Violations of Federal Law.

1. The DEIS Violates the Clean Water Act Because It Assumes Continued Use of Nationwide Permits, Even Though the DEIS’ Own Studies Demonstrate that the Minimal Cumulative Impact Ceiling for NWPs Has Already Been Exceeded.

   a. The CWA Prohibits Use of NWPs Unless the Permitted Activities Have Minimal Environmental Effects Both Individually and Cumulatively.

In order to satisfy the requirements of Section 404 of the CWA, 33 U.S.C. § 1344, each of the four alternatives considered in the DEIS, including the “no action alternative” and the three “action alternatives,” contemplate the permitting of MTM/VF activities under NWP 21 pursuant to CWA Section 404(e).33 Section 404(e) of the CWA clearly requires the Corps to

33Under the “no action alternative,” “Valley Fill impacts [are] assessed on [a] case-by-case basis to set NWP 21 or [individual permit (IP)] process; WV fills in less than 250-acre watershed[s] [are] generally eligible for NWP 21.” DEIS II.B-19. The DEIS states that one “Proposal[] Common to Action Alternatives 1, 2, and 3” (DEIS II.B-10) is that “[t]he [U.S.
determine whether an activity will adversely affect the environment both individually and when considered cumulatively with other such activities. In other words, an activity that has only minimal impacts by itself nevertheless may not be permitted under a NWP if the activity has more than minimal impacts when considered cumulatively with other existing and foreseeable future activities in the same category. Section 404(e) states, in relevant part:

[T]he Secretary may ... issue general permits on a State, regional, or nationwide basis for any category of activities involving discharges of dredged or fill material if the Secretary determines that the activities in such category are similar in nature, will cause only minimal adverse environmental effects when performed separately, and will have only minimal cumulative adverse effect on the environment.

33 U.S.C. § 1344(e) (emphases added). The plain meaning of this statutory provision is that NWPs cannot authorize an activity unless the activity has minimal impacts both individually and cumulatively.

The legislative history contains language identical to that of the statute. Subsection (e) was added to Section 404 of the CWA as part of the 1977 Amendments (Pub.L. 95-217, § 67(b), 91 Stat. 1600 (1977)). The House Conference Report makes clear that both the individual and cumulative impacts of an activity must be minimal in order to qualify for a NWP:

Section 67 of the conference substitute ... adds a new subsection (e) to section 404 which gives the Secretary authority to issue general permits on a State, regional, or nationwide basis for any category of activities involving discharges of dredged or fill material if the Secretary determines that the activities are similar in nature, and cause only minimal adverse environmental effects when performed separately, and which will have only minimal cumulative adverse effect on the environment.

H. Conf. Rep. No. 830, 95th Cong., 1st Sess. 100 (1977), reprinted in 1977 U.S.C.C.A.N. 4424, 4475 (emphases added). See also, Riverside Irr. Dist. v. Stipo, 658 F.2d 762, 764 (10th Cir. 1981): “[A] nationwide permit or authorization is one the Secretary issues covering a category of activities occurring throughout the country which involve discharges of dredged or fill material which he determines will cause only minimal adverse environmental effects when performed separately, and which will have only minimal cumulative adverse effect on the environment.”

Army Corps of Engineers (COE)] would ... evaluate whether programmatic ‘bright-line’ thresholds, rather than case-by-case minimal individual and cumulative impact determinations, are feasible for CWA Section 404 MTM/VF permits.” DEIS II.B-11. The DEIS further explains that under “action alternative 1” “general permit NWP 21 authorization would be applicable ... in limited circumstances,” and that “action alternative 2” recognizes that “some proposals will likely be suited for IPs, and others best processed as [NWP] 21,” and that “action alternative 3” “is based on a procedural presumption by the COE that most MTM/VF applications would be processed as general permits under NWP 21...” DEIS ES-5.
Consequently, federal agencies cannot adopt any alternative that would allow the use of NWPs for any MTM/VF activities which have more than minimal cumulative environmental impacts. It is not enough that impacts of individual mines may not exceed the minimal impacts threshold, because the CWA requires minimal impacts both individually and cumulatively for any action to be permitted under a NWP.

b. The DEIS Demonstrates That the Cumulative Impacts of MTM/VF Activities in Appalachia Are More than Minimal.

Regarding stream and riparian habitat destruction (“cumulative aquatic impacts”), the DEIS states that “Direct impacts to 1,208 miles of streams is estimated based on the last 10 years of digital permit data. If mining, permitting and mitigation trends stay the same, an additional thousand miles of direct impacts could occur in the next ten years... The majority of the streams directly impacted are headwater streams.” DEIS App. I, pp. 66-67; see also, DEIS App. I, p. v. Further, these numbers underestimate the total cumulative impacts because they reflect only the “directly impacted” (i.e., buried) streams, and do not account for the streams which are significantly “indirectly” impacted (e.g., by toxic selenium levels or other impacts on stream chemistry, temperature, flow, energy, sedimentation, or biota (DEIS III.D-1 to D-8) downstream from MTM/VF operations. DEIS App. I, pp. iii-iv.

Regarding deforestation (“cumulative terrestrial impacts”), the DEIS demonstrates that MTM/VFs have already converted, and will continue to convert, huge portions of one of the most biologically diverse forest areas in the United States into grasslands. “When adding past, present and future terrestrial disturbance, the study area estimated forest impact is 1,408,372 acres which equates to 11.5% of the study area.” DEIS IV.C-1. The destruction of these nearly 1.5 million acres of forest is profound and permanent because “unlike traditional logging activities associated with management of hardwood forest, when mining occurs, the tree, stump, root, and growth medium supporting the forest are disrupted and removed in their entirety.” DEIS IV.C-1. The FWS has similarly commented: “Most biologists would probably argue that the loss of the natural forest is probably irreversible, as the unique combination of flowing streams, species diversity, organic matter, etc., has been lost. At the very least it is FAR LESS REVERSIBLE than timbering, which at least leaves seed sources and native soils in place.” 4/21/03 Rider e-mail, Ex. 71, attached file: chIVcomments.wpd, p. 1 (emphasis in original).

Appendix I to the DEIS – the “Cumulative Impact Study” prepared by EPA itself – states that “fundamental changes to the terrestrial environment of the study area may occur from mountaintop mining,” (DEIS App. I, p. v (emphasis added)), explaining:

Habitat changes will occur in the study area and these changes will involve a shift from a

\[34\text{The indirect impacts from MTM/VF will continue regardless of alternative selected by decision makers.} \]  DEIS IV.B-5.
forested landscape to a fragmented landscape with considerably more mining lands and eventually grassland habitat.

DEIS App. I, p. 93.

Mountaintop mining and valley fill activities significantly affect the landscape mosaic. Landcover changes occur as forests are removed, the topography and hydrology is altered, and vegetation is eventually re-established. The result is an area drastically different from its pre-mining condition. Soil qualities are different, the vegetative community has a different structure and composition, and habitats are altered.

Id., p. 23 (emphasis added). Further, FWS’ Cindy Tibbott has stated, and EPA’s William Hoffman has agreed, that:

[R]e-establishing native hardwood forests on reclaimed mines is still experimental. We don’t know what the long-term success will be. Even if hardwood forests can be re-established, it should be intuitively obvious that they’ll be a drastically different ecosystem from pre-mining forests for generations, if not thousands of years...

Ex. 5 (emphasis added).35

Regarding wildlife destruction, the DEIS states that mountaintop removal mining engenders a “change in ... habitats [that] could put a number of species in peril.” DEIS App I. p. v. EPA’s “Cumulative Impact Study” finds that:

The southern Appalachians have been identified by the Nature Conservancy as one of the hot spot areas in the United States for rarity and richness (Stein et al., 2000). This region is known to have the highest regional concentration of aquatic biodiversity in the nation. For this reason, it is hypothesized that impacts which result in decreases in genetic diversity, as measured by loss of species, loss of populations or loss of genetic variants,

35See also, DEIS IV.D-5: “[T]he permanent nature of filling would suggest that MTM/VF impacts to biotic interactions in headwater stream systems ... may constitute a[n] irreversible impact to this system in the study area.” (emphasis added). See also, “Problems Identified/Confirmed/Inferred by Technical Studies, Ex. 6, p. 6: “Large-scale surface coal mining will result in the conversion of large portions of one of the most heavily forested areas of the country, also considered one of the most biologically diverse, to grassland habitat. Unless reclamation practices are changed drastically, it can be assumed that this forest to grassland conversion is, for all practical purposes, permanent. Even if reclamation practices are changed, we must still consider the recovery of a functional mesophytic forest ecosystem as a long-term ecological experiment with uncertain results.” See also, 6/10/02 Hoffman e-mail, Ex. 29, EPA Issues - MTM/VF EIS: “Cumulative terrestrial impacts from MTM/VF activities are considered to be significant...”
See also, Ex. 6, p. 5: “Populations of forest birds will be detrimentally impacted by the loss and fragmentation of mature forest habitat in the mixed mesophytic forest region, which has the highest bird diversity in forested habitats in the eastern United States. Fragmentation-sensitive species such as the cerulean warbler, Louisiana waterthrush, worm-eating warbler, black-and-white warbler, and yellow-throated vireo will likely be negatively impacted as forested habitat is lost and fragmented from MTM/VF.” (emphasis added). See also, id.: “The forests of this particular geographic area are the core breeding area for a number of forest interior bird species that have extremely limited breeding ranges, including the cerulean warbler, which is currently under review by the Fish and Wildlife Service for endangered species listing.”

Further, “[e]ven if the grassland habitat created by reclamation is optimal habitat for grassland bird species (which may not be the case), this region is outside of the primary breeding range of these widely-distributed grassland species.” Ex. 6, p. 5.

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37Further, “[e]ven if the grassland habitat created by reclamation is optimal habitat for grassland bird species (which may not be the case), this region is outside of the primary breeding range of these widely-distributed grassland species.” Ex. 6, p. 5.
The FWS has also commented that “[d]isplaced wildlife will move into adjacent habitats and likely find that they are already occupied by more fortunate members of their species, and competition for food and nesting locations will simply mean that the displaced ones die or fail to reproduce...” 4/21/03 Rider e-mail, Ex. 71, attached file: chIVcomments.wpd, p. 1.

DEIS IV.D-4 - 5 (emphasis added).38

In addition, the DEIS demonstrates that future mountaintop removal mining of the remaining recoverable reserves of coal in Appalachia is likely. Indeed, the DEIS projects that “the demand for central Appalachian coal will likely increase at some point in the future,” (DEIS IV.I-1), explaining:

The U.S. Department of Energy (DOE) estimated in 1998 that 28.5 billion tons of high quality coal ... remain in the study area. DOE reported about 280 million tons of coal were extracted by surface and underground mining from the study area in 1998. Coal produced from the study area continues to provide an important part of the energy needs of the nation. Regionally, coal mining is a key component of the economy[,] providing jobs and tax revenue. Almost all of the electricity generated in the area comes from coal-fired power plants... [C]oal production remains high...

DEIS ES-2.

All such future mining is reasonably foreseeable and must be included in the cumulative impact analysis for each mine. See, e.g., Defenders of Wildlife v. Ballard, 73 F. Supp.2d 1094, 1113-14 (D. Ariz. 1999), holding that the COE was required to consider the cumulative impacts of NWP programs under the CWA with respect to an endangered species of owl, and to determine that use of such NWPs had no significant impact before authorizing projects under those permits:

... Defendants’ scope of analysis ... is inadequate to measure the impact of implementing the NWP program under which thousands of projects will be authorized. The kind of impact statement required depends upon the kind of federal action being taken.

The court concluded: “At a minimum, this Court must order the Defendants to take a ‘hard look’ at the cumulative impact of the NWP program, ... and determine that the use of these permits in this region has no significant impact.” Id. at 1114 (emphasis added). Similarly, here, the drafters of the DEIS must consider the cumulative impact of all past, present, and reasonably foreseeable future MTM/VF operations to be authorized under NWP 21. When all such cumulative impacts are considered, the inescapable conclusion is that such impacts exceed the

38The FWS has also commented that “[d]isplaced wildlife will move into adjacent habitats and likely find that they are already occupied by more fortunate members of their species, and competition for food and nesting locations will simply mean that the displaced ones die or fail to reproduce...” 4/21/03 Rider e-mail, Ex. 71, attached file: chIVcomments.wpd, p. 1.
“minimal impact” threshold for authorization under NWP 21 for any MTM/VF operation.

Thus, the DEIS itself, relying on EPA’s own study, clearly demonstrates that the cumulative adverse environmental impacts of mountaintop removal mining in Appalachia are more than “minimal.” The riparian and forest ecosystems which have already been and will continue to be destroyed are among the most biologically rich and genetically diverse in the nation. The magnitude of the destruction in terms of forest acreage, stream-miles, and lost wildlife populations, habitat, and species is enormous. The destruction is permanent, causing a “fundamental” shift from a forest ecosystem to a “grassland habitat.” Such mining is likely to continue or increase in the future. The evidence in this DEIS that MTM/VF impacts are more than minimal on a cumulative basis is simply overwhelming. Section 404(e) of the CWA prohibits the use of NWPs unless the activity “will have only minimal cumulative adverse effect on the environment.” The DEIS proves that mountaintop removal mining activities cannot satisfy this requirement in any case. The FWS has similarly observed:

[H]ow will the Corps justify a “significant degradation” determination? Corps issuance of any permit means that the Corps has determined that the project will not result in “significant degradation” as defined by the 404(b)(1) guidelines; the significant degradation test trumps even the public interest review and the practicable alternatives test. To our knowledge, there is no other single industry or activity in the country that receives Section 404 authorization for the total elimination of waters of the United States on the scale that stream destruction occurs with mountaintop mining... Are we seriously going to propose that some sort of “compensatory mitigation” can be fabricated that would truly replace the lost functions and values of the destroyed miles of streams, to the degree that we could consider impacts to be less than minimal? How many miles of stream loss a year are we going to be willing to accept under the cumulative impact test required for nationwide permits? What precedents do these decisions set for attempts to limit the loss of streams resulting from other types of activities authorized by other nationwides?

10/30/02 Tibbott e-mail, Ex. 45.

Individual permits must be used for every mine because every mine will contribute to deforestation and stream destruction. Therefore, no MTM/VF activities are eligible for NWPs, and all of the alternatives considered by the DEIS are illegal because they all contemplate permitting future MTM/VF activities under NWP 21.

2. The DEIS Violates the Clean Water Act, Because Its Studies Show that MTM/VF Activities Cause Violations of the WV Water Quality Standard for Selenium, But the DEIS Does Nothing to Address Those Violations.

The DEIS shows that MTM/VF activities cause violations of WQSs for selenium in West Virginia. The DEIS fails to propose any remedies for those violations. Federal agencies cannot
take any action that would violate WQSs. Therefore, all of the proposed alternatives in the DEIS are illegal because they would permit activities which violate WQSs.

The DEIS states:

The data from this report indicate that MTM/VFs increase concentrations of several chemical parameters in streams. Sites in the Filled category had increased concentrations of ... total selenium... Comparisons to [Ambient Water Quality Criteria (AWQC)] were performed with a subset of the total data set as explained in USEPA (2002a). Selenium concentrations from the Filled category sites were found to exceed AWQC for selenium at most (13 of 15) sites in this category. No other site categories had violations of the selenium limit.

DEIS III.D-6. The DEIS therefore concludes: “The existence of selenium at concentrations in excess of AWQC at most of the filled sites indicates a potential for impacts to the aquatic environment and possibly to higher order organisms that feed on aquatic organisms.” DEIS III.D-7.39

The “West Virginia Stream Chemistry Study,” dated April 8, 2002 and set forth in Appendix D to the DEIS (hereinafter “DEIS Chem. Study”), puts the matter more bluntly, explaining that “...MTM/VF mining is associated with violations of the stream water quality criteria for total selenium. Selenium violations were detected in each of the five study watersheds and all were at sites in the category Filled, downstream from MTM/VF operations. No other site categories had violations of the selenium limit.” DEIS Chem. Study 2. This study also finds that “[t]he selenium data indicate numerous violations of the West Virginia stream water quality criterion related to MTM/VF mining.” Id. at 47.40 Indeed, the EPA-recommended and West Virginia-adopted stream water quality criterion for selenium is no more than 5 ug/L (DEIS Chem. Study 73), and selenium levels downstream from “Filled sites” were up to 10 times

39 See also, DEIS III.D-18: “As discussed in the USEPA Stream Chemistry Report, several chemical parameters have been found to be elevated in stream surface water downstream from filled/mined area (USEPA 2002a). Chemical parameters elevated in excess of ambient water quality criteria may impair the aquatic productive [sic] of constructed streams.”

40 See also, 3/27/02 Bryant e-mail, Ex. 22: “The selenium data clearly show ‘hot spots’ with higher concentrations of selenium in each of the five watersheds and located downstream of “Filled” sites ONLY. There are 66 violations of the stream water quality criteria identified and each is at a Filled site. No other category of site had violations of selenium! I don’t believe anyone needs a statistician to prove that MTM/VF mining causes violations of stream criteria for selenium. On top of that, the WV Geologic Survey data indicate that the coals in that region are high in selenium.” (capitalization in original). See also, 1/02/03 Tibbott e-mail, Ex. 57: “[B]elow fills the ambient water quality criterion for selenium concentration is exceeded consistently...”
that amount. Id. at 75. The study elaborates that selenium is “highly toxic” in amounts “slightly greater” than those found naturally, and is “strongly bioaccumulated in aquatic habitat.” Id. at 73.

The CEQ regulations provide that each EIS “shall state how . . . decisions based on it will or will not achieve the requirements of . . . other environmental laws and policies.” 40 C.F.R. § 1502.2(d). Under NEPA, “each agency must mesh the requirements of NEPA with its own governing statute as far as possible.” Sierra Club v. Sigler, 695 F.2d 957, 967 (5th Cir. 1983); Calvert Cliffs, 449 F.2d at 1115 & n.12. Here, the CWA governs the establishment and enforcement of state water quality standards. It contains “statutory commands the Corps must integrate with the requirements of NEPA.” Sigler, 695 F.2d at 967. Thus, the DEIS in this case must be reviewed not only for adherence to NEPA, but for adherence to the CWA’s commands. Id.

All federal agencies have an obligation under the Clean Water Act to comply with state water quality standards. National Wildlife Federation (NWF) v. U.S. Army Corps of Engineers (COE), 132 F. Supp.2d 876, 889 (D.Or. 2001). It is arbitrary and capricious for a federal agency to acknowledge that such standards are being violated and that its facility is partly responsible for such violations, but fail to take action to comply with those standards. Id. at 895. As the court held in NWF v. COE: “The compliance of the Corps with its legal obligations under the [CWA] is a relevant factor in determining whether the final agency actions taken by the Corps in the [Records of Decision (RODs)] were arbitrary and capricious... [under the APA].” Id. at 890. While that case involved a dam operated by the COE, the same principle should apply to permits issued by the COE for valley fills, since those fills are directly connected to violations of state water quality standards for selenium.

Further, pursuant to 40 C.F.R. § 1502.25(b), the EIS is required to identify all federal permits that the project requires in order to comply with federal law. Therefore, a court reviewing the Final EIS would be obligated to decide, under NEPA, whether the selenium discharges are properly permitted under the CWA, including the state water quality certification under Section 401 of the CWA. As the court in Dubois v. U.S. Dept. of Agriculture, 102 F.3d 1273, 1295-1296 (1st Cir. 1996), explained:

Regardless of whether any of the remedies provided in the CWA would be available to Dubois in light of his asserted failure to provide proper notice of his intent to sue, this court would still have the authority and the obligation to decide, under NEPA, whether an NPDES permit is required in this case. This is because ... NEPA requires the Forest Service to identify in its EIS all federal permits that the project needed in order to comply with applicable federal law.

(emphasis added).

Given the serious impacts of mining on water quality, an EPA official stated in November 2002 that “I am confident that the EIS will recommend further studies; and
recommend monitoring at a minimum for selenium, sulfates and conductivity . . . everywhere in Appalachia.” Rider 11/7/02 e-mail, Ex. 47. In fact, however, the DEIS does not recommend any further studies or monitoring for these chemicals. DEIS IV.B-5 to IV.B-6.

It is arbitrary and capricious for the DEIS to acknowledge that the MTM/VF operations under any of the alternatives would violate state water quality standards for selenium, but fail to consider any remedies for these contemplated violations or any alternatives which do not violate state water quality standards for selenium. All of the alternatives contemplate the illegal federal permitting of actions which violate state water quality standards. Under NEPA, the DEIS must mesh the requirements of NEPA with those of the CWA as far as possible. The compliance of the state and federal agencies with their legal obligations under the CWA is a relevant factor in determining whether issuance of the EIS without addressing acknowledged violations of state water quality standards by conduct which is the subject of the EIS is arbitrary and capricious under the APA. Further, it is a violation of NEPA to issue an EIS which fails to identify all federal permits necessary to comply with federal law.

3. The DEIS Violates SMCRA, Because It Admits that MTM/VF Activities Violate OSM Regulations Regarding Soil Practices, But Does Nothing to Address Those Violations.

The DEIS acknowledges that current soil practices violate OSM regulations, because the post-mining soil supports lower quality vegetation than did the existing pre-mining soil. The DEIS fails to propose any remedies for those violations. Therefore, all of the proposed alternatives in the DEIS are illegal because they would permit activities which violate OSM regulations promulgated pursuant to SMCRA. See 30 C.F.R. § 816.22(b) (requiring soil medium to support revegetation); §§ 816.22(c)(2)(ii), 816.22(d)(1)(ii) (prohibiting excessive compaction that interferes with revegetation).

The DEIS states:

The information in Table III.B-2 is corroborated by the experience of reclamation personnel and is reflected in West Virginia’s recently proposed commercial forestry regulations. In estimating the likely quality of reclamation to be obtained under these regulations, we must recognize the fact that the current regulations (which have been in place since May 16, 1983) require that selected overburden substitutes for soil be “equal to, or more suitable for sustaining vegetation than the existing topsoil, and the resulting soil medium is the best available in the permit area to support revegetation.” Also, soil materials are to be redistributed in a manner that prevents excessive compaction of the materials. Be this as it may, the reality of reclamation in Appalachia is that selective overburden handling is rarely practiced beyond that required to keep highly toxic material out of the rooting zone; excessive compaction is commonplace... Production of soils that will support commercial forestry as part of mountaintop mining requires selective overburden handling and replacement procedures on a scale that has never been carried out in Appalachia.
The OSM “Vision” statement states: “The NEPA compliance requirements for proposed SMCRA regulation would be satisfied by concurrent publication of the draft EIS with similar alternatives to the proposed regulations.” Ex. 9, p. 3. While publication in the DEIS of alternatives “similar to” proposed rule changes would not satisfy NEPA, the DEIS does not even do that. Rather, it merely states that “OSM is currently preparing a draft proposed rule that would amend the rules at 30 CFR 816.57 and 817.57 to clarify the SBZ requirements,” (DEIS II.C-34), and articulates a very general description of the contemplated forthcoming proposal. This description of the contemplated SBZ rule change falls far short of NEPA compliance for SMCRA rule changes.

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SMCRA regulations at 30 CFR 816.57, known as the stream buffer zone (SBZ) rule, preclude impacts within 100 feet of intermittent and perennial streams absent a finding that 1) mining activities will not cause or contribute to a violation of applicable state or Federal water quality standards, and will not adversely affect the water quantity and quality or other environmental resources of the stream; and 2) if there will be a temporary or permanent stream-channel diversion, it will comply with specific requirements applicable to the construction of diversions.

DEIS II.C-10. However, in describing the “No Action Alternative,” the DEIS states:

Historically, OSM has not viewed, applied, or enforced the buffer zone regulation to prohibit mining activities within the buffer zone if those activities would have less than a significant effect on the overall chemistry and biology of streams, i.e., the overall watershed or stream below the activity. Therefore, excess spoil fill construction within the buffer zone has been allowed if a demonstration of no significant effect on downstream water quality was made by the permit applicant to the satisfaction of the SMCRA regulatory authority. This interpretation resulted because to interpret the SBZ rule as an absolute prohibition for constructing valley fills in streams would counter other statutory provisions. SMCRA recognized the necessity of excess spoil fills in SMCRA Section 515(b)(22), and the only available location for excess spoil placement in steep slope mining is in valleys adjacent to the mining area. These valleys may contain headwater streams...

OSM is currently preparing a draft proposed rule that would amend the rules at 30 CFR 816.57 and 817.57 to clarify the SBZ requirements. These amended rules would more closely align with the principal statutory basis for the rule [30 U.S.C. 1265(b)(10) and (b)(24)]. Exemptions to the SBZ requirements would only be granted upon a demonstration by the coal operator, to the satisfaction of the SMCRA regulatory authority, that encroachment into the SBZ is necessary and that disturbances to the prevailing hydrologic balance at the mine-site and in associated offsite areas have been minimized.

DEIS II.C-34 to C-35 (emphases added).

42See also, DEIS II.D-2: “The existing SBZ rule provides that no land within 100 feet of a perennial or intermittent stream be disturbed by surface mining activities unless the SMCRA regulatory authority specifically allows mining activities closer to, or through, such a stream.”

43See also, DEIS II.B-7, regarding the “No Action Alternative” (“OSM initiated a SMCRA regulatory program enhancement to amend and clarify the stream buffer zone (SBZ) rules at 30 CFR 816.57 and 817.57.”); DEIS II.B-19, regarding the “No Action Alternative” (“SMCRA buffer zone (SBZ) subject to interpretation.”); DEIS II.C-1, regarding the “No Action Alternative” (“Current SBZ rule-making (OSM)”); DEIS II.D-2, regarding “Alternatives
OSM’s interpretation of the existing SBZ rule is incorrect, and is directly inconsistent with the interpretation given by the United States before the 4th Circuit in Bragg. In its brief, the United States stated:

By specifying that mining activities must seek to protect water resources “at the mine site and in associated offsite areas,” Congress made clear that water resources must be protected where mining activities occur and not only at downstream portions away from the mining sites. ...

By expressly and unambiguously applying to the stream segments where mining activities are proposed, the buffer zone cannot be satisfied by a finding that the stream's environmental resources are protected at some downstream point. ...

[V]alley fills that disturb intermittent or perennial streams may be approved only if there is a finding that activity will not adversely affect the environmental resources of the filled stream segment. ...

[T]he district court correctly held that findings made in applying the CWA 404(b)(1) guidelines cannot be used as a substitute for the findings required by the stream buffer zone rule.

Brief for the Federal Appellants, 4th Cir., No. 99-2683, April 17, 2000, pp. 40-43. OSM’s interpretation of the SBZ rule is therefore erroneous as a matter of law, and is an arbitrary reversal of its prior position.

All three of the “action alternatives” also contemplate weakening or eviscerating the SBZ rule. Regarding Alternative 1, the DEIS states: “SMCRA SBZ rule inapplicable to excess spoil in waters of the U.S. due to CWA Section 404 analysis.” DEIS II.B-19. Regarding Alternatives 2 and 3, the DEIS states: “The No Action Alternative discusses ongoing rule-making to amend and clarify the SBZ rule. This action could also include later OSM consideration of additional amendment to the SBZ rule to increase consistency with the CWA Section 404 program, if appropriate and supported by SMCRA.” DEIS II.C-36.44

Considered but Not Carried Forward in this EIS,” (“Use of the [existing] OSM SBZ rule was considered to implement the alternatives establishing valley fill restrictions for certain stream segments [but not carried forward].”).

While it is not clear what “additional amendment” might be considered under Alternatives 2 and 3, it appears that such amendment would be similar to that considered under Alternative 1 to make the SBZ rule “inapplicable to excess spoil in waters of the U.S. due to CWA Section 404 analysis,” since the “addition amendment” would have the same purpose to “increase [SBZ rule] consistency with the CWA Section 404 program.”
Thus, all four of the alternatives considered in the DEIS, including the “no action alternative,” contemplate changes to the existing SBZ rule that would either weaken (“no action alternative”) or explicitly (alternative 1) or implicitly (alternatives 2 and 3) eviscerate the rule. The DEIS therefore frustrates Congressional will and illegally evades the requirements of NEPA to consider “the alternative of no action” and compare the benefits of stream protection as it exists with any contemplated changes. The DEIS also illegally evades the SMCRA requirement that OSM prepare an EIS regarding significant changes to the SMCRA regulations. Finally, the DEIS’s interpretation of the existing SBZ rule is incorrect and directly inconsistent with the interpretation adopted by the United States in Bragg.

I. The DEIS Violates NEPA Because it Fails to Adequately Analyze the Effectiveness of Mitigation Measures.

The DEIS violates NEPA by failing to adequately analyze the effectiveness of proposed mitigation measures. Specifically, first, the DEIS relies on the effectiveness of in-kind mitigation while admitting that on-site stream reconstruction has never been successfully accomplished. Second, the DEIS relies solely on a BMP manual to “encourage” mine operators to reforest their lands, without showing that the manual, by itself, will have any meaningful impact on adoption of PMLUs that involve reforestation.

“Implicit in NEPA's demand that an agency prepare a detailed statement on ‘any adverse environmental effects which cannot be avoided should the proposal be implemented,’ 42 U.S.C. § 4332(2)(C)(ii), is an understanding that an EIS will discuss the extent to which adverse effects can be avoided.” Robertson v. Methow Valley Citizens Council, 490 U.S. 332, 351-52 (1989) (citation omitted). “A mere listing of mitigation measures is insufficient to qualify as the reasoned discussion required by NEPA.” Northwest Indian Cemetery Protective Assoc. v. Peterson, 795 F.2d 688, 697 (9th Cir. 1986) (citation omitted). “Without analytical detail to support the proposed mitigation measures, we are not persuaded that they amount to anything more than a ‘mere listing’ of good management practices.” Idaho Sporting Congress v. Thomas, 137 F.3d 1146, 1151 (9th Cir. 1998).

In the present case, the DEIS itself demonstrates that its own reliance on in-kind mitigation is not justified or supported by the history of such mitigation attempts or its own findings regarding the likelihood of success, and the proposed BLM manual is the epitome of a “mere listing of good management practices” because its suggested practices are non-mandatory and unenforceable and the DEIS points to nothing to suggest that the manual’s existence will increase forestry PMLUs.

1. The DEIS Relies on the Effectiveness of In-kind Mitigation While Admitting That On-site Stream Reconstruction Has Never Been Successfully Accomplished.
The DEIS relies heavily on the future effectiveness of in-kind\textsuperscript{45} mitigation to reduce environmental impacts. “The alternatives proposed, including the No Action Alternative, assume successful mitigation through on-site reclamation and on-site and off-site mitigation.” DEIS IV.B-8. “In-kind mitigation must restore or create headwater stream habitat on the reclaimed mine area to replicate the functions lost from direct stream loss.” DEIS IV.B-9. “In most situations, under all alternatives, some type of on-site restoration, as a component of reclamation, would be included as part of or all of the mitigation needed to replace lost functions from headwater streams.” Id. “The functions of streams lost through filling can require substantial mitigation as compensation.” DEIS II.C-47. “Mitigation for lost stream functions is important to ensure that significant degradation to waters of the U.S. does not occur.” DEIS II.C-49. “Both on-site and off-site mitigation are likely necessary to insure that only minimal individual and cumulative impacts occur under all of the alternatives considered...” DEIS IV.I-12.

FWS’ reviewer of the DEIS commented that “...the ability of compensatory mitigation to reduce impacts to minimal levels is the linchpin of each of the alternatives.” 11/13/02 Tibbott e-mail, Ex. 49, Comments, p. 1. But she stated that this mitigation “is an untested, unproven concept, and many believe it can’t be accomplished.” Id. This is a “fatal flaw in our alternatives framework.” Id. The FWS reviewer further commented: “[I]t is difficult if not impossible to reconstruct free flowing streams on or adjacent to mined sites ... [due to] the inability to capture sufficient groundwater flows necessary to provide a constant source of flow for the new stream.” 11/15/02 Tibbott e-mail, Ex. 50, Comments, p. 1. See also, 1/02/03 Tibbott e-mail, Ex. 57, p. 2: “It is unlikely that streams and the ecological functions they contribute to the watershed can be replaced through mitigation...

The DEIS’ reliance on effective in-kind mitigation is wildly irrational and directly contradicted by the DEIS’s own findings regarding the history of such mitigation attempts and the state of the existing technology. That is, functioning headwater streams have never been successfully created in MTM/VF areas, and the technology to create them does not exist. Rather, attempts to create flowing streams have resulted only in creating standing ponds and “linear groin ditches” (DEIS III.D-20) which cannot replace the important functions of headwater streams,\textsuperscript{46} so that mining companies often resort to simply paying fees to bury the

\textsuperscript{45}“There is a preference for onsite (on the same site as the habitat being impacted) and in-kind (same habitat as that being impacted) compensation.” DEIS II.C-50.

\textsuperscript{46}The DEIS acknowledges the important and unique functions of flowing headwater streams: “When energy source is altered or removed in the upstream reaches, downstream biological communities are also affected. The value of headwater streams to the river ecosystem is emphasized by Doppelt, et al. (1993): ‘Even where inaccessible to fish, these small streams provide high levels of water quality and quantity, sediment control, nutrients and wood debris for downstream reaches of the watershed. Intermittent and ephemeral headwater streams are, therefore, often largely responsible for maintaining the quality of downstream riverine processes
headwaters and destroy the stream ecosystems. The DEIS explains:

-[R]ecreating headwater streams onsite to functionally replace those directly lost from filling operations is difficult and not often undertaken as compensatory mitigation. Experience with the technology required to create streams that match those directly lost through valley fills is very limited. To recreate intermittent or perennial streams onsite, the channel must intercept local groundwater. The potential channel locations and elevations may not coincide with prevailing geologic structure (dip or hydraulic gradient) making local groundwater horizons difficult to capture for establishing stream flow. While proven methods exist for larger stream channel restoration and creation, the state of the art in creating smaller headwater streams onsite has not reached the level of reproducible success required for these efforts to be reasonably relied upon programmatically as an option for full compensatory mitigation. Consequently, other forms of compensatory mitigation are employed and other sites outside the footprint of the fill are often utilized to offset unavoidable aquatic impacts of valley fill operations. Mitigation sites (on- or offsite) require a conservation easement so that protection of the aquatic resources is assured in perpetuity. Because mining companies often lease mine sites and may not own or control offsite areas, this easement requirement can sometimes pose a significant barrier to the location of suitable mitigation opportunities–either onsite or offsite. These factors can also result in greater consideration of in lieu fee arrangements whereby mitigation is accomplished through monetary payment for aquatic conservation/restoration projects identified by government resource agencies.

DEIS II.C-50 (citation omitted) (emphasis added). The DEIS further explains:

Stream creation on filled areas is very difficult in general due to the inability to capture sufficient groundwater flows necessary to provide a source. There is some suggestion that perennial flow could be established on a contour between the fill and the native rock by the use of some type of impermeable liner. However, no demonstration projects have yet been performed to validate this hypothetical design... [A]t best, streams recreated on mined lands would be expected to have only intermittent flow... [S]everal chemical parameters have been found to be elevated in stream surface water downstream from filled/mined areas. Chemical parameters elevated in excess of ambient water quality criteria may impair the aquatic productive [sic] of constructed streams... During the development of this EIS, technical representatives from OSM and from West Virginia have suggested that groin ditches constructed along the edges of fills may represent an opportunity for in-kind replacement of streams with an intermittent or ephemeral flow regime. To date, no drainage structures observed appear to have successfully developed into a functional headwater stream.

DEIS III.D-18 to D-19 (citations omitted) (emphasis added). The DEIS continues:

and habitat for considerable distances.”’ DEIS III.C-12. See generally, DEIS II.C-1 to C-12.
Furthermore, the Corps has no authority under the Clean Water Act to use mitigation to offset the loss of jurisdictional waters of the United States, especially where the effect of this mitigation offset is to convert jurisdictional waters such as perennial streams to potentially non-jurisdictional waters such as “groin ditches” or “wetlands isolated from other surface water systems.” DEIS III.D-20.

To date functioning headwater streams have not been re-created on mined or filled areas as part of mine restoration or planned stream mitigation efforts. Most on-site mitigation construction projects have resulted in the creation of palustrine wetlands that resembled ponds. Some of these created wetlands are isolated from other surface water systems while others occur in drainage channels which connect to the original stream system at some point. On some fills, linear-shaped wetlands may develop in groin ditches... Functions not restored include habitat for aquatic organisms that require lotic or flowing-water conditions.

DEIS III.D-20 (emphasis added). The DEIS further observes: “If future mitigation mirrors past ... reclamation practices ..., successful restoration of habitat for organisms requiring lotic (flowing) conditions may be very limited.” DEIS IV.B-9.47

Thus, the DEIS’s reliance on the effectiveness of in-kind mitigation is arbitrary and capricious given its simultaneous admission that on-site stream reconstruction has never been successfully accomplished and is not likely to be accomplished, and may in fact be impossible, under any alternative. Where, as here, an agency fails to support its conclusion that its proposed mitigation measures will perform as expected in the specific environment contemplated in the EIS, the agency’s consideration of mitigation measures is inadequate to meet the requirements of NEPA. Blue Mountains Biodiversity Project v. Blackwood, 161 F.3d 1208, 1214 (9th Cir. 1998).


In addition to stream reconstruction, the other mitigation tool envisioned by the DEIS is a BMP manual, which would attempt to “encourage” reforestation, although forestry PMLUs would remain purely voluntary under all of the alternatives. This proposed “mitigation measure” is the epitome of a “mere listing of good management practices” (Idaho Sporting Congress, 137 F.3d at 1151) which violates NEPA. Specifically, it fails to satisfy the NEPA requirement that an EIS adequately analyze the effectiveness of proposed mitigation measures. The DEIS contains no analysis of whether the manual will actually increase reforestation.

In the absence of such analysis, there is good reason to believe that it would not. The DEIS finds that reforestation is currently not the usual practice due to economic disincentives.

47Furthermore, the Corps has no authority under the Clean Water Act to use mitigation to offset the loss of jurisdictional waters of the United States, especially where the effect of this mitigation offset is to convert jurisdictional waters such as perennial streams to potentially non-jurisdictional waters such as “groin ditches” or “wetlands isolated from other surface water systems.” DEIS III.D-20.
and technological barriers.\textsuperscript{48} As the FWS has observed:

The EIS indicates that landowners would be expected to support reforestation because of its long-term benefits. Because of the lack of success of the reforestation initiative that was begun several years ago in Kentucky, we do not believe landowners or the mining industry will show significant support for anything more than is required. The EIS should only provide realistic potential solutions.

1/02/03 Tibbott e-mail, Ex. 57, pp. 1-2. The EPA similarly stated in June, 2002:

\[\text{[PMLU]}\] studies suggest that, in general, post-mining development has not occurred as envisioned when variances are requested from the requirements to return the land to a condition capable of supporting its prior use. Actions to ensure that PMLU development occurs as envisioned ... must be included as commitments within the EIS.

6/10/02 Hoffman e-mail, Ex. 29, EPA Issues - MTM/VF EIS; 6/14/02 Rider e-mail, Ex. 31. As a result, the DEIS’s reliance upon the supposed willingness of the mining industry to voluntarily undertake costly reforestation is unrealistic and unsupported.

Currently, disincentives and barriers to reforestation are the norm. “[T]he use of grasses and legumes serves as the low cost, low-risk option for bond release. Even when the reclamation plan calls for the planting of trees, excessive compaction of the rooting medium, which severely reduces tree growth, is the norm.” DEIS III.B-9. “The predominant PMLU has included a bias towards salvaging ... soil materials that provide favorable chemical conditions for the growth of grasses and legumes, but have a negative impact on forest regeneration.” DEIS III.B-11.

“Production of soils that will support commercial forestry as part of mountaintop mining requires selective overburden handling and replacement procedures on a scale that has never been carried out in Appalachia.”\textsuperscript{49} DEIS III.B-15 (emphasis added). Cindy Tibbott (USFWS) has stated, and William Hoffman (USEPA) has agreed, that:

I am very concerned about running all of the Alternatives without a 0% forest recovery scenario ... [because] re-establishing native hardwood forests on reclaimed mines is still experimental. We don’t know what the long-term success will be. Even if hardwood forests can be re-established, it should be intuitively obvious that they’ll be a drastically

\textsuperscript{48}In fact, even “flat land” PMLUs are not being completed. “This investigation found that many sites are not being developed as envisioned when PMLU variances are granted, and that the supply of flat land seems to outweigh the demand.” Ex. 6, p. 4.

\textsuperscript{49}See also, Ex. 6, p. 4 (“Current reclamation practices result in conditions that discourage the re-establishment of trees.”); Id., p. 5 (“The study found no evidence that native hardwood forests, including their herbaceous understory component, will eventually recolonize large mountaintop sites using current reclamation methods.”).
different ecosystem from pre-mining forests for generations, if not thousands of years...

Ex. 5 (emphasis added).

Despite this lack of current reforestation, the DEIS insists: “A BMP manual emphasizing the latest cost-effective reforestation techniques could encourage forestry-related PMLUs.” DEIS II.C-76. However, the DEIS admits that “the only difference between the No Action Alternative and the development and use of BMPs as part of Alternatives 1, 2, and 3 is that this action anticipates broader acceptance and use of the BMPs to improve reclamation to a forest land use.” DEIS IV.C-8. Thus, the DEIS simply assumes that the BMP manual will effectively encourage reforestation, without any support for this assumption and without any requirement for forestry as a PMLU, and in the face of the acknowledged fact that reforestation is not currently practiced due to significant technological barriers and economic disincentives. The DEIS’s analysis of the BMP manual as a proposed mitigation measure is therefore insufficient to meet the requirements of NEPA.

J. The DEIS’ Analysis of the Economic Impacts of Mining Restrictions Is Inadequate

The DEIS does not contain any substantial analysis of the economic impacts of different fill restriction alternatives. The United States spent large amounts of money on a two-phase economic study. The Phase 1 study by Resources Technology Corporation (RTC) analyzed the impact of proposed regulatory changes on the amount of mineable coal reserves. That study cost about $200,000. The Phase 2 study by Hill & Associates (H&A) used the RTC results to estimate the market impacts on coal prices, coal production, electricity generation and electricity pricing. That study cost over $300,000.

However, the Steering Committee rejected those studies, thereby throwing away an investment of over one-half million dollars, purportedly because they “are no longer essential for portraying the differences between the alternatives being analyzed in the EIS. The committee agreed that the studies would have been relevant had the original restriction alternatives proven to be viable alternatives, but since they are not viable, revising the studies is not essential for completion of the EIS.” 9/10/02 Hoffman e-mail, Ex. 40, Attachment. The Steering Committee also believed that the findings in those studies “can be dismissed by credible agency qualifications statements” in the DEIS. Ex. 41, Agenda, p. 2.

In fact, what really happened is that the development agencies on the Committee rejected these studies because they did not like the results, which showed that fill restrictions would not have serious economic impacts. The DEIS explains that the studies found that “in most

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See also, Ex. 6, p. 6: “Even if reclamation practices are changed, we must still consider the recovery of a functional mesophytic forest ecosystem as a long-term ecological experiment with uncertain results.”
situations the restriction would change the price of coal to less than one dollar per ton,” and that “[t]he price of electricity would continue to rise approximately 1 to 2 percent across the scenarios; the impacts due to restrictions will have little effect on price.” DEIS App. G, p. 6 (summary of Phase II Economics study by Hill and Associates) (emphasis added). Even after adjusting the model inputs to be more favorable to the coal industry, the change in the price of coal rose to only two dollars a ton. Id. at 7. Morgan Worldwide Consultants, Inc. (MWCI) conducted an analysis of the RTC Phase I and H&A Phase II economic reports. Ex. 60, Attachment. The MWCI analysis stated:

This letter report prepared by [MWCI] is an analysis focused on work completed since 1999 regarding the economic impacts of restriction on [MTM/VF] operations in Appalachia. It also addresses the current attempt to essentially disregard this work and replace it with unsubstantiated data to produce different results within the next two months...

RTC ... endeavored to estimate the effect of various valley fill restrictions on the quantity of coal potentially available from mining as objectively as possible, going to great lengths to prevent human bias... The results of this unbiased approach[,] are being questioned, and OSM proposes to solicit input from coal industry representatives. MWCI has reviewed the Phase 1 work and determined that it is premature to dismiss the results portrayed in the Final Phase 1 Report...

The methodologies and results of the H&A Phase 2 work are not in question, but H&A has been requested by OSM to conduct a sensitivity analysis using input solicited from coal industry representatives. MWCI ...questions the validity of information supplied by coal industry representatives on such short notice...

Id., p. 1. The MWCI analysis continued:

As stated in the H&A Final Report, “...it is evident that the electricity prices are quite insensitive to the MTM/VF restrictions, showing differences of only 1%-2%, or 3% at the maximum.” ... Consistent with the results obtained with coal tonnage and direct employment, the anticipated 1.15% increase in the base case from $0.01971/KW-Hr in 2002 to $0.02276/KW-Hr in 2010 overshadows price changes induced by potential valley fill restrictions...

Both [RTC and H&A] acted under the direction and guidance of the EIS Steering Committee..., and there is no reason to question the integrity of the results obtained... The EIS work has already spanned years, and RTC and H&A have had the benefit of input from many qualified professionals during the preparation of their Phase 1 and Phase 2 reports, respectively. Rather than replacing these years of effort with a couple of harried months to produce a different answer, spend the time and money understanding and qualifying the results produced to date.

Id. at 8. OSM summarily dismissed the MWCI Report, stating: “We just don’t have sufficient time to deal with this report – particularly when you consider all the comments on the EIS Chapters that must be addressed in the next two weeks. I don’t see that finalizing [the MWCI]
A January 16, 2003 memorandum identified a series of “key issues that we anticipate will be raised when the DEIS is published for public review,” including the following: “As part of the studies conducted in conjunction with the DEIS were studies to assess the economic impacts that would result from implementing actions considering limits on the size of valley fills. Information from the economic studies ... suggest that limits on the size of fills will have only minimal economic consequences on coal and electricity prices. Since smaller fills would seem to coincide with reduced environmental impacts, why is the current version of the DEIS not recommending such limits?” Ex. 62 (emphasis added). That is an excellent question, for which the DEIS provides no adequate answer. The DEIS Executive and Steering Committees, at the insistence of OSM, summarily rejected the findings of the detailed economic studies – commissioned by the Steering Committee itself and conducted over years of study at a cost of over half a million dollars – because the results of the study did not support the OSM’s “Vision” of “streamlining” the MTM/VF permitting process. The CEQ regulations warn that a NEPA document is not to be used to justify a decision already made. 40 C.F.R. § 1502.2(g). Thus, “an agency may not define the objectives of its action in terms so unreasonably narrow that only one alternative ... would accomplish the goals of the agency’s action, and the EIS would become a foreordained formality.” Citizens Against Burlington, 938 F.2d at 196; Muckleshoot, 177 F.3d at 812-14. Because the Phase I and II economic studies contradicted the decision already made by the OSM, the studies were summarily rejected. This rejection violates the requirements of NEPA.

K. The DEIS Underestimates Cumulative Impacts by Ignoring Valley Fills Prior to 1985 and Failing to Include All Watershed Impacts

The valley fill inventory in the DEIS is limited to the years 1985 to 2001, even though states in the study area began permitting valley fills under SMCRA in 1981 and 1982. DEIS III.K-14. The basis for the 1985 cutoff date is that “data from years immediately following approval of a permanent program in a state shows a high level of permitting activity representing a ‘repermitting’ requirement rather than useful information on the trends of permitting new mines.” Id. Thus, the DEIS assumes that it is not possible to filter out “repermitted” mines prior to 1985, and therefore had to exclude all mines permitted before 1985. However, the DEIS filtered out “repermitted” mines after 1985. Id. No reason is given why the same filtering could not have been done for repermitted mines before 1985. As a result of this error, cumulative fill impacts were underestimated.

In addition, those impacts were underestimated because the DEIS defined the watershed impacted by a valley fill to include only “the upland area above each fill toe.” DEIS III.K-38. This does not include the areas downstream or in other watersheds that are impacted by a valley fill. 11/12/02 Tibbott email, Ex. 48. Furthermore, in measuring those impacts, the DEIS only considered actual stream loss, and excluded ephemeral stream areas. DEIS App. I, pp. iii-iv. FWS commented that:
It is painfully clear that they are looking only at the fill footprint. First, I would say that we must look at much more than the acres of stream lost or buried by fill. Stream loss and other impacts can extend well upstream and downstream of the footprint of valley fills and sometimes even outside the drainage that is directly impacted. This type of trend analysis does not provide a comprehensive or “final measurement for evaluating impacts from valley fill construction” and can predict only a fraction of “the overall impact on the environment.”

In summary, this “fill inventory” will grossly underestimate the acreage impacted by valley fills and does nothing to consider how areas upstream and downstream will be impacted.

Ex. 48.

L. The DEIS’ Summary Dismissal of Blasting Impacts as Insignificant Is Erroneous, and Its Suggestion that Citizens File Nuisance Actions Is Outrageous

The DEIS finds that “blasting is not considered a ‘significant issue’ and no actions are considered in this EIS” to address it. DEIS II.A-6. The DEIS claims that existing regulations are adequate to protect coalfield residents from blasting impacts. Id. It states that “when blasting complaints occur, the complaints are investigated and responded to as required.” DEIS III.W-6. At the same time, the DEIS admits that blasting, even within regulatory limits, “will continue to have periodic adverse effects on the quality of life of residents living in close proximity to the mine sites.” Id. However, rather than consider changes to the regulations to eliminate these adverse effects, the DEIS instead advises coalfield residents to file lawsuits to abate the nuisance. Id.

The DEIS is simply wrong that blasting complaints are being adequately investigated and resolved. A report by West Virginia’s Legislative Auditor found that WVDEP’s blasting office was not doing its job. West Virginia Legislative Auditor, Preliminary Performance Review, “The Office of Explosives and Blasting Is Not Meeting All Required Mandates,” PE02-36-268 (December 2002). At the time of the audit, 39 of 202 complaints filed with the blasting office had not yet been assigned to an inspector. Id., p. 13. Fifty-four of the 202 claims were resolved. Id. But of the 148 open claims, only five had been sent to a claims administrator for resolution, the audit found. Id. More than one-third of the open claims were more than a year old, the audit said. Id. at 14. “Citizens with open claims could be living in hazardous conditions due to damage sustained in a blasting incident,” the audit concluded. Id. at 15-16. “In addition, the property values of individuals waiting for the resolution of claims could be affected until the damage of the property is corrected.” Id.

Furthermore, the DEIS’ suggestion that citizens should take their blasting claims to court rather than try to resolve them through the NEPA process or SMCRA is outrageous. OSM’s preliminary report in February 2002 on blasting-related citizen complaints stated:
The performance standards in the blasting regulations were established to provide
protection against damage to typical homes that are located in the coal producing regions.
Both SMCRA and the regulations make it clear that all private property must be
protected from damage. ...

The regulations allow the regulatory authority to require any and all blasts be monitored
using a blasting seismograph which monitors both ground vibrations and airblast. Often
the monitoring of blasts is only required as a reaction to citizen complaints. The survey
also indicates that there is little proactive monitoring by either the regulatory authority or
the operator. In areas where there will be continued blasting activity over a long period
of time and where there is a population concentration there should also be frequent
monitoring of blasts in order to establish a record of the intensity of ground vibrations
and airblast that is generated by the mine and extends into the area around surrounding
[sic] the mine.

2/15/02 Robinson email, Ex. 16, Citizen Complaint Study for EIS, pp. 5-6 (emphasis added).
Thus, here is a practical, sensible measure for reducing blasting complaints by monitoring their
magnitude and frequency. This information should then be made publicly available to coalfield
residents. Monitoring and disclosure can serve the valuable function of exposing excessive
blasting and thereby create an incentive for companies to reduce these impacts, in the same way
that public disclosure of the use of hazardous chemicals under the Emergency Planning and
Community Right-to-Know Act, 42 U.S.C. §§ 11001 et seq., has reduced use of those chemicals.
It is unjust to force citizens to go to court to obtain a judicial remedy when administrative
remedies are already available that could achieve the same goal of reducing nuisance impacts.

M. The DEIS Underestimates Impacts on the Cerulean Warbler by Ignoring A
Recent Study

In January 2003, the FWS notified the Steering Committee that there was a new
December 2002 peer-reviewed study by Weakland and Wood on cerulean warblers:

The issue of MTM/VF effects on cerulean warbler habitat is more important now than it
appeared to be at the time of earlier drafts of the EIS. The Southern Environmental Law
Center has petitioned the Fish and Wildlife Service to list the cerulean warbler as
threatened and to designate critical habitat. The Service’s 90-day finding on the petition
listed mountaintop mining as one of the threats to this species, and noted that
“unfortunately, the area of the country with the highest density of ceruleans is also in a
coal-mining region where mountaintop removal mining is practiced.”

1/22/03 Tibbott e-mail, Ex. 63. FWS stated that “the methods used in the new study allow a
more accurate and precise estimate of bird abundance than were used in the EIS study, and
facilitate evaluating the relationship between bird density and habitat and landscape variables.”
Id. FWS offered to write a new section for the DEIS to describe this new report. Id.
The abstract of the new study concludes that:

Generally, our data indicate that Cerulean Warblers are negatively affected by mountaintop mining from loss of forested habitat, particularly ridgetops, and from degradation of remaining forests (as evidenced by lower territory density in fragmented forests and lower territory density closer to mine edges.)

1/22/03 Tibbott e-mail, Ex. 64, Weakland and Wood, “Cerulean Warbler (Dendroica Cerulea) Microhabitat and Landscape-level Habitat Characteristics in Southern West Virginia in Relation to Mountaintop Mining/Valley Fills,” Final Project Report (December 2002). FWS proposed inserts to the DEIS, including material on the cerulean warbler in this new study. 2/18/03 Tibbott e-mail, Ex. 67, Attachment. However, this material was not included in the DEIS. The new study is not listed in the References in Part V of the DEIS, and the section of the DEIS that discusses the cerulean warbler makes no mention of the findings from the new study. See DEIS III.F-8.

The DEIS’s failure to explicitly consider the Weakland and Wood study clearly renders the DEIS inadequate and in violation of NEPA. In Sierra Club v. Bosworth, 199 F. Supp.2d 971 (N.D.Cal. 2002), the court held that an EIS prepared by the USFS for a post-fire salvage logging project violated NEPA by failing to disclose a scientific study opposing post-fire logging. That case is directly on point. In Sierra Club v. Bosworth, the court explained:

It is not ... adequate ... to merely include scientific information in the administrative record. NEPA requires that the EIS itself “make explicit reference ... to the scientific and other sources relied upon for conclusions in the statement.” ... Nor does the fact that the Forest Service’s scientists may have considered contrary opinions, such as the Beschta report, constitute sufficient compliance with NEPA where the EIS fails to disclose or analyze such opinions. ... Accordingly, the Court concludes that the ... EIS violates NEPA by failing to disclose and analyze scientific opinion in support of and in opposition to the conclusion that the ... project will reduce the intensity of future wildfires in the project area... Plaintiffs also assert that the EIS fails to disclose and analyze scientific opinion that is directly opposed to post-fire logging.... such as the Beschta report... Although the Forest Service is not required to adopt the recommendations contained within the Beschta report and may rely on other expert opinion instead, the ... EIS fails, “not because experts disagree, but because the FEIS lacks reasoned discussion of major scientific objections.” See Moseley, 798 F.Supp. 1473, 1482.

Accordingly, the Court concludes that the EIS violates NEPA by failing to disclose scientific opinion that opposes post-fire logging.

199 F. Supp.2d at 980-81 (citations and footnote omitted). Similarly, the MTM/VF DEIS violates NEPA by failing to discuss the Weakland and Wood study of Cerulean Warblers.

N. The DEIS Underestimates Impacts on Threatened and Endangered Species
The DEIS mentions the September 24, 1996 FWS programmatic biological opinion on MTM/VF operations, which found that state and federal regulatory programs under SMCRA would not jeopardize endangered species if those programs were “properly implemented.” DEIS, p. IV.D-5. However, the DEIS fails to analyze whether, in fact, those programs have been properly implemented. Indeed, preparers of the DEIS deleted the following passage from the final document:

In reviewing the field-level coordination, consultation, and reporting procedures carried out by SMCRA and CWA regulatory authorities in authorizing mountaintop mining activities in Appalachia, the agencies have identified a number of the procedures specified in SMCRA regulations and the 1996 programmatic biological opinion that have not been followed. Of particular concern is the inconsistent interpretation of the requirements of the biological opinion by State regulatory agencies and some OSM offices. For example, in many cases these State agencies have not provided sufficient site-specific information to enable timely FWS review of project proposals, and they are often unwilling to incorporate FWS recommendations for the protection of listed and proposed species, particularly when those recommendations pertain to indirect or cumulative effects. In many instances, explanations and concurrence procedures have also not occurred. Consequently, the level of protection for listed and proposed species envisioned in the programmatic biological opinion, or that would have been obtained through project by project section 7 consultations with the federal regulatory authority, does not appear to have been achieved.

4/21/03 Rider email, Ex. 71, attached file: chivrewrite.wpd. Thus, this passage indicates that the 1996 biological opinion is not working as intended, and therefore that the non-jeopardy of protected species is not being assured. No reason is given for deleting this passage. At a minimum, such analysis of the adequacy of the implementation of the 1996 biological opinion must appear in the EIS. Otherwise, the EIS is misrepresenting the actual level of protection being provided to protected species.

O. The DEIS’ Discussion of Antidegradation Requirements Is Erroneous

The DEIS’ discussion of antidegradation requirements is erroneous in two respects. First, the DEIS fails to acknowledge that Tier 2 antidegradation reviews must be performed for each individual authorization pursuant to a NWP 21 general permit. OVEC v. Horinko, 279 F. Supp. 2d 732, 757-62 (S.D. W.Va. 2003). This means that each valley fill must undergo antidegradation review prior to issuance of a 404 individual permit or a NWP 21 authorization. The DEIS fails to acknowledge this requirement. DEIS II.C-38, 42.

Second, the DEIS fails to acknowledge that valley fills cause significant degradation of downstream waters. Those waters comprise two segments. The first segment is between the toe of the valley fill and the outlet of the downstream sedimentation basin. Valley fills cause a violation of water quality standards in this segment. This segment contains high levels of sediment from valley fill runoff, and is being used illegally for in-stream treatment. The stream
flowing from the toe of the valley fill is a conduit for pollution to the sedimentation basin, which is constructed in the stream. The Clean Water Act “was not intended to license dischargers to freely use waters of the United States as waste treatment systems...” 45 Fed. Reg. 33298 (May 19, 1980). In-stream impoundments remain waters of the United States. 40 C.F.R. § 122.2; West Virginia Coal Ass’n v. Reilly, 728 F. Supp. 1276, 1290 (S.D. W.Va. 1989), aff’d, 932 F.2d 964 (4th Cir. 1991).

The second segment is downstream from the outlet of the sedimentation basin. As we have shown above, this segment will likely contain high levels of selenium that violate water quality standards. As Brian Evans in the FWS’ Southwest Virginia Field Office stated:

> Even if EPA restricts consideration of impacts to the reach of stream below the filled reach, studies described in section III.D show that fills contribute to significant degradation to the overall chemical, physical, and biological integrity of adjacent waters. For example, below fills the ambient water quality criterion for selenium concentration is exceeded consistently, natural flow regimes are altered, and macroinvertebrate diversity is depressed.

1/2/03 Tibbott e-mail, Ex. 57, p. 2).

This violates the letter and spirit of the Clean Water Act. Section 301(b)(1)(B) requires compliance with state water quality standards, including antidegradation requirements. 33 U.S.C. § 1311(b)(1)(B). The Senate Report stated that “this legislation would clearly establish that no one has the right to pollute and that pollution continues because of technological limits, not because of any inherent rights to use the nation’s waterways for the purpose of disposing of wastes.” S. Rep. No. 414, 92nd Cong., 1st Sess., p. 42 (1971). “The use of any river, lake, stream or ocean as a waste treatment system is unacceptable.” Id. at 7. This section “simply mean[s] that streams and rivers are no longer to be considered part of the waste treatment process.” 118 Cong. Rec. 33693-94 (1972) (remarks of Sen. Muskie).

**P. The DEIS Contains Several Serious Misstatements of Fact.**

First, the DEIS incorrectly states that “[w]atershed impacts directly attributable to mining and fills could not be distinguished from impacts due to other types of human activity,” (DEIS II.C-74), and that “the EIS studies did not conclude that impacts documented below MTM/VF operations cause or contribute to significant degradation of waters of the U.S.” DEIS II.D-9. However, as we have shown above, excess selenium was only found downstream from valley fills, and selenium causes significant degradation. Further, as FWS has observed:

> [S]tudies described in section III.D show that fills contribute to significant degradation to

51See also, DEIS IV.B-5: “...nor could data differentiate impacts of mining, fills or other human activity in a watershed.”
the overall chemical, physical, and biological integrity of adjacent waters. For example, below fills the ambient water quality criterion for selenium concentration is exceeded consistently, natural flow regimes are altered, and macroinvertebrate diversity is depressed.

1/02/03 Tibbott e-mail, Ex. 57, p. 2.

Second, the DEIS wrongly assumes that stream burial by valley fills “can be successfully offset by a comprehensive mitigation proposal.” DEIS II.C-23. However, such an assumption is directly contradicted by the DEIS’s own findings regarding the history of in-kind mitigation attempts and the state of the existing technology. That is, functioning headwater streams have never been successfully created in MTM/VF areas, and the technology to create them does not exist. See, e.g., DEIS II.C-50, III.D-18 to 20, IV.B-9. Further, the proposed BMP manual’s suggested reforestation practices are voluntary and unenforceable, and the DEIS points to nothing to suggest that the manual’s existence will increase forestry PMLUs. See, e.g., DEIS III.B-9, 11, and 15.

Third, the DEIS incorrectly claims that 68% of mountaintop mining sites in West Virginia “were to be reclaimed to forestry-related land uses [Appendix G; (Yuill, 2002)].” DEIS IV.C-5. In fact, Yuill reported the following percentages: forest/wildlife–36%; commercial woodland–5%; woodland–27%. DEIS, App. G, Yuill Report, p. 13. The “forest/wildlife” category, the largest of the three, includes the notorious “fish and wildlife habitat” land use. Id., p. 34. That land use usually consists of grassland. As defined by OSM, it does not require any forest component at all. 30 C.F.R. § 701.5 (definition of “land use,” subsection (h)). Furthermore, the DEIS ignores its own prior technical findings that “[l]arge-scale surface coal mining will result in the conversion of large portions of one of the most heavily forested areas of the country, also considered one of the most biologically diverse, to grassland habitat.” Ex. 6, p. 6. Thus, by lumping non-forestry uses with true forestry uses, the DEIS grossly overestimates the actual forestry uses.

Fourth, the DEIS incorrectly asserts that “mountaintop mining may not have a significant impact on the biologic integrity of the terrestrial ecosystems,” and that ample forest will remain to maintain high biological index scores for wildlife. DEIS IV.D-4. However, the DEIS states that “[h]abitat changes will occur ... [involving] a shift from a forest dominated landscape to a fragmented landscape with considerably more mining lands and eventually grassland habitat,” (DEIS App. I, p. 93), and this “change in these habitats could put a number of species in peril.” Id. at v. For example, “forest loss in the West Virginia portion of the study area has the potential of directly impacting as many as 244 vertebrate wildlife species.” Id. at 86. “The potential adverse impact of loss of habitat for [three forest interior bird species - Louisiana Waterthrush, Worm-eating Warbler, and Cerulean Warbler] has extreme ecological significance in that habitats required by these species for successful breeding are limited in the eastern United States.” Id. at 90 (emphasis added). “Loss of these species has more ecological importance than providing habitat for grassland species considered rare in the state because it suggests possible future endangerment of some forest interior species as opposed to the potential gain of some
disjunct grassland species populations.”  Id. at 91.  Further, “[s]alamanders are an important ecological component in the mesic forests of the study area... [and] are intimately associated with forest ecosystems[,] acting as predators of small invertebrates and serving as prey to larger predators.”  Id. (citations omitted).  “Assuming that 80% of the salamanders are lost in the projected forest impact areas, approximately 1,232,972,280 have the potential of being adversely impacted.”  Id. at 92-93 (citation omitted).  Further,

[T]his EIS describes biotic interactions common in headwater streams and various vertebrate species including birds, salamanders (including newts), and mammals which require interactions with the aquatic environment in order to maintain their life cycle.  Biotic communities have been demonstrated to occur in the uppermost reaches of watersheds, even in ephemeral stream zones which flow only as a result of rain or snow melt.  Under all alternatives, the biota in these reaches are at risk from valley fills.  Filling would eliminate all aquatic and aquatic-dependant interactions that would formerly have occurred in the filled area...  [T]he permanent nature of filling would suggest that MTM/VF impacts to biotic interactions in headwater stream systems, including interactions linking terrestrial biota to the aquatic environment, may constitute a[n] irreversible impact to this system in the study area.

DEIS IV.D-4 - 5 (emphasis added).

Fifth, the DEIS incorrectly states that “mined sites may take as long as 120 years or more to attain mature forest conditions.”  DEIS App. I, p. 92.  However, Cindy Tibbot (USFWS) has stated, and William Hoffman (USEPA) has agreed:

[R]e-establishing native hardwood forests on reclaimed mines is still experimental.  We don’t know what the long-term success will be.  Even if hardwood forests can be re-established, it should be intuitively obvious that they’ll be a drastically different ecosystem from pre-mining forests for generations, if not thousands of years...

Ex. 5 (emphases added).  The DEIS itself similarly observes:  “[T]he permanent nature of filling would suggest that MTM/VF impacts to biotic interactions in headwater stream systems ... may constitute a[n] irreversible impact to this system in the study area.”  DEIS IV.D-5 (emphasis added).  See also, Ex. 6, p. 6:  “Unless reclamation practices are changed drastically, it can be assumed that this forest to grassland conversion is, for all practical purposes, permanent.  Even if reclamation practices are changed, we must still consider the recovery of a functional mesophytic forest ecosystem as a long-term ecological experiment with uncertain results.”  (emphasis added).

Finally, the DEIS incorrectly describes West Virginia's AOC+ protocol as a "fill minimization analysis."  DEIS IV.B-7.  As OSM's Charleston Field Office explained, this is incorrect:

The Draft EIS mis-characterizes the AOC+ document as a fill minimization document
when in fact it is an optimization document that simply provides a process to determine the volume of excess spoil and calculates the size of the disposal area for the excess spoil. It creates a 'model' minesite, but the operator is not bound by the constraints of the model when completing the final mine plan. The only constraint is that the amount of material backfilled must equal the amount determined not to be excess by the AOC+ process. It does not limit the size or configuration of any particular fill.

12/12/02 Morgan email, Ex. 53. The Director of WVDEP's Division of Mining and Reclamation criticized the DEIS because it "contains no guidance for determining whether fill sizes have been minimized," and confirmed that the AOC+ formula used by that office is only designed to achieve fill optimization, not fill minimization. 1/13/03 Crum letter, Ex. 61.

III. The Corps Is Illegally Taking Actions Before the Final EIS Is Completed

A. The Corps Has Made Commitments to Actions that Prejudice the Results of the EIS

NEPA requires that, until an agency issues a Record of Decision for a pending NEPA document, “no action concerning the proposal shall be taken which would: (1) have an adverse environmental impact; or (2) limit the choice of reasonable alternatives.” 40 C.F.R. § 1506.1(a)(1), (2). In addition, “the comprehensive ‘hard look’ mandated by Congress and required by the statute [NEPA] must be timely, and it must be taken objectively and in good faith, not as an exercise in form over substance, and not as a subterfuge designed to rationalize a decision already made.” Metcalf v. Daley, 214 F.3d 1135, 1142 (9th Cir. 2000).

The Corps has violated these requirements by making commitments to actions that prejudice the results of the final MTM/VF EIS. In a May-June 2003 briefing brochure entitled “Surface Coal Mining—The way forward,” the Corps stated that it intended to “ensure that NWP 21 will continue to be available to accomplish sustainable use of coal resources.” Ex. 69, p. 3 (emphasis added). Similarly, in an April 4, 2003 document entitled “Mountaintop Surface Coal Mining Master Strategy,” the Corps lists a number of “agency commitments” that the Corps, EPA, and OSM will carry out regarding permitting of mountaintop coal mines. Ex. 74, pp. 5-7. Among other things, the Corps says that it would “make case-by-case determinations of the applicability of NWP 21 to MTM/VF projects.” Id. at 6. As a result, the Corps has already committed to carry out Alternative 2 (case-by-case NWP 21 authorizations), and has rejected Alternative 1 (most mines require individual 404 permits), before the EIS is even finished. See DEIS II.B-3, IV.B-14 to B-15.

B. The Corps Has Decided to Segment the Issue of Fill Thresholds from the Rest of the NEPA Process

One of the most important issues that the EIS should consider in detail is whether to impose thresholds or limits on the amount of streams that can be filled with mining waste pursuant to § 404. However, as discussed above, the DEIS summarily dismisses this alternative
without any detailed analysis. Instead, the DEIS promises that the Corps will continue collecting
data on stream impact thresholds for future analysis and decisionmaking. DEIS II.D-2 to D-3.

The promise is hollow. The Corps plans to “undertake an independent analysis of the utility of thresholds using site-specific verification data, and using a GIS-based evaluation process . . .” Ex. 69, p. 8. However, the Corps already decided that it “will NOT supplement the MTM EIS to disclose the results of its independent analysis of thresholds because the MTM EIS does not contain the information necessary to inform a decision on the appropriateness of thresholds, or what alternative thresholds should be considered.” Id. at 7 (emphasis in original). Instead, the Corps states that “[a]ny regulatory changes [regarding thresholds] would be accomplished by notice and comment rulemaking, as appropriate.” Id. at 8.

NEPA requires that proposals “which are related to each other closely enough to be, in effect, a single course of action shall be evaluated in a single impact statement.” 40 C.F.R. § 1502.4(a). A NEPA document is supposed to analyze the impacts of “[c]onnected actions,” including actions that are “interdependent parts of a larger action and depend on the larger action for their justification.” Id. § 1508.25(a)(1). In this instance, the larger action is federal regulation of mountaintop mining. Restrictions on stream filling are an “interdependent part” of that larger action and therefore must be analyzed together in one comprehensive EIS. In violation of this requirement, the Corps is planning on analyzing fill thresholds completely outside of the NEPA process.

**Conclusion**

For these reasons, the DEIS fails to meet the legal requirements of NEPA and other federal statutes and must be corrected to address the deficiencies noted above and reissued for public comment.
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