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**UNITED STATES DISTRICT COURT  
FOR THE CENTRAL DISTRICT OF CALIFORNIA**

CALIFORNIA DEPARTMENT OF  
TOXIC SUBSTANCES CONTROL  
and the TOXIC SUBSTANCES  
CONTROL ACCOUNT,

Plaintiffs,

v.

NL INDUSTRIES, INC., et al.,

Defendants.

No. 2:20-cv-11293-SVW-JPRx

**PLAINTIFFS' PRETRIAL BRIEF  
FOR PHASE III DIVISIBILITY  
TRIAL**

Judge: Stephen V. Wilson  
Action Filed: December 14, 2020  
Trial Date: August 1, 2023, at  
9 a.m.

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**I. Introduction**

The remaining Defendants are presumed to be jointly and severally liable under CERCLA for Plaintiffs’ response costs. Now, each Defendant seeks to avoid joint and several liability with the affirmative defense of divisibility. This rarely proved, scientifically demanding, and intensely factual defense addresses whether “there is a reasonable basis for determining the contribution of each cause to [the] single harm.” *See Burlington N. & Santa Fe Ry. Co. v. United States (BNSF)*, 556 U.S. 599, 614 (2009) (quotations omitted).

Defendants do not come close to meeting their heavy burden under controlling precedent. Critically, Defendants’ experts offer only incomplete divisibility analyses that contravene the Ninth Circuit’s command that a defendant must account for “the entirety of contamination at a site.” *See Pakootas v. Teck Cominco Metals, Ltd. (Pakootas IV)*, 905 F.3d 565, 592 (9th Cir. 2018) (emphasis added). This failure alone is fatal to Defendants’ divisibility defenses, which also suffer from other incurable flaws. Defendants’ faulty divisibility analyses reflect that the relevant contamination at the Vernon Plant and in the Industrial Area—a complicated site with an incomplete history that experiences commingled contamination caused by nearly nine decades of industrial activities—defies any attempt to develop a rational and complete divisibility framework.

Even though Defendants do not prove divisibility, the Court will soon have an opportunity to reconsider Defendants’ arguments during the forthcoming equitable allocation phase. There, the Court will have “broad discretion” to adjudge the parties’ relative fault “using such equitable factors as the court determines are appropriate,” instead of under the rigid apportionment framework that governs now. *See TDY Holdings, LLC v. United States*, 885 F.3d 1142, 1147, 1149 (9th Cir. 2018) (quotations omitted); *see also Pakootas IV*, 905 F.3d at 596 (noting that an unsuccessful divisibility proponent can instead make equitable allocation arguments under CERCLA Section 113(f)).

1 To summarize: the defense experts take conflicting and inconsistent approaches  
2 to divisibility, but their analyses share a few common points of failure. First,  
3 Defendants’ experts use the wrong unit of analysis for their divisibility analyses. The  
4 Ninth Circuit’s instructions are clear: any divisibility analysis should apply a two-step  
5 apportionment test to “*the entirety of contamination at a site.*” *Pakootas IV*, 905 F.3d  
6 at 592 (emphasis added). None of Defendants’ experts apply the two-step  
7 apportionment test to the entirety of the contamination at hand—the contamination at  
8 the Vernon Plant and in the Industrial Area.<sup>1</sup>

9 Instead, at best, Defendants’ experts attempt to apportion liabilities for small  
10 subsets of the entirety of the contamination. Even though some out-of-circuit courts  
11 have recognized this approach of splitting the entire harm at a contaminated site into  
12 sub-harms, the Ninth Circuit has not. In any event, no defense expert has satisfied the  
13 heavy burden that out-of-circuit courts have imposed on parties that seek to split the  
14 entire harm at a contaminated site into sub-harms.

15 Second, Defendants’ divisibility analyses are incomplete. As discussed, the  
16 Ninth Circuit has required a divisibility analysis to account for “*all of the harm,*” or  
17 contamination. *Id.* at 594 (quotations omitted) (emphasis added). The defense  
18 experts—both individually and collectively—ignore key sub-harms (i.e., they ignore  
19 important aspects of the contamination at the Vernon Plant and in the Industrial Area).  
20 Defendants therefore do not satisfy their burden under controlling precedent.

21 Also, most of the defense experts assess only the causal contributions of the  
22 party or parties that retained them. But the Supreme Court has held that “[a] defendant  
23 asserting a divisibility defense must show that ‘there is a reasonable basis for  
24 determining the contribution of *each cause* to a single harm.’” *Pakootas IV*, 905 F.3d  
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26 <sup>1</sup> See ECF No. 854 at 2 (Court’s order describing its holding after the Phase II trial  
27 that Plaintiffs proved release causation for the Vernon Plant’s above-ground  
28 structures, soil, and groundwater down to the Bellflower Aquiclude, and for the  
Industrial Area).



1 at 595 (quoting *BNSF*, 556 U.S. at 614) (emphasis added); *accord* ECF No. 103 at 4  
2 (July 19, 2021 Order). The defense experts’ incomplete analyses of causation prevent  
3 the Court from conducting a sufficiently robust divisibility analysis that considers  
4 each contributor.

5 Third, no Defendant attempts to divide the harm caused by federally permitted  
6 releases from the harm caused by non-federally permitted releases. This is fatal to  
7 Defendants’ federally permitted release defense.

8 For these and other reasons that Plaintiffs will present at the Phase III trial, no  
9 Defendant satisfies their substantial burden to prove divisibility. Therefore,  
10 Defendants are jointly and severally liable for Plaintiffs’ response costs under  
11 CERCLA. The Court may rely on equitable principles to determine the parties’  
12 relative fault at a future phase of this litigation.

## 13 **II. Legal Standards**

### 14 **A. Defendants Bear a Substantial Burden on a Rarely Successful** 15 **Defense.**

16 After the Phase II trial, the Court held that Plaintiffs had established the seven  
17 remaining Defendants’<sup>2</sup> *prima facie* liability under the Comprehensive Environmental  
18 Response, Compensation, and Liability Act (“CERCLA”). *See* ECF No. 854 at 1. For  
19 such defendants, “CERCLA liability is ordinarily joint and several, except in the rare  
20 cases where the environmental harm to a site is shown to be divisible.” *Pakootas IV*,  
21 905 F.3d at 588.<sup>3</sup>

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23 <sup>2</sup> Clarios, LLC (“Clarios”); Gould Electronics Inc. (“GEI”); Kinsbursky Bros.  
24 Supply, Inc. (“KBI”); NL Industries, Inc. (“NL”); Oregon Tool, Inc. (f/k/a Blount,  
25 Inc.) (“Oregon Tool”); Ramcar Batteries, Inc. (“Ramcar”); and Trojan Battery  
Company, LLC (“Trojan”). *See* ECF No. 854 at 1.

26 <sup>3</sup> Because the California Hazardous Substances Account Act (“HSAA”) does not  
27 impose true joint and several liability, there is no divisibility defense under the  
28 HSAA. *See Fireman’s Fund Ins. Co. v. City of Lodi*, 302 F.3d 928, 946 (9th Cir.

1 Under Ninth Circuit precedent, a defendant seeking divisibility must show (1)  
2 that the “relevant ‘harm’”—“the entirety of contamination at a site that has caused or  
3 foreseeably could cause a party to incur response costs”—“is theoretically capable of  
4 apportionment,” and (2) if so, that “the record provides a ‘reasonable basis’ on which  
5 to apportion liability.” *Pakootas IV*, 905 F.3d at 588–89, 592 (citing *Restatement*  
6 *(Second) of Torts* § 433A(1)(b) (Am. L. Inst. 1965)). These two steps, which tend to  
7 merge in practice,<sup>4</sup> together address the ultimate question of whether “there is a  
8 reasonable basis for determining the contribution of each cause to [the] single harm.”  
9 *BNSF*, 556 U.S. at 614 (quotations omitted).

10 The first step is “primarily a question of law” that depends on “certain  
11 embedded factual questions that must necessarily be answered.” *Pakootas IV*, 905  
12 F.3d at 588–89. These factual questions include (1) the “type of pollution [that] is at  
13 issue,” (2) “who contributed to that pollution,” and (3) “how the pollutant presents  
14 itself in the environment after discharge.” *Id.* at 589 (quoting *United States v. NCR*  
15 *Corp.*, 688 F.3d 833, 838 (7th Cir. 2012)). The defendant must provide “details about  
16 the nature of the harm,” such as “when the pollution was discharged to [the] site,” the  
17 location of the pollutants, and the “substances’ chemical and physical properties.” *Id.*  
18 at 591 (quotations omitted). Those properties include “the relative toxicity, migratory  
19 potential, degree of migration, and synergistic capacities of the hazardous substances  
20 at the site.” *Id.* (quotations omitted).

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24 2002). Instead, the HSAA has other doctrines that may limit a defendant’s liability,  
25 including equitable allocation, that a defendant may invoke to limit the amount of  
response costs they pay. *See* Cal. Health & Safety Code § 25366.

26 <sup>4</sup> *See Von Duprin LLC v. Major Holdings, LLC*, 12 F.4th 751, 763 (7th Cir. 2021)  
27 (“Although the case law has described these [divisibility] inquiries as proceeding in  
28 two distinct steps, it is often easier and more practical to think of them as blending  
together and interrelated.”).

1 The second step, which is “purely a question of fact,” addresses whether the  
2 record provides a reasonable basis to apportion liability. *Id.* at 589. Methods of  
3 apportionment vary with the facts of each case but are “most commonly [based on]  
4 volumetric, chronological, or geographic factors.” *Id.* at 595. In all cases, “the record  
5 must support a reasonable assumption that the respective harm done is proportionate  
6 to the factor chosen to approximate a party’s responsibility.” *Id.* (quotations omitted).

7 “At both steps,” a defendant’s burden “is ‘substantial’ because the divisibility  
8 analysis is ‘intensely factual.’” *Id.* at 589 (citation omitted). “The necessary showing  
9 requires a fact-intensive, site-specific assessment, generating concrete and specific  
10 evidence.” *Id.* (quotations and citation omitted). That rigorous analysis assures the  
11 court that the defendant has developed and proved a rational method to accurately  
12 measure each contributor’s role in causing the overall harm. *Cf. BNSF*, 556 U.S. at  
13 614, 615 n.9 (a defendant must “determin[e] the contribution of each cause to a single  
14 harm” and “establish[] a fixed amount of damage for which they are liable”  
15 (quotations omitted)).

16 “[P]roving divisibility is a very difficult proposition” because site  
17 contamination is “by [its] very nature . . . normally incapable of any logical,  
18 reasonable, or practical division.” *United States v. Hercules, Inc.*, 247 F.3d 706, 717  
19 (8th Cir. 2001) (quotations omitted).<sup>5</sup> “As a practical matter, joint and several liability  
20 often reflects the norm in complex environmental cleanup cases because most  
21 circumstances reveal numerous disposers of waste over long periods of time where  
22 after-the-fact identification of who contributed what and thus who caused what portion  
23 of the present-day harm at issue is exceptionally difficult to ascertain with reliability.”

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25 <sup>5</sup> *Accord Metro. Water Reclamation Dist. of Greater Chi. v. N. Am. Galvanizing &*  
26 *Coatings, Inc.*, 473 F.3d 824, 827 n.3 (7th Cir. 2007) (“The only exception to joint  
27 liability is when the harm is divisible, but this is a rare scenario.”); *Chem-Nuclear*  
28 *Sys., Inc. v. Bush*, 292 F.3d 254, 261 (D.C. Cir. 2002) (divisibility is a “very difficult  
proposition” (quotations omitted)).

1 *Von Duprin LLC*, 12 F.4th at 763. As the Court is aware, that is precisely the case for  
2 the Vernon Plant and the Industrial Area, which were polluted by the Plant’s activities  
3 over a nearly nine-decade operational period.

4 In *Pakootas IV*, the Ninth Circuit emphasized the rarity of successful divisibility  
5 defenses. It observed that a scholarly survey had “count[ed] only four decisions  
6 finding divisibility out of 160 cases”—fewer than three percent. *See Pakootas IV*, 905  
7 F.3d at 588 (citing Martha L. Judy, *Coming Full CERCLA*, 44 New Eng. L. Rev. 249,  
8 283 (2010)). The court stressed that a proponent of divisibility must methodically  
9 account for a wide range of factors to prove divisibility and lauded the district court  
10 because it had “properly ‘refused to make an arbitrary apportionment for its own  
11 sake.’” *See id.* at 596 (quoting *BNSF*, 556 U.S. at 614–15).

12 **B. The Divisibility Analysis Must Consider the Entirety of Site**  
13 **Contamination.**

14 Divisibility focuses on “the environmental harm to a site.” *Pakootas IV*, 905  
15 F.3d at 588. The Ninth Circuit has admonished that the proper unit of analysis—“the  
16 relevant ‘harm’”—“is *the entirety of contamination at a site* that has caused or  
17 foreseeably could cause a party to incur response costs.” *Id.* at 592 (emphasis added).  
18 Thus, any divisibility argument that ignores some subset of the harm at a contaminated  
19 site is incomplete.

20 *Pakootas IV* underscores this point. There, the Ninth Circuit confronted river  
21 contamination that had settled on the riverbed, deposited on the banks, built up in the  
22 sediment, and polluted the water itself. *See id.* at 572–73. A defendant offered the  
23 testimony of a divisibility expert who proposed “two methods for apportioning  
24 liability for the River’s pollution,” as well as “a third possible method” that “he  
25 ultimately did not use.” *Id.* at 587–88. The first method examined only metals  
26 contamination in the river’s sediment; the second method considered only the water  
27 itself; and the third method would have covered “any ‘placement of hazardous  
28 substances’” in the river system. *Id.* at 587–88.

1 The Ninth Circuit rejected the first two methods because they did not comport  
2 with the principle “that the presence of contaminants throughout the Site is the  
3 relevant harm.” *Id.* at 592. The expert, the court noted, should have used but did not  
4 use the “third apportionment method.” *Id.* Also, the expert’s analysis was incomplete  
5 because he had failed to consider whether there was a threat of a further release of the  
6 hazardous substances already in the river system and to account for the presence of  
7 deeper contaminated layers of sediment. *See id.* More significantly, the expert had  
8 failed to consider that different wastes were physically commingled at the site. *See id.*  
9 at 592–93. Ultimately, instead of providing a comprehensive apportionment analysis,  
10 the defendant had myopically “consider[ed] the effects of its waste in isolation from  
11 the other contaminants at [the] site” and thereby failed to meet its burden to prove  
12 divisibility. *Id.* at 593 (quoting *United States v. Alcan Aluminum Corp.*, 315 F.3d 179,  
13 187 (2d Cir. 2003)). And the Ninth Circuit “fully agree[d] with the district court that  
14 ‘because [the defendant] ha[d] failed to account for *all of the harm* at the [river] Site,  
15 it cannot prove that harm is divisible.’” *Id.* at 594 (emphasis added).

16 **C. The Ninth Circuit Has Not Recognized that a Site’s Contamination**  
17 **May Be Divided into Multiple, Distinct Sub-Harms.**

18 The Ninth Circuit in *Pakootas IV* applied the two-step divisibility test to the  
19 entirety of the contamination at a site. 905 F.3d at 588, 592 (holding that “[t]he  
20 divisibility analysis involves two steps”). None of Defendants’ experts have similarly  
21 applied the two-step test to the totality of the contamination at hand.

22 Instead, the defense experts have focused on subsets of contamination at the  
23 Vernon Plant and in the Industrial Area. Accordingly, Defendants necessarily rely on  
24 out-of-circuit cases holding that, instead of applying the two-step divisibility test to  
25 the entirety of the contamination at a site, a defendant may attempt to split the  
26 contamination into multiple, distinct sub-harms for apportionment purposes. *See, e.g.,*  
27 *Hercules, Inc.*, 247 F.3d at 717–18. Plaintiffs have searched for—and been unable to  
28 locate—Ninth Circuit district court decisions that adopt this harm-splitting approach.

1 That is perhaps unsurprising because this approach is in tension with the *Pakootas IV*  
2 court’s insistence that any apportionment analysis must focus on “the entirety of  
3 contamination at a site” or “the overall site contamination.” *See* 905 F.3d at 592  
4 (quotations omitted).

5 Even if the Court were to permit the Defendants to attempt to prove divisibility  
6 by splitting the entirety of the contamination into sub-harms, out-of-circuit courts—  
7 as discussed below—have imposed a heavy burden on defendants who advocate for  
8 such splitting. Typically, those courts have required defendants to meet a “substantial  
9 burden” “requiring concrete and specific evidence of causation of separate and distinct  
10 harms to the environment.” *New York v. Next Millennium Realty, LLC*, 160 F. Supp.  
11 3d 485, 513 (E.D.N.Y. 2016) (quotations omitted). Defendants have not attempted to,  
12 and cannot, satisfy this burden.

13 **D. Unsuccessful Divisibility Arguments May Be Reconsidered During**  
14 **the More Flexible Equitable Allocation Process.**

15 The divisibility inquiry is technical, stringent, and inflexible. Courts refuse to  
16 water down the applicable requirements by “mak[ing] an arbitrary apportionment for  
17 its own sake,” or injecting “equitable considerations” that do not belong in the  
18 analysis. *See BNSF*, 556 U.S. at 614, 615 n.9 (quotations omitted).

19 To safeguard defendants from unfair results, a court may reconsider  
20 unsuccessful divisibility arguments during the equitable allocation process. *See PCS*  
21 *Nitrogen Inc. v. Ashley II of Charleston LLC*, 714 F.3d 161, 182 (4th Cir. 2013) (“any  
22 inequity arising from the unavailability of apportionment” was “mitigate[d]” by the  
23 availability of equitable allocation); *Pakootas IV*, 905 F.3d at 596 (defendant’s  
24 unsuccessful divisibility arguments could be reasserted as equitable allocation  
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arguments under CERCLA Section 113(f)).<sup>6</sup> Moreover, if any Defendant believes that a third party that is not part of this litigation (for example, another arranger or transporter that sent hazardous waste to the Vernon Plant) should pay for some portion of Plaintiffs’ response costs, that Defendant may—as the Court has stressed—assert third-party contribution claims in this action or a separate contribution action. *See* ECF No. 103 at 8 (July 19, 2021 Order) (“[I]f Defendants seek to establish the liability of the absent owners in this proceeding or another, they may bring a third-party complaint under Rule 14 or a separate contribution action under 42 U.S.C. § 9613(f).”).

Finally, Defendants might argue that it is inequitable that Exide Technologies—the Plant’s final owner and operator—went bankrupt and abandoned the Vernon Plant because of “mounting” environmental liabilities, leaving others to pay for response costs. *See In re Exide Holdings, Inc.*, No. 20-11157-CSS, 2021 WL 3145612, at \*1 (D. Del. July 26, 2021). But the Delaware bankruptcy court accounted for the Vernon Plant cleanup when confirming Exide’s bankruptcy plan and made available a substantial amount of Exide’s money to pay for cleanup costs. *See id.* at \*2, \*9–11. In other words, Exide may be absent from this litigation, but it has been taken into account.

In any event, Exide’s absence from this litigation is not a legally relevant reason to find divisibility or otherwise depart from CERCLA’s joint and several liability framework. One of Congress’s “primary purposes” in passing CERCLA was to solve the problems associated with “abandoned waste disposal sites” like the Vernon Plant; Congress established CERCLA’s strict liability scheme to help shift “the ultimate cost of cleaning up these disposal sites” from the public to responsible parties like the

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<sup>6</sup> *Cf. Von Duprin LLC*, 12 F.4th at 767 (“It seems easiest to think of the [equitable] allocation analysis as more flexible and softer than the apportionment [i.e., divisibility] analysis . . .”).

1 Defendants. *Kaiser Aluminum & Chem. Corp. v. Catellus Dev. Corp.*, 976 F.2d 1338,  
2 1340 (9th Cir. 1992). Therefore, Exide’s bankruptcy only underscores the importance  
3 of “constru[ing] CERCLA liberally to achieve these goals.” *Id.*

### 4 **III. Argument**

5 Defendants cannot show that the contamination at and surrounding the Vernon  
6 Plant falls within the fewer than three percent of cases where the harm is divisible. *Cf.*  
7 *Pakootas IV*, 905 F.3d at 588 (citing *Judy, Coming Full CERCLA*, 44 New Eng. L.  
8 Rev. at 283). The Vernon Plant and Industrial Area are precisely the sort of site where  
9 the contamination is not readily divisible. Perhaps because of this difficulty,  
10 Defendants’ experts try to apply divisibility principles to purported sub-harms or  
11 subsets of the contamination rather than the entirety of the contamination at the  
12 Vernon Plant and in the Industrial Area. As explained, only out-of-circuit courts have  
13 recognized this approach. And in any event, Defendants’ experts have not even  
14 attempted to satisfy the requirements that these out-of-circuit courts have imposed  
15 upon CERCLA defendants to show that some aspect of contamination is a separate,  
16 distinct sub-harm for apportionment purposes.

17 Defendants’ divisibility analyses are also impermissibly incomplete. None of  
18 the Defendants “account for *all of the harm* at” the Vernon Plant and in the Industrial  
19 Area. *See id.* at 594 (emphasis added). And Defendants fail to properly account for  
20 “each cause” that contributed to the harm at hand. *See id.* at 592 (quotations omitted).  
21 These incomplete analyses do not and cannot establish that the harm is theoretically  
22 capable of apportionment or that there is a reasonable basis in the record to apportion  
23 liability.

24 Finally, the defense experts’ analyses are marred by a range of flaws. These  
25 shortcomings further demonstrate both that the contamination at the Vernon Plant and  
26 in the Industrial Area is not theoretically capable of apportionment, and that  
27 Defendants have not identified a reasonable basis in the record to measure each  
28 contributor’s role in causing that harm.



1           **A. This Is Precisely the Sort of Site Where the Contamination Is Not**  
2           **Readily Divisible.**

3           Defendants cannot prove divisibility because the contaminated area—the  
4           Vernon Plant and the Industrial Area<sup>7</sup>—is not the sort of site where harm is  
5           theoretically capable of apportionment, or for which there is a reasonable basis in the  
6           record to apportion liability. Indeed, the commingling of contamination here gives rise  
7           to a presumption that apportionment is impossible.

8           The case law shows that proving a divisibility defense is difficult verging on  
9           impossible where complicating factors prevent a defendant from accurately  
10          apportioning causal responsibility for contamination. These factors include:

- 11          • Where different sources and types of pollution have become commingled. In  
12          such circumstances, there is a rebuttable presumption that apportioning liability  
13          is infeasible. *See Pakootas IV*, 905 F.3d at 592–93 (“Mixing of pollutants . . .  
14          does create a rebuttable presumption of [indivisible] harm.”).<sup>8</sup> The presumption  
15          is especially strong where pollutants have different toxicity levels and  
16          migratory potential.<sup>9</sup>
- 17          • The presence of “numerous disposers of waste over long periods of time,” such

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19          <sup>7</sup> The relevant contaminated area is that which reflects “*the entirety of contamination*  
20          *at a site that has caused* or foreseeably could cause *a party to incur response costs,*  
21          suffer natural resource damages, or sustain other types of damages cognizable under  
22          section 107(a)(4).” *Pakootas IV*, 905 F.3d at 592. The Court found after the Phase II  
23          trial that CERCLA’s release-causation element (that releases from the Vernon Plant  
24          caused Plaintiffs to incur response costs) was satisfied as to the Vernon Plant, its  
25          topsoil, its subsurface down to the Bellflower Aquiclude (i.e., excluding the  
26          Exposition Aquifer), and the Industrial Area. *See* ECF No. 854 at 2.

27          <sup>8</sup> *Accord In re Bell Petroleum Servs., Inc.*, 3 F.3d 889, 901 (5th Cir. 1993)  
28          (divisibility arguments “rarely succeed” when there is commingling).

<sup>9</sup> *See Chem-Nuclear Sys., Inc. v. Bush*, 139 F. Supp. 2d 30, 38 (D.D.C. 2001)  
        (“[W]here wastes of varying (and unknown) degrees of toxicity and migratory  
        potential commingle, it simply is impossible to determine the amount of  
        environmental harm caused by each party.” (quotations omitted)).

1 that “after-the-fact identification of who contributed what and thus who caused  
2 what portion of the present-day harm at issue is exceptionally difficult to  
3 ascertain with reliability.” *See Von Duprin LLC*, 12 F.4th at 763.

- 4 • Where the contaminated area is geographically large, and where there are many  
5 liable parties. *See Pakootas v. Teck Cominco Metals, Ltd. (Pakootas II)*, 868 F.  
6 Supp. 2d 1106, 1119 (E.D. Wash. 2012) (noting that the U.S. Supreme Court’s  
7 finding of divisibility in *BNSF* occurred only under “unique facts” where there  
8 were only “two small parcels of property” totaling 4.7 acres at issue, and only  
9 two liable parties were at stake), *aff’d*, *Pakootas IV*, 905 F.3d 565.
- 10 • Where the materials sent to a contaminated site contained different types and  
11 concentrations of hazardous substances. *See id.* at 1118–19.
- 12 • Where the character of pollution-causing operations evolved with time and  
13 hazardous substances were released into the environment at different rates over  
14 time. *See id.* (distinguishing *In re Bell Petroleum Servs., Inc.*, 3 F.3d at 901–03,  
15 which found divisibility at a simple site involving only one pollutant that  
16 affected only groundwater, and where the three successive owners of the only  
17 pollution source had “conducted essentially the same operations”).
- 18 • Where hazardous “materials were moved from location to location” at a site.  
19 *See United States v. Cap. Tax. Corp.*, 545 F.3d 525, 535 (7th Cir. 2008).<sup>10</sup>
- 20 • Where the historical record of hazardous substance releases and contamination  
21 at a site is incomplete. *See Von Duprin LLC*, 12 F.4th at 765 (rejecting  
22 divisibility defense because “the record d[id] not establish when or in what  
23 amounts any of this pollution occurred”).

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25  
26 <sup>10</sup> *Accord PCS Nitrogen Inc.*, 714 F.3d at 183 (affirming district court’s  
27 determination that divisibility analyses must account for “*both* the initial disposals of  
28 hazardous substances *and* any secondary disposals that occurred over time”).

1 All of these complicating factors are present at the Vernon Plant and in the  
2 Industrial Area, making the harm theoretically incapable of apportionment and  
3 depriving the Court of a reasonable basis in the record to apportion liability. As  
4 Plaintiffs' experts Dr. Frederic Quivik and Dr. W. Richard Laton explain, the  
5 contamination at the 13.5-acre Vernon Plant and in the abutting Industrial Area is the  
6 product of nearly nine decades of industrial activities. Critically, the Vernon Plant  
7 itself changed and evolved significantly over its history because of construction,  
8 demolition, and expansion activities. Multiple industrial activities were conducted at  
9 different locations at the Vernon Plant over time, including an older secondary lead  
10 smelter in the South Yard, a newer secondary lead smelter in the North Yard, an  
11 aluminum secondary smelter, a metal extrusion operation, and industrial disposal pits.

12 These industrial activities involved many different processes that released  
13 pollution. Lead-bearing hazardous waste was received and stored; lead-acid batteries  
14 were broken apart; sulfuric acid from batteries and slag from smelting activities were  
15 dumped; the volatile organic compound trichloroethylene ("TCE") was spilled or  
16 dumped during metal extrusion; lead-bearing materials were smelted and refined; lead  
17 and other heavy metals were released to the air through both process and fugitive  
18 emissions; and waste was stored in piles or buried in pits at the Plant. Over the  
19 decades, the Plant had several owners—NL's predecessor Morris P. Kirk & Son, Inc.;  
20 NL; GEI's predecessor Gould Inc. ("Gould"); GNB Inc.; and Exide Technologies.  
21 During this time, many generators and transporters delivered their waste to the Vernon  
22 Plant, including all five of the arranger/transporter Defendants (Clarios, KBI, Oregon  
23 Tool, Ramcar, and Trojan).

24 The historical record of the activities at the Vernon Plant is incomplete. Indeed,  
25 none of the experts can state with confidence the year in which the Plant began  
26 operating in the South Yard, or the year that activities began in the West or North  
27 Yards. However, it is well-established that between the 1920s and the 2010s, industrial  
28

1 processes at the Plant evolved, releasing hazardous substances at different rates and  
2 in different areas.

3 These Vernon Plant operations have undisputedly caused pervasive and  
4 commingled contamination at the Vernon Plant and in the Industrial Area.<sup>11</sup> For  
5 example, soil contamination is present at a wide range of depths. Acidic conditions  
6 caused by sulfuric acid dumping have caused lead and other heavy metals to mobilize  
7 and migrate downward. Hazardous substances have been—or may have been—  
8 redistributed due to industrial processes; subsurface migration; demolition and  
9 construction activities; and other processes. *Cf. Pakootas IV*, 905 F.3d at 592–93  
10 (“Mixing of pollutants . . . does create a rebuttable presumption of [indivisible]  
11 harm.”).

12 Therefore, the Vernon Plant and the Industrial Area comprise precisely the sort  
13 of contaminated site where apportionment is nearly impossible. At minimum, the  
14 commingling of contamination creates a presumption that apportionment is infeasible.

15 **B. No Defendant Has Justified Dividing the Contamination into**  
16 **Separate Sub-Harms.**

17 As discussed, the Ninth Circuit has recognized only a two-step divisibility test  
18 that applies to the entirety of the contamination at a site. *Pakootas IV*, 905 F.3d at 588,  
19 592 (“The divisibility analysis involves two steps”). However, no Defendant applies  
20 the two-step test to all the contamination at the Vernon Plant and in the Industrial  
21 Area. Instead, the defense experts split the contamination up and address subsets of it  
22 in isolation. For example, some defense experts separately address the contamination  
23 in each of the Vernon Plant’s different “yards,” or separately analyze the Plant’s  
24 above-ground, subsurface, soil gas, and groundwater pollution.

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27 <sup>11</sup> Except for the groundwater beneath the Bellflower Aquiclude, pursuant to the  
28 Court’s order following the Phase II trial. *See* ECF No. 854 at 2.

1 Accordingly, Defendants’ divisibility theories necessarily depend on the  
2 aforementioned, out-of-circuit case law recognizing that a defendant may attempt to  
3 split the entirety of site contamination into separate and distinct sub-harms for  
4 apportionment purposes. *E.g., Hercules, Inc.*, 247 F.3d at 717–18. Even assuming this  
5 approach is available in the Ninth Circuit, no Defendant meets the heavy evidentiary  
6 burden that out-of-circuit courts have imposed for parties to prove that site  
7 contamination is comprised of separate and distinct sub-harms. As Plaintiffs have  
8 identified in earlier briefing, *see* ECF No. 531 at 13–17; ECF No. 575 at 3–4, out-of-  
9 circuit courts have required a defendant seeking to split site contamination into  
10 multiple sub-harms to satisfy a “substantial burden” “requiring concrete and specific  
11 evidence of causation of separate and distinct harms to the environment,” *see Next*  
12 *Millennium Realty, LLC*, 160 F. Supp. 3d at 513 (quotations omitted). A defendant  
13 may not meet its “burden of demonstrating” the existence of “distinct harm[s]” by  
14 showing merely that the harm “can loosely be divided into [multiple] general  
15 [geographic] areas.” *See Bd. of Cnty. Comm’rs of Cnty. of La Plata v. Brown Grp.*  
16 *Retail, Inc.*, 768 F. Supp. 2d 1092, 1117 (D. Colo. 2011). Rather, a defendant must  
17 show that a subset of contamination is spatially, chemically, and/or physically separate  
18 and distinct from the rest. *E.g., Hercules, Inc.*, 247 F.3d at 717–18 (courts have found  
19 distinct harms when parties have proved “non-contiguous” areas of contamination or  
20 “separate and distinct [] plumes of groundwater contamination” (quotations omitted));  
21 *Hatco Corp. v. W.R. Grace & Co.-Conn.*, 836 F. Supp. 1049, 1087 (D.N.J. 1993)  
22 (“[T]he harms must be separate and independent.”).

23 *Memphis Zane May Associates v. IBC Manufacturing Co.*, 952 F. Supp. 541  
24 (W.D. Tenn. 1996), illustrates the weight of a defendant’s burden to prove distinct  
25 sub-harms. There, the court found that certain defendants had borne the “difficult”  
26 burden of showing that two zones of groundwater contamination were distinct and  
27 separate sub-harms for divisibility purposes. *Id.* at 548. The defendants met this burden  
28 only with uncontroverted evidence of two non-“commingl[ed]” areas of groundwater

contamination comprised of “distinct pollutants that are geographically separated.” *Id.*; see *United States v. Broderick Inv. Co.*, 862 F. Supp. 272, 277 (D. Colo. 1994) (similarly finding distinct sub-harms when a defendant submitted expert testimony establishing two separate groundwater pollution plumes “emanating from” two different areas that had not “merged with” each other).

Here, no Defendant has disclosed expert testimony showing separate and distinct sub-harms at the Vernon Plant and in the Industrial Area. The defense experts instead assume without any analysis that the contamination can be divided into sub-harms. That is insufficient.<sup>12</sup> Moreover, Defendants cannot prove the existence of distinct sub-harms because the Plant’s three yards and the Industrial Area (and their structures, subsurface, and groundwater) have commingled contamination that were caused by a common set of polluting activities. At the Plant itself, pollution was likely moved across yards, and surface pollution migrated downward into the soil and—in many instances—into groundwater.

In sum, each Defendant’s apportionment theory necessarily depends on dividing the Vernon Plant and Industrial Area’s contamination into distinct sub-harms. Even if the Court were to follow the out-of-circuit law authorizing defendants to split the entirety of the contamination into sub-harms, no Defendant has developed expert testimony supporting such splitting.

### **C. Defendants’ Divisibility Analyses Are Incomplete.**

Attempting to avoid “grappling with the complexity inherent in a CERCLA cost-recovery case as wide-ranging as this one,” see *Von Duprin LLC*, 12 F.4th at 765, Defendants offer expert opinions that are incomplete in two ways.

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<sup>12</sup> Cf. *Axel Johnson Co. v. Carroll Carolina Oil Co.*, 191 F.3d 409, 418 (4th Cir. 1999) (“Courts have uniformly refused to divide widely contaminated properties like the one at issue here into separate facilities in response to a party’s claim to be responsible for contamination in only certain parts of the property.”).



1        First, every Defendant falls short of their burden to prove that the harm is  
2 theoretically capable of apportionment because they fail to account for “*the entirety*  
3 *of contamination at a site* that has caused or foreseeably could cause [Plaintiffs] to  
4 incur response costs.” *See Pakootas IV*, 905 F.3d at 592 (emphasis added); *accord id.*  
5 at 593 (defendant “did not carry its burden of showing that the harm is theoretically  
6 capable of apportionment by simply considering the effects of its waste in isolation  
7 from the other contaminants at a site” (quotations omitted)).

8        *City of West Sacramento v. R and L Business Management*, No. 2:18-cv-00900-  
9 WBS-EFB, 2020 WL 5545272, at \*5–7 (E.D. Cal. Sept. 16, 2020), is illustrative. Even  
10 though that case involved a much smaller and simpler contaminated site, the district  
11 court rejected a defendant’s divisibility defense because its expert had failed to  
12 account for the “entire harm,” as *Pakootas IV* requires. *See id.* at \*6. The defendant’s  
13 expert had tried to perform an apportionment analysis for the entire 0.3-acre parcel  
14 that was the source of the contamination but had failed to account for possible  
15 contamination “beyond the property line.” *See id.* at \*1, \*5–6. Thus, the defendant’s  
16 apportionment analysis failed to “fully define[] the contamination at the Site,”  
17 violating *Pakootas IV*’s command to account for the entirety of the contamination. *See*  
18 *id.* at \*6.

19        So too here. None of Defendants’ experts comprehensively analyze all the  
20 contamination at the Vernon Plant and in the Industrial Area that caused Plaintiffs to  
21 incur response costs. *See* ECF No. 854 at 2 (Court’s release-causation finding). While  
22 some experts’ analyses are broader than others, all of them are incomplete, as  
23 Plaintiffs detail below. For example, no defense expert assesses the contamination of  
24 exposed soils “beyond the property line” in the Industrial Area. *Cf. City of W.*  
25 *Sacramento*, 2020 WL 5545272, at \*6. “Because [each Defendant] has not addressed  
26 the relevant harm”—the entirety of site contamination—“in the first instance, it has  
27 failed to establish as a matter of law that the relevant harm is a single harm divisible  
28 in terms of degree.” *See Pakootas II*, 868 F. Supp. 2d at 1117. “Simply put, because

1 [each Defendant] has failed to account for all of the harm at the [] Site, it cannot prove  
2 that the harm is divisible (“theoretically capable of apportionment”).” *Id.* at 1117–18  
3 & n.13.

4 Second, most of the defense experts offer only incomplete analyses because  
5 they do not consider all the myriad causes of contamination. Divisibility requires a  
6 showing that “there is a reasonable basis for determining the contribution of *each*  
7 *cause* to a single harm.” *See Pakootas IV*, 905 F.3d at 595 (quoting *BNSF*, 556 U.S.  
8 at 614) (emphasis added). However, rather than evaluating the various causes of the  
9 contamination, most of Defendants’ experts focus on trying to absolve the Defendant  
10 or Defendants that retained them. The Ninth Circuit has disapproved of such an  
11 approach. *See Pakootas IV*, 905 F.3d at 593 (defendant “did not carry its burden of  
12 showing that the harm is theoretically capable of apportionment by simply considering  
13 the effects of its waste in isolation from the other contaminants at a site” (quotations  
14 omitted)). That is because a court cannot—either in theory or in practice—apportion  
15 liability without having a sufficiently complete understanding of the various  
16 contributors to that harm.

17 The following analysis details how each defense expert’s analysis is  
18 incomplete.

19 **Dr. William G. Cutler (KBI, Oregon Tool, Ramcar, and Trojan).** Dr.  
20 Cutler, a geologist, fails to account for large swaths of the contamination at the Vernon  
21 Plant, and altogether fails to consider Industrial Area contamination. To the extent Dr.  
22 Cutler focuses on some of the contamination at the Plant, he fails to properly examine  
23 its causes.

24 Dr. Cutler states that the subsurface contamination of soil, soil gas, and  
25 groundwater at the Vernon Plant all occurred before 1986 because the Plant was “fully  
26 paved” after that date. *See* ECF No. 754-1 ¶ 3(a)–(b) (Dr. Cutler’s Phase II trial  
27  
28



1 declaration).<sup>13</sup> Dr. Cutler also opines that metals contamination in the Vernon Plant’s  
2 subsurface is distinct from volatile organic compound (“VOC”) contamination there,  
3 and that surface contamination is distinct from subsurface contamination. Dr. Cutler  
4 thus ignores the above-ground structures at the Plant and the Industrial Area. Dr.  
5 Cutler likewise does not address the causes of the Plant’s contamination.

6 **Dr. Andy Davis (NL).** Dr. Davis—as he did during the Phase II trial—offers  
7 opinions beyond his expertise. Accordingly, Plaintiffs have moved to exclude parts of  
8 Dr. Davis’s testimony. *See* ECF No. 871. In any event, Dr. Davis does not address the  
9 entirety of the contamination at the Vernon Plant and in the Industrial Area, nor assess  
10 each cause of the harm.

11 Dr. Davis assumes that the harms in buildings, pavement, sub-surface, and  
12 groundwater in each of the Vernon Plant’s three “yards,” as well as harms in the  
13 Industrial Area, are “separate areas of contamination” from each other. However, Dr.  
14 Davis has not explained why these different areas represent distinct sub-harms. And  
15 Dr. Davis’s list of “separate areas of contamination” is incomplete because he fails to  
16 consider the soil contamination in exposed parts of the Industrial Area that are not  
17 covered by buildings and pavement.

18 Dr. Davis then cherry-picks facts (for example, he ignores the slag buried  
19 beneath five feet in the West Yard); performs a superficial analysis of the  
20 contamination (for example, by apportioning contribution by years of ownership); and  
21 assigns NL an arbitrarily low share of causal responsibility for each purportedly  
22 “separate area[] of contamination” (for example, by assigning NL only 48%  
23 responsibility for the contamination in the West Yard where NL operated a huge  
24 disposal pit). Revealingly, Dr. Davis uses very different apportionment methods in  
25 different parts of his analysis to skew his results in NL’s favor.

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26  
27 <sup>13</sup> As discussed below, the Court has already rejected Dr. Cutler’s opinions on that  
28 issue. *See* ECF No. 854 at 2.

1 Dr. Davis’s analysis is also incomplete because he does not satisfactorily and  
2 fully explain the various causes of the contamination. Rather, Dr. Davis focuses  
3 almost exclusively on minimizing NL’s and its predecessor’s role.

4 **Robert (“Rory”) S. Johnston (NL).** Mr. Johnston—whose opinions Plaintiffs  
5 have likewise moved to exclude as unqualified and irrelevant, *see* ECF No. 871—  
6 speculates that in the future, DTSC *might* address the subsurface harm at the Vernon  
7 Plant by repairing and enhancing the asphalt pavement that covers much of the site.  
8 Mr. Johnston does not perform any detailed analysis of the subsurface contamination,  
9 including soil, soil gas, and groundwater contamination; consider the contamination  
10 of above-ground structures; or account for Industrial Area contamination. Worse, Mr.  
11 Johnston fails to analyze any of the causes of contamination. Mr. Johnston therefore  
12 fails to perform anything resembling a divisibility analysis for any part of the Vernon  
13 Plant or the Industrial Area, much less the entirety of the contamination as required  
14 by *Pakootas IV*.

15 **Steve McGinnis (GEI).** Like Dr. Davis, Mr. McGinnis does not use the entire  
16 contaminated area as his unit of analysis. Instead, Mr. McGinnis begins by ignoring  
17 the Industrial Area and any surface contamination at the Vernon Plant, thus limiting  
18 his analysis to only the subsurface contamination at the Plant. He then—without  
19 explanation—summarily assumes that the contamination in each of the Plant’s three  
20 yards poses a distinct harm, and also assumes that metals contamination (including  
21 lead) and VOC contamination (including TCE) pose distinct harms in each of the three  
22 yards. He thus fragments his apportionment analysis into six sub-harms,<sup>14</sup> then  
23 purports to assign different percentages of fault for those sub-harms to the “NL  
24 Operational Period” (the period NL and its predecessor owned and operated the Plant),  
25

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26 <sup>14</sup> These are North Yard metals contamination; North Yard VOC contamination;  
27 South Yard metals contamination; South Yard VOC contamination; West Yard  
28 metals contamination, West Yard VOC contamination.

1 the “Gould Operational Period” (the period Gould, GEI’s predecessor, owned and  
2 operated the Plant), and the “GEI/Exide Operational Period” (the period after Gould  
3 owned and operated the Plant).

4 Problematically, Mr. McGinnis does not account for the fact that assigning  
5 causal responsibility for the Plant’s harm is not just about estimating how much  
6 contamination was added to the Vernon Plant during different time periods. Also, Mr.  
7 McGinnis fails to consider how the arranger and transporter Defendants—as well as  
8 others that sent materials to the Plant—contributed to the harm there. Thus, Mr.  
9 McGinnis plainly fails to develop “a reasonable basis for determining the contribution  
10 of *each cause* to a single harm.” *See Pakootas IV*, 905 F.3d at 595 (quotations  
11 omitted).

12 **Dr. Kristen R. Robrock (Clarios).** Dr. Robrock addresses only subsurface  
13 lead and TCE contamination and opines that they are distinct from each other, even if  
14 they exist in the same location. She does not account for any other contamination at  
15 the Vernon Plant, such as the above-ground contamination of the Plant’s built  
16 structures or Industrial Area contamination. Nor does Dr. Robrock provide any  
17 proposed methodology for identifying each contributor to the subsurface lead and  
18 TCE contamination and then apportioning liability among them.

19 **Dr. Shahrokh Rouhani (GEI).** Dr. Rouhani performs a series of statistical  
20 analyses that address only North Yard soil contamination. He does not consider any  
21 above-ground contamination or groundwater contamination in the North Yard; any  
22 contamination in the West or South Yards; or any contamination in the Industrial Area.  
23 He thus does not offer an apportionment analysis that addresses the entirety of the  
24 contamination, as *Pakootas IV* requires. Dr. Rouhani also fails to perform a complete  
25 analysis of which contributors are causally responsible for causing the North Yard’s  
26 existing soil contamination.

27 **Timothy S. Simpson (KBI, Oregon Tool, Ramcar, and Trojan).** Mr.  
28 Simpson opines that the *amount of lead-bearing materials* that KBI, Oregon Tool,

1 Ramcar, and Trojan sent to the Vernon Plant is divisible from the total amount of such  
2 materials recycled at the Plant over its years of operation. In so doing, Mr. Simpson  
3 ignores what contamination actually exists at the Plant and in the Industrial Area. And  
4 Mr. Simpson does not justify why the mass of lead-bearing materials sent to the  
5 Vernon Plant by a particular person provides a basis to determine their causal  
6 contribution to the *contamination*.

7 \* \* \* \*

8 As the foregoing analysis demonstrates, Defendants' experts offer only  
9 incomplete divisibility analyses. They do not account for all the contamination at the  
10 Vernon Plant and in the Industrial Area. And Defendants' experts do not adequately  
11 consider each of the myriad causes of the contamination at issue. They therefore do  
12 not show that the harm is theoretically capable of apportionment, much less identify  
13 a reasonable basis in the record to apportion liability.

14 **D. The Defense Experts' Analyses Suffer from Additional Flaws.**

15 The defense experts' analyses suffer from additional flaws. These shortcomings  
16 reflect both that the contamination at the Vernon Plant and in the Industrial Area is  
17 not theoretically capable of apportionment and that Defendants have not identified a  
18 reasonable basis in the record to measure each contributor's role in causing that harm.

19 Plaintiffs identify some of the most significant problems below. Plaintiffs will  
20 further illustrate these and other shortcomings through cross-examination at trial,  
21 deposition transcript designations, rebuttal testimony, and post-trial briefing.

22 **1. Dr. Cutler, Dr. Davis, Mr. Johnston, and Dr. Robrock's**  
23 **Improper Focus on Potential Remediation Methods**

24 Dr. Cutler, Dr. Davis, Mr. Johnston, and Dr. Robrock each focus on the  
25 potential remediation methods that might be used at the Vernon Plant to argue for  
26 divisibility. However, as discussed in Plaintiffs' motion *in limine* pertaining to Dr.  
27 Davis and Mr. Johnston, *see* ECF No. 871, an expert's speculation about potential  
28

1 future response actions does not bear upon the question of how to apportion liability  
2 for existing contamination among those that caused it.

3 For example, Dr. Cutler opines about whether the methods for investigating and  
4 remediating metals contamination are different from the methods for investigating and  
5 remediating VOC contamination. But any such difference would not help the Court  
6 determine how responsibility for the entire contamination at hand (or even a sub-  
7 harm) may be apportioned among those that caused it.

8 Likewise, Dr. Davis and Mr. Johnston opine about how DTSC should remediate  
9 the subsurface contamination at the Plant, and whether constructing a cap over it  
10 would sufficiently remedy the problem. As discussed in Plaintiffs' motion *in limine*,  
11 *see* ECF No. 871, these opinions have nothing to do with how much causal  
12 responsibility each contributor should bear for the contamination that undisputedly  
13 exists and must be somehow remediated, whether by using a cap or some other  
14 method.

15 Finally, Dr. Robrock speculates about whether the remedial techniques that  
16 DTSC may ultimately choose for metals contamination and VOC contamination will  
17 be distinct. Even assuming Dr. Robrock's testimony is helpful on this issue, that  
18 analysis does not shed any light on each contributor's role in causing any part of the  
19 contamination at the Vernon Plant or in the Industrial Area.

20 It is true that courts have sometimes found *past* remediation *costs* to be a proxy  
21 that can help "approximate harm." *See, e.g., United States v. NCR Corp.*, 688 F.3d  
22 833, 840 (7th Cir. 2012); *but see United States v. W. Processing Co.*, 734 F. Supp.  
23 930, 937 (W.D. Wash. 1990) (rejecting an argument for "apportioning  
24 CERCLA liability in a government enforcement case on the basis of particular costs  
25 incurred, rather than on the basis of environmental harm"). But here, none of  
26 Defendants' experts have attempted to apportion liability by using past remediation  
27 costs as a proxy for each Defendant's contribution to contamination. And Plaintiffs  
28

1 have not located any case law stating or suggesting that potential *future* remediation  
2 *methods* are probative to a divisibility analysis.<sup>15</sup>

3 *Washington v. United States*, 922 F. Supp. 421, 429–30 (W.D. Wash. 1996), is  
4 instructive. There, the U.S. Environmental Protection Agency (“EPA”) remediated a  
5 harbor polluted with commingled pollutants by “adopt[ing] different remedies for two  
6 areas.” *Id.* at 427. The EPA’s “placement of the dividing line” was based on the levels  
7 of toxicity observed in different sections of the harbor. *See id.* at 428 (referring to an  
8 area near a shipyard, an area near a wood treatment facility, and a less polluted “central  
9 harbor” area). The court rejected a defendant’s attempt to prove divisibility based on  
10 the dividing line the EPA drew for the two different remedies. *Id.* at 429–30. The  
11 defendant’s focus on “remediation methods” amounted to a “poor showing” on  
12 divisibility that did not help the court determine each contributor’s role in causing the  
13 harm. *See id.* at 430.

14 So too here. Dr. Cutler, Dr. Davis, Mr. Johnston, and Dr. Robrock speculate  
15 about what future remediation actions might be applied to different aspects of the  
16 Vernon Plant’s contamination. But those opinions simply do not bear upon the  
17 divisibility inquiry, which focuses on measuring the proportionate extent of each  
18 contributor’s role in causing the entire contamination at the Vernon Plant and in the  
19 Industrial Area.

## 20 **2. Dr. Cutler’s Opinions that the Court Has Already Rejected**

21 Dr. Cutler opines that all releases from the Vernon Plant to the subsurface  
22 stopped in 1986, when the Plant became mostly paved. However, the Court has  
23 already heard Dr. Cutler’s argument about post-1986 releases and rejected it by  
24 resolving contested historical evidence, including evidence about the poor condition

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25  
26 <sup>15</sup> *Cf. United States v. Burlington N. & Santa Fe Ry. Co.*, 502 F.3d 781, 798 (9th Cir.  
27 2007) (rejecting the notion that the relevant “harm” for a divisibility analysis is the  
28 “cost of remediation”), *other portions of opinion superseded on denial of reh’g en*  
*banc*, 520 F.3d 918 (9th Cir. 2008), *rev’d on other grounds*, 556 U.S. 599 (2009).



1 of the Vernon Plant’s stormwater system that provided a pathway for pollutants to  
2 contaminate the subsurface. After the Phase II trial, the Court credited Plaintiffs’  
3 expert Dr. Laton’s testimony, *see* ECF No. 741-1 ¶¶ 28, 112–13, that releases to the  
4 subsurface continued after 1986, *see* ECF No. 854 at 2 (“Defendants did not meet their  
5 burden in showing that all releases to the subsurface stopped after 1986.”).

### 6 **3. Dr. Davis’s Unqualified and Arbitrary Opinions**

7 As Plaintiffs explain in their pending motion *in limine* to exclude Dr. Davis’s  
8 testimony, Dr. Davis reaches beyond his expertise when attempting to opine about the  
9 present or future risks posed by the contamination in the Vernon Plant and Industrial  
10 Area. *See* ECF No. 871. Dr. Davis also is wrong to assert that Plaintiffs’ potential  
11 future response actions bear upon divisibility.

12 In addition, Dr. Davis attempts only a superficial and arbitrary apportionment  
13 analysis for each purported sub-harm. Dr. Davis cherry-picks data; uses different  
14 apportionment methods for different purported sub-harms to minimize NL’s and its  
15 predecessors’ roles in causing them; does not show that his many different  
16 methodologies are reliable, *see* Fed. R. Evid. 702(c); and does not explain how his  
17 apportionment methods provide a reasonable basis to divide the relevant harm.

18 For example, Dr. Davis assigns NL a zero percent share of soil contamination  
19 in the Vernon Plant’s North Yard area by simply ignoring evidence showing that soil  
20 removal activities in the early 1980s did not remove all North Yard soil contamination.  
21 In the same breath, Dr. Davis proposes a completely different “alternative” method to  
22 determine NL’s share of responsibility for North Yard soil contamination: a temporal  
23 analysis that apportions liability based solely on the length of the time NL, its  
24 predecessor, and others owned and operated the Vernon Plant. But Dr. Davis does not  
25 justify why a temporal method reasonably approximates NL or any other party’s  
26 causal contribution to North Yard soil contamination, especially given the evidence  
27 suggesting that North Yard soils were contaminated at different rates at different  
28 times. Similarly, Dr. Davis admits that NL’s predecessor was responsible for dumping

1 massive amounts of slag and battery acid in the West Yard area of the Vernon Plant.  
2 But Dr. Davis proposes a temporal method that apportions liability for the resulting  
3 subsurface contamination among different contributors based solely on how long they  
4 owned and operated the Plant—notwithstanding that the most severe West Yard  
5 contamination undisputedly was caused by NL’s predecessor, which dumped large  
6 amounts of slag and acid there.

7 Dr. Davis’s opinions are therefore internally inconsistent and do not represent  
8 an even-handed approach to divisibility.

9 **4. Mr. Johnston’s Unqualified and Wholly Irrelevant Opinions**

10 Mr. Johnston, an engineer who does not claim any expertise in health or  
11 environmental risk assessment, speculates about what remedies DTSC is likely to  
12 select to address subsurface contamination at the Vernon Plant, and whether a cap will  
13 prevent any future harm from subsurface contamination. As discussed, DTSC’s  
14 potential future response actions are irrelevant to divisibility. And, as Plaintiffs’  
15 pending motion *in limine* explains, Mr. Johnston is unqualified to render testimony on  
16 that subject. *See* ECF No. 871.

17 **5. Mr. McGinnis’s Improper Focus on Ownership Periods and**  
18 **Unjustified Assumptions**

19 Mr. McGinnis attributes the Vernon Plant’s contamination to different  
20 *ownership periods*, as opposed to different *contributors*. This analysis is problematic  
21 because the purpose of apportionment is not to determine when pollution may have  
22 occurred, but rather to evaluate how much causal responsibility rests with each  
23 contributor. Mr. McGinnis makes no attempt to establish that ownership periods may  
24 serve as a scientifically and factually sound proxy to measure relative causal  
25 contributions to contamination. And Mr. McGinnis cannot simply *assume* such a  
26 proxy.

27 More fundamentally, Mr. McGinnis bases his opinions on modeling results and  
28 assumptions that are contradicted by sampling data. For example, Mr. McGinnis’s



1 SESOIL model results indicate that lead migrated through soil at the extraordinarily  
2 low rate of no more than 0.06 inches per year. Yet the uncontroverted evidence shows  
3 that lead traveled at much faster rates in Vernon Plant soils, including, for example,  
4 migrating more than 40 feet in less than 60 years (i.e., a rate of at least 8 inches per  
5 year, or 133 times the rate assumed by Mr. McGinnis). Therefore, Mr. McGinnis's  
6 assumptions—and the opinions that rest on those assumptions—should be disregarded  
7 as “inconsistent with the facts as established by other competent evidence.” *In re Bell*  
8 *Petroleum Servs., Inc.*, 3 F.3d at 904.

9 The bottom line is that Mr. McGinnis is forced to supply unreasonable and  
10 unfounded assumptions to account for significant gaps in the historical record. He  
11 does not know the volume of releases during most of the years that the Vernon Plant  
12 operated, does not know the extent to which contaminated soil was removed from the  
13 North Yard in 1980, and does not even know the year in which the Vernon Plant began  
14 operating in each of three yards it eventually occupied. These gaps, which are  
15 unavoidable because the Vernon Plant operated for nearly nine decades, force Mr.  
16 McGinnis with no choice other than to attempt “an arbitrary apportionment for its own  
17 sake.” *BNSF*, 556 U.S. at 614–15.

18 **6. Dr. Robrock's Inaccurate Opinions that Draw False**  
19 **Distinctions**

20 Dr. Robrock testifies that because subsurface TCE contamination in the  
21 unsaturated zone (i.e., the subsurface outside of aquifers) is gaseous, and because  
22 subsurface lead contamination is non-gaseous, TCE and lead contamination are  
23 distinct from each other. But Dr. Robrock's testimony is misleading because TCE and  
24 other soil gases beneath the Vernon Plant occupy the *interstices*—the gaps—in lead-  
25 contaminated soil. Therefore, the soil gas and lead problems are commingled, as she  
26 herself acknowledges. Dr. Robrock also suggests that DTSC has proposed distinct  
27 remedial actions for TCE and lead, notwithstanding that DTSC has not advanced such  
28 proposals. Dr. Robrock also assumes without foundation that DTSC's future remedial

actions for TCE and lead will be distinct, even though she admits that one possible action—soil removal—simultaneously reduces levels of both pollutants.

**7. Mr. Simpson’s Analysis that Fails to Address Parties’ Causal Contributions to the Contamination**

Mr. Simpson merely compares the mass of lead-bearing waste purportedly sent by KBI, Oregon Tool, Ramcar, and Trojan to the Vernon Plant to the total amount of lead-bearing waste recycled at the Plant over its operational period. That simplistic comparison is irrelevant to divisibility because Mr. Simpson has not shown that mass is a reasonable proxy to determine KBI, Oregon Tool, Ramcar, and Trojan’s contribution to the *contamination*.

True, an assessment of each contributor’s volumetric or mass contribution to site contamination can sometimes be a basis for apportionment. However, the Ninth Circuit has cautioned that such an approach is acceptable only if the defendant “show[s] a relationship between waste volume . . . and the harm at [a] site.” *See Pakootas IV*, 905 F.3d at 595 (quoting *United States v. Monsanto Co.*, 858 F.2d 160, 172 (4th Cir. 1988)). Put differently, a defendant must “show[] a relationship between waste volume, the release of hazardous substances, and the harm at the site,” *Monsanto Co.*, 858 F.2d at 172, and establish “that independent factors” other than the volume of waste “had no substantial effect on the harm to the environment,” *see Pakootas IV*, 905 F.3d at 595 (quoting *Monsanto Co.*, 858 F.2d at 172 n.27).<sup>16</sup> The same principles, of course, apply if a defendant seeks to apportion based on the mass, rather than the volume, of waste.

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<sup>16</sup> *Accord United States v. Chem-Dyne Corp.*, 572 F. Supp. 802, 811 (S.D. Ohio 1983) (“Finally, the volume of waste of a particular generator is not an accurate predictor of the risk associated with the waste because the toxicity or migratory potential of a particular hazardous substance generally varies independently with the volume of the waste.”).

1 Mr. Simpson has not demonstrated that the mass of waste that entities like KBI,  
2 Oregon Tool, Ramcar, and Trojan sent to the Vernon Plant is a reasonable proxy for  
3 their causal contribution to the contamination. And there are good reasons to doubt  
4 that mass is a reasonable proxy. For example, Ramcar and Trojan sent spent lead-acid  
5 batteries to the Vernon Plant. *See* ECF No. 711 ¶ 9 (Ramcar); ECF No. 707 ¶ 12  
6 (Trojan). These batteries contained sulfuric acid, a CERCLA hazardous substance.  
7 *See* 40 C.F.R. § 302.4 tbl. 302.4 (list of CERCLA hazardous substances); *see also*  
8 ECF No. 840 (Plaintiffs' Phase II post-trial brief, explaining the role of sulfuric acid).  
9 Mr. Simpson does not consider sulfuric acid *at all* in his analysis, much less account  
10 for the different roles that lead and sulfuric acid played in causing the Vernon Plant's  
11 contamination.

12 Mr. Simpson's analysis is flawed for another, independent reason: he assumes  
13 that hazardous waste manifests are a reliable way to determine the mass of the lead-  
14 bearing hazardous substances that any Defendant sent to the Vernon Plant. However,  
15 the evidentiary record shows that KBI, Ramcar, and Trojan each sent significant  
16 amounts of materials to the Vernon Plant without using manifests. *See* ECF No. 840  
17 at 41–42 (Plaintiffs' Phase II post-trial brief, compiling evidence for KBI and Trojan);  
18 ECF No. 711 ¶ 26 (Ramcar's admission that it did not use manifests when shipping  
19 batteries). Mr. Simpson has not accounted for the materials that KBI, Ramcar, and  
20 Trojan sent to the Vernon Plant without documenting shipments on manifests. And  
21 because the historical record is incomplete, Mr. Simpson cannot reliably estimate the  
22 amount of lead-bearing materials that KBI, Ramcar, and Trojan sent to the Plant. Mr.  
23 Simpson's opinions should be disregarded because his assumption that manifests can  
24 be used to estimate the mass of waste shipped to the Plant is "inconsistent with record  
25 evidence." *See Matsushita Elec. Indus. Co. v. Zenith Radio Corp.*, 475 U.S. 574, 594  
26 n.19 (1986).

27 \* \* \* \*

Each defense expert’s analysis has significant shortcomings that underscore that the contamination at the Vernon Plant and in the Industrial Area is not theoretically capable of apportionment, and also demonstrate that Defendants have not identified a reasonable basis in the record to measure each contributor’s role in causing to that harm.

**E. Defendants Have Abandoned Any Effort to Prove the Divisibility of Federally Permitted Releases.**

As explained in Plaintiffs’ earlier briefs, the federally permitted release defense raised by GEI, KBI, Oregon Tool, Ramcar, and Trojan—which the Court preliminarily credited after the Phase II trial—is subject to a divisibility showing whereby Defendants must show that the harm caused by federally permitted releases is divisible from the harm caused by non-federally permitted releases. *See* ECF No. 840 at 55–56. Defendants have made no effort to make this showing. They have therefore abandoned their federally permitted release defense.

**IV. Conclusion**

“Divisibility is the exception, . . . not the rule.” *Cap. Tax Corp.*, 545 F.3d at 535. Divisibility is provable only at a small subset of simple contaminated sites where there is enough available evidence to determine how much contamination each contributor caused. *Cf. Pakootas II*, 868 F. Supp. 2d at 1121–22 (explaining the U.S. Supreme Court’s analysis of a simple contaminated site in *BNSF*). It is therefore unsurprising that the contamination at the Vernon Plant and in the Industrial Area—a large, complicated site where pollution has accreted for over nine decades starting in the 1920s—is the sort of site where divisibility is infeasible. The dueling experts proffered by Defendants propose diverse and conflicting theories about how divisibility might be established. However, no expert properly accounts for the entirety of the contamination, which is the relevant unit of analysis under controlling precedent. The divisibility analyses also fail for the other reasons that are discussed above and that will be presented at trial. The Court should reject each Defendant’s

1 divisibility defense. The Court may reconsider the defense experts' opinions at the  
2 equitable allocation phase as needed to secure equitable results.

3  
4  
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Respectfully submitted,

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