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	14	IN THE MATTER OF PERCHLORATE	Case No.: SWRCB/OCC FILE A-1824
Andrew .	15	CONTAMINATION AT A 160-ACRE SITE IN THE RIALTO AREA	GOODRICH CORPORATION'S BRIEF
\	16	(SWRCB/OCC FILE A-1824)	and the second of the second o
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	19		Hearing Date: May 8-10 & May 15-17, 2007 Time: 10:00 a.m.
	20		Place: San Bernardino County Auditorium
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I. <u>INTRODUCTION</u>

For the second time in five years, Goodrich is being forced to defend itself against baseless allegations brought by the Santa Ana Regional Water Board Staff. In 2002, the first time the "Advocacy Team" issued a CAO accusing Goodrich of contaminating the Rialto/Colton Groundwater Basin with perchlorate and TCE, the Regional Board held a full hearing and rescinded the CAO due to a lack of evidence. Today, the Advocacy Team's evidence is no stronger than it was in 2002. Indeed, the Advocacy Team cannot present a single witness that can testify that discharges from Goodrich's operations have even reached groundwater or threaten to reach groundwater.

Goodrich is being dragged through this costly and time-consuming procedure again not because there is any new found evidence of its responsibility for the contamination of the Rialto/Colton Basin, but rather because the Advocacy Team is under tremendous pressure from the public and from local and state politicians to find someone, regardless of their culpability, to cleanup the Rialto/Colton Basin. Goodrich, along with the other entities named in this proceeding, simply have been singled out from numerous former and current operators on the 160-acre site, many of which used and disposed of large amounts of perchlorate on the site.

The pressure to find a scapegoat, without any evidence of responsibility, however, is not a permissible reason to seek to lay blame on Goodrich. This is particularly true where, as here, the evidence pointing to the actual culpable parties is so clear. The evidence is overwhelming that contamination in the Rialto/Colton Basin was caused by years of manufacturing, testing, and disposing of fireworks on the 160-acre site. The poorly constructed, negligently maintained disposal pool used by fireworks manufacturers for more than fifteen years to dispose of tons of off-spec fireworks, propellants, and chemical mixtures containing perchlorate at the site is the only confirmed source of perchlorate contamination in groundwater on the 160-acre parcel.

The McLaughlin Pit, as the Apollo/Pyrotronics fireworks hazardous waste surface

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impoundment has come to be known, was no secret to the Regional Board staff. In fact, the Regional Board staff actually approved a WDR for the disposal of 3,000 gallons per day of pyrotechnic wastes containing high concentrations of perchlorate into the pit. Members of the Advocacy Team, and other senior management of the Santa Ana Regional Board staff, personally observed and documented numerous violations at the McLaughlin Pit over the years, including contaminated water overflowing from the Pit. Yet the Regional Board staff did nothing. Under the Regional Board staff's supervision. the McLaughlin Pit fell into disrepair as thousands upon thousands of pounds of pyrotechnic waste were dumped into it, creating one of the most dangerous hazardous waste sites in the Santa Ana Region. Yet still the Regional Board staff did nothing. Not once did the Regional Board staff cite Pyrotronics, issue any penalties against Pyrotronics or even threaten any action.

This was despite regulations that the Regional Board was mandated to enforce that required monitoring to determine if the pit had leaked - monitoring that was never performed – and that required perchlorate to be sampled for when leaks are detected at hazardous waste surface impoundments such as McLaughlin Pit. When it came time to close the McLaughlin Pit in 1987, the Regional Board staff failed to require Apollo, Pyrotechnics, or anyone else to comply with applicable Subchapter 15 regulations regarding closure. More surprisingly, the Regional Board staff decided the area under the pit was clean based on only one sample – a sample that failed to test for perchlorate, nitrate, or any of the likely contaminants that were leaking from the obviously corroded pool. In fact, extraordinarily high levels of perchlorate have been detected in the entire 400-foot soil column under the McLaughlin Pit, with sample results showing perchlorate concentrations of hundreds of thousands of parts per billion in the soil under the pit. As result of the Regional Board staff's failure to properly regulate the Pit, failure to properly close it, and failure to require any effective sampling to determine leakage, massive releases of perchlorate into the soil and groundwater at the 160-Acre site occurred.

The City of Rialto, also a prosecutor in this proceeding, is not without blame with

regard to the McLaughlin Pit. The City issued a negative declaration for the subsequent development of the property on which the McLaughlin Pit is located, but never enforced its mitigation measures. According to the City's mitigation measures, Ken Thompson, Inc., the subsequent owner of the McLaughlin Pit, was to properly and lawfully close the Pit and obtain approval from several agencies after having done so. But there is no evidence that a proper closure of the McLaughlin Pit ever occurred or that Ken Thompson, Inc. ever got required agency approvals. Indeed, it was the City that stood by as Ken Thompson's consultant – who lacked the professional licenses required by regulation – burned 54,000 pounds of hazardous waste in the pit in violation of numerous federal and state laws. And it was the City of Rialto that was the only governmental agency that signed off on the illegal burn.

The result of the Regional Board staff's and the City of Rialto's neglect is that the McLaughlin Pit was permitted to leach perchlorate contaminated waste into the ground for decades, contaminating the Rialto/Colton Basin.

Simply because Goodrich conducted limited operations in Rialto approximately 50 years ago does not support issuing the subject CAO against Goodrich. Moreover, while Goodrich has always maintained its innocence, Goodrich's history with the Regional Board has always been one of cooperation. Goodrich provided four million dollars to water purveyors and spent millions more investigating not only the 160-acre parcel but also contamination miles downgradient of the 160-acre parcel. The results of this thorough investigation are conclusive—Goodrich did not cause or contribute to the groundwater contamination in the Rialto/Colton Basin.

This brief will show, with overwhelming evidence, that: (1) Goodrich did not discharge any TCE or ammonium perchlorate into the groundwater;

- (2) Pyrotronics/Apollo's operations on the 160 acre site, including its use of the McLaughlin Pit, discharged massive amounts perchlorate into the groundwater, and(3) the Regional Board staff's and the City of Rialto's negligent oversight of the operation
- and closure of the McLaughlin Pit allowed water containing high concentrations of

II. BACKGROUND

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After ten years of investigation and five years of cooperation and investigation by Goodrich costing millions of dollars, the Advocacy Team still has no credible evidence to issue a cleanup and abatement order, or Section 13267 order, to Goodrich. Yet, it persists in seeking to have the Draft Amended Cleanup and Abatement Order, No. R8-2005-0053, adopted (the "Draft CAO"). Draft Amended Cleanup and Abatement Order, No. R8-2005-0053; Letter from Jorge Leon to Tam Doduc and Karen O'Haire, February 27, 2007 (stating that Draft CAO constitutes pleading for this proceeding). The Advocacy Team's request should be summarily denied and the Draft CAO should be dismissed by the State Water Resources Control Board (the "State Board").

perchlorate to reach and contaminate the Rialto/Colton Groundwater Basin.

The Draft CAO alleges that Goodrich is liable under Water Code Section 13304 for operations that occurred in Rialto, California from 1957 to 1964. Draft CAO, Findings ¶¶ 27-34. The Advocacy Team claims that Goodrich's operations on a 160-acre parcel in Rialto "have caused or permit waste, i.e., perchlorate and/or trichloroethylene (TCE), to be discharged or deposited where it is, or probably will be, discharged into waters of the state." Draft CAO, Finding ¶ 1. Through the Draft CAO, the Advocacy Team seeks to order Goodrich and the other alleged dischargers to (1) essentially investigate and remediate the entire Rialto-Colton groundwater basin, which by the Advocacy Team's own estimate would cost hundreds of millions of dollars; (2) provide water replacement or contingency plans for 16 public drinking water wells as far away as six miles; and (3) even authorize the Executive Officer, a member of the Advocacy Team, to order the alleged dischargers to reimburse water purveyors for millions of dollars in costs purportedly incurred in cleaning up waste, abating the effects of waste, supervising cleanup and abatement, and taking remedial action. Draft CAO, Order ¶¶ 1-13.

As demonstrated below, both the Draft CAO and the Advocacy Team's Memorandum of Points and Authorities ("Ad. Team P&A's") and exhibits submitted on March 27, 2007, lack any credible evidence demonstrating that a discharge occurred

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from Goodrich's operations into waters of the state. Rather, the Advocacy Team's cases boils down to overly simplistic claims that perchlorate or TCE contamination is coming from the 160-acre parcel and, as a result, Goodrich should be saddled with liability. This approach is grossly inadequate as a matter of law and under the facts of this case and will not withstand judicial scrutiny. *The law does not tolerate such imprecision*. The evidence detailed below demonstrates that Goodrich's operations did not cause contamination to the groundwater and that there are numerous other potential sources of perchlorate and TCE on the 160-acre parcel and throughout the Rialto-Colton basin. They include the two decades of fireworks manufacturing by Pyrotronics on the 160-acre parcel and its use of the Regional Board's sanctioned disposal impoundment (a.k.a. the "McLaughlin Pit"), the only confirmed source of perchlorate groundwater contamination on the 160-acre parcel according to the Advocacy Team's own account; the Robertson Ready Mix operations where the Regional Board permitted millions of gallons of water to wash through perchlorate contaminated soil; and the historic widespread application of Chilean Nitrate fertilizer in citrus orchards throughout the basin.

Likewise, the 2006 Draft CAO falls far short of any legal authority for its issuance. In seeking this relief, the Advocacy Team relies on many significant misunderstandings of the law. To start with, the Advocacy Team incorrectly assumes that the very statutes it seeks to prosecute Goodrich under, Cal. Water Code Sections 13304 and 13267, can be retroactively applied to conduct which began fifty years before these proceedings and ended years before the statutes' operative dates in 1970. This assertion runs contrary to case law that is nearly as old as this country that laws are not, and presumed not to be, retroactive, as well as the express provisions of and legislative history of the statute. As is evident below, even should the State Board erroneously seek to hold Goodrich liable under Water Code Section 13304, there is no evidence that Goodrich's acts violated any laws at the time of its operations in Rialto. In fact, Goodrich, a military government contractor, was required to comply with and follow specific military directives as to the handling and disposition of perchlorate and solvents. This alone precludes the State

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Board from issuing an order to Goodrich. Equally misguided is the Advocacy Team's passing assertion that Goodrich is jointly and severally liable under Water Code Section 13304. Both the law and the Regional Board's own hand in causing the contamination prohibit the imposition of joint and several liability on Goodrich.

For these and the reasons set forth herein, Goodrich respectfully requests that the State Board dismiss the Draft CAO in its entirety.

III. GOODRICH OPERATIONS

A. Historical Background of Goodrich's Operations

In the late 1950's The B.F. Goodrich Company, now Goodrich Corporation ("Goodrich"), made an unsuccessful attempt to enter the "Space Race" through the manufacturing of solid rocket propellant. See Ex. 10 (GRC-018833-51); see also Merrill Dec. ¶ 12. At the time, Goodrich was hoping to parlay its knowledge of binders used in the manufacturing of rubber, for such items as tires, to help it move into the solid rocket propellant business. Id.; see also Ex. 10 (GRC-018833-51) ("The solid rocket motor business is a promising field for which our chemical polymer knowledge fits us.") To that end, Goodrich started a small research and development team in Brecksville, Ohio to study solid rocket propellant. Id. Soon, Goodrich decided to open a facility in Rialto, California with the hopes of obtaining production contracts from the United States Department of Defense. Id.

In September of 1957, Goodrich transferred approximately ten people from Brecksville, Ohio to Rialto, California to begin setting up this new research and development facility. Wever Dec. ¶ 3. It was not until 1959 that Goodrich obtained a contract with the United States government for actual production of rocket motors. Ex. 1 (KWKA00452123-29) (April 2, 1959 Negotiated Contract for Nord 18853); Ex. 52 (KWKA00452143-82) (June 4, 1959 Negotiated Contract for Nord 18966). The first production contract Goodrich obtained was for the Loki motor, also referred to as the HASP (High Altitude Sounding Projectile). *Id.* Two years later, in 1961, Goodrich obtained a contract to produce the Sidewinder missile. *See e.g.*, Ex. 82

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(KWKA00452529) (April 18, 1961 Navy Memo).

Goodrich operated on the Rialto property for just five years before it was forced to close its plant. During these five years, Goodrich attempted, unsuccessfully, to establish a full scale rocket motor production operation servicing United States government contracts. Unfortunately, Goodrich encountered difficulties in the production of both the Loki and the Sidewinder, ultimately forcing it to shut down its operations in 1963. See e.g. Ex. 54 (KWKA00452247-48); Ex. 57 (KWKA00452281); Ex. 60 (KWKA00452283); Ex. 65 (KWKA00452314); Ex. 74 (KWKA00452541-45); Ex. 12 (KWKA00452713-14); Ex. 14 (KWKA00452719-23); Ex. 95 (KWKA00452736-77); Ex. 96 (KWKA00452730-51) Ex. 98 (KWKA00452749-57); Wever Dec. ¶ 46. In total, *less than 1,000 production rockets were produced by Goodrich* in Rialto before the plant ceased operations. Ex. 1 (KWKA00452123-29) (contract Nord 18853 totals 185 Loki motors); Ex. 52 (KWKA00452143-182) (contract Nord 18966 totals 600 Loki motors); Ex. 74 (KWKA00452719-23) (indicates a Sidewinder contract for 311 motors but cracking developed in Lot 3); Merrill Dec., Ex. A.

Unlike later operators on the Property, during its five years of operation, Goodrich had an excellent safety record – not one explosion occurred during Goodrich's tenure. Wever Dec. ¶ 6, 62; Haggard Dep., 38:25-39:8. To ensure the safety of the facility, Goodrich followed standard industry practices at that time, and the then-existing government regulations on the use, handling and disposal of chemicals used to make solid rocket motor propellant. Wever Dec. ¶¶ 6, 54; Haggard Dep., 38:25-39:8.

All of Goodrich's waste solid propellant was disposed of by burning in a burn pit. Sachara Dec. ¶ 9; Graham Dec. ¶ 5-6; Beach Dec. ¶ 11; Willis Dec. ¶ 19; Staton Dep., 24:22-25:2. The burning of propellant waste is a highly efficient means to dispose of this waste. Wever Dec. ¶¶ 54-55; Oxley Dec. ¶ 13-14; Merrill Dec. ¶ 15; Ustan Dec. ¶ 8. During Goodrich's entire short-lived tenure in Rialto, all scrap propellant, excess oxidizer, and spent solvents were promptly collected, placed in combustible containers and taken

to the burn pit for disposal. Sachara Dec. ¶ 9; Graham Dec. ¶ 5-6; Beach Dec. ¶ 11; Willis Dec. ¶ 19; see also Staton Dep., 24:22-25:2. Former Goodrich employees have repeatedly testified under oath that propellant and other chemicals (including oxidizer and solvent) were never left laying on the bare ground at the facility, were never buried at the site, and were never disposed of in a pond, ditch, leach field or landfill at the facility. Sachara Dec. ¶ 6; Holtzclaw Dec. ¶ 10-12; Graham Dec. ¶ 9-11; Beach Dec. ¶ 8; Willis Dec. ¶ 20; Shook Dep., 30:10-14, 53:2-60:6; Staton Dep., 15:5-17:23; Garee Dep., 79:1-23; Morris Dep., 36:6-38:24; Haggard Dep., 36:6-38:24, Hernandez Dec. ¶ 5-7; Bland Dec. ¶¶ 10-1; Ustan Dec. ¶ 8. Because Goodrich burned all combustible industrial waste, the available evidence leads to the conclusion that Goodrich's short lived and small-scale operation did not contaminate, and does not threaten to contaminate, the groundwater at the 160-Acre Parcel or the Rialto-Colton Basin. Oxley Dec. ¶ 13-14; Kavanaugh Dec. ¶ 90, 92-96, 98; Kresic Dec. ¶ 52-53.

1. Goodrich Never Operated A Large-Scale Facility in Rialto

Goodrich never operated a large-scale rocket production facility in Rialto. Merrill Dec. ¶ 24. Indeed, Goodrich principally produced two rockets – the Loki and the Sidewinder. Both of these rockets were relatively small, the Loki was approximately five feet long and three inches in diameter and held approximately 16.8 pounds of propellant. Ex. 4 (KWKA00452572-591); Merrill Dec. ¶ 23, Ex. A. Initially, the Loki I loaded at Goodrich used a Thiokol propellant. Wever Dec. ¶ 13; see also Ex. 54 (KWKA00452247-48); Ex. 80 (KWKA00452271-77). Later on, after Goodrich researchers created their own proprietary propellant, the Loki II was produced using the new Goodrich formulation. *Id.* In total, less than 600 Lokis, including both the Loki I and the Loki II, were produced by Goodrich at its Rialto facility. Ex. 1 (KWKA00452123-29); Ex. 2 (KWKA00452202-3); Ex. 8 (KWKA00452314); Ex. 9 (KWKA00452557-59); Merrill Dec. ¶ 20, Ex. A.

The Sidewinder was a small air-to-air missile used by the United States military.

Wever Dec. ¶ 14. The Sidewinder was approximately five feet long and between five to

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eight inches in diameter and weighed approximately 55 pounds. Ex. 20387 (KWKA00452050). Because of cracking in the propellant grain, Goodrich never completed its production contract with the United States Navy. As a result of the Navy cancelling this contract, fewer than 500 Sidewinder motors were loaded at Goodrich's facility in Rialto. Ex. 11 (KWKA00452643-44); Ex. 12 (KWKA00452713-14); Ex. 13 (KWKA00452702-06); Ex. 14 (KWKA00452719-23); Ex. 15 (KWKA00452767-78); Ex. 17 (KWKA00452740-43); Ex. 19 (KWKA00452634-37); Ex. 84 (KWKA00452616-20); Ex. 86 (KWKA00452634-37); Ex. 89 (KWKA00452677-78).

While Goodrich also produced other motors, such as the ASP, RTV, Atmos and spherical motors, these motors were produced on a very small scale and were mainly for research and development purposes. Wever Dec. ¶ 10, 11, 12; Sachara Dec. ¶ 3, 15; Graham ¶ 4. It is unclear the exact number of these motors produced at Goodrich, but there is no evidence that any significant numbers were produced. Wever Dec. ¶ 10, 11, 12. Moreover, other than the Atmos and spherical motors, there is no evidence that the propellant used in these motors contained ammonium perchlorate. Wever Dec. ¶ 10, 11, 12; see also Graham Dec. ¶ 4.

In total, Goodrich produced well-under one thousand production rocket motors at its Rialto facility. Merrill Dec. ¶ 20, 25, Ex. A. Based on the relatively small size of these motors, the total amount of propellant burned at Goodrich's Rialto facility is less than 12,000 pounds. Merrill Dec. ¶ 20-23, Ex. A. Dr. Claude Merrill, an expert in the field of rocket manufacturing who has worked for the United States Air Force since 1966 at the Edwards Rocket Site, has visited numerous government contractor facilities where propellant was manufactured and tested. Merrill Dec. ¶ 1-4. It is Dr. Merrill's opinion that the amount of propellant produced at Goodrich is far less than many other rocket facilities during this time (facilities the Advocacy Team claims are similar to that of Goodrich's Rialto facility). See Merrill Dec. ¶ 24 ("Based on my knowledge of other rocket production facilities, including that of Thiokol, Hercules, Aerojet, United Technologies, and Atlantic Research Corporation, it is my opinion that the Goodrich

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operation in Rialto, California, in comparison to these other solid rocket manufacturers, was a very small operation. . . . Total Goodrich production estimate of solid rocket propellant at the Rialto plant was much less than 45,700 pounds; this total amount is about what was put into one Minuteman Stage 1 motor in 1961 (the Minuteman Stage 1 motor contained approximately 45,000 pounds of solid propellant).").

2. The Production of Propellant at Goodrich in Rialto, California

The entire propellant production process at Goodrich's facility in Rialto, California took place indoors, including the lining of the motor casing, the oxidizer processing, the mixing of propellant, loading the propellant into rocket motors, curing the rocket propellant, and delivering finished products to the government. Wever Dec. ¶ 16-39.

The first stage in the process involved the lining of rocket motors themselves and took place inside the liner building. Wever Dec. ¶ 16. The lining process involved applying a layer of the binder system mixed with carbon black to the inside of the motor casing. Wever Dec. ¶ 16; Willis Dec. ¶ 4. This process did not require the use of ammonium perchlorate or solvent. *Id.* Upon completion of this process, the motor casings were taken to the casting/curing building. *Id.*

Before the propellant was mixed, the oxidizer was processed by the grinding, blending, and drying of the oxidizer. Goodrich had a very specific procedure regarding the handling of oxidizer at the Rialto facility, and in an effort to contain the small amounts of fugitive materials produced during the processing, all of the oxidizer was processed in a single building. Wever Dec. ¶ 17-26; see also Willis Dec. ¶ 5. A portion of the oxidizer, approximately 25%, was ground to produce a smaller particle size to achieve a specific burn rate. Wever Dec. ¶ 22-23. To grind the oxidizer, Goodrich used a small, laboratory sized hammermill. *Id.* During the grinding process, a screen and dust bag were used to minimize the amount of fugitive emissions. *Id.* After the grinding process, the ground oxidizer was placed into a drying oven. Wever Dec. ¶ 24; Willis Dec. ¶ 5. Once the ground oxidizer was dried, the ground and un-ground oxidizer was blended together in a V-shell blender. *Id.* After the blending process was completed, the

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processed oxidizer was transported to the mixing building. Wever Dec. ¶ 24.

After the ingredients were transported to the mixing building, the oxidizer was placed into a mixer along with the other propellant ingredients according to a specific "recipe" and specified sequence. Wever Dec. ¶ 27. The transfer of the oxidizer from the transfer vessel into the mixer was a clean and dustless procedure. Id. ¶ 29. Indeed, the entire mixing process did not result in any fugitive emissions of chemicals. Wever Dec. ¶ 30. After a batch of propellant was mixed, the uncured propellant was transferred to a transfer vessel and taken to the casting and curing building on a wheeled cart. Wever Dec. ¶ 30, 34; Willis Dec. ¶ 8.

For most of Goodrich's operations, a 100 gallon mixer and 25 gallon mixer was used in the production process. Wever Dec. ¶ 28; Sachara Dec. ¶ 5; Ustan Dec. ¶ 11. Towards the very end of Goodrich's tenure, a new 150 gallon mixer building was constructed. Sachara Dec. ¶ 5. Due to the sudden cancellation of the Sidewinder production contract, this 150 gallon mixer was used at most on one occasion. Sachara Dec. ¶ 5.

The casting and curing building consisted of one room with four separate curing pits (or ovens). Wever Dec. ¶ 34-35. The propellant was loaded into the motor casings from the transfer vessel by gravity through a funnel. Wever Dec. ¶ 36. Once the motor casing was full, the funnel valve was closed and moved to the next motor casing to be loaded. Id. There were no fugitive emissions during the process of transferring the propellant from the transfer vessel to the motor casing. Id. After the casting process, a mandrel was placed in the motor casing. Wever Dec. ¶ 38. The propellant was then allowed to cure for a specific period of time at a specific temperature to allow the propellant to harden in the motor casing. Wever Dec. ¶ 39. Once the propellant was cured and the motors had cooled, the motors were removed from the curing pits and any tooling, including the mandrel, was removed. Id.

After the curing process, a very small amount of propellant was trimmed from the motor casing. Wever Dec. ¶ 40 ("Because the tooling was designed to minimize the

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amount of hand trimming, very little trimming was necessary, I am confidant that it was
less than 1/10% of the total material loaded into the motor."); Willis Dec. ¶ 10; Beach
Dec. ¶ 5; Sachara Dec. ¶ 11; Haggard Dep., 74:19-77:7; Bland Dec. ¶ 8 ("It is my best
estimate that less than half a pound of cured propellant was trimmed from each Loki
motor."); Ustan Dec. ¶ 12. Due to the design of the tooling utilized by Goodrich, very
little trimming was actually necessary. Wever Dec. ¶ 40; Beach Dec. ¶ 5; Haggard Dep.
74:19-77:22. Indeed, with respect to the Sidewinder rocket motor, there was little or no
trimming necessary. Wever Dec. ¶ 40; Beach Dec. ¶ 5; Sachara Dec. ¶ 11. All
propellant trimmings were placed in a combustible container for later transport to the
burn pit for burning. Wever Dec. ¶ 40; Beach Dec. ¶ 5; Willis Dec. ¶ 10; Sachara Dec. ¶
11: Bland Dec. ¶ 8: Ustan Dec. ¶ 12.

The buildings utilized in the production process were built in such a fashion to ensure that emissions, if any, were self contained within the building. Wever Dec. ¶ 20. The small amount of waste generated in the production process was all sent to the burn pit and burned. Beach Dec. ¶ 4, 11; Sachara Dec. ¶ 9; Wever Dec. ¶ ¶ 26, 31, 32, 37, 40; Ustan Dec. ¶ 8. The buildings utilized for the oxidizer processing were fully enclosed and were cleaned after use by sweeping material off the floor and wiping down equipment. Wever Dec. ¶ 23-26. All excess oxidizer (including any sweepings and the rags used to clean the equipment), scrap propellant and spent solvent were collected, placed in combustible containers, and sent to the burn pit for disposal. Wever Dec. ¶ 23-26, 31, 32. Any remaining propellant in either the transfer vessel or the mixer was removed using beryllium spatulas and placed into combustible containers for later transport to the burn pit for burning. Wever Dec. ¶ 31-32; Willis Dec. ¶ 7; Haggard Dep., 40:11-46:11. The mixer and transfer vessel were then cleaned with solvent. Id. The spent solvent and/or rags containing spent solvent were then placed in combustible containers for later transport to the burn pit for burning. Wever Dec. ¶ 31-32; Willis Dec. ¶ 7.

Goodrich did not produce propellant on a daily basis, instead, it was produced on

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an as needed basis, dictated by the production schedule. Wever Dec. ¶ 42; Beach Dec. ¶ 6; Haggard Dep., 151:5-20, 156:17-157:23, 199:2-22. Former Goodrich employees testified that propellant was not mixed several times per week. Wever Dec. ¶ 42.

3. For the Most Part, Goodrich Operated a Research & Development Facility in Rialto

Much of Goodrich's operations in Rialto, California involved the research and development of different propellant formulations. While ammonium perchlorate was a common oxidizer used in these experimental propellants, it was not the only oxidizer used. Sachara Dec. ¶ 4. The mixing of propellant for research and development purposes was similar to that of propellant made for production purposes, but on a much smaller scale. Wever Dec. ¶ 43; Graham Dec. ¶ 4.

Also, as part of research and development, the researchers and lab technicians conducted various tests on the properties of the propellant, including strand burning tests and tensile strength tests. Shook Dep., 19:2-22 (heat combustion test and specific gravity test); Morris Dep., 20:8-21:10 (strand burning test); Holtzclaw Dec ¶ 3; see generally Graham Dec. ¶ 4; Ustan Dec. ¶ 3-4. These tests did not create a significant amount of waste. Shook Dep., 31:2-19, 47:1-8; Morris Dep., 31:11-33:2. Any waste propellant and oxidizer that was created during the research and development process was disposed of by burning in the burn pit. Graham Dec. ¶ 5; Sachara Dec ¶ 3, 9; Wever Dec. ¶ 43; Morris Dep., 31:11-33:2.

4. Static Test Firing Bay

As part of both its production and research and development operations, Goodrich used a static test bay to test fire motors several times a week – test firings did not occur every day. Staton Dep., 38:20-21; Garee Dep., 157:5-23; Wever Dec. ¶ 50-52; Graham Dec. ¶ 7. Most of the motors tested were small research and development motors, designed to test experimental propellant. Staton Dep., 38:22-24; Wever Dec. ¶ 43, 50; Graham Dec. ¶ 4. However, one motor from each batch of production rockets were tested in the static test bay. Wever Dec. ¶ 50.

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After a static test firing was completed, the propellant was completely burned, meaning no propellant remained inside the motor casing or on the ground around the static test bay. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Wever Dec. ¶ 52; Staton Dep., 36:5-29, 75:5-16; Garee Dep., 25:4-25, 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:2-13; Haggard Dep., 122:14-123:14; Morris Dep., 44:3-46:7; Ustan Dec. ¶ 10. No water was used in connection with the testing of rocket motors at the test bay. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Willis Dec. ¶ 18; Wever Dec. ¶ 52; Staton Dep., 26:1-8, 36:15-20.

The static test firing bay is <u>not</u> a disposal site, despite allegations to the contrary by the Advocacy team. As confirmed by the repeated testimony of former Goodrich employees, the test firing of research and development motors and production motors did not generate any waste because *all of the propellant was consumed in the test firing*. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Wever Dec. ¶ 52; Staton Dep., 36:5-14, 75:5-16; Garee Dep., 25:4-25, 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:2-13; Haggard Dep., 122:14-123:14; Morris Dep., 44:3-46:7. Moreover, it is the opinion of Dr. Claude Merrill, who has conducted motor test firings over decades, that "once a high ammonium perchlorate concentration, solid propellant motor is ignited, the propellant completely burns" and that "there would be no scrap propellant remaining after igniting a motor in the Goodrich static test firing bay, even if there was a 'failure' of the motor itself." Merrill Dec. ¶ 16.

5. Goodrich Disposed of All Propellant Waste in a Single Burn Pit

Despite the Advocacy Team's allegations to the contrary, the Goodrich plant in Rialto contained a *single burn pit* – this fact is confirmed by the testimony of numerous former Goodrich employees, including Mr. Lou Staton, the former supervisor of the burn pit. Wever Dec. ¶ 53; Graham Dec. ¶ 5; Willis Dec. ¶ 19; Beach Dec. ¶ 11; Sachara Dec. ¶ 9; Staton Dep., 21:25-22:1, 27:4-14; Garee Dep., 83:2-87:9; Hernandez Dec. ¶ 7; Ustan Dec. ¶ 8; see also, Bennett Dec. ¶ 16. The testimony of former employees confirms that Goodrich's one burn pit was located near the static test firing stand. Sachara Dec. ¶ 9; Wever Dec. ¶ 53; Beach Dec. ¶ 11.

As confirmed by Mr. Dwight Wever, the former safety engineer responsible for setting the burn pit procedures, and consistent with industry and government standards at that time, Goodrich required that "[a]II oxidizer waste, including ammonium perchlorate, and propellant waste generated at the Rialto plant was disposed of in the burn pit, without exception. In addition, all spent solvent and rags used with solvent were disposed of in the burn pit, without exception." Wever Dec. ¶¶ 53-54; Ex. 118 (Ordnance Manual, ORD-M 7-224, § 27); Ex. 117 (Explosives Manual, TO 11A-1-34); Ex. 50 (Destruction Manual TM9-1903); Ex. 110 (1956 Safety Procedures); see also Sachara Dec. ¶ 12; Graham Dec. ¶ 5; Willis Dec. ¶ 7; Beach Dec. ¶¶ 4-5, 11.

The frequency of the burns was based on the production schedule; in other words, a burn was conducted after each batch of propellant was manufactured. Wever Dec. ¶ 60. Material placed in the burn pit was burned immediately; no scrap was left outside or in the burn pit overnight, or for extended periods of time. Wever Dec. ¶ 55; Willis Dec. ¶ 19; Staton Dep., 57:2-58:8, 63:6-16; Garee Dep., 83:2-87:18; Hernandez Dec. ¶ 7; Ustan Dec. ¶ 8. The burn pit was never rinsed with water, and burns did not occur during rainy or windy conditions. Wever Dec. ¶¶ 57-60; Staton Dep., 26:1-15.

Material to be burned was placed in cardboard containers and then transferred to the burn pit in push carts. Wever Dec. ¶¶ 26, 31, 32, 37, 40, 55. These containers were carefully stacked into the burn pit in a very specific order. Wever Dec. ¶ 56. First, the combustible containers of excess propellant from the mixer along with the minimal trimmings were placed into the burn pit, then any excess oxidizer (again contained in combustible containers) was placed into the burn pit, and last, any rags or any solvent containing propellant or oxidizer (along with any dust masks or gloves worn by Goodrich operators) was placed on top. Wever Dec. ¶ 56. The burn was ignited through the use of a remote igniter operated by a battery from the test stand. Wever Dec. ¶ 58.

As would be expected given the nature of rocket propellant, the material burned very fast and very hot. Wever Dec. ¶ 58; Graham Dec. ¶ 6. No material remained in the burn pit after a burn. Wever Dec. ¶ 58; Beach Dec. ¶ 11; Willis Dec. ¶ 19; Graham Dec.

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¶ 6; Staton Dep., 25:23-25, 98:4-7, 98:11-25; Garee Dep., 190:2-193:8, 270:1-11.

Because of the manner in which Goodrich's propellant related waste was handled, virtually all of it (including the oxidizer and spent solvent) was consumed in the fire, and thus not discharged into the environment. Recent tests performed by an expert in chemical engineering have shown that propellants burned in a burn pit, such as the one used by Goodrich, produce virtually undetectable concentrations of perchlorate in the residual ash. Oxley Dec. ¶ 12-14. Dr. Jimmie Oxley, a Professor of Chemistry at the University of Rhode Island and Co-Director of the Forensic Science Partnership, conducted numerous burns using propellant formulations similar to those used by Goodrich, and concluded that the percentage of perchlorate remaining (out of the original propellant burned) was only 0.002%. Oxley Dec. ¶¶ 1, 12. These tests clearly show that burning is an extremely efficient means to dispose of perchlorate containing wastes and that Goodrich did not discharge perchlorate into the soil or groundwater through its use of a burn pit at its Rialto facility.

6. There is No Evidence that Goodrich Used Trichloroethylene

Despite the multiple assertions and assumptions made by the Advocacy Team. there is no evidence that Goodrich used Trichloroethylene ("TCE") at its Rialto facility. Indeed, several former Goodrich employees affirmatively testified that TCE was not used in any part of Goodrich's operations in Rialto. Haggard Dep., 54:10-23 ("Q. Do you recall there ever being an instance where you used a chemical called trichloroethylene to clean the mixers? A. Not to my knowledge."); Garee Dep., 122:6-123:18; Morris Dep., 39:3-25 ("Q. Are you familiar with a solvent called trichloroethylene? A. Yes. Used that in the Air Force. Q. Did you ever use trichloroethylene at the Goodrich facility? A. No."); Shook Dep., 29:2-19; Holtzclaw Dec. ¶ 9 ("I recall that acetone was used at the Rialto facility to clean the carriages where propellant was cured. I do not recall any other solvent being used at the facility. I do not recall ever seeing Trichloroethylene or hearing of any employees using Trichloroethylene at the facility."); Willis Dec. ¶ 13 ("During the entire length of my employment at

Goodrich, I never used and I did not see other employee[s] use trichloroethylene at Goodrich's Rialto facility."); Hernandez Dec. ¶ 3 ("To my knowledge, only MEK and acetone were stored at Goodrich. I do not recall the solvent trichloroethylene ever being stored at Goodrich."); Bland Dec. ¶ 10.

The only witness the Advocacy Team relies upon to establish that Goodrich used TCE is Mr. Dwight Wever, but Mr. Wever, after careful reflection, testified that he cannot recall what type of solvent was used at the Goodrich facility in Rialto:

I am aware that a solvent was used to clean the mixing equipment, but at this time I have no recollection of the specific solvent used in this process.

Wever Dec. ¶ 32. Indeed, Mr. Wever, cannot identify exactly what type of solvent was used for any cleaning purpose at Goodrich. Wever Dec. ¶ 32. Simply stated, the Advocacy Team cannot cite to one piece of evidence, either documentary or testimonial, to support the assertion that Goodrich used or disposed of TCE at its Rialto facility. *See* Haggard Dep., 54:10-23; Garee Dep., 122:6-123:18; Morris Dep., 39:3-21; Shook Dep., 29:2-19; Holtzclaw Dec. ¶ 9; Willis Dec. ¶ 13; Wever Dec. ¶ 32; *see also* Sachara Dec. ¶ 10; Beach Dec. ¶ 4; Graham Dec. ¶ 8.

7. Safety

Continuously throughout its tenure in Rialto, California, Goodrich required that all employees follow safety procedures to not only protect the employees from risk of injury but also to comply with the government and industry standards of the time. Wever Dec. ¶¶ 6, 54. Mr. Dwight Wever, the former safety engineer at Goodrich's Rialto facility, personally ensured that all employees obtained the requisite safety training for the safe handling of propellant and hazardous materials. *Id.* Goodrich's dedication to safety is evidenced by the facility's outstanding safety record – no major explosion or fire occurred during Goodrich's tenancy. Wever Dec. ¶ 62; Graham Dec. ¶ 13; Willis Dec. ¶ 20; Holtzclaw Dec. ¶ 5; Haggard Dep., 38:25-39:8; Ustan Dec. ¶ 6.

All waste propellant and oxidizer was managed pursuant to the safety regulations. Wever Dec. ¶ 54. Testimony of numerous former Goodrich employees confirms that for

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safety reasons, propellant, oxidizer, or solvent was never left laying on the ground at the facility or buried on the site. Sachara Dec. ¶ 6; Holtzclaw Dec. ¶¶ 10-12; Graham Dec. ¶¶ 9-11; Beach Dec. ¶ 8; Willis Dec. ¶ 20; Shook Dep., 30:10-14, 53:2-60:6; Staton Dep., 15:5-17:23; Garee Dep., 79:1-23, 79:1-23; Morris Dep., 36:6-38:24; Haggard Dep., 36:6-38:24; Wever Dec. ¶¶ 63-66; Hernandez Dec. ¶¶ 5-7; Bland Dec. ¶¶ 10-11; Ustan Dec. ¶¶ 6,8.

Despite the Advocacy Team's assertions to the contrary, there is not one piece of evidence establishing that Goodrich buried any material in the area referred to as "D-1" in the southern portion of Goodrich's former facility. Not one witness has testified that Goodrich buried any waste propellant there; indeed, to the contrary, former Goodrich employees unanimously agree that Goodrich never buried waste propellant. Sachara Dec. ¶ 6; Holtzclaw Dec. ¶¶ 10-12; Graham Dec. ¶¶ 9-11; Beach Dec. ¶¶ 8-9; Willis Dec. ¶ 20; Shook Dep., 30:10-14, 53:2-60:6; Staton Dep., 15:5-17:23; Garee Dep., 79:1-23; Morris Dep., 36:6-38:24; Haggard Dep., 36:6-38:24; Wever Dec. ¶ 61; Hernandez Dec. ¶ 6. The Advocacy Team cannot point to one historical document establishing that Goodrich buried any waste propellant. The only "evidence" the Advocacy Team can point to is a historical, aerial photograph showing that Revetment O-1 (as named by the Rialto Ammunition Storage Point) was "modified" during Goodrich's years of operations. Ad. Team P&As, 94. This simple fact does not establish that Goodrich buried anything in that vicinity. Indeed, any such practice would have violated Goodrich's safety procedures, the applicable government regulations and was not the industry practice at the time - every former Goodrich employee testified that these procedures were always followed at the facility.

8. Closure of the Goodrich Plant

Shortly after Goodrich began production of the Sidewinder motor, in November of 1962, Mr. Dwight Wever (the project manager for the Sidewinder) discovered cracks in the propellant grain of the Sidewinder motors. Wever Dec. ¶ 46; Ex. 12 (KWKA00452713); Ex. 13 (KWKA00452702). Upon discovering this problem, all

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production of the Sidewinder motor was stopped and ultimately Goodrich lost its contract with the United States Navy. Wever Dec. ¶ 46; Ex. 98 (KWKA00452749); Ex. 15 (KWKA00452767). However, Goodrich was required to return the Sidewinder motor casings to the Navy – meaning that Goodrich was required by the Navy to remove the cracked propellant from these casings and return them to the government. Wever Dec. ¶ 47.

In order to remove the cracked propellant from the Sidewinder casings, Goodrich developed a cutting tool and stand that was designed to auger the cured propellant out of the motor casing. Wever Dec. ¶ 47; Haggard Dep., 113:2-121:25, 210:5-213:9; Bland Dec. ¶ 9. Once the propellant was augured out of the casing, the casing was cleaned with rags and solvent to clean any remaining propellant and/or liner from the casing. Wever Dec. ¶ 47; Bland Dec. ¶ 9. No water was used to remove propellant from the Sidewinder casing during the auguring process. Wever Dec. ¶ 47; Haggard Dep., 211:25-213:11. All of the removed propellant, any rags, and any spent solvent was placed in combustible containers and sent to the burn pit for burning. Wever Dec. ¶ 47; Bland Dec. ¶ 9.

Former Goodrich employees, such as Mr. Jimmie Haggard, who actually assisted in this process and witnessed the removal process first hand, agree that at no time was any of the propellant removed from the Sidewinder casings thrown or left on the bare ground.

Mr. Dintzer:

Did you ever observe any scrap propellant laving on the ground when you came by [the Sidewinder salvage areal either to work or after you had left or just incidentally being there?

Mr. Haggard:

No.

Mr. Dintzer:

Did you ever hear that anybody had complained about the dumping of scrap propellant on the

ground?

Mr. Haggard:

No.

Mr. Dintzer:

Did you ever hear of anybody complaining about

the dumping of solvent on the ground?

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Mr. Haggard: No.

Haggard Dep., 119:23-120:8; see also Haggard Dep., 119:4-8 ("Q. If someone said that there was scrap propellant laying all over the ground as this process was going on, the removal of propellant from the Sidewinders, would that statement be untrue? A. Yes."); see also Wever Dec. ¶ 47 ("I did not observe any of the propellant removed from the casings or solvent used spilled on the ground."). Moreover, at no time was any solvent used during this removal process ever dumped and/or spilled on the bare ground. Wever Dec. ¶ 47; Haggard Dep., 119:9-13, 120:6-8.

As a result of the problems encountered with the Sidewinder motors, Goodrich lost its contract with the United States Navy and ultimately was forced to close its Rialto facility. By May of 1963, the Navy was looking for another contractor to complete the Sidewinder project. Ex. 98 (KWKA00452749-57). Goodrich never obtained another contract from the United States government and by July of 1963, just seven months after discovering the cracks in the Sidewinder, Goodrich lost the Sidewinder contract, and was forced to begin closing its Rialto facility. Ex. 15 (KWKA00452767-78); see also Wever Dec. ¶ 48.

B. Goodrich's Operations in Rialto, California Did Not Result in Any Discharges to the Groundwater

The Advocacy Team's Memorandum of Points and Authorities is glaringly devoid of any evidence establishing that Goodrich's operations in Rialto, California resulted in a discharge to the groundwater in the Rialto/Colton groundwater basin. Pursuant to California state law, the Advocacy Team bears the burden of proving that Goodrich contaminated the groundwater, or that Goodrich threatens to contaminate the groundwater. But, the Advocacy Team has provided no evidence that any perchlorate used by Goodrich in its operations has actually contaminated, or threatens to contaminate, the groundwater in the Rialto/Colton basin. Instead, the Advocacy Team alleges only that Goodrich used perchlorate in its former operations and that the groundwater in the Rialto/Colton basin is contaminated with perchlorate. Ad. Team

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P&As, 62-79. The Advocacy Team then leaps to the conclusion that the contamination in the Rialto/Colton basin must be from Goodrich's operations, at least in part. Ad. Team P&As, 93-109. The Advocacy Team admits that it does not know whether the perchlorate contamination in any given well or soil sample is actually from Goodrich's operations. Saremi Dep., 305:6-19, 307:15-308:13, 455:22-459:18, 656:19-24; Sturdivant Dep., 627:1-11, 646:20-647:4, 649:2-22; 651:17-652:9, 717:15-23; Holub Dep., 933:8-23, 934:2-15, 935:2-5, 93:10-15, 984:25-985:4, 985:18-21, 988:20-23.

More importantly, by ignoring this critical link in establishing actual contamination (or threatened contamination), the Advocacy Team fails to consider the transport mechanism necessary for any perchlorate to travel through the approximately 400 feet vadose zone and reach groundwater. Kresic Dec. ¶ 54. Due to the lack of water used in Goodrich's operations, the vertical transport of perchlorate through the approximately 400 foot thick vadose zone could only have been driven by the natural infiltration of rainwater. Kavanaugh Dec. ¶¶ 27-28; Kresic Dec. ¶ 18. Given that the climate in Rialto, California is arid (the 50-year average rainfall is approximately 15.4 inches of rain per year), the natural infiltration is insufficient to carry residual perchlorate through the vadose zone to a depth where groundwater is present. Kresic Dec. ¶¶ 24-25, 54; Kavanaugh Dec. ¶ 29. Dr. Nevin Kresic, a hydrogeologist and modeling expert, has developed and ran models of the vadose zone underneath the property in Rialto, California. Kresic Dec. ¶ 20. Dr. Kresic's results demonstrate that if there were any residual perchlorate from Goodrich's operations it would have never reached the groundwater in the Rialto/Colton groundwater basin. Kresic Dec. ¶¶ 25, 52.

The Advocacy Team points to four potential sources of perchlorate contamination from Goodrich's former operations: (1) Goodrich's burn pit; (2) Goodrich's production process (including a 150-gallon mixer); (3) the static test firing bay; and (4) the sidewinder salvaging process. However, the overwhelming evidence establishes that if there were any potential perchlorate discharges from these operations, they were miniscule at best and thus never reached the groundwater nor threatens to reach

groundwater in the Rialto/Colton basin.

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1. Goodrich's Burn Pit is NOT a Source of Perchlorate Contamination

It is undisputed that Goodrich *burned* its solid rocket propellant waste in a burn pit – former Goodrich employees unanimously testified to this fact and the Advocacy Team admits this in the Draft Cleanup and Abatement Order. *See* Wever Dec. ¶¶ 53-54; Sachara Dec. ¶ 12; Graham Dec. ¶ 5; Willis Dec. ¶ 7; Beach Dec. ¶¶ 4-5; Draft CAO, 33(j). The evidence also conclusively shows that Goodrich was *required* to incinerate waste ammonium perchlorate and solvent contaminated with propellant in a burn pit. Ex. 118 (Ordnance Manual, ORD-M 7-224, § 27); Ex. 117 (Explosives Manual, TO 11A-1-34); Ex. 50 (Destruction Manual TM9-1903); Ex. 110 (1956 Safety Procedures).

Importantly, the overwhelming testimony of former Goodrich employees establishes that after a burn *nothing remained in the burn pit*. Wever Dec. ¶ 58; Beach Dec. ¶ 11; Willis Dec. ¶ 19; Graham Dec. ¶ 6; Staton Dep., 25:23-25, 98:4-7, 98:11-25; Garee Dep., 190:2-193:8, 270:1-11. This firsthand knowledge is corroborated by tests performed by a leading expert in chemical engineering, Dr. Jimmie Oxley, which confirm that propellants burned in a burn pit, such as the one used by Goodrich, are completely consumed and that the levels of perchlorate remaining in the residual ash are virtually undetectable at approximately 0.002%. Oxley Dec. ¶¶ 12-14. The fact that Goodrich also burned oxidizer and spent solvent in its burn pit does not change this conclusion; indeed, "any additional oxidizer, such as ammonium perchlorate, only makes the burn cleaner." Oxley Dec. ¶¶ 13. Moreover, Dr. Merrill, an expert in the industrial practices of rocket facilities, conservatively estimates that Goodrich destroyed approximately 9,599 pounds of ammonium perchlorate (much of which was contained in scrap propellant) by burning, during the entire length of Goodrich's operations. Merrill Dec., Ex. A. Even with this conservative estimate of the amount of perchlorate burned, less than one pound of perchlorate remained in the residual ash after burning. See Merrill Dec., Ex. A; Oxley Dec. ¶¶ 13-14; Kavanaugh Dec. ¶ 23.

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This minute amount of perchlorate is clearly insignificant given the extent of perchlorate contamination in the Rialto/Colton Groundwater Basin. Kavanaugh Dec. ¶ 90. Moreover, regardless of the mass of residual perchlorate left after burning, modeling of the vadose zone underlying the burn pit clearly demonstrates that the burn pit cannot be a source of perchlorate contamination in groundwater. Kresic Dec. ¶¶ 24-25, 52. Thus, the scientific evidence conclusively establishes that because all of Goodrich's waste propellant was disposed of by burning, Goodrich's burn pit is not a source of perchlorate contamination in the Rialto/Colton groundwater basin. Oxley Dec. ¶¶ 12-14; Kavanaugh Dec. ¶ 92; Kresic Dec. ¶ 52.

2. Goodrich's Production Process is NOT a Source of Perchlorate Contamination

As indicated above, the testimony of all the former Goodrich employees collectively confirms that all propellant waste (including oxidizer waste) from Goodrich's production processes was sent to the burn pit to be burned. As stated above, the burn pit itself is not a source of contamination. And, as discussed above, there is no evidence that any significant quantities of perchlorate were discharged during the production process itself. Even if minimal amounts of perchlorate were released to the environment (in the form of incidental mop water), the quantity released would not provide a sufficient transport mechanism for that perchlorate to travel through the vadose zone and reach groundwater. Kavanaugh Dec. ¶¶ 34, 95.

The Advocacy Team relies heavily on the use of a "150 Gallon Mixer" by Goodrich as a source of perchlorate contamination. But the available evidence shows that this "larger," 150-gallon mixer was installed during the end of Goodrich's operations and was either never used or only used on one occasion. Sachara Dec. ¶ 5. And the Advocacy Team cites no evidence, because there is not any, that indicates that Goodrich's brief use of that mixer would have resulted in any release of perchlorate. The minimal usage of this mixer and absence of any evidence indicating a release of perchlorate or the application of the large amount of water necessary to transport perchlorate through the

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vadose zone to groundwater, leads to the conclusion that Goodrich's operation in the area of the former 150-gallon mixer has not resulted in contamination of the groundwater. Kavanaugh Dec. ¶ 33.

3. Goodrich's Former Static Test Bay is NOT a Source of Perchlorate Contamination

The evidence establishes that the static test firing bay is not a source of perchlorate contamination. Both the testimony of former Goodrich employees and expert testimony confirm that no scrap propellant remained in either the static test firing bay or the motor casing after a test firing. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Wever Dec. ¶ 52; Staton Dep., 36:5-20, 75:5-16; Garee Dep., 25:4-25, 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:2-13; Haggard Dep., 122:14-123:14; Morris Dep., 44:3-46:7; Merrill Dec. ¶¶ 16, 29; Oxley Dec. ¶¶ 12-14. As indicated above, the burning of rocket propellant is highly efficient (particularly when contained under pressure in a motor casing); thus, perchlorate in any resulting ash from the test firing of rocket motors at Goodrich would be virtually undetectable. Oxley Dec. ¶¶ 12-14. Again, such a minute amount of perchlorate remaining in ash (0.002%) is not a likely source of perchlorate in the Rialto/Colton groundwater basin. Kavanaugh Dec. ¶ 35. Even if minimal amounts of perchlorate were released to the environment in the form of ash, there is no evidence that the substantial amounts of water necessary to transport perchlorate through the vadose zone to groundwater were present at the test bay. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Willis Dec. ¶ 18; Wever Dec. ¶ 52; Staton Dep., 26:1-8. Absent large amounts of water, there is no mechanism for any residual perchlorate to reach the groundwater through the approximately 400 feet of vadose zone. Kavanaugh Dec. ¶ 35.

4. The Salvaging of Sidewinder Motor Casings is NOT a Source of Perchlorate Contamination

The available credible testimony of former Goodrich employees, and the testimony of a propellant manufacturing expert, confirms that no water was used in the Sidewinder salvaging process and that all scrap propellant was disposed of by burning in

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the burn pit. Wever Dec. ¶¶ 45, 47; Haggard Dep., 211:25-213:11; Merrill Dec. ¶ 19. Because no water was used in the removal process, the only transport mechanism for any incidental discharge of perchlorate (if any even occurred) is natural rainfall. Kavanaugh Dec. ¶ 32. This natural infiltration is insufficient to carry any residual perchlorate through the entire vadose zone. Kavanaugh Dec. ¶ 32. Therefore, both the eyewitness testimony and scientific evidence demonstrate that the salvaging process did not result in any perchlorate contamination in the groundwater beneath the Property. Kavanaugh Dec. ¶¶ 32, 94.

5. Goodrich's Former Operations are NOT a Source of TCE Contamination

Goodrich's former operations are not a source for any TCE contamination in the Rialto/Colton groundwater basin. There is absolutely no credible documentary or testimonial evidence that Goodrich used or disposed of TCE at its Rialto facility. Instead, the testimony of former Goodrich employees indicates that Goodrich more likely used acetone, cyclohexanone, and/or MEK for cleaning purposes. Haggard Dep., 54:10-23; Garee Dep., 122:6-123:18; Morris Dep., 39:3-25; Shook Dep., 29:2-19; Holtzclaw Dec. ¶ 9; Willis Dec. ¶ 13; Wever Dec. ¶ 32; see also Sachara Dec. ¶ 10; Beach Dec. ¶ 4; Graham Dec. ¶ 8; Bland Dec. ¶ 9-10. Finally, TCE to reach the groundwater it would require the disposal of an extremely large amount of the pure solvent to overcome the residual capacity of the vadose zone. Kavanaugh Dec. ¶ 39. There is no evidence of such a wide scale disposal of TCE by Goodrich, and in fact, the sampling data refutes it. Kavanaugh Dec. ¶ 38.

Moreover, the evidence establishes that any spent solvent (including rags) was burned in the burn pit. Wever Dec. ¶¶ 53-56. Because the spent solvent was disposed of in this manner, it is likely that it was completely consumed in the fire and not discharged to the environment. See, e.g., Oxley Dec. ¶¶ 13-14. Sampling results from the former burn pit also confirm that the burn pit is not a source of TCE contamination at the property. Kresic Dec. ¶¶ 36-38, 53. Thus, there is no evidence that any solvent was

discharged to the environment as a result of Goodrich's disposal practices, and the scientific evidence demonstrates that Goodrich's operations were not the source of any TCE detected in groundwater under the property.

- C. The Advocacy Team Fails To Provide Any Evidence Establishing That Goodrich Discharged Any Ammonium Perchlorate or TCE to the Groundwater
 - 1. The Advocacy Team Relies Almost Exclusively on the Testimony of Mr. Ronald Polzien

The Advocacy Team relies heavily on the testimony of a single witness, Mr. Ronald Polzien, and simply ignores the extensive testimony of other former Goodrich employees. The Advocacy Team's unwavering reliance on selected testimony of Mr. Polzien is seriously undermined upon a review of his entire deposition transcript (including the cross examination) and the credible testimony of other former Goodrich employees.

Stunningly, the Advocacy Team continues to rely upon Mr. Polzien's testimony even after his extensive contradictions were brought to light during the discovery process. Holub Dep., 290:18-291:3 (Mr. Holub concedes that Mr. Polzien provided contradictory testimony); Sturdivant Dep., 307:16-308:15, 317:16-320:17 (Ms. Sturdivant agrees that Mr. Polzien provided contradictory testimony). Even more alarming is Ms. Sturdivant's admission that the Advocacy Team relies heavily on Mr. Polzien's testimony, despite the fact that *no one at the Regional Board recalls reviewing Mr. Polzien's complete deposition transcript.* Sturdivant Dep., 291:13-16, 667:23-668:7; Holub Dep., 246:22-247:2, 262:4-10, 276:8-278:17. A complete review of the cross examination of Mr. Polzien establishes that he either contradicts or simply retracts his prior testimony on virtually every salient point relied upon by the Advocacy Team and completely undermines Mr. Polzien's credibility as a witness in this proceeding.

For instance, early on in his deposition Mr. Polzien testified, under oath, regarding a conversation he had back in 1962 with Mr. Japs, who at the time was the technical manager at Goodrich and the mayor of Rialto. Mr. Polzien testified that:

Mr. Japs was giving me a ride home . . . and he waved to . . . the new wellheads going in for the water company. . . . [A]t the time I was very concerned about solvents. I don't know that we were particularly happy with the water we were getting anyway, but solvents were on my mind. I had no knowledge of perchlorate and I reminded him in a few words do you realize that [Goodrich's] burn pit is directly in line with those wellheads?

Polzien Dep., 156:1-158:6 (emphasis added). Mr. Polzien stated that in response to his concerns about the drinking water Mr. Polzien received at his house, Mr. Japs simply dismissed him. Polzien Dep., 353:8-18. Then, after being confronted with the fact that he sold his house three years after his conversation with Mr. Japs, but he did not disclose being "very concerned" about Rialto's drinking water to the buyers of his home, Mr. Polzien retracted his sworn testimony and conceded that:

At the time – I think we have gone over this many times that *I was* **not concerned and** *I* **had no evidence**. . . This house was sold in 1965. My objection to Mr. Japs – or my discussion with Mr. Japs occurred in 1962. I hope you take note that – of the time difference and that if *I* **had really been concerned**, *I* **would have notified them**; and I would certainly have moved earlier.

Polzien Dep., 388:17-389:9 (emphasis added). Ms. Helie, the buyer of Mr. Polzien's house in 1965, later confirmed that, despite Mr. Polzien's repeated testimony that he was concerned about the groundwater in 1962, he never disclosed that to her when she purchased his house in 1965. Helie Dep., 78:10-21, 83:9-15, 91:13-21. When asked whether the Advocacy Team should so heavily rely upon the testimony of somebody who either lied to his home buyers, or lied under oath, Ms. Sturdivant answered "I don't know about what he did. . . . I think he was testifying under oath." Sturdivant Dep., 687:2-17.

The Advocacy Team relies heavily upon Mr. Polzien's testimony regarding the production processes utilized by Goodrich, including oxidizer processing, mixing, casting, curing, trimming, lining and finishing processes. Ad. Team P&As, 65-68. Yet, Mr. Polzien admits that he never worked in production at Goodrich and never witnessed the production process while employed at Goodrich:

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- Mr. Polzien never saw the grinding, blending, weighing or drying of oxidizer at Goodrich. Polzien Dep., 587:25-588:20.
- Mr. Polzien never witnessed the mixing of propellant at Goodrich. Polzien Dep., 588:23-589:4.
- Mr. Polzien never saw the loading or curing of rocket motors at Goodrich. Polzien Dep., 589:14-592:15.
- Mr. Polzien never saw the trimming operation at Goodrich. Polzien Dep., 728:25-729:5.
- Mr. Polzien never witnessed the cleaning operations of any of the buildings or equipment used in the production process. Polzien Dep., 693:25-697:11, 456:16-19.

How can the Advocacy Team rely so heavily on the testimony of a former employee who has no firsthand knowledge on the topics for which they cite him? And, how can the Advocacy Team simply ignore the testimony of other former employees who actually worked in the production process and disagree with Mr. Polzien's uninformed testimony? The Advocacy Team never explains why it finds Mr. Polzien credible – never explains why it ignores these other witnesses, such as Mr. Haggard, Mr. Beach, Mr. Willis, and Mr. Wever who actually worked and/or supervised the production and cleaning processes, whose testimony contradicts Mr. Polzien – never explains why it continued to rely on Mr. Polzien even after it became clear at his deposition that he repeatedly gave false statements under oath. The Advocacy Team simply has nothing other than Mr. Polzien's uncorroborated testimony to support its reckless allegations.

The Advocacy Team also relies heavily on Mr. Polzien to provide support for the uncorroborated fact that ammonium perchlorate was used in all of the propellant produced at Goodrich. Ad. Team P&As, 69-75. Yet, Mr. Polzien testified that he did not have comprehensive knowledge regarding the use of ammonium perchlorate at the Goodrich facility:

- Mr. Polzien does not recall ever seeing ammonium perchlorate delivered to the Goodrich facility. Polzien Dep., 621:16-22.
- Mr. Polzien never saw the processing of ammonium perchlorate at Goodrich. Polzien Dep., 587:25-589:4.

Mr. Polzien does not know the specific recipes with respect to any of the propellant produced by Goodrich. Polzien Dep., 686:16-687:1

The Advocacy Team cites Mr. Polzien's testimony to support its assertions regarding Goodrich's use of multiple burn pits at its Rialto facility. Ad. Team P&As, 76-78. However, even Mr. Polzien never testified that Goodrich operated more than one burn pit. In fact, to the contrary, Mr. Polzien testified that *Goodrich only had one burn pit*. Polzien Dep., 289:6-10 ("Q. Was there only one burn pit utilized in the Goodrich facility? . . . A. As far as I know or my experience, there's only one."). At least on this point, Mr. Polzien's testimony is consistent with the testimony of every other former employee who said that Goodrich operated a single burn pit at the Rialto facility. Wever Dec. ¶ 53; Graham Dec. ¶ 5; Willis Dec. ¶ 19; Beach Dec. ¶ 11; Sachara Dec. ¶ 9; Staton Dep., 21:25-22:1, 27:4-14, Garee Dep., 83:2-87:18; Hernandez Dec. ¶ 7; Ustan Dec. ¶ 8. see also Bennett Dec. ¶ 16.

Moreover, although the Advocacy Team relies on Mr. Polzien to describe the operation of the burn pit, Mr. Polzien admitted that he never participated in the loading of Goodrich's burn pit and he only witnessed this process from the control room over 500 feet away. Polzien Dep., 799:18-20, 803:11-23, 823:9-18. If Mr. Polzien never participated in the loading of the burn pit and only witnessed this process from over 500 feet away, how is any of his testimony credible regarding the loading and use of the burn pit?

The Advocacy Team relies exclusively upon Mr. Polzien's testimony that Goodrich left propellant waste in the burn pit overnight. But the Advocacy Team neglects to inform the Hearing Officer that *Mr. Polzien later admitted that propellant waste was never left in the burn pit overnight*. Compare Polzien Dep., 129:15-19 with Polzien Dep., 827:11-829:2. Indeed, numerous other former Goodrich employees, including Mr. Wever, Mr. Staton, Mr. Willis, and Mr. Garee confirm that no propellant waste was ever left in the burn pit overnight or, in fact, for any extended period of time. Wever Dec. ¶

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55; Willis Dec. ¶ 19; Staton Dep., 57:2-58:8, 63:6-16; Garee Dep., 83:2-87:18; Hernandez Dec. ¶ 7; Ustan Dec. ¶ 8.

The Advocacy Team blindly relies upon Mr. Polzien's contradicted testimony regarding Goodrich's burn pit, yet never once cites to the testimony of Mr. Lou Staton, the former *supervisor of Goodrich's burn pit*. If they had, it would be clear that selected portions of Mr. Polzien's testimony regarding Goodrich's burn pit relied upon by the Advocacy Team are simply false.

Predictably, the Advocacy Team also relies exclusively on Mr. Polzien's testimony regarding Goodrich's static test firing bay. Ad. Team P&As, 75. Again, a review of all of Mr. Polzien's deposition demonstrates that his testimony about the test bay was either erroneous or false, and the Advocacy Team's heavy reliance on it as dubious. For instance, Mr. Polzien initially testifies that water hoses were used to rinse out the static test bay. Polzien Dep., 207:7-14. But later on, Mr. Polzien testifies that water was never used in the static test bay and there was no source of water available at the test bay. Polzien Dep., 297:15-16. Again, numerous other former Goodrich employees reliably testify that water was never used at the static test firing bay. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Willis Dec. ¶ 18; Wever Dec. ¶ 52; Staton Dep., 26:1-8.

In addition, the Advocacy Team relies exclusively on Mr. Polzien for the proposition that propellant remained in the static test firing bay after a test firing. Ad. Team P&As, 75. This allegation is contradicted by the testimony of every other former Goodrich employee, who all consistently testify that after a static test firing was completed, the propellant was completely burned and no propellant remained inside the motor casing or on the ground around the static test bay. Sachara Dec. ¶ 8; Graham Dec. ¶ 7; Wever Dec. ¶ 52; Staton Dep., 36:5-20, 75:5-16; Garee Dep., 25:4-25, 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:2-13; Haggard Dep., 122:14-123:14; Morris Dep., 44:3-46:7.

An expert in the industrial practices of solid rocket manufacturing facilities who has "studied one atmosphere pressure (open air) burns for many polybutadiene binder,

ammonium perchlorate solid propellants chemically similar to Goodrich's propellant 1 2 formulation" confirms that: 3 All propellants containing ammonium perchlorate concentration of 68 weight percent or greater burned completely so that no residues 4 remained except for aluminum oxide combustion product for aluminized solid propellant. This would be true for polysulfide 5 binder-ammonium perchlorate propellants as well. In my experience when this type of solid rocket propellant was ignited it did not "self 6 extinguish." Therefore, motors that were test fired in Goodrich's static test firing bay would burn completely and would not 7 contain propellant after they were ignited. Merrill Dec. ¶ 29 (emphasis added). 8 9 Even the Advocacy Team appears to realize the limitations of Mr. Polzien's 10 testimony because it does not rely upon Mr. Polzien's testimony regarding the use of 11 TCE at the Goodrich facility. This is more than likely because Mr. Polzien admits that he does not know whether Goodrich used trichloroethylene or trichloroethane: 12 13 Mr. Dintzer: Do you know whether or not the cleaning solvent that [Goodrich] used in the mixers and the other places 14 where they had this solvent was trichloroethane or trichloroethylene? 15 Mr. Polzien: I don't. 16 17 Mr. Dintzer: Do you know whether the solvent that made part of the 18 slurry was trichloroethylene or trichloroethane? 19 Mr. Polzien: In light of what you just told me and my ignorance between the two, I – I don't know. 20 Polzien Dep., 619:13-620:5. 21 Finally, the Advocacy Team relies heavily upon the testimony of Mr. Polzien 22 regarding the Sidewinder salvage project undertaken by Goodrich. Ad. Team P&As, 78-23 79. Mr. Polzien testified, under oath, that propellant from these Sidewinders was strewn 24 around the walkways and that he raised his concerns over this with Mr. Eugene 25 Sachara, a manager at Goodrich. Polzien Dep., 1044:22-1045:13, 1029:13-1030:10. 26 He testified further that Mr. Sachara wrote a letter to the production manager (Mr. 27 Shields) insisting that the problem be corrected immediately. Polzien Dep., 153:2-28

At no point during my employment at the Rialto facility did Mr. Polzien ever tell me that he was concerned about working around the test-firing area. He also never complained to me about the manner in which propellant was being removed from rocket casings. Despite, Mr. Polzien's assertions to the contrary, I never expressed concerns about the safety of removing propellant from rocket casings to Jack Shields orally or in writing. Furthermore, I never communicated to Jack Shields orally or in writing about the existence of scrap propellant on the ground at the Rialto facility.

Sachara Dec. ¶ 13. Moreover, the testimony of the former Goodrich employees actually involved in this salvaging process confirms that scrap propellant was never left remaining on the ground and that water was not used to assist in the removal of propellant from the motor casings. Haggard Dep., 119:4-8, 119:23-120:5, 211:25-213:11; Wever Dec. ¶¶ 45, 47.

The full record demonstrates that the credibility and reliability of Mr. Polzien's deposition testimony is non-existent, and thus his testimony should not be relied upon in any manner.

2. The Advocacy Team Has Provided Incomplete or Misleading Support for its Position

The Advocacy Team's submission fails to produce any credible evidence in its case against Goodrich. Many of the Advocacy Team's citations are simply incorrect or the cited testimony has little or nothing to do with the stated allegations. Other citations are taken out of context or fail to take into account later, contradictory testimony by the witnesses, and in particular the testimony of Ronald Polzien, who repeatedly is shown to have made false statements under oath. Some seemingly dispositive allegations are simply unsupported by any citation at all.¹ The Advocacy Team's repeated and heavy

¹ The Advocacy Team's ignorance of the Goodrich's actual former operations is perhaps explained by the admission of the principal draftsperson, Mr. Sturdivant, that she did not even read all the available deposition testimony but instead relied upon deposition summaries. *See, e.g.,* Sturdivant Dep., 982:9-986:21. Even more alarming is that these summaries identify contradictory testimony – Mr. Sturdivant has no explanation for ignoring this relevant evidence. Sturdivant Dep., 983:24-990:22; "Q. Well do you think it would have been important to review carefully the testimony of the leadman with respect

reliance upon false allegations, unsupported citations, and an utter lack of regard for the distinction between credible "evidence" and pure conjecture or speculation is disturbing. The Advocacy Team has failed to substantiate the allegations in the Draft Cleanup and Abatement Order concerning Goodrich's alleged conduct at the site. For these reasons, no order should be issued against Goodrich and the case against Goodrich must be dismissed.

- 3. The Advocacy Team's Allegations Regarding Goodrich's Disposal Practices are Based on Pure Speculation - NOT Facts
 - The Facts Establish That Goodrich Had One Burn Pit a. **NOT Two Burn Pits**

The overwhelming weight of the evidence confirms that Goodrich had one burn pit at the Rialto plant. Ignoring this evidence, the Advocacy Team purports that, "Goodrich maintained at least two burns [sic] pits that were utilized to dispose of all production waste." Ad. Team P&As, 76. In support, the Advocacy Team cites to Mr. Polzien and Mr. Wever (Ad. Team P&As, 76), but both Mr. Polzien and Mr. Wever testifies that Goodrich used only one burn pit – not two. Wever Dec. ¶ 53; Polzien Dep., 289:6-10. Moreover, Ms. Sturdivant, a member of the Advocacy Team and primary draftswoman of the charges against Goodrich, conceded during her deposition that testimony cited does not support the assertion that Goodrich used two burn pits. Sturdivant Dep., 328:5-331:19, 692:18-694:16., 986:23-987:9 ("I mentioned the other day where I cited Mr. Polzien and had indicated two burn pits from the citation, and that was incorrect.") Indeed, after being confronted with the contradictory testimony by the only two witnesses that the Advocacy Team cites, Ms. Sturdivant admits that the testimony demonstrates that Goodrich operated only one burn pit, contrary to the

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Summary); Ex. 20251 (Garee Summary); Ex 20394 (Morris Summary).

to the burn pit at the Goodrich facility? A. Yes, yes. Q. to find out what he had to say

I think that is correct... Q. Is there a reason you didn't tell the State Board Hearing Officer that Mr. Staton, the lead man on the burn pit, said that the waste was burned the

day it was put in the pit? A. No, I don't have a reason.); see also, Ex. 20250 (Staton

about the burn pit and its operations? A. Yes. Q. Well, but you didn't do that? A. Not personally, no. Q. You didn't include any of his testimony? [objection omitted] A. Yes, assertion made by the Advocacy Team. Id. 987:19-988:5.

Other former Goodrich employees confirm that Goodrich utilized only one burn pit:

- "Goodrich's Rialto facility had one burn pit. . . ." Staton Dep., 21:25-22:1.
- "Goodrich's Rialto facility had one burn pit that had a fence surrounding the area." Sachara Dec. ¶ 9.
- "Goodrich's Rialto facility had one burn pit that was fenced with a locked gate." Willis Dec. ¶ 19.
- "There was only one burn pit located at the B.F. Goodrich Rialto plant." Graham Dec. ¶ 5.
- To my knowledge, there was only one burn pit at Goodrich in Rialto, California." Hernandez Dec. ¶ 7.
- "Goodrich Rialto facility had one burn pit that was approximately 300 yards from the laboratory." Ustan Dec. ¶ 8.

The testimony further confirms that there was no additional disposal site at Goodrich's Rialto facility. Wever Dec. ¶ 61 ("there was no 'second disposal pit' on the far southeastern portion of the property"); Wever Dec. ¶ 53; Graham Dec. ¶ 9 ("While I was employed at B.F. Goodrich there was only one burn pit at the facility and there was not a pond, landfill or any other disposal area at the facility."); see also Willis Dec. ¶ 21 ("there was not a pond, landfill or any other disposal area at the facility."); Morris Dep., 53:1-16; see also Sachara Dec. ¶ 14 ("There was never a trench located anywhere at the Goodrich plant for the burning or disposal of unused propellant."); Hernandez Dec. ¶ 7; Ustan Dec. ¶ 8. The Advocacy Team simply ignores these overwhelming facts, and alleges with reckless disregard for the truth that Goodrich disposed of waste propellant in multiple burn pits.

b. There is No Evidence that Goodrich Used "Area D1" as a Second Disposal Pit

The Advocacy Team alleges in both the Draft Cleanup and Abatement Order and in its Witness Statements that Goodrich used an area commonly referred to as "Area D-1" as a second disposal pit. Ad. Team Witness Stmt., 5-6; Draft CAO ¶ 33(j). This allegation is completely unsupported by the testimonial and documentary evidence

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before the Hearing Officer. All available testimony of former Goodrich employees confirms that only one burn pit was used at the Goodrich facility and that it was located near the static test firing bay.

Further, the available testimony confirms that Goodrich never used a trench. pond, pool, ditch, landfill or other disposal pit beyond the single burn pit used at the Rialto plant. Wever Dec. ¶ 53; Sachara Dec. ¶ 14; Graham Dec. ¶¶ 9, 12; Willis Dec. ¶ 21; Holtzclaw Dec. ¶ 7; Morris Dep., 53:1-16; see also Bennett Dec. ¶ 16. Every former Goodrich employee adamantly agrees that nothing was buried, dumped or disposed in a trench, pond, pool, ditch or other site. Willis Dec. ¶ 20; Wever Dec. ¶¶ 61, 64-66; Holtzclaw Dec. ¶¶ 10-12; Graham Dec. ¶¶ 9-12; Beach Dec. ¶¶ 8-9; Hernandez Dec. ¶ 7; Bland Dec. ¶ 11; Ustan Dec. ¶ 8.

Nor is there even one historical document evidencing Goodrich's use of a disposal area on the Southeastern portion of the property. While the Advocacy Team claims to cite to photographs in Attachment 31 to its Memorandum of Points and Authorities – these photographs were never produced to Goodrich in violation of the Hearing Officer's Notice of Public Hearing (and all amendments thereto). Further, the Advocacy Team bases its two burn pit theory on their interpretation of the undisclosed photographs, despite the fact that not one member of the Advocacy Team has any formal training in the interpretation of aerial photographs. Holub Dep., 300:20-22; Sturdivant Dep., 492:17-493:2.

Importantly, Mr. Adam Bennett, an expert in the interpretation of aerial photographs, has reviewed the available aerial photographs and it is his opinion that the area described by the Advocacy Team as "Area D1" at Revetment O-1 on the southern portion of the property was not used as a burn pit during Goodrich's operations:

> The tonal signatures observed are distinctly different than that observed in Goodrich's burn pit . . . and [are] similar to that of other shadows portrayed on the photograph. As such, the darkened area within Revetment O-1 [what the Advocacy Team calls area D-1] is due to a shadow from the steep sides of the dug out area and the low sun azimuth at the time the photograph was taken.

Bennett Dec. ¶ 18. The Advocacy Team's allegation that Goodrich utilized a second disposal pit on the southern portion of the property is pure speculation without a shred of support from witness testimony or documentary evidence and based on its own admitted inexpert interpretation of undisclosed aerial photographs. The allegations are not based on any credible evidence.

c. The Advocacy Team's Allegation that Water Was Used in Goodrich's Burn Pit is Based Solely Upon Speculation

The Advocacy Team recklessly alleges, without any citation to evidence, that "water was routed to the [Goodrich] burn pit by way of pipe buried in the ground, with a nozzle in the pit." Ad. Team P&As, 77. Former Goodrich employees unanimously refute this fact. Mr. Staton, **the supervisor of Goodrich's burn pit**, testified that water was never used at the pit, nor was water available for use. Staton Dep., 26:1-8; *see also* Willis Dec. ¶ 19; Wever Dec. ¶ 57 ("to my knowledge, there was no water source, spigot or hose located near the burn pit.")

In a stunning admission, Ms. Sturdivant, the member of the Advocacy Team who drafted the portion of the brief against Goodrich, testified that the inclusion of this allegation was a *mistake*:

Mr. Dintzer: Why didn't you put into the Memorandum of Points and Authorities that Mr. Staton, the lead man on the burn pit, says that no water was put in there?

Ms. Sturdivant: Because I take responsibility for the writing of the leaving the sentence in about the pipeline and that I had intended to take that out, and had written that by recollection and had not cited anything there. And I take responsibility for that error.

Mr. Dintzer: So you you're now saying that there shouldn't be a sentence in the Memorandum of Points and Authorities that water was put into the burn pit, is that your testimony?

Ms. Sturdivant: The statement regarding the pipeline to the burn pit, that's correct.

Mr. Dintzer: That should just be excised from the Memorandum of Points and Authorities and I need not worry about that anymore?

Ms. Sturdivant: Yes.

Sturdivant Dep., 986:4-21. This admission is even more alarming when one looks at the vast number of allegations without any support whatsoever contained in the Advocacy Team's Points and Authorities. If Ms. Sturdivant simply wrote those allegations against Goodrich based on her "recollection," like she did about water use in the burn pit, how is there any assurance that the other allegations are not fabricated?

Moreover, how can Ms. Sturdivant draft allegations against Goodrich based on her "recollection?" Ms. Sturdivant has no personal knowledge regarding Goodrich's operations. Sturdivant Dep., 622:5-8. Indeed, Ms. Sturdivant never worked at the former Goodrich operations and she admittedly does not recall even reading the complete deposition of the Advocacy Team's "star witness" Mr. Polzien. Sturdivant Dep., 291:13-16, 667:23-668:7. Ms. Sturdivant's "recollection," in at least this instance, simply amount to fiction.

d. The Advocacy Team Has No Reliable Evidence To Support its Allegations That Propellant Remained in the Burn Pit After a Burn

The Advocacy Team alleges that a "characteristic" of the Goodrich "burn pits" was that "the bottom [of the burn pit] was typically charred and contained leftover residue from previous burns." Ad. Team P&As 76. The Advocacy Team relies solely on Mr. Polzien's testimony as the basis for this allegation, despite the fact that during the same deposition he later testifies that he *never saw propellant remaining in the burn pit* after a burn and that it was his impression that *all the scrap propellant and oxidizer was consumed by the burn*:

Mr. Dintzer: Did you -- did you ever see any scrap propellant laying around around the burn pit that was not put into the burn pit when you were in charge of that particular operation?

Mr. Polzien: No.

Mr. Dintzer: Okay. And was it your sense that — based on your supervision of this particular disposal activity, that the propellant waste that was generated and put into the burn pit was consumed in the fire?

Mr. Polzien: It was my impression, but I don't know for certain.

Mr. Dintzer: I understand. You didn't do a test on the soil, but my question is is that -- was that your impression?

Mr. Polzien: That was my impression.

Polzien Dep., 826:13-827:2.

Further, every other former Goodrich employee, with firsthand knowledge regarding Goodrich's burn pit, confirms that nothing remained in the burn pit after a burn.

- Mr. Staton, the supervisor of the burn pit, testified that *nothing* remained in the burn pit after a burn. Staton Dep., 98:4-7 (Q. Okay. Do -- was there any smoldering of material in the burn pit after the burn? A. No, sir.") (objection omitted), 25:23-25 ("Q. Did you ever see chunks or pieces of unburnt propellant laying around on the burn pit? A. No, no."), 98:4-7, 98:11-25 ("Q. Any ash? A. Never saw any —") (objections omitted).
- Mr. Garee, who worked in production and later quality control. testified that he viewed the burn pit at least three to four times after a burn and nothing remained in the burn pit. Garee Dep. 190:2-193:8: 270:1 1-11.
- Mr. Wever, who along with Mr. Dennison set the procedures regarding the burn pit, testified that "[a]fter a burn, nothing remained in the burn pit - all material was completely consumed during the burn." Wever Dec. ¶¶ 58-59
- Mr. Graham also testified that "[t]here was no propellant or scrap oxidizer remaining after a burn." Graham Dec. ¶ 6.

Moreover, Mr. Polzien's early testimony on this point is inconsistent with experts who have worked in the manufacturing of solid rocket propellant for over forty years. Dr. Claude Merrill, who has worked with solid rocket propellant with the United States Air Force since 1966, concludes that:

> the burning of propellant and oxidizer waste is a very effective manner to dispose of this material. In my experience all propellant and oxidizer is consumed in the burning of this waste. Based on my review of the testimony and declarations of former Goodrich employees, Goodrich's standard procedures for loading the burn pit, with the scrap propellant stacked on the bottom of the pit, then containerized ammonium perchlorate (or other oxidizer) stacked on top, then any used rags, is a very effective method for disposing of this waste.

Merrill Dec. ¶ 15 (emphasis added).

Moreover, an expert in chemical engineering, Dr. Jimmie Oxley, has conducted

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experimental burns of several varieties of Goodrich's propellant formulations (both inside the laboratory and outside) and concluded that propellant burns extremely efficiently and virtually all perchlorate is consumed during a burn. Indeed, only approximately 0.002% of the perchlorate remains in the ash after a burn. Oxley Dec. ¶¶ 12-14. Again, the Advocacy Team can cite to no reliable evidence to establish that any residue, much less perchlorate residue, remained in the burn pit after a burn. Without any such evidence, and given the substantial percipient and expert testimony to the contrary, this allegation must be disregarded as unsupported.

e. There is No Evidence that Scrap Propellant was Left in the Burn Pit Overnight

The Advocacy Team asserts that another "characteristic" of the "burn pits" was that "[u]nburned scrap and TCE/propellant slurry were at times left overnight in the pit." Ad. Team P&As, 76. The Advocacy Team again relies solely upon the testimony of Mr. Polzien for this allegation. *Id.* Yet, not even Mr. Polzien, the Advocacy Team's star witness, can confirm that waste was left in the burn pit overnight before burning. The Advocacy Team fails to mention that Mr. Polzien, himself, later retracts his prior testimony during cross examination:

Mr. Dintzer: Did you ever see any type of barrels or cartons of materials that were going to be burned left in the burn pit over an evening such that they were there the next day?

Mr. Polzien: I don't recall.

Polzien Dep., 828:16-828:20.

Moreover, every single former Goodrich employee with knowledge regarding the burn pit confirms the fact that waste was never left in the burn pit overnight:

- "I never let [waste] stand. I mean, I -- I burnt it when it was there." Staton Dep., 63:6-16; see Id. 57:2-58:8, 63:6-16, 25:23-25, 98:4-7, 98:11-25 (emphasis added).
- "All material placed in the Goodrich burn pit was burned immediately. The material was never placed in the pit and left for a lengthy period of time or over night." Wever Dec. ¶ 55.

- "Q. Okay. So was the material then put into the burn pit and then burned immediately thereafter? A. Yes." Garee Dep., 83:19-21.
- "I never saw or heard of propellant waste being left in the burn pit overnight or for prolonged periods of time." Hernandez Dec. ¶ 7.
- "I never saw a build up of waste-like material in the burn pit."
 Ustan Dec. ¶ 8.

Given that the only testimony relied upon by the Advocacy Team was retracted, this allegation must too be disregarded as unsupported.

f. The Evidence Cited Does Not Support the Allegation that Goodrich Disposed of TCE in its Burn Pit

The Advocacy Team alleges that TCE and "TCE slurry" was routinely disposed of in Goodrich's burn pit. Ad. Team P&As, 77. However, nowhere in its Memorandum of Points and Authorities does the Advocacy Team cite any credible evidence that Goodrich actually used TCE in its operations. The Advocacy Team purportedly relies upon Mr. Wever's deposition testimony. But, Mr. Wever's testimony does not support this allegation. Mr. Wever testifies that spent *solvent* containing propellant was disposed of in the burn pit, he does not testify that specifically TCE was disposed of in the burn pit. See Ad. Team P&As, Attachment 66 (Wever Dep., 27:21-29:7) ("if we had any cleanup solvents that had propellant, in it, that went on top of that just before we lit it off.").

Importantly, the Advocacy Team fails to disclose the important fact that Mr. Wever timely corrected certain sections (upon careful reflection and as permitted by the Federal Rules of Civil Procedure) cited by the Advocacy Team in his certified transcript, to indicate that he does not recall whether trichloroethylene (TCE) or trichloroethane (TCA) was used at Goodrich, consistent with his later testimony. Ex. 20279 (Wever Corrections); see also Wever Dec. ¶ 32. The testimony of every other former Goodrich employee indicates that the Advocacy Team's allegations of TCE use are unsupported. See Haggard Dep., 54:10-23; Garee Dep., 122:6-123:18; Morris Dep., 39:3-25; Shook

Dep., 29:2-19; Holtzclaw Dec. ¶ 9; Willis Dec. ¶ 13.

Of course, TCE was not the only available solvent during Goodrich's years of operation. Both acetone and cyclohexanone were commonly used solvents and according to Dr. Merrill, "it is reasonable that Goodrich would have used these solvents in the production and research and development of solid rocket propellant." Merrill Dec. ¶ 18.

- 4. The Advocacy Team's Allegations Regarding Goodrich's Static Test Firing Bay Lack Any Foundation in Fact
 - a. No Scrap Propellant Remained in the Static Test Firing Bay After a Test Firing

Citing solely Mr. Polzien, yet again, the Advocacy Team asserts that "propellant from defective rockets and leftover propellant from tested rocket motors" were disposed of in the Goodrich burn pit. Ad. Team P&As, 77. Again, the overwhelming percipient and expert testimony confirms that propellant burned extremely efficiently and that no propellant remained in the static test firing bay or the motor casing after a test firing (even if there was a defect or "misfire"):

- "I have examined [misfired motors], yes. The one or two, I did I think there was two. I did examine them. And I don't recall seeing any any propellant in them. They didn't they didn't explode. What they did was: The burnt out on the head end, and then, of course, that would drop the pressure by half at least, and then they just slowly and consumed themselves. By 'slowly,' I'd say in a matter of seconds." Staton Dep., 75:5-16.
- "After a test firing no propellant or oxidizer remained in the test bay area or in the motor itself." Graham Dec. ¶ 7.
- "When rockets were tested in the static test-firing area, all the propellant burned in the rocket, and there was no propellant that remained in the casing. . . . Even after a rocket malfunctioned, there was no scrap propellant lying on the ground on and around the test-firing area." Sachara Dec. ¶ 8.
- Mr. Garee never saw an instance where a solid rocket motor was ignited and it did not burn all of the propellant in the casing. Garee Dep., 277:17-24; see also Garee Dep., 24:4-25, 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:2-13.

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- Mr. Haggard testified that all of the propellant in the motor casing was consumed after ignition. Haggard Dep., 122:14-123:12.
- "When rockets were tested, all the propellant burned out. There was no unburned scrap propellant on the floor of the test bay or on the ground nearby." Ustan Dec. ¶ 10.
- Dr. Claude Merrill, who has decades of experience in the field of rocket science and has witnessed hundreds of test firings, confirms that "[a]ll propellants containing ammonium perchlorate concentration of 68 weight percent or greater burned completely so that no residues remained. . . . ' Merrill Dec. ¶ 29 (emphasis added).

Mr. Polzien's testimony is the only thing the Advocacy Team cites to support its allegations. And once again, the testimony of witness after witness, both former Goodrich employees and experts, contradicts Mr. Polzien's statements. Ms. Sturdivant's obstinate refusal to recognize that Mr. Polzien's testimony is at best inaccurate, and at worst, an outright falsehood, and her willingness to ignore all of the other witness testimony in the case speaks volumes about her judgment and objectivity. The vast overwhelming weight of the evidence contradicts the Advocacy Team's contention that any propellant remained in the static test firing bay after a test firing; the Advocacy Team's allegation should be disregarded.

b. The Number of Motors Test Fired Each Week Is Far Less Than That Asserted by the Advocacy Team

In yet another unsupported allegation, the Advocacy Team asserts that "[r]ecords and testimony indicate that as many as ten rocket motors were tested on a daily basis at the Goodrich facility." Ad. Team P&As, 75. Yet, Mr. Staton, the former supervisor of the static test firing bay, plainly refutes this assertion. Mr. Staton testified that test firing did not occur every day, but rather, the static test firing bay was used on average, four days a week, with about six firings per day. Staton Dep., 38:20-24; see also Garee Dep., 157:5-23. Even Mr. Polzien, who the Advocacy Team relies so heavily upon, testified that "there were some days when there were absolutely no tests." Polzien Dep., 206:21-25.

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c. There is No Evidence For the Advocacy Team's Assertion That Misfires Occurred on a Daily Basis

The Advocacy Team asserts that "[i]t was not uncommon for at least one rocket motor to misfire or self-extinguish on a weekly basis." Ad. Team P&As, 75. Again, the Advocacy Team provides no evidentiary citation supporting this statement. It is pure fabrication. Not surprisingly, the testimony of former Goodrich employees directly contradict this assertion and indicates that, at most, there were actually very few malfunctions in the static test firing bay. Mr. Staton, the former supervisor of the static test bay at the Goodrich Rialto plant, confirms that *only two or three malfunctions occurred in total*. Staton Dep., 37:14-25, 75:5-16; *see also* Garee Dep., 130:1-20, 276:13-23 (only one malfunction involving a Loki rocket and two malfunctions total). Had the Advocacy Team considered this testimony, perhaps this patently false allegation would not have appeared in the Advocacy Team's brief.

d. The Advocacy Team Provides No Support for the Assertion that Test Motors Were Reused

The Advocacy Team states that "[t]he misfired or self-extinguishing motors were then salvaged, and their propellant was removed and disposed of in Goodrich's burn pit." Ad. Team P&As, 75. In support they cite Mr. Polzien's testimony. *Id.* (Attachment 23, Polzien Dep., 217-218). But, the portion of Mr. Polzien's testimony cited has absolutely nothing to do with the allegation asserted – the cited testimony relates to the Atmos rocket, and has nothing to do with the test firing of test motors. *See* Polzien Dep., 217-218.

Former Goodrich employees with firsthand knowledge regarding the test firing of motors, including Mr. Staton, the supervisor of the static test firing bay, testified that test fired motor casings could not be reused. Staton Dep., 73:20-74:9 ("To my knowledge, there was never any reused. You had stress on the case.") Similarly, Mr. Sachara testified that "[a]fter a rocket was tested, the motor casings could not be reused; they were scrap." Sachara Dec. ¶ 8. Because the Advocacy Team failed to cite to any

evidence supporting this assertion, it cannot be relied upon in any finding against Goodrich.

e. There is No Credible Evidence that Water Was Used in the Static Test Firing Bay

The Advocacy Team alleges that "[o]n some occasions, residue and unburned propellant was rinsed from the concrete test bay onto the bare ground using a water hose." Ad. Team P&As, 75-76. The only basis for this allegation is – once again – the testimony of Mr. Ronald Polzien. *Id.* But, the Advocacy Team fails to tell the Hearing Officer that Mr. Polzien later testifies during direct examination that he has "no recollection of water being used" in the test bay area. Polzien Dep., 297:15-16. Moreover, Mr. Polzien is unable to credibly explain how a hose was used in the static test firing bay because there is no water source at the test bay itself. Polzien Dep., 537:25-540:16 (Mr. Polzien testifies that the closest water spigot was over 500 feet away and he has no recollection of a 500 foot hose). Not surprisingly, Mr. Polzien's testimony about water used to rinse the test bay is contradicted by several other former employees:

- According to Mr. Staton, who was in charge of the static test bay, there was no water source nearby the static test bay and water was not used to clean the area. Staton Dep., 36:15-20.
- Mr. Sachara testified that "[he] never used and [he] never saw another employee use water or a hose to clean the test-firing area." Sachara Dec. ¶ 8.
- "I have no recollection of any water lines, spigot or hose near the static test stand." Wever Dec. ¶ 52.
- "I never saw the test bay cleaned in any manner with water or otherwise and I do not recall there being any water source, hose or spigot located near the test bay." Graham Dec. ¶ 7.
- Garee Dep., 24:4-25; see also Garee Dep., 33:5-20, 47:2-9, 277:6-16, 279:2-17, 285:7-9 ("Q. Did you ever see anyone mop out the test bay? A. No.").

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The Advocacy Team Cannot Cite to Any Evidence That 5. **Goodrich Used TCE**

Without any citation to fact, the Advocacy Team contends throughout its Memorandum of Points and Authorities that Goodrich used and disposed of TCE as part of its operations in Rialto. See, e.g., Ad. Team P&As, 64 ("[a]s part of the development, testing and production of solid rocket propellant and rocket motors. Goodrich used various chemicals at the property, including TCE. . . . "). This blanket assertion regarding TCE use also is unsupported by any citation to evidence. To the contrary, former Goodrich employees do not recall the use of TCE at the plant:

- "I recall that acetone was used at the Rialto facility to clean the carriages where propellant was cured. I do not recall any other solvent being used at the facility. I do not recall ever seeing Trichloroethylene or hearing of any employees using Trichloroethylene at the facility." Holtzclaw Dec. ¶ 9.
- "During the entire length of my employment at Goodrich, I never used and I did not see any other employee use trichloroethylene at Goodrich's Rialto facility." Willis Dec. ¶ 13.
- Mr. Morris never saw or personally used trichloroethylene at the Goodrich facility. Morris Dep., 39:6-11.
- Mr. Shook never saw trichloroethylene at the Goodrich facility. Shook Dep., 29:11-19.
- Mr. Staton testified that he does not recall any disposal of TCE in Goodrich's burn pit. Staton Dep., 80:17-21.
- Mr. Hernandez does not recall trichloroethylene being stored at Goodrich. Hernandez Dec. ¶ 3.

The Advocacy Team simply ignores this extensive testimony of the former Goodrich employees that TCE was not used at the Rialto plant.

While the Advocacy Team purports to rely upon Mr. Wever's testimony with respect to Goodrich's use of TCE, it again fails to consider the corrections made to Mr. Wever's certified transcript. A review of the corrections to Mr. Wever's certified

deposition transcript reveals, consistent with his later testimony at the deposition, that he does not recall whether TCE or TCA was used at Goodrich's facility, and each place the word "TCE" is used, Mr. Wever corrected his response to state "TCE or TCA." Ex. 20279 (Mr. Wever's Corrections). Mr. Wever's testimony simply provides no support for the Advocacy Team's conclusion that Goodrich used TCE at its Rialto facility. Moreover, Mr. Wever confirmed in his declaration under penalty of perjury that he has "no recollection of the specific solvent used" in the cleaning processes at Goodrich. Wever Dec. ¶ 32.

Without any testimonial or documentary evidence, the Advocacy Team cannot support its allegations that Goodrich used and disposed of TCE at its Rialto facility.

- 6. The Advocacy Team Inflates the Size and Extent of Goodrich's Rialto Operations Without Any Factual Support
 - a. Goodrich Operated at Full Production for Less Than Five Years

The Advocacy Team asserts that "from 1957 to 1964, Goodrich manufactured rockets...." Ad. Team P&As, 63. This statement is misleading because it was not until the Fall of 1957 that Goodrich began setting up its operations. Wever Dec. ¶ 8 ("After arriving at the Rialto plant in September 1957, it took several months to get operations underway.... I would estimate that the research and development of propellant did not begin until early 1958."). For most, if not all of the remainder of 1957, Goodrich did not produce any propellant, as the focus was on setting up the operations in Rialto. *Id.* It was not until 1959 that Goodrich obtained a contract to produce the Loki motor. *See* Ex. 22 (KWKA00452123-29) (Nord 18853 Contract for Loki II stating that "THIS CONTRACT is entered into as of 2 April, 1959....") (emphasis added); Ex. 51 (KWKA00452202-03) (May 27, 1959 Nord 18966 Contract for Loki I). Furthermore, full production of propellant at Goodrich ceased upon the discovery of cracks in the propellant grain of the Sidewinder motor in November of 1962 and the only propellant produced was in connection with the re-qualification of the Sidewinder motor. Wever Dec. ¶ 46, Ex. 90 (KWKA00452707); Ex. 13 (KWKA00452702-06); Ex. 12 (KWKA00452713-14). Thus,

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Goodrich only "manufactured rockets" from sometime in 1958 until 1962.

b. The Advocacy Team Exaggerates the Number of Loki I Motors Loaded at Goodrich

Basing its calculations on documents "suggesting" that "at least 330 Loki I rocket motors were manufactured by Goodrich, the Advocacy Team concludes that [i]t is therefore reasonable to conclude that Goodrich utilized at least 4,290 pounds of ammonium perchlorate in the manufacturing of Loki I rocket motors." Ad. Team P&As, 68-69. This is simply a miscalculation and exaggeration that has no evidentiary support.

The Advocacy Team exaggerates the number of Loki I rocket motors manufactured by Goodrich; although the Advocacy Team asserts that Goodrich manufactured "at least" 370 Loki I rocket motors, the only contract for the Loki I required only 270 motors. Ex. 2 (KWKA0045202-03); Ex. 8 (KWKA00452314); Ex. 9. (KWKA00452557-59). At approximately 20 motors per batch, this translates into approximately 14 batches of propellant mixed for the Loki I. Merrill Dec. ¶ 20, Ex. A.

c. The Advocacy Team Also Exaggerates the Number of Loki IIA Motors Loaded by Goodrich

The Advocacy Team relies upon a technical paper dated December 5, 1961, presented by Goodrich staff at a technical conference, when discussing the production of Loki IIA motors at Goodrich. Ad. Team P&As, 69. However, this technical paper has several internal inconsistencies, making it difficult to rely upon any given fact in the document. For instance, the document says that, "[I]ate in 1958, The B.F. Goodrich Company began the manufacturing and development of the LOKI IIA motor. . . ," but then states in "early 1959, production of the LOKI IIA motors was begun for Cooper Development Corporation. . . ." Ad. Team P&As (Attachment 16 RIALTO024653). It is likely that the Advocacy Team is mistakenly relying upon a historical summary of a Cooper Development project and not the actual contracts obtained by Goodrich. This assumption is further supported by the actual government contracts, which indicate that Goodrich began loading the Loki II in 1959. Ex. 22 (KWKA00452123-29); Ex. 51

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(KWKA00452202-03).

As another example of the inconsistencies in the 1961 technical paper relied upon by the Advocacy Team, the document states that "500 [Loki IIA rocket motors] manufactured" by Goodrich, but then states that "the quantity produced now totals about 1,000 units." Ad. Team P&As, 69 (Attachment 16, RIALTO024653-6). Of course, the Advocacy Team relies upon the cite for 1,000 units produced to date, despite the fact that it is unclear whether these motors were produced by Goodrich and the document appears to be referring to Cooper Development. Ad. Team P&As, 69 (Attachment 16) ("In early 1959, production of LOKI IIA motors was begun for *Cooper Development Corporation*, using motors cases of their manufacture. Additional development and loading of these motors has continued since, for the Signal Corps and others, under subcontract to Cooper and its successors, the Marquardt Corporation. The quantity produced now totals about 1,000 units.").

The overwhelming documentary and testimonial evidence supports the fact that far less than 1,000 Loki IIA rockets motors were loaded at Goodrich. But, the available government contracts establish that far less than 1,000 were loaded at Goodrich – the contracts were for a total of only 515 *Loki I and Loki II* motors. Ex. 22 (KWKA00452123-29); Ex. 2 (KWKA00452202-3); Ex. 72 (KWKA00452502-3); Ex. 8 (KWKA00452314); Ex. 9 (KWKA00452557-59); Ex. 6 (KWKA00453329); *see also* Merrill Dec. ¶¶ 20, 25; Haggard Dep., 17:19-18:1 (Mr. Haggard estimates approximately "a couple hundred" Lokis were produced); Willis Dec. ¶ 14 ("[w]hile I was employed at the Rialto facility, it is my belief that Goodrich manufactured less than 200 Loki I and Loki II rockets combined.").

Even Ms. Sturdivant concedes that the document relied upon by the Advocacy
Team does not confirm that Goodrich (as opposed to a different government contractor)
loaded the 1,000 Loki IIA motors:

Mr. Dintzer:

Well, do you know whether or not the -- of the 1,000 units, some subset of that was loaded by Cooper

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Development or the Marquardt Corporation or JPL at locations other than the 160-acre parcel?

Ms. Sturdivant:

I don't know for certain.

Sturdivant Dep., 736:16-737:6.

The simple fact is that Goodrich manufactured the Loki I and IIA motors under government contracts, and the contracts call for production of 515, not 1,000 as asserted by the Advocacy Team. Of course, because the Advocacy Team exaggerates the number of Loki motors loaded, the "calculation" made regarding the amount of ammonium perchlorate needed is correspondingly exaggerated.

d. Just as the Advocacy Team Exaggerates the Number of Loki IIA Motors Loaded, It Exaggerates the Number of Loki IIA Motors Test Fired

Without citing to any evidence, the Advocacy Team states that "[s]ixty-three of the Loki IIA motors were static tested at the Rialto site between 1958 and 1961." Ad. Team P&As, 70. Actually, nowhere near sixty-three Loki IIA motors were static tested at the Rialto facility. Mr. Wever testifies that "one production motor from each batch was static test fired in the test bay." Wever Dec. ¶ 50. Mr. Wever further testified that "approximately twenty-six to twenty-seven production batches of the Goodrich formulation propellant containing ammonium perchlorate produced during the entire time the plant was operating from 1958 to 1963." Wever Dec. ¶ 42. Thus, the testimonial evidence that only approximately 26-27 production batches (included within this estimate is the Loki IIA motor which contained a Goodrich propellant formulation) establishes that far less than 63 Loki II motors were tested at the Goodrich facility.

In addition, "[a]n additional 12 Loki IIA test motors were fired . . . with a single test motor failure in the test bay." Ad. Team P&As, 70.² However, the testimony of Mr. Staton, a former Goodrich employee and former supervisor of the static test bay at the Goodrich Rialto plant, confirms that, at most, only **two or three** failures or malfunctions

² Because no citations are provided to evidence, it is unclear what documents or testimony the Advocacy Team is basing these statements on.

occurred in total and that all propellant was consumed in a failure. Staton Dep., 37:14-25, 75:5-16; see also Garee Dep., 130:1-20, 276:13-23 (only one malfunction involving a Loki rocket and two malfunctions total). There is no available evidence that more than two "malfunctions" occurred in the firing of the Loki motor in Goodrich's static test firing bay.

e. The Cited Evidence Does Not Support The Advocacy Team's Estimate of the Number of Sidewinder Rocket Motors Manufactured at the Rialto Plant

The Advocacy Team asserts that "at least 347 Sidewinder motors were manufactured before Goodrich was forced to abandon the project (see below). Although 500 Sidewinders were ordered for production, at least 347 motors were cast, and as many as 650 motors may have been cast." Ad. Team P&As, 70 (citations omitted). To support these estimations, the Advocacy Team again relies largely on the testimony of Mr. Polzien, while ignoring the testimony of Dwight Wever, the program manager of the Sidewinder project, and the available government contracts stating the number of Sidewinders Goodrich was under contract to produce. Ex. 11 (KWKA00452643-44) (Letter indicating that 311 Sidewinders scheduled to be loaded); Ex. 12 (KWKA00452713-14) (November 21, 1962 letter regarding cracking of Sidewinder propellant in Lot 3); Ex. 13 (KWKA00452702-06) (cancel qualification of Lot 3); Ex. 14 (KWKA00452719-23) (further Sidewinder loading suspended); Ex. 15 (KWKA00452767-78) (contract cancelled); see also Wever Dec. ¶ 45 ("As the program manager for the Sidewinder rocket, I estimate that a little over twenty batches of the Goodrich formula propellant, which contained ammonium perchlorate, was made and loaded into the Sidewinders. For each batch created through the process of mixing up the propellant. approximately twelve sidewinder rocket motors were cast."). This is despite the fact that Mr. Polzien later testifies that he does not know how many Sidewinders were made:

Mr. Dintzer: And so my question to you is, you don't know how many Sidewinders were actually loaded at the Goodrich facility, isn't that true, sir?

Mr. Polzien: Total number?

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Mr. Polzien: No.

Mr. Dintzer: Yes. sir.

Polzien Dep., 1300:19-24. Importantly, Mr. Polzien recognizes that Mr. Wever, the project manager on the Sidewinder, has more credible knowledge regarding the production of the Sidewinder. It is unexplainable that Ms. Sturdivant insists upon citing Mr. Polzien for the number of Sidewinders produced when (1) he concedes that he does not know how many were made and (2) substantial credible evidence belies his earlier testimony.

f. The Advocacy Team Mischaracterizes Goodrich's Production of the Jet Assisted Take Off Rocket (JATO)

Predictably, the Advocacy Team relies exclusively on the testimony of Mr. Polzien for information on the JATO rocket, which allegedly contained "[s]ixty to 90 pounds of solid rocket propellant. . . ." Ad. Team P&As, at 71. But as demonstrated above, Mr. Polzien never observed the loading of a rocket at Rialto, never witnessed any part of the oxidizer processing procedure, never witnessed the mixing process, and has no knowledge regarding the formulations of motors loaded by Goodrich. Polzien Dep., 587:25-588:11 & 592:3-11 & 594:6-11. Despite these facts, the Advocacy Team relies exclusively on Mr. Polzien's non-existent knowledge to support its allegations regarding the JATO motor and the ingredients of the propellant formulation for the JATO motor.

g. The Advocacy Team Mischaracterizes Goodrich's Production of both the ASP 1 and ASP 4 Motors

According to the Advocacy Team, the ASP 1 contained "several hundred pounds of propellant" and the "[p]ropellant used in the ASP 1 was 70% by weight ammonium perchlorate." Again, the Advocacy Team relies on Mr. Polzien, who admittedly has no first hand knowledge of the production of propellant at Goodrich and does not know the formulation of the rockets loaded at Rialto. Polzien Dep., 587:25-588:8 & 592:3-11 and 594:6-11. Mr. Polzien's testimony is contradicted by Mr. Wever who testifies that "the oxidizer used in the propellant for the ASP was ammonium nitrate and not

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ammonium perchlorate." Wever Dec. ¶ 12 (emphasis added).

The Advocacy Team also notes that "one extremely large (2,000 pounds total weight) ASP rocket was tested. . . ." Ad. Team P&As, 72. Although there is no citation to evidence for this proposition, former Goodrich employees contradict this unsupported "fact." One such employee states that "Goodrich manufactured one or two ASP rockets. Each ASP rocket contained **80 to 90 pounds of propellant**." Willis Dec. ¶ 16 (emphasis added). This is significantly different than the unsupported allegation of a 2,000 pound rocket motor.

h. The Cited Evidence Does Not Support the Allegations Regarding Goodrich's Production of Test Motors

The Advocacy Team contends that the "test motors contained approximately 15 to 20 pounds of propellant." Ad. Team P&As, at 73. No citation to evidence is provided. The Advocacy Team also asserts that "10.5 to 14 pounds of ammonium perchlorate were used in each TM-2 and TM-5 motor." *Id.* Similarly, there is no citation to evidence for the purported "fact" that ammonium perchlorate was used in all test motors. According to the head engineer in Research & Development at the Rialto plant, "[ammonium perchlorate] was not the only oxidizer used" at Rialto. Sachara Dec. ¶ 4. Moreover, additional employees who worked exclusively in the laboratory at Goodrich establish that the test motors were actually much smaller. Morris Dep., 42:2-18 ("One of them was probably six inches in diameter, about six to eight inches in diameter... Once would be probably about eight inches long; yeah, eight inches long, maybe up to a foot long... They were small motors, yes.").

7. The Advocacy Team Mischaracterizes the Evidence Concerning Goodrich's Use of Ammonium Perchlorate

The Advocacy Team makes the finding that "ammonium perchlorate was the exclusive oxidizer used for all rocket propellant manufactured by Goodrich at the property, with only minor exceptions." Ad. Team P&As, at 64. This allegation is simply untrue and is made <u>without reference to a single citation to evidence</u>. While some of

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the motors loaded at the Goodrich facility contained ammonium perchlorate — ammonium perchlorate was not the only oxidizer utilized by Goodrich. According to Mr. Wever, the oxidizer used in both the RTV and ASP was ammonium nitrate — not ammonium perchlorate. Wever Dec. ¶ 11-12; see also Sachara Dec., at ¶ 4 ("[ammonium perchlorate] was not the only oxidizer used."). It is unclear why these witnesses, who have testified to such facts during their respective depositions, are ignored by the Advocacy Team.

The Advocacy Team further alleges that "Goodrich's research and development facility mixed its own rocket propellant on the Property for test purposes. This test propellant likely contained perchlorate . . ." Ad. Team P&As, 67. To support this assertion, the Advocacy Team relies on the testimony of Mr. Wever, but as stated above, Mr. Wever specifically testified that not all propellant, including propellant used for research and development purposes, contained ammonium perchlorate. Wever Dec. 44. Further troubling is the fact that the testimony cited to by the Advocacy Team does not discuss Goodrich's research and development processes, nor does it discuss mixing of propellant for test purposes. See Ad. Team P&As, 67 (Attachment B, Wever Dep., 57:22-58:15). The Advocacy Team's unsubstantiated statement again should be disregarded.

- 8. The Advocacy Team's Unsupported "Story" Regarding Goodrich's Production Process is Materially Misleading
 - a. The Advocacy Team Recklessly Coins the Term "Water-Perchlorate Slurry"

The Advocacy Team purports that as a result of the cleanup associated with the "grinding" process, "[t]he water-perchlorate slurry was then poured directly onto the ground outside the grinding room." Ad. Team P&As, at 65. No citation to any documentary or testimonial evidence is cited for this statement. Moreover, the characterization of a "water-perchlorate slurry" is highly misleading. As testified by Mr. Wever, the grinding operation was conducted in a highly controlled environment to minimize any fugitive emissions:

A smaller part of the oxidizer, approximately 25%, was ground to produce a smaller particle size to get a specific burn rate. To grind this small portion of the oxidizer, Goodrich utilized a laboratory-sized hammermill. . . . During the grinding, a screen in the grinder prevented particles that were too large from passing into a large metal collection drum, which was equipped with a dust bag.

The entire grinding process was done in the large room in the oxidizer processing building. There was no ventilation in this building, and the door was always kept closed.

Wever Dec. ¶ 22-23. Moreover, Mr. Wever testified that virtually all of the small mount of fugitive material was swept into a dustpan and placed into a combustible container for later transport to Goodrich's burn pit. Wever Dec. ¶ 25-26. There is no evidence that anything but a de minimis amount of perchlorate was disposed of directly onto the bare ground.

b. The Advocacy Team's Characterization of the Mixing Process is Not Supported by the Evidence

The Advocacy Team asserts that "[t]wo 100-gallon mixers and a third 150-gallon mixer were used for preparing propellant containing ammonium perchlorate." Ad. Team P&As, at 66. The testimony of Mr. Wever is used to support this fact. However, the Advocacy Team omits subsequent testimony of Mr. Wever, in which he corrects his earlier testimony:

My testimony before has been that the two mixer sizes have been—what were they? 100- and 150-gallon mixers for production. [¶] This Exhibit 92 has corrected my memory, if you will. *The two mixers in production was a hundred and a 25. A 100-gallon mixer and a 25-gallon mixer.* [¶] The reason for the confusion is that since leaving B.F. Goodrich, I worked for TRW for a number of years, still in the propellant industry, if you will, and those — the motors that we were concerned about during that time were much larger motors than they used the 250-gallon type mixers, so that I wanted to clarify that before we got going.

Wever Dep., 273:12-24 (emphasis added). *See also* Wever Dec. ¶ 28 ("There were two production mixers at the Goodrich plant: a 25-gallon mixer and a 100-gallon mixer."); Sachara Dec. ¶ 5 ("Goodrich's Rialto facility had two production mixers, a 25-gallon mixer and 100-gallon mixer, to produce solid rocket fuel."). Although Goodrich installed a third mixer, which was larger in size, shortly before closing the Rialto plant, that mixer

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was only used on one occasion. Sachara Dec. ¶ 5 ("Shortly before closing the plant, Goodrich installed a larger mixer, but it was used on only one occasion.").

Again, citing Mr. Polzien, the Advocacy Team asserts that "[t]he mixing equipment at Goodrich, including the transfer pot, was cleaned after each use, sometimes several times a day." Ad. Team P&As, at 66. Notably, the cited testimony reveals that Mr. Polzien's purported knowledge is entirely made-up and that in fact Mr. Polzien has no personal knowledge regarding the mixing process. Polzien Dep., 272:9-11. The credible testimony of former Goodrich employees who actually participated in the mixing of propellant contradict Mr. Polzien's false statement. Mr. Wever estimates that, in 1959, "on average propellant was mixed for production purposes approximately once a weekl.1" Wever Dec. ¶ 30 (emphasis added). Moreover, former Goodrich production employees testified that there were periods of time when no production propellant was mixed at all. See Haggard Dep., 151:5-20; see also Haggard Dep., 156:17-157:23 ("During the period of time that you were on the day shift, do you recall a shutdown of production operations in order to perform maintenance at the facility? A. Yes. I don't remember the dates."); see also Haggard Dep., at 199:2-22; Beach Dec., at ¶ 6 ("When I worked in the production department, I recall that there were instances in which rocket motors were not being produced at the Goodrich facility."). Thus, it is clear that mixing could not have occurred every day.

The Advocacy Team further asserts that "[t]he mixing room floor was swept and mopped, if necessary," but the evidence reflects that mopping was not a routine event. Wever Dec. ¶ 32. Rather, mopping "would have been unnecessary due to the design of the tooling used with the mixer, which prevented any spills." *Id.* at ¶ 32. Further, the transfer process following the mixing of propellant did not result in any spills: "[t]o my knowledge, no fugitive emissions of any kind occurred during this transport." *Id.* at ¶ 34; see also Willis Dec. ¶ 8 ("I never saw a transfer vessel leak propellant onto the ground, and I never saw a vessel fall over.").

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The Advocacy Team's Characterization of the Trimming **Process Is Not Consistent with the Evidence**

The Advocacy Team asserts that rocket motors were trimmed "meaning excess" propellant would be cut away with an Exacto knife. The trimmings were placed in a bucket containing water, and taken to Goodrich's burn pit for disposal." Ad. Team P&As. at 68 (citations omitted). To support its statement that "trimmings were placed in a bucket containing water," the Advocacy Team directs the Hearing Officer to Mr. Polzien's testimony on pages 273-275. The Advocacy Team disregards the testimony of former Goodrich employees who actually participated in the trimming process in favor of Mr. Polzien's testimony, despite the fact that Mr. Polzien admits that he never witnessed the "trimming" operation," so he would be unable to provide truthful testimony as to the trimming process. Polzien Dep., 728:25-729:5 (Q. [d]id you ever actually see a Sidewinder trimmed and then look down and see actually how much trimming was done after it was completed? A. **No. because I never witnessed a trimming operation.**") (emphasis added); see also Polzien Dep., at 289:15-290:5. More importantly, Mr. Wever, who did witness the "trimming" operation, testified that the "trimming" process generated very little waste.

> As the project manager on the Sidewinder motor, I witnesses the trimming of motors, including the Sidewinder, on a number of occasions. After the curing process, a very small amount of propellant was trimmed. Because the tooling was designed to minimize the amount of hand trimming, very little trimming was necessary, I am confidant that it was less than 1/10% of the total material loaded into the motor. I recall that typically there was no trimming needed with respect to Sidewinder motors, but there may have been some "flashing" removed from some Sidewinders, which were really thin pieces that were extruded up between two pieces of tooling. Any particular scrap propellant from the trimming process was approximately a thousandth of an inch thick and maybe an eighth or a quarter of an inch wide. All trimming waste was placed in a combustible container and later transported to the burn pit for burning.

Wever Dec. ¶ 40; see also Beach Dec., at ¶ 5 ("There was not much trimming that needed to be done, however. At most, I trimmed an eighth of an inch thick and a half an inch wide of material from each nozzle. The trimmed propellant was placed in an

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explosion-proof container that was sent to the burn pit."); Bland Dec. ¶ 8 ("It is my best estimate that less than half a pound of cured propellant was trimmed from each Loki Motor."); Ustan Dec. ¶ 12. Besides the fact that very little trimming was necessary, the employees were very careful during the trimming process. Willis Dec. ¶ 10 ("I never saw anyone throw trimmed material to the ground, and I never saw trimmed material lying on the ground anywhere inside the building.").

The Evidence Does Not Support the Allegation that the Sidewinder Salvage Project Resulted in Discharges of **Propellant**

The Advocacy Team alleges that "[t]he Sidewinder rocket motors that developed cracks in their propellant grain were salvaged by removing the propellant with highpressure water and solvent, so that the casing could be reused." Ad. Team P&As, at 78. Notably no citation is provided for this "fact." Testimony from former employees who actually conducted the salvage project establishes that high powered water was not used in connection with this project. See Garee Dep., 73:9-21; Haggard Dep., 113:2-121:25, 210:5-213:22; see also Wever Dec. ¶ 47 ("[n]o water was used to remove propellant for the casing or in any other way during the auguring process.").

According to the Advocacy Team, "[s]ome of the residual propellant washed out on the concrete walkway and onto the bare ground at the Property." The Advocacy Team cites several different former Goodrich employees for this allegation. But all but one of the employees whose testimony was cited by the Advocacy Team, testified that scrap propellant was *never* left laying strewn across the bare ground during the salvaging process. Haggard Dep., 119:4-13; see also Haggard Dep., 116:8-15 (emphasis added); Garee Dep., 73:2-75:21; Wever Dec. ¶ 47 ("I did not observe any of the propellant removed from the casings or solvent used spilled on the ground.").

The only witness who testified to this "allegation," of course, is Mr. Polzien. According to Mr. Polzien, he was "so concerned" about propellant being "washed away" during the propellant removal that he went to Mr. Sachara to discuss the issue. Polzien Dep., 153:21-154:2.³ According to Mr. Polzien, after learning of Mr. Polzien's "concern," Mr. Sachara wrote a letter to the production manager insisting that "it be cleaned immediately because there was a safety hazard, words to that effect." Polzien Dep., 154:3-15. Mr. Sachara flatly refutes Mr. Polzien's testimony:

At no point during my employment at the Rialto facility did Mr. Polzien ever tell me that he was concerned about working around the test-firing area. He also never complained to me about the manner in which propellant was being removed from rocket casings. Despite Mr. Polzien's assertions to the contrary, I never expressed concerns about the safety of removing propellant from rocket casings to Jack Shields orally or in writing. Furthermore, I never communicated to Jack Shields orally or in writing about the existence of scrap propellant on the ground at the Rialto facility.

Sachara Dec., ¶ 13 (emphasis added). Once again, the overwhelming weight of the testimony demonstrates that Mr. Polzien's recollection of events is either faulty or fabricated, and cannot be relied upon by the Advocacy Team.

The Advocacy Team contends that "[e]stimates from former Goodrich employees regarding the number of Sidewinders that were salvaged range from 24 to 100 rocket motors. The balance of the testimony indicates that the actual number of Sidewinder rocket motors salvaged is in the range of 24 to 36." Ad. Team P&As, at 78. In the cited testimony to Mr. Polzien's deposition, Mr. Polzien speculates that "it had to be at least one batch of 25; and I would think from what I saw there was two batches." Polzien Dep., at 147:5-6; see also Polzien Dep., 1049:6-22. Then, Mr. Polzien testified that approximately 100 defective Sidewinders were subject to the salvage process. Polzien Dep., at 199:6-201:11. Mr. Polzien's "guess" regarding the number of Sidewinders involved in the salvage process is clearly contradicted by other statements he made with respect to this issue. Polzien Dep., 1158:18-1160:7 ("I was guessing about a hundred..."), see also Id. 1049:1-24; 1161:6-17. Polzien Dep., 1049:1-24; 1158:18-

³ Of course, we have learned that Mr. Polzien's testimony about his "concerns" is as reliable as Ms. Sturdivant's personal, first hand accounts of the Goodrich operations in Rialto. *Compare* Polzien Dep., 156:1-158:15, 388:11-389:9 *with* Sturdivant Dep., 985:10-986:21.

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11607; 1161:6-17. Moreover, the testimony of other former Goodrich employees confirms that only approximately 20-30 Sidewinders were involved in this salvage project: "I estimate that there were twenty to thirty Sidewinder rocket motors with cracked propellant." Wever Dec. ¶ 47; Garee Dep., 74:20-25 (one batch of Sidewinders was involved). Once again, the Advocacy Team blindly relies upon Mr. Polzien and disregards the credible testimony of former Goodrich employees who actually participated in or supervised the operation.

IV. PYROTRONICS CORPORATION

A. Overview of Pyrotronics' Operations

Pyrotronics Corporation ("Pyrotronics")⁴ and/or its predecessors operated a major fireworks manufacturing, storage, disposal, and distribution facility at the 160-acre parcel for at least 20 years from 1968 until 1988. During that time, Pyrotronics spilled and released huge quantities of perchlorate and perchlorate laced water directly onto the ground in multiple locations, including disposal pits, burn pits, a "swimming pool" (i.e., the "McLaughlin Pit") that overflowed and leaked, and many other releases.

In or around 1968, Clipper Fireworks Company,⁵ which had already been operating in Rialto, apparently at 5200 N. Locust Avenue, became Pyrotronics Corporation through a name change. Hescox Dep., 28:16-24; 65:18-22. Pyrotronics operated the Red Devil Fireworks ("Red Devil") and Apollo Manufacturing Company ("Apollo") divisions, with Apollo manufacturing fireworks⁶ that were distributed by Red Devil (the references to "Pyrotronics" herein will include Apollo and Red Devil). Hescox Dep., 57:16-58:13; Apel Dep., 81:21-24; Moriarty Dep., 306:12-25; 307:15-25; 309:10-15; Ex. 10002; Ex. 10004.

⁴ Pyrotronics is a completely separate and distinct company from the respondent in these proceedings called Pyro Spectaculars.

⁵ Patrick Moriarty and others bought Clipper Fireworks Company in 1958. Moriarty Dep., 23:13-25; Ex. 11175 (Clipper Articles of Incorporation).

⁶ United Fireworks Manufacturing Company, Inc. also manufactured fireworks in Rialto as part of the Pyrotronics family of companies. Moriarty Dep., 294:20-295:22; 297:11-25; 298:13-23.

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A predecessor to Pyrotronics, Atlas Fireworks Company, Inc. ("Atlas") manufactured aerial displays and other fireworks⁷ in the early 1960s at a location off Stonehurst Avenue in Rialto, just south of the 160-acre parcel. Moriarty Dep., 27:23-28:14; Pierzina Dep., 27:9-13. Atlas' manufacturing took place in between the "A" and "B" rows of old military bunkers located on the property. Hescox Dep., 63:12-20; 63:24-25; 64:22-25; 65:1-15; 292:19-293:25; 533:12–534:21. Atlas was eventually purchased by Pyrotronics, likely in 1965 or 1966, and its manufacturing operations were moved up to the 160-acre parcel. Hescox Dep., 167:10-21; 292:7-25; 339:11-25; Bybee Dep., 36:12-17; 37:8-19; 72:13-73:6. In 1968, after it had been acquired by Pyrotronics, Atlas' name was changed to California Fireworks Display Company. Hescox Dep., 459:15-460:1; Bybee Dep., 81:8-18; Moriarty Dep., 44:21-45:7. California Fireworks Display Company operated as a division of Pyrotronics until 1979, and is discussed below.

By 1968, Pyrotronics' employed approximately 80-100 individuals at its Rialto facility. Hescox Dep., 68:6-8; 70:3-8; 332:7-10. The number of employees remained constant until at least 1981, when the pace of production slowed; yet by 1986 roughly 80-100 employees were still needed during peak season but not year round. Hescox Dep., 70:10-21; see also Hescox Dep., 99:7-25; Ex. 10460 (80 employees operating three to four months a year by 1984).

Pyrotronics acquired the 160-acre parcel from Century Investment Company (a Moriarty-controlled entity) on May 1, 1968⁹, (Hescox Dep., 47:3-8; Ex. 10759), and owned the property during the course of its Rialto operations, which lasted until September 1988, when, following Pyrotronics' bankruptcy filing in 1986, its fireworks

⁷ Atlas also manufactured "seal control" devices, which included potassium perchlorate. Bybee Dep., 38:10-39:19.

⁸ Atlas' operations entailed the purchase and storage of raw materials, including potassium perchlorate, and its facility included mixing and pressing rooms where potassium perchlorate was handled. Bybee Dep., 46:18-20; 50:4-24; 51:8-19; 55:22-56:2; 59:11-60:-6; Moriarty Dep., 44:3-12. Atlas also tested consumer and display fireworks at its original facility. Bybee Dep., 63:3-22.

⁹ Century Investment Company had acquired the property from B.F. Goodrich on May 25, 1966. Hescox Dep., 39:15-24; Ex. 10758.

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division was sold to RDF Holding Company. See infra Section VI. In May 1987, two parcels on the southern portion of the 160-acre parcel were sold by Pyrotronics to Ken Thompson for use as a concrete pipe manufacturing business. Ex. 11116. The northern portion of the 160-acre parcel was sold to RDF Holding Company/Wong Chung Ming on December 7, 1988. Ex. 10163. Wong Chung Ming continues to own the northern portion of the former 160-acre parcel today.

B. Pyrotronics' Fireworks Manufacturing

Pyrotronics initially manufactured both consumer and display fireworks¹¹ on the 160-acre parcel. *See, e.g.,* Hescox Dep., 36:20–37:2; 542:3–544:13; Exs. 10010, 10028-29, 10034, 10048. It is unclear if Pyrotronics continued to manufacture display fireworks after the sale of its display fireworks division, California Fireworks Display Company, in 1979. Regardless, Pyrotronics manufactured fireworks for almost twenty years on the 160-acre parcel, until the mid-1980s when it ceased manufacturing and became an importer and distributor of foreign-manufactured consumer fireworks. Hescox Dep., 548:4-549:11 (Pyrotronics decided to begin to limit production in 1981 but continued manufacturing certain consumer fireworks even after it declared bankruptcy in 1986); Exs. 10069, 10377.

1. Pyrotronics Purchased, Stored and Handled Substantial Quantities of Raw Perchlorate

Pyrotronics routinely purchased, stored and handled raw chemicals, including perchlorate, ¹² at the Rialto facility. *See, e.g.,* Apel Dep., 64:19-21; 126:17-20; Hescox

¹⁰ Through a series of transactions the fireworks division of Pyrotronics, including its goodwill and the trade name Red Devil, were ultimately acquired by American Promotional Events, Inc.–West ("APE"). APE continues to operate a fireworks importation, storage, testing and distribution facility on the Property today, and is discussed below.

Potassium perchlorate-containing "seal control" devices were also made on the property by or for Atlas Fireworks. Hescox Dep., 149:2-150:10; 151:3-19; 269:14-24, 529:25-530:23.

¹² Pyrotronics also used solvents in the regular course of business to clean parts in the machine shop on site. Apel Dep., 275:4-276:10; Shilling Dep., 59:13-60:8.

Dep., 156:25-157:5, 241:20-24; Cartagena Dep., 560:25-561:25, 563:2-564:1; Ex. 11133 (Autote's handwritten notes to himself in the mid-1970s reminding him to "pick up perchlorate at Apollo"); Bybee Dep., 103:5-20 (Pyrotronics generally received potassium perchlorate in 500 pound barrels, but sometimes it was delivered in 150-200 pound barrels); Bybee Dep., 111:13-16; 296:4-22; Moriarty Dep., 102:3-23; 116:17-117:8 (potassium perchlorate received in 300 pound cardboard drums); Exs. 10434, 10102, 20390.

Perchlorate was used as a key ingredient of the fireworks manufactured by

Pyrotronics on the 160-acre parcel from the beginning, as reflected in an October 23,

1968 letter from Richard Doerr of Pyrotronics to Lorne Eastwood of the City of Rialto Fire

Department, which notes that potassium perchlorate was stored in a number of buildings

at the facility, and also identifies certain buildings containing presses used to

manufacture fireworks and other buildings used for machining and maintenance. Ex.

10014. A letter written by Mr. Doerr about ten years later confirms that potassium

perchlorate (and other chemicals) were still being stored on-site, and describes other

buildings used for the storage and/or manufacture of fireworks by Pyrotronics. Ex.

10053. The record is replete with further evidence of Pyrotronics' use and storage of

perchlorate throughout its operations. See, e.g., Moriarty Dep., 146:5-14; Ex. 10096;

Apel Dep., 82:1-7; Hescox Dep., 262:24–264:12, 308:10-22; Mergil Dep., 152:21
153:10; Ex. 10102 (reviewing August 1986 inventory for Apollo indicating 300 pounds of

perchlorate on hand on that date in Building 20 alone).

Furthermore, both documents and witness testimony confirm that the volume of perchlorate used by Pyrotronics was substantial. Indeed, a large percentage of both the consumer and display fireworks made by Pyrotronics used either potassium perchlorate or ammonium perchlorate as the primary oxidizer ingredient, with potassium perchlorate more commonly used than ammonium perchlorate. See Ex. 10064; Apel Dep., 88:7-7;

¹³ A building permit was issued on September 30, 1969 for the construction of a fireworks storage facility at 3196 North Locust Avenue. Ex. 110020.

, PHELPS & 257:20-258:2; Apel Dep., 257:12-25 (potassium perchlorate used in "green comp" and is the oxidizer); Hescox Dep., 241:20-242:13; 544:24-545:13; Moriarty Dep., 105:18-21 ("Base items and California Candles" contained potassium perchlorate); Moriarty Dep., 135:21-25 ("gerbs" used potassium perchlorate); Exs. 10062-63 ("Red Fire" contains perchlorate); Cartagena Dep., 158:5-15; Moriarty Dep., 142:22-143:21 (testifying to his "personal knowledge that [Pyrotronics] used ammonium perchlorate."); Moriarty Dep., 156:25-157:10 (ammonium perchlorate usage would not be unusual for Atlas or Pyrotronics). Standard fireworks' compositions included oxidizers, such as perchlorate, and oxidizers often comprised approximately fifty percent of the fireworks composition by weight. See, e.g., Ex. 10100 (Describing the content of the "Silver Sunrise" firework and indicating that it contains 58.53% potassium perchlorate); Ex. 11134.

According to receipts and deposition testimony, Apollo Manufacturing Company received *21,000 pounds* of potassium perchlorate on September 21, 1979 in one shipment. Ex. 10434 (Apollo Manufacturing Shipping Report indicating receipt from Kerr-McGee of some "70 drums at 300 #" net weight of potassium perchlorate); Ex. 11237 (October 11, 1978 Order received by Kerr-McGee Corporation to ship 21,000 pounds of potassium perchlorate to consignee, Service Chemical, Inc.); Mergil Dep., 29:17-30:18. Patrick Moriarty, the owner of Pyrotronics, testified that he preferred to buy one month's worth of raw chemicals at a time and that it would not have been unusual to receive a 21,000 pound shipment of perchlorate). Moriarty Dep., 115:17-116:16.

Another document reflects the purchase of 8,000 pounds of potassium perchlorate from "JCI" on August 27, 1980. Ex. 20390. Even as late as 1985, when Pyrotronics' manufacturing operations had scaled down, the company reported to the City of Rialto Fire Department that it was handling some **25,000 pounds** of potassium perchlorate *per month*. Apel Dep., 96:4-24; Ex. 10458; Hescox Dep., 145:19-25, 146:1-19 (Handling of 25,000 pounds of perchlorate on site not inconsistent with his knowledge of the facility); Apel Dep., 95:8-21. Given the production schedules of Pyrotronics, it is likely that it used significantly more than 21,000 pounds of perchlorate (even per month)

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manufacturing operations, it is likely that Pyrotronics used at least 420,000 pounds (or some 200 tons) of potassium perchlorate and some lesser amount of ammonium perchlorate to manufacture fireworks in Rialto. If the usage rate corresponded to Mr. Apel's 25,000 pounds per month estimate given in 1985, then the total would be dramatically higher at some 6 million pounds (or some 3,000 tons) of perchlorate. And, notably, it appears that Pyrotronics may have significantly under-reported

in years prior to 1979. Thus, in the roughly twenty-year span of Pyrotronics' Rialto

the amount of perchlorate and other hazardous materials handled and stored at its Rialto facility over the years. In 1987, Ms. Cartagena, who was then a manager at Pyrotronics, was ordered by the general manager, Mr. Apel, not to identify potassium perchlorate and other chemicals on a Hazardous Materials Business Plan she was preparing. When Ms. Cartagena refused to sign the Business Plan because it had underreported the amounts of those chemicals, Mr. Apel simply signed the form himself with full knowledge of the omission. Cartagena Dep., 308:21-309:16, 310:1-7, 311:18-314:2. Trying to explain why Mr. Apel ordered this omission, Ms. Cartagena testified that: "[a] lot of people were secretive about the business"; "[a]ll fireworks compan[ies] are secretive, I have found . . there are so many government regulations, that if they 100 percent comply, they would be out of business." Cartagena Dep., 313:18-314:2; 314:16-25.

2. Pyrotronics' Use and Clean-up of the Press Rooms

As part of the fireworks manufacturing process, Pyrotronics utilized large hydraulic presses with rods designed to insert chemicals including perchlorate and other material into the fireworks tubes. Hescox Dep., 116:11-117:9; Exs. 10015, 10014, 10017; 10084 (1984 map showing the location of powder mixing area and presses), 10802, 20175, 20176. At various times these presses were located in Buildings 2, 3, 4, 19, 44, 49 and 50 (the presses were numbered to correspond to the building they were housed in). Mr. Hescox testified that there were two presses on the facility when he began working in Rialto in 1968, and five presses by 1981. Hescox Dep., 185:12-25; 392:19-24 and Ex. 10809; Hescox Dep., 310:23-311:24, 312:20-24; see also Cartagena

Dep., 433:1-15; 433:22-25; 559:2-25; Shilling Dep., 335:12-336:25 (Ms. Shilling, who worked for Pyrotronics from 1979 through 1989, testified that early in her tenure presses were running and that she hired people to press fireworks with machinery).

Mixed powders, including perchlorate, were transported from raw chemical storage areas to the press rooms in plastic containers; after pressing was completed boxes of partially finished fireworks were moved to another portion of the facility for labeling, fuse attachment, and, if necessary, a base. Hescox Dep., 282:25-283:11; 285:16-25. It is clear that potassium perchlorate (among other chemicals) was used in the presses when making fireworks. Exs. 10058-61, 10066; 11235; Moriarty Dep., 106:5-107:9 (press in Building 19 used for potassium perchlorate-containing "base items" and "California Candles"; press in Building 44 used for potassium perchlorate-containing "waterfalls" and "cones"); Moriarty Dep., 136:12-137:11 (Press 49 used to make potassium perchlorate containing "Silver Screamer").

During Mr. Apel's tenure, six to eight employees were engaged in pressing operations during peak times. Apel Dep., 373:24-374:6. Press room employees wore masks to prevent them from breathing accumulated pyrotechnic powder, goggles to keep dust out of their eyes, and other protective gear, and also kept the doors to the press room open to allow for quick escape in the event of a fire. Apel Dep., 120:2-20; Hescox Dep., 120:3-15; Shilling Dep., 66:14-22, 70:9-12; Moriarty Dep., 128:3-13; Ex. 10802. The press rooms were "rather dusty", (Hescox Dep., 300:7-11), and at the end of the work day the coveralls or smocks worn by the employees would be covered with powder. Shilling Dep., 190:5-193:10.¹⁴

Written "Operating Instructions" for the "Press Room" specified that press rooms were to be cleaned every two hours "using dry brush method, and thoroughly washed down with water at the end of each work shift." Ex. 10633; Mergil Dep., 83:10-25

¹⁴ According to Mr. Moriarty, Pyrotronics maintained washers and dryers on site to clean the employees' work clothing at the end of the day. The waste water from the washers and dryers was discharged to a sewer or septic system. Moriarty Dep., 126:3-127:6.

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(testifying that press rooms were swept up every couple of hours pursuant to written instructions). Spilled pyrotechnic composition, which included perchlorate, and brush and broom sweepings collected from the press rooms were placed into plastic containers, and, after a sufficient amount had accumulated (50–100 pounds), taken to their burn pit during the early years of operation. Hescox Dep., 113:17-114:3; Moriarty Dep., 124:6-21. After air quality regulators limited Pyrotronics' ability to burn this material, it was taken to the McLaughlin Pit, discussed below, for disposal. Hescox Dep., 114:4-115:15; Mergil Dep., 82:1-14. However, even after the McLaughlin Pit was in use, discussed below, waste fireworks were still burned in various locations on the property. Ex. 10033, 10044, 10046, 10051, 10065, 10077, 10080.

The press rooms were also hosed down with water, generally once a day at the end of the work shift, in order to wash up the waste pyrotechnic material that remained after pressing operations. Hescox Dep., 115:17-116:5; Apel Dep., 117:8-10. Mr. Hescox testified that the water would travel "onto the cement floor and out the door and into the sump at the end of each - at each door, there was a channel where water would run into the sump. And all the chemicals would settle in the bottom of it [the sump], and the water would flow out into the ground." Hescox Dep., 117:11-16. Mr. Mergil similarly testified that the press room was hosed down with water at the end of each shift, and the water traveled into an unlined concrete sump (with no bottom) where the powder accumulated at the bottom. Mergil Dep., 84:12-85:7, 85:19-21.15 Others have confirmed the presence of "sumps" or "troughs" located outside each of the press rooms, (Apel Dep., 118:7-9; Moriarty Dep., 125:3-13; Mergil Dep., 97:11-25), and this testimony is consistent with the written instructions that required employees to "wash down the interior of the press building insuring that all residue flows into the sump basin." Ex. 10633. Mr. Hescox and Mr. Mergil both testified that this procedure was followed. Hescox Dep., 120:20-121:6; Mergil Dep., 89:14-25, 90:20-24.

¹⁵ Mr. Mergil never cleaned the powder out of the bottom of the sumps, and didn't know if anyone else did. Mergil Dep., 85:1-14.

The above-ground sumps were made of concrete and located below the gradient of the building, so that the water would flow into them as it came out of the building. Mergil Dep., 99:22-100:16. It appears that at least some of the sumps had a screen on top, so that material collected in the top of the screen could be collected and sent to the Fireworks Burn Pit for disposal. Moriarty Dep., 125:14-17. Water was not collected from the sumps; it was left to evaporate, (Apel Dep., 418:11-13), and the sumps occasionally overflowed onto the bare ground and the water percolated into the soil. Moriarty Dep., 125:18-126:1.

These sumps were used for the duration of Pyrotronics' operations, and many still exist outside of the buildings that remain on the 160-acre parcel. At Exhibits 20205, 20206, and 20207, there are photographs taken of the sumps as they exist today.

3. Pyrotronics' Use and Clean-up of the Mixing Rooms

Initially, Pyrotronics' mixing operations were conducted in a below-ground, automated mixer that was controlled remotely from Building 70. Hescox Dep., 329:18-330:20. The automated mixer was located in Fire Zone 8, east of the main parking lot and southeast of Building 70, and chemicals stored in Buildings 71-74 were transferred to the mixer by overhead conveyor. Ex. 10809; Hescox Dep., 330:8-13. Present-day photographs of some of the controls used to operate the automated mixers are at Exs. 20142, 20152, 20158, and 20153. But the underground mixer was destroyed in 1968 in a massive, deadly explosion (discussed below) and never rebuilt, and mixing did not resume at this location. Hescox Dep., 330:2-20, 380:18-21; Moriarty Dep., 91:6-9. There is no evidence of any effort to clean up the fireworks composition chemicals, including perchlorate, that were undoubtedly scattered over a wide area as a result of this massive explosion.

After the 1968 explosion, Pyrotronics began hand mixing in Buildings 95-99, located south of the main office in Fire Zone 9. Hescox Dep., 264:14–265:22; Moriarty

¹⁶ For safety reasons, no more than fifty pounds of pyrotechnic composition was to be hand-mixed at a time. Mergil Dep., 93:7-25; see also Moriarty Dep., 130:25-131:6.

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Dep., 103:16-104:13. Chemicals were weighed, screened and then mixed by hand to create compositions that would ultimately be pressed or packed into firework items. Hescox Dep., 123:11-13, 265:23-266:1; 301:22–303:10; Apel Dep., 91:3-14. During Mr. Apel's tenure, five or six people were typically engaged in mixing operations. Apel Dep., 373:12-15.

The chemical mixing process was described as "dirty", and "very dusty"¹⁷, with chemical powder and dust a constant presence in the mixing area. Hescox Dep., 301:8-22; 302:25-303:10. Accordingly, mixing room employees wore respirators, overalls, hoods, gloves, and other protective gear. Apel Dep., 91:3-20; 101:1-25; Hescox Dep., 525:9–526:4; Mergil Dep., 310:4-5 ("mixing is a dirty job. You got coveralls, mask and everything."); Shilling Dep., 71:18-23 (employees in the mix rooms wore masks and coveralls); Moriarty Dep., 128:3-8; Apel Dep., 91:3-10.¹⁸

Pyrotronics' procedures for cleaning the mixing rooms and disposing of collected or washed down pyrotechnic composition were much like those discussed above for the press rooms, as reflected in the similarity of the written instructions covering each. Hescox Dep., 123:11-125:19; Exs. 10633, 10632; Apel Dep., 117:17-25; Hescox Dep., 487:9-18; Mergil Dep., 94:12-95:2. Initially, like the press rooms, the mixing rooms were to be regularly swept. Mr. Mergil testified that one of his duties was to clean up "spilled powder" — or the powder that was "flying around" in the mixing room — after every two mixes, pursuant to instructions he was given on day one (and as required by the written instructions). He explained: "I didn't want to get burned in there, so if there's powder there, I want to get rid of it." Mergil Dep., 96:11-97:1, see also, Mergil Dep., 242:7-243:2.

¹⁷ Written reports reflect that employees sustained injuries when powder or fireworks composition got into their eyes, and eye irritation was a common complaint. Shilling Dep., 102:10-23, 104:19-106:3, 108:9-16, 110:19-111:4; 251:17-25; Ex. 10098. Because of the frequency of such incidents, a first-aid area in the buildings was designed with eye wash to clean the powder out of an employee's eye; but if the irritation was severe the injured employee was sent to the clinic. Shilling Dep., 255:17-256:11.

¹⁸ It appears that these items and the dirty clothing worn by employees in the mixing room was cleaned at the facility. Apel Dep., 102:1-10; see also Moriarty Dep., 126:3-127:6.

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The sweepings were then deposited into a plastic container labeled to indicate that "excess powder" was inside, and set on the ground in front of the building. Such containers were eventually collected and taken to the Fireworks Burn Pit for disposal. Mergil Dep., 354:15-357:11; Moriarty Dep., 131:8-22; 132:23-25. Later, however, after Pyrotronics was no longer permitted to burn its waste material, the sweepings were dumped into the McLaughlin Pit.¹⁹ Hescox Dep., 124:17-125:5; 131:20-132:9; 488:2-6; Apel Dep., 364:5-10.

Express written instructions also directed employees to hose down the mixing rooms to "insur[e] that all residue flows into sump basin." Ex. 10632, Hescox Dep., 120:20-121:6, 128:18-20. And witnesses have confirmed in deposition that the floors were in fact hosed to wash pyrotechnic powders out of the building and prevent the accumulation of powder. Apel Dep., 109:9-110:3; Moriarty Dep., 133:1-15. The cleaning procedure in the mixing rooms was to "sweep it up, water it down and squeegee it out"; and this was "the procedure everybody followed." Mergil Dep., 97:10, 98:23-24; Moriarty Dep., 134:1-6. According to Mr. Apel, "troughs" were located directly outside of the mixing rooms on the property to collect this runoff. Apel Dep., 110:9-16; see also Mergil Dep., 102:17-24 (Mr. Mergil recalls hosing down the mixing room so that the water ran off into a sump outside the mixing room); Moriarty Dep., 134:7-9.

The written procedures and former employee testimony discussed above refer to the mixing rooms that were located in Fire Zone 9 (Buildings 95-99), but it is likely that similar procedures were followed by Pyrotronics when its mixing took place in Fire Zone 8. as photographs taken at the property in August 2006 show that sumps were also located directly outside of buildings 71-74. Exs. 20116-20120, 20145, 20146.

There is evidence that at one point sweepings from the press and mixing rooms were collected and stored in an old railroad car on the 160-acre parcel for a period of time, before ultimately being taken to the burn pit. Apel Dep., 106:13-22; 365:14-25.

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C. Pyrotronics' Waste Disposal Practices

1. The Fireworks Burn Pit

a. Pyrotronics Disposed of Pyrotechnic Waste Material in the Fireworks Burn Pit

From the beginning, Pyrotronics disposed of defective or damaged fireworks and pyrotechnic and production waste in a large, unlined burn pit located on the southsouthwest portion of the 160-acre parcel (hereinafter referred to as the "Fireworks Burn Pit."). Apel Dep., 140:24-141:3; 141:8-19; 143:23-144:25; 147:1-4; 148:23-149:10; 364:5-10; Hescox Dep., 159:6-17; Moriarty Dep., 160:8-21, 161:4-162:4; 165:24-166:10; Hescox Dep., 113:17-114:3; 364:15-367:2; 391:2-22²⁰; Mergil Dep., 119:19-25; Cartagena Dep., 319:22-25; Moriarty Dep., 123:2-15; 165:5-22.²¹ The Fireworks Burn Pit was so large that one former employee testified "you could drive into [the pit] with a truck and just dump the product on the ground and light it". Hescox Dep., 391:13-22. Its precise dimensions are unclear, but estimates have ranged from ten to twenty feet wide, twelve to fifteen feet deep and thirty to several hundred feet long. See, e.g., Carlton Dep., 332:1-5. There is evidence that Trojan Fireworks (discussed below) also used the Fireworks Burn Pit to dispose of similar waste material. Carlton Dep., 205:17-206:19, 330:22-331:12; Apel Dep., 424:22-427:25; Autote Dep., 278:5-15; 282:9-283:8; 284:8-286:12; 290:6-293:13 (describing at least two trips up the Fireworks Burn Pit in the late 1980s with trucks stacked full of waste and off-spec fireworks, discussed more fully below).

Pyrotronics used the Fireworks Burn Pit at least once a week and perhaps as many as three to four times per week during peak season, which for production purposes ran from about February to the end of May, although the frequency of burns

²⁰ Because aerial display shells were a "hazardous item to burn", they were burned separately from other fireworks. First, the shell was cut open and the "loose powder" dumped to the ground, to prevent the shell from being projected into the air during a burn. Hescox Dep., 365:11–367:2.

²¹ According to Mr. Moriarty, protective clothing that was made of paper, such as masks, were also disposed in the Fireworks Burn Pit. Moriarty Dep., 127:13-20.

often depended on weather conditions.²² Moriarty Dep., 355:19-356:7; Hescox Dep., 191:10-192:10; 364:21- 365:4. The frequency, extent and duration of Pyrotronics' use of the Fireworks Burn Pit is partially reflected in burn permits it received from the City of Rialto Fire Department/Air Quality Management District and records it kept of the amount of waste that it burned. Ex. 10350 (5/19/1971 APCD variance hearing minutes re burn of 2,000 pounds of waste fireworks per week); Exs. 10078-79, 10642, 10090, 10137²³; Cartagena Dep., 113:10-115:1; 116:1-12; Exs. 10139, 10148, 10152, 10154-56, 10146; 11236.

The Fireworks Burn Pit was used by Pyrotronics from at least 1968 (and perhaps earlier) up until the south western portion of the 160-acre parcel was sold to Ken Thompson, a concrete pipe manufacturer, in May 1987. Apel Dep., 140:24-141:18; Shilling Dep., 75:15-19. However, use of the Fireworks Burn Pit slowed down around 1972, when restrictions on open burning were imposed by air quality officials and the McLaughlin Pit swimming pool-like structure was built, discussed below. See, e.g., Hescox Dep., 114:4-16 (defective fireworks would have been taken to burn pit before AQMD stopped allowing burns; after that would have thrown into the pond "and let them turn to mush").24 Such restrictions on open burning ultimately led Pyrotronics to construct a waste disposal pond known as the McLaughlin Pit, which is discussed below.

164:6-12.

187:17; 188:17-21; 191:18-192:12.

²² Regardless of how often burns were conducted, materials were transported to the

burn pit daily and then left in the pit to await the next burn. Moriarty Dep., 356:8-16; 374:1-9. Witnesses have observed materials deposited in the pit being rained on before

²³ Ms. Cartagena testified that the AQMD granted an exception to its prohibition on

Fireworks Burn Pit after a permit was later issued by the AQMD. Apel Dep., 186:12-

being burned, and Pyrotronics used water hoses to control burn pit fires. Moriarty Dep.,

burning to allow this and other burns to take place in 1987. Cartagena Dep., 116:1-12. ²⁴ In one instance, early in 1985, Pyrotronics' burn permit was voided by the RFD and

Pyrotronics "had no way of . . . getting rid of waste material", so the waste was stored for a time in an old rail car in Fire Zone 9. These materials were eventually burned in the

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b. The Fireworks Burn Pit Was Used With the Approval and Oversight of the City of Rialto Fire Department and Other Public Agencies

The disposal of defective fireworks and pyrotechnic waste through open burning was the City of Rialto Fire Department's preferred method of disposal, and it routinely approved the burning of such waste. In fact, a permit issued by the City of Rialto Fire Department was required²⁵ to burn any waste material within the City of Rialto, and, after receiving an application for such a permit, the City of Rialto Fire Department typically conducted a physical inspection of the proposed burn area, at least insofar as the application proposed to burn in a new location or a particular entity was submitting its first application to burn. Eastwood Dep., 54:1–56:12; McVeitty Dep., 119:7-20. Permits aside, the City of Rialto Fire Department, "regularly" came on to Pyrotronics' property, and inspected the facility, including the Fireworks Burn Pit and the Burn Pipe, approximately every two months. Hescox Dep., 506:20-24; Mergil Dep., 301:2-17.

The City of Rialto Fire Department did not require material to be burned on a concrete pad or any other lining or barrier, and it regularly approved burns in the unlined Fireworks Burn Pit. Eastwood Dep., 58:15-25; McVeitty Dep., 119:7-122:11. Indeed, the record is replete with written approvals from the City of Rialto Fire Department allowing Pyrotronics to burn defective fireworks and pyrotechnic waste material at the Fireworks Burn Pit. See, e.g., Exs. 10933, 10079, 10642, 10090, 10132, 10146, 11236, 10148, 10152, 10154-56.

Eventually, permission to burn also needed to be obtained from the South Coast Air Quality Management District ("SCAQMD"). Apel Dep., 410:20-411:6; see also Shilling Dep., 61:11-13; 61:21-23, 92:1-93:11; 95:22-25; 410:10-18 (testifying that she called the SCAQMD (in addition to the City of Rialto Fire Department) for clearance prior to the burning of material; permission was granted or denied based upon the weather conditions). Ms. Shilling testified that she contacted the SCAQMD first, and she could

²⁵ Permission to burn was granted verbally by the RFD at times as well. Hescox Dep., 189:3-15.

not recall an instance where she received permission from the SCAQMD but was subsequently denied permission by the City of Rialto Fire Department. To Ms. Shilling, SCAQMD lack of response "meant that things were fine." Shilling Dep., 410:20-411:12.

Contemporaneous written records prepared by the City of Rialto Fire Department indicate that it responded to numerous unplanned fires and explosions at the Fireworks Burn Pit during the course of Pyrotronics' operations, which often involved pyrotechnic powder and other fireworks material that had been placed in the burn pit. Exs. 10033, 10044, 10046, 10051, 10065, 10077, 10080, 10025.

2. Pyrotronics Burned Waste Material At An Additional Location in Fire Zone 2

Pyrotronics also burned waste material on a concrete pad that had been the floor of a press room destroyed in a 1968 explosion. Apel Dep., 365:25-366:13; Hescox Dep., 386:9-25. The cement pad was surrounded by a twelve-foot dirt berm on three sides, with an entrance on the north side, and also had a cage to retain flying debris. Apel Dep., 367:1-17; Hescox Dep., 386:7-16. Scrap and defective cones, chemicals, substandard and damaged fireworks, and other materials were routinely burned at this location. Hescox Dep., 386:9-25, Apel Dep., 367:7-11.

Pyrotronics primarily used this burn area to dispose of consumer fireworks that were manufactured by its Apollo division, and burned material at this location from 1968 until at least the early to mid-1980s, when it began to import most of its fireworks. Hescox Dep., 387:1-7; 387:20-25; 388:17-22. However, pyrotechnic material continued to be burned at this location by other fireworks companies after Pyrotronics ceased operating, as discussed below.

3. The McLaughlin Pit

a. No Longer Permitted to Burn its Pyrotechnic Waste Material, Pyrotronics Built the McLaughlin Pit as an Alternate Means of Disposal

Because of air quality regulations adopted in the late 1960s and early 1970s that restricted open burning of any refuse material in Southern California, the San Bernardino

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County Air Pollution Control District ("SBAPCD"), a predecessor to the SCAQMD, began to refuse Pyrotronics' requests for permission to burn the large quantities of pyrotechnic waste and off-specification fireworks that accumulated at its facility. Hescox Dep., 114:4-16; 357:4-18 ("the fire department – or APCD [SBAPDC], I guess it is . . . refused to give us a burn permit."); see also Ex. 10120, 10006 (August 7, 1987 Hazardous Waste Generator Survey prepared by Pyrotronics and noting that back in the 1970s it was having difficulty disposing of off-specification fireworks because its "Fire Department Burn Permit was voided by AQMD."); Cartagena Dep., 693:12-21 (testifying that the restrictions on open burning were AQMD's decision and the City of Rialto Fire Department indicated they could do nothing about it). As a result, in late 1971 Pyrotronics commissioned the construction of a concrete-lined, rectangular shaped "swimming pool", or waste disposal pond, which ultimately came to be known as the "McLaughlin Pit". Mergil Dep., 283:5-13 ("It was like a swimming pool."); Cartagena Dep., 104:8-13 (the McLaughlin Pit was "a concrete swimming pool that had waste in it."); Ex. 10417. Unable to continue burning waste material lawfully, 26 the pond was the only way Mr. Hescox, "could conceive of . . . deactivating the combinations of chemicals we had in powder dry form. I didn't know what else to do with them." Hescox Dep., 198:21-199:18; see also Id. 105:9-17; 357:4-18 ("When we couldn't burn it, that's when [the McLaughlin Pit] was built.").

Completed in January 1972, the McLaughlin Pit measured approximately twenty feet wide, twenty feet long and four feet deep,²⁷ with a 12,000 gallon capacity, and was located in the south-west portion of the property slightly northeast of the Fireworks Burn Pit in Fire Zone 5. Ex. 10417; Apel Dep., 136:16–137:11; 170:8-16; McLaughlin Dep., 53:21-54:19; Mergil Dep., 103:18-104:5 (testifying that the pond was the size of a

²⁶ Mr. Moriarty testified that even after the implementation of such regulations Pyrotronics still continued to burn pyrotechnic waste, but did so "at night so [the SCAQMD] didn't see the smoke." Moriarty Dep., 177:20-178:8.

 $^{^{27}}$ Other evidence indicates that the pond may have been 20' x 25' x 5'. See, e.g., Exs. 10846, 10108.

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swimming pool); Ex. 10417.

Before the McLaughlin Pit was completed, Pyrotronics was forced to seek several variances from the San Bernardino County APCD to dispose of the substantial amount of fireworks waste material generated at its facility by continuing to burn that material. On May 19, 1971, Richard Doerr, the Pyrotronics safety engineer, appeared at a San Bernardino County Air Pollution Control District variance hearing, on behalf of Apollo, to request a one-year variance to allow the continued burning of "unusable powder residue and damaged fireworks" at the Rialto facility. Mr. Doerr stated that Apollo had been conducting burns bi-weekly and burning approximately 2,000 pounds of waste firework manufacturing material per week. According to Mr. Doerr, Apollo's waste material could not be buried because it "would contaminate the groundwater system possibly if wet down." Ex. 10350 (emphasis added). At a subsequent hearing on September 1, 1971, Apollo was granted a variance until November 3, 1971, which was later continued to January 5, 1972, (id.), but by then it was clear that Pyrotronics would no longer be able to regularly burn in wholesale fashion its perchlorate-laden waste material, and shortly thereafter it began the process of seeking approval to construct and operate the McLaughlin Pit for liquid waste disposal.

b. The McLaughlin Pit Was Constructed With the Regional Board's Oversight and Approval

Apollo applied to the Santa Ana Regional Water Quality Control Board ("Regional Board") for a permit to construct and operate a disposal pit for its manufacturing waste materials on September 24, 1971. Its initial application estimated that Apollo would discharge 150 gallons per day of liquid industrial wastes to an "Imperious Evaporated [sic] Pond". Ex. 10428; Berchtold Dep., 126:21-127:1. In response, Richard Bueermann, the Executive Officer of the Regional Board, sent Apollo Tentative Order 71-39 on October 5, 1971, which set forth proposed Waste Discharge Requirements

("WDRs") for Apollo's use of the contemplated waste disposal pond.²⁸ According to the transmittal letter, the Tentative Order "simply require[s] that no wastewater be allowed to penetrate the ground surface where it will percolate to the underlying groundwater table. Technical reports are required and are intended to monitor the efficiency of the impervious lining. Provisions for measuring water depth in the pond is important and should be incorporated in the construction of the pond." Ex. 10424.²⁹

On November 24, 1971, the Regional Board issued Order 71-39, (Ex. 10418), which authorized the construction and operation of the McLaughlin Pit and provided, *inter alia*, the following requirements:

- There shall be no discharge of waste to surface waters, surface water drainage courses or to areas which would allow percolation of waste.
- Transfer of wastes for ultimate disposal shall be made to an approved
 Class I disposal site or other facility approved by the Executive Officer.

Order 71-39 also included Monitoring and Reporting Program 71-39, which required Apollo to provide, under penalty of perjury, the following "technical reports": (1) quarterly summaries of each month's activities submitted on the tenth day of each reporting period (identified as April 10, July 10, October 10, and January 10), (2) the daily average flow for each month, (3) the depth of waste in the pond reported on the first day of each month, and (4) a report of each ultimate disposal of waste material transferred to a Class I site, for approval by the Executive Officer *prior to* such transfer. ³⁰ As detailed below,

²⁸ Mr. Bueermann also sent Tentative Order 71-39 to various state and local agencies on October 5, 1971. The cover letter noted that "[e]xisting disposal operations, which consist of burning waste powder, are to be replaced with a liquid method to satisfy burning prohibitions administered by the San Bernardino Air Pollution Control District. The liquid method will consist of an evaporation pond in which the waste powder will be deposited . . . the inert ingredients will settle to the bottom of the pond." Ex. 10423.

²⁹ Along with certain other public agencies, the California Department of Public Health approved Tentative Order 71-39, but advised the Regional Board that "your staff should thoroughly review plans of the proposed pond to determine that it is truly impervious and will effectively prevent percolation of these liquid wastes." Ex. 10421 (emphasis added).

³⁰ Mr. Berchtold, the current Assistant Executive Officer of the Regional Board and a member of the Advocacy Team, testified to being unaware if the Regional Board has ever examined whether the Executive Officer had approved even a single transfer of materials from the McLaughlin Pit to a Class I site, as required under Regional Board

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Apollo routinely failed to comply with these reporting requirements, and there is no written confirmation that it ever transported any waste from the McLaughlin Pit to a Class I site until 1983.

On December 9, 1971, Apollo sent the Regional Board a proposal for the construction of a 20' x 20' x 4' surface impoundment, which had been prepared by Dwight H. Williams Swimming Pools in Rialto. Ex. 10417. Although Order 71-39 required the pond to have an impervious lining, the pond installed was simply a plastered gunite swimming pool without any liner. *Id.*; Exs. 10410, 10418. English Dec., ¶¶ 6, 7, 8, 9. Thus, the pond was not made of concrete. According to minutes of a variance hearing held before the SBAPCD on January 5, 1972, construction of the McLaughlin Pit was completed on that day.³¹

c. Pyrotronics Disposed of Perchlorate-Laden Waste Powder and Off-Specification Fireworks in the McLaughlin Pit for Nearly Sixteen Years

Pyrotronics' use of the McLaughlin Pit began in 1972 and continued until its closure in December 1987. The McLaughlin Pit was created for "the waste disposal of the sweepings and powder that's contaminated, to dissolve it and deactivate it." Hescox Dep., 359:20-24; Mergil Dep., 103:20-21 ("it was just a pond, and they had water in it, and they had powder in it."). As mentioned above, material that previously had been burned in the Fireworks Burn Pit – pyrotechnic composition and other material swept off the floor of the mixing and press rooms, as well as off-specification fireworks – was now dumped in the liquid containing McLaughlin Pit because of air quality restrictions on open burning. Hescox Dep., 159:9–160:2 (defective fireworks were thrown in the pond

Order 71-39; though he acknowledged that transporting waste from the pond without such approval would have been a violation of Order 71-39. Berchtold Dep., 134:22-135:10. No written evidence of any waste transfers approved by the Executive Officer has been found thus far in the Regional Board's files.

³¹ At this hearing, Mr. Doerr withdrew a written request for an extension of a previously granted variance from burning restrictions— which had been sought due to delays in completing the McLaughlin Pit — because the McLaughlin Pit was scheduled to be completed that day. Mr. Doerr did seek permission to burn accumulated waste that had not been burned under the variance due to inclement weather. His request was granted. Ex. 10350.

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so they would "turn to mush"); Mergil Dep., 82:5-10 ("I know [Pyrotronics] had a pond, and . . . they would throw the loose powder in there."); Mergil Dep., 104:22–105:1 ("I would see the guy that carries the powder. I would see him go there and throw the – excess powder . . . [i]nto the pond."); Mergil Dep., 368:1-10; Adelson Dep., 60:21-25.

Witnesses have testified to seeing mixed pyrotechnic powders, fireworks, production waste, skyrockets, hand grenades, aerial shells, cardboard tubes, military flares, and other military ordnance, including grenades, in the surface impoundment. Apel Dep., 137:13-21; 149:12–150:11; 272:3-13, 272:20-273:12; 381:16–382:13; 382:24-383:2; McLaughlin Dep., 99:6-102:22; Ex. 10092. A photograph of the interior contents of the pond taken in 1987 confirms that firework shells and casings were in the pond and Mr. McLaughlin identified specific military grenades that he saw in the pond and confirmed what he saw in a photograph at his deposition as the precise type of grenades in the pond. Ex. 11226.

Because waste material in the McLaughlin Pit would tend to ignite automatically if left dry, Pyrotronics intentionally and continuously flooded the McLaughlin Pit so that the water level was kept "very close" to the top of the pond. Apel Dep., 152:20-153:12; 153:1-12 (water level in the pond was kept to within two to three feet of the top of the pond); Mergil Dep., 106:21-22 ("it was a pond with water in it."); Mergil Dep., 305:18-20 (the pond "had water and powder")³²; Berchtold Dep., 101:18-102:2 (water was kept on top to avoid it catching fire); Ex. 10410 (letter from Berchtold confirming the pond overflowed). Regional Board inspection records similarly reveal that the water level frequently was observed to be dangerously close to the top of the McLaughlin Pit, presenting an obvious overflow hazard and ultimately leading to the adoption of a twelve inch freeboard requirement for the pond in Order 78-96, which amended Order 71-39 (as discussed below).

³² Mr. Mergil remembers seeing powder at the bottom of the pond, underneath the water. Mergil Dep., 351:25-352:6. Ms. Cartagena testified that the contents in the McLaughlin Pit resembled "black sludge", and that "a lot of rainwater had gotten into" the Pit. Cartagena Dep., 105:23-106:6; 199:6-19.

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The fear of ignition was not unfounded, as certain chemicals placed in the McLaughlin Pit, including perchlorate, are known to ignite after being wet and then drying. Hescox Dep., 211:19-212:16; Ex. 10109 ("When dry, the material tends to autoignite"). And the McLaughlin Pit did spontaneously ignite on at least three occasions. Apel Dep., 152:21-153:12 and Ex. 963; McLaughlin Dep., 282:16–283:1; Ex. 10381. In June 1985, the City of Rialto Fire Department responded to one such incident; and reported using 1,000 gallons of water to extinguish a fire in the McLaughlin Pit that "contained mostly fireworks related debris" and "spread to near-by grass, burning an area 100' x 100'". Ex. 10442; Apel Dep., 391:22-393:25; Hescox Dep., 211:14-25.

The McLaughlin Pit was uncovered for a substantial period of its operations and perhaps up until 1986, shortly before its closure. Mr. Mergil, who was working for Pyrotronics when the McLaughlin Pit was built and witnessed its ultimate closure in 1987, testified that the pond was never covered with a roof. Mergil Dep., 240:8-12. Ms. Cartagena started working on the 160-acre parcel in 1980 and was also present when the McLaughlin Pit was closed; she too does not recall the pond ever being covered. Cartagena Dep., 107:12-14; see also Adelson Dep., 118:5-8. Ground level photographic evidence produced by the Regional Board demonstrates that the McLaughlin Pit was uncovered as of September, 1977. Ex. 10410. Aerial photographic reviews confirm that the McLaughlin Pit was not covered from its construction until around 1986 or 1987. Bennett Dec., ¶ 29. A Regional Board inspection report dated July 10, 1986 observed that the McLaughlin Pit "has been loosely covered with metal sheeting to prevent direct sunlight from striking dried material, which could auto-ignite", (Ex. 10377) (emphasis added), suggesting that this cover was only recently added and was not intended to prevent overflow from rainwater. Further, it is clear that the McLaughlin Pit did in fact overflow - multiple witnesses have testified that it overflowed during rain storms, (Hescox Dep., 199:25-200:9; Apel Dep., 151:11-13;), including Mr. Berchtold of the Regional Board, who recorded that the McLaughlin Pit had overflowed in a March 3, 1983 inspection report (suggesting that the pond was uncovered at that time). Ex. 10389-90;

Berchtold Dep., 176:15-179:18, 180:4-20; see also Saremi Dep., 561:22-562:3.

d. Pyrotronics'/Apollo's Operation of The McLaughlin Pit Continued Without Pause Even as Regional Board Inspectors Routinely Identified Violations of WDRs and Regulations

The McLaughlin Pit was regularly inspected by the Regional Board staff during its 16 years of operation from its opening in January 1972 through its closure in December 1987. The few inspection reports that have been produced by the Regional Board reveal that Pyrotronics' operation of the McLaughlin Pit involved repeated and persistent violations of its WDRs and various regulations, but that the Regional Board took no action to resolve the violations and prevent waste material in the McLaughlin Pit discharging, from leaching and percolating into the subsurface below.

T.J. Homan of the Regional Board inspected the McLaughlin Pit on January 10, 1972, less than a week after the Pit was completed. A letter from Mr. Homan to Mr. Doerr dated January 12, 1972 indicated that the pond appeared to be structurally sound and watertight, but that a measuring device to determine water depth needed to be added, and the decant pipes needed to be removed, because, if used, they would constitute a violation of Order 71-39.³³ Ex. 10416. The letter also stated that "an accurate record should be kept showing the quantity of waste discharged to the pond and the amount of make-up water added when necessary."

On December 27, 1973 the Regional Board sent correspondence to Apollo indicating that Apollo's quarterly monitoring report, which was due in July 1973 pursuant to Order 71-39, had still not been received. Ex. 10415. Regional Board correspondence dated October 27, 1976 indicates that Apollo had not submitted technical reports due on July 10 and October 10, 1976. Ex. 10413. As of this writing, the Regional Board has not produced a single quarterly technical report submitted by Apollo pursuant to Order 71-

³³ There is no record to substantiate whether these instructions were followed.

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On September 29, 1977, John Silva of the Regional Board inspected the McLaughlin Pit. Ex. 10410. His report describes the Pit's dimensions to be 20' x 20' x 4', and calculates its capacity to be 12,000 gallons. According to Mr. Silva's report, Mr. Doerr told him that "explosive powder is added to the pond"; and that "water is added to keep powder submerged such that it will not burn or explode." At the time of inspection, the McLaughlin Pit had a freeboard³⁵ of 25 inches; but it had only 1 inch and seven inches of freeboard, respectively, in April and August 1977, according to separate reports prepared at those times and referenced by Mr. Silva in his September 1977 inspection report. The report also recommended that Order 71-39 be revised to include a 12 inch freeboard limit and mandate submission of liquid waste hauler reports to the Regional Board.36

On November 16, 1977, the Regional Board wrote to Apollo to advise that its WDRs for the McLaughlin Pit would need to be revised in light of the adoption of a Water Quality Control Plan on April 11, 1975. The letter requested a report of waste discharges and other information to support the new requirements. Ex. 10408. On December 30, 1977, Apollo submitted an application for the new WDRs. The application represented that Apollo now discharged 3,000 gallons per day to the McLaughlin Pit (which only had a 12,000 gallon capacity). Ex. 10404.

³⁴ Counsel for Goodrich has attempted to obtain such documentation, to the extent that it exists. The Regional Board's response to Goodrich's request was that it cannot locate the file in which these documents would be contained. Ex. 20397 (March 13, 2007 Letter from Mr. Spiess to Mr. Dintzer); see also Ex. 11223 (April 9, 2007 Letter from Ms. Novak to Mr. Dennis).

³⁵ "Freeboard" is the distance between the liquid level in a pond and the top of the pond. Minimum freeboard levels are commonly included in waste discharge requirements to prevent overflow. Berchtold Dep., 104:22-105:4.

The Regional Board's Assistant Executive Officer recently testified that he is still unaware of where Pyrotronics sent liquid waste from the McLaughlin Pit. Berchtold Dep., 103:3-104:3, 104:21-108:17: 112:11-16

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On May 12, 1978, the Regional Board adopted Order 78-96³⁷, which established new WDRs for the McLaughlin Pit, including, *inter alia*, provisions that "the discharge of wastes to impervious evaporation ponds when the freeboard is less than one foot is prohibited", and that "[a]II industrial wastes removed from the facility shall be hauled by a State registered liquid waste hauler and disposed of at an appropriate site." Ex. 10365. Order 78-96 also included a Monitoring and Reporting Program requiring Pyrotronics to report, on a quarterly basis, waste volumes and freeboard levels to the Regional Board. *Id.* There is no evidence that these reporting requirements were ever complied with.³⁸ See Berchtold Dep., 155:13-16, 155:23-157:24.

On February 28, 1979, almost eight years after the McLaughlin Pit had been operating under WDRs mandating its waste be sent to a Class I site for ultimate disposal of hazardous wastes, the Regional Board wrote to Apollo with a list of Class I sites that could "be contacted to see if acceptance of your type of waste will be possible." The letter continued: "The waste should be hauled by a certified liquid waste hauler and the final disposal site should be stated on your next monitoring report." Ex. 10393. The ultimate disposal site for Apollo's liquid waste during the nearly eight year time period before this letter was sent is unknown. However, it would have been a violation of the WDR to have sent wastes offsite for disposal without advance notification of the Executive Officer. Berchtold Dep., 135:6-10. Further, the fact that Mr. Doerr of Pyrotronics was for the first time seeking the names of Class I sites certainly suggests that he had not been sending the wastes in the Pit to such a site in the past.

A May 6, 1980 investigation report prepared by Gary Stewart of the Regional Board notes that the McLaughlin Pit had only about nine inches of freeboard, and that "the pond is full of solids" so "Mr. Doerr is going to arrange to have the pond emptied

³⁷ Order 78-96 indicated that Apollo was discharging 3,000 gallons per day of industrial waste into the McLaughlin Pit. A Regional Board memorandum recommending the adoption of Order 78-96 made the same representation. Ex. 10365.

³⁸ There is written evidence of non-compliance. See, e.g., Ex. 10412 (Apollo failed to submit a quarterly report due on July 18, 1978).

immediately." Ex. 10392. The report also notes that Apollo had failed to submit the last three monitoring reports, which were due in October, January and April, of 1979 and 1980, respectively. *Id.* Thus, based on the information reflected in Mr. Stewart's report alone, Pyrotronics had committed four separate violations of Order 78-96. Berchtold Dep., 165:21-166:21 (conceding failure to submit these three reports constitutes three violations of Order 78-96); Berchtold Dep., 168:7-14 (conceding a freeboard of only nine inches constituted a violation of Order 78-96). Yet the only "Action to be Taken" that was recorded in Mr. Stewart's inspection report was to "[w]rite letter if monitoring report not received by May 28, 1980." Ex. 10392. And after Mr. Stewart's inspection, Pyrotronics continued to violate its WDRs while the Regional Board continued to record these violations without taking any meaningful corrective action. A November 4, 1981 inspection report, also prepared by Mr. Stewart, indicates that Apollo failed to submit its July and October monitoring reports; two more violations of its waste discharge requirements. Ex. 10391; Berchtold Dep., 171:14-25; Stewart Dep., 70:1-71:10. But again there is no record of any action taken by the Regional Board.

On March 3, 1983, Kurt Berchtold of the Regional Board conducted a "routine compliance" inspection of the McLaughlin Pit, and reported that Apollo had yet again failed to submit at least two of the requisite monitoring reports. Ex. 10390; Berchtold Dep., 177:16-178:6. The report further indicated that the "pond had *no freeboard*" — meaning the water was right at the edge of the surface impoundment- and had *overflowed* or overtopped because of rainfall. Ex. 10390. The contemporaneous rainfall data in Rialto on that day and the series of days leading up to the date of Mr. Berchtold's inspection make his estimate of only 5 gallons of overflow highly dubious. Berchtold Dep., 179:4-17, 180:4-8, 184:22-187:13; Ex. 20395, 20396. The absence of any freeboard and the overflow of Class I hazardous waste to the ground constituted two more violations of Order 78-96, and presented an obvious threat to the environment.³⁹

³⁹ Mr. Berchtold recently acknowledged in deposition that the overflow was a very serious violation; but he could not recall why he didn't take any action to prevent future occurrences. Berchtold Dep., 180:9-23; 183:4-6.

And despite these serious violations, the only "recommendation" in the contemporaneously prepared report was to "send letter confirming inspection."

The day after Mr. Berchtold's inspection, the Apollo plant pumped out **20,000** *gallons* of liquid waste, described as "fireworks comp", under four separate Hazardous Waste Manifests (5,000 gallons each) which indicated that the waste was shipped by Chancellor & Ogden to the BKK Landfill as hazardous wastes. Ex. 10076; Berchtold Dep., 190:12-17. To date, this, and one shipment under hazardous waste manifest in September 1984 of 4,000 gallons, are the *only* written evidence located of *any* transport of waste from the McLaughlin Pit to a Class I facility for disposal. Of course, the 20,000 gallon figure itself is troubling and makes clear that the 12,000 gallon capacity McLaughlin Pit must have been very full indeed to have yielded some 20,000 gallons of hazardous waste the day after Mr. Berchtold saw it.

During a routine inspection of the surface impoundment on January 24, 1985 by Bruce Paine of the Regional Board, Mr. Paine noted that the surface impoundment hadn't been used in eighteen months because "all extra and inferior gun powder is burned." Ex. 10388; Paine Dep., 86:15-88:22; 90:19-91:6, 91:13-92:25, 93:15-94:12. According to the report, Apollo wanted to remove all "water, sludge & debris" from the surface impoundment so that it could be closed and the property could be sold, and Apollo was waiting for direction from the County regarding the proper means of disposal. The report stated that the WDRs should be rescinded after proper closure of the "pond."

A March 4, 1985 letter from Mr. Apel, of Apollo, to the San Bernardino County Department of Environmental Health Services, stated that some 3.9 tons of "sludge" had been removed from the "pond" and that Apollo was trying to dispose of the balance so that the McLaughlin Pit could be removed. According to the letter, Pyrotronics could not

⁴⁰ A March 7, 1983 letter from Mr. Berchtold to Apollo, following up on the report, advised that overflows from the pond were prohibited by Apollo's waste discharge requirements (Order 78-96) and that discharging into the pond when freeboard was less than one foot was also prohibited. The letter requested that Apollo make arrangements in the future to have the McLaughlin Pit pumped in a timely manner, and noted that recent monitoring reports had again not been submitted. Ex. 10389.

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locate a TDS (no doubt referring to a treatment, storage or disposal ("TSD") facility for handling hazardous wastes) to accept the solid waste that remained. Apel Dep., 164:7-24; Ex. 10638; Hescox Dep., 203:12–205:12, 205:8-12. A letter sent from Mr. Apel to the San Bernardino County Environmental Health Services Department on March 26, 1985 indicated that the pond had been pumped out and that a majority of the "sludge" had been transported to a "TSD"; the letter sought permission to close the "pond." Ex. 10094.

e. California Adopts Subchapter 15 Regulations

In November 1984, a comprehensive set of regulations which governed the discharge of waste to land and specifically applied to "existing" surface impoundments (like the McLaughlin Pit) and their closure became effective. Subchapter 15, Title 23, Chapter 3 of the California Administrative Code; hereinafter "Subchapter 15" (Ex. 20085). The adoption of this new regulatory package was explained in an April 2, 1985 letter from James Anderson, the Executive Officer of the Regional Board, to Pedro Mergil at Apollo. Ex. 10385. The letter advised Mr. Mergil that because Apollo was the operator of an "existing" surface impoundment, it was required to submit a technical report describing the groundwater monitoring program Apollo intended to implement in order to comply with the new requirements set forth in Article 5 of Subchapter 15, and that the technical report was due no later than May 28, 1985 under the regulations. ⁴¹ Ex. 10385. This report was never prepared and submitted to the Regional Board as required by law.

The next day, April 3, 1985, Mr. Anderson sent another letter to Mr. Mergil, which stated that plans for the closure of the McLaughlin Pit should be included with the submittal of Apollo's next regular quarterly monitoring report due in April. The letter advised that "[y]our impervious pond *must be closed in accordance with*" the Subchapter

⁴¹ The letter also explained that after submission of the proposed monitoring program, Apollo's monitoring requirements under Order 78-96 would be revised, along with Apollo's waste discharge requirements, so that they were consistent with Subchapter 15.

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15 regulations, and the regulations were enclosed with the letter. Ex. 10384 (emphasis added).

f. Application of Subchapter 15 Regulations to "Existing" Waste Management Units

The new Subchapter 15 regulations were meant to provide a comprehensive waste discharge to land regulatory program to be implemented by each regional board. Each waste management unit in a regional board's jurisdiction was to be addressed under the new program, and there were specific requirements for certain types of "existing" waste management units. Under Section 2510(d), waste management units that had already received all permits for construction and operation before the effective date of the regulations (November 1984) were deemed "existing." The McLaughlin Pit was clearly an "existing" waste management unit under the new program. Paine Dep., 104:2-5. Further, waste management units were classified according to the types of waste they contained. The McLaughlin Pit contained liquid explosive material that was the result of fireworks manufacturing, and was designated by Pyrotronics as a federal "hazardous waste" with a specific listing code - K044 - under the regulations identifying hazardous wastes pursuant to the federal Resource Conservation and Recovery Act ("RCRA") at 40 C.F.R. part 261.32(a) (adopted in 1981). Ex. 10378. In addition, the numerous references to the Class I disposal sites that had to be used to haul the waste offsite are all references to hazardous wastes. Holub Dep., 843:19-844:13; Paine Dep., 39:6-19. Under the regulatory program in place at that time, any waste material that consisted of or contained a material cited in the List of Chemical Names in Article 9 of 22 CCR Section 60291 were to be considered a "hazardous waste" in California in 1984-1987, and both potassium nitrate and potassium perchlorate are on that list and were known to be in the pond.

Waste management units were also classified by the type of unit – *i.e.* landfill, surface impoundment, waste pile, etc. The McLaughlin Pit was a surface impoundment as identified by both Pyrotronics (Ex. 10378) and by the Regional Board. Ex. 10385.

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Also, because it contained hazardous waste, the McLaughlin Pit was a Class I surface impoundment and thereby subject to some of the most stringent provisions of Subchapter 15.

As an existing Class I surface impoundment, the McLaughlin Pit's operator. Pyrotronics, was required to submit a monitoring program within 6 months of the effective date of adoption of the Subchapter 15 regulations, or by May 1985, as the Executive Officer of the Regional Board stated in the April 1985 letter to Pyrotronics. Ex. 20085 (Title 23 Cal. Admin. Code Section 2510(d)(1) (1985)). That program was to have included detection monitoring designed to sample the unsaturated zone and the groundwater beneath the waste management unit and look for evidence of any leaking from the waste management unit. See, e. g., id. at Sections 2550(b) and 2556. The discharger was to propose, and the Regional Board was to approve the specific indicator parameters to be sampled for in the detection monitoring program. Ex. 20085. at Section 2556(a)(2). Such parameters were to be selected after considering the "concentrations of constituents in wastes managed at the waste management unit" and the "mobility, stability, and persistence of waste constituents or their reaction products." If any leak of the waste management unit was identified by the detection monitoring program, then a verification monitoring program was to have been implemented. See, e.g., id. at Section 2556(b).

The verification monitoring program for a Class I waste management unit⁴² required the discharger to analyze samples from all monitoring points (groundwater and unsaturated zones as well as surface waters) for "all constituents identified in Appendix III of this subchapter." Appendix III included "potassium perchlorate" in Table B. In other words, the Subchapter 15 regulations established a program implemented by the Regional Board in 1985 that would require a specific monitoring program from

⁴² Robert Holub, the only Regional Board witness to claim that the McLaughlin Pit was unclassified, did agree that the Subchapter 15 regulatory program nevertheless applied to its operation and closure. Holub Dep., 845:23-25, 884:14-885:6, 885:24-886:1.

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Pyrotronics to determine if the McLaughlin Pit was leaking, and, if so, to sample the soil and install monitoring wells to assess groundwater for perchlorate and then take corrective action as needed.⁴³ That was the program that the Executive Officer, James Anderson, was referring to in his April 1985 letter to Pedro Mergil. However, as stated, Pyrotronics never prepared such a program for submittal and the Regional Board never demanded one, despite their duty to do so under the regulations to conduct site testing which we now know would have revealed high perchlorate concentrations.

g. Pyrotronics Fails to Submit Mandatory Monitoring Program; Which the Regional Board Fails to Require

On April 26, 1985, Mr. Mergil replied to Mr. Anderson's correspondence, stating that all sludge had been removed from the pond and transported to an approved waste management unit, and that Apollo was attempting to obtain permission to burn the remaining solid waste. The letter indicated that Apollo would submit a closure plan in accordance with Subchapter 15. Ex. 10383.

A June 17, 1985 note to file from Bruce Paine of the Regional Board indicates that Apollo was working with a contractor who was trying to obtain a permit to burn the residue remaining in the pit, and that Mr. Apel would provide an update on July 1, 1985. On August 20, 1985, Mr. Apel wrote to Broco Inc., a waste disposal operator, asking for help disposing of the remaining "solid waste" in the McLaughlin Pit. The letter stated: "As I think you know, we have pumped all of the sludge out of the pond and only solid waste remains . . . I realize your hands are tied because of the A.Q.M.D. requirements on burning, but as soon as you receive word on your petition for a special burn permit please contact me." Ex. 10381. By letter dated August 21, 1985, Mr. Apel forwarded to Mr. Paine his August 20 letter to Broco, and stated that "Broco can not dispose of the

⁴³ The Statement of Reasons produced along with the subchapter 15 regulations made the reason for this point clear: Monitoring systems at Class I waste management units must be sampled at least annually for constituents in Appendix III of the regulations because Class I units typically receive a wide variety of hazardous waste. Page 5.17; Ex. 20085.

waste until their petition for a permit is approved by the A.Q.M.D." Ex. 10380.

Mr. Paine responded to Mr. Apel's August 21, 1985 correspondence by letter dated October 1, 1985, which advised again that closure of the McLaughlin Pit needed to comply with Article 8 of Subchapter 15 and demanded that the closure plan specified in those regulations be submitted by October 31, 1985. The letter continued: "Please be aware that a registered civil engineer or registered geologist must make the evaluation specified in Section 2582(b)(1), and certify their findings as to whether contamination exists." Ex. 10379.

On March 3, 1986, Mr. Apel wrote to the EPA regarding the "Facility Biennial Hazardous Waste Report for 1983". His letter stated: "our company has been trying to dispose of our waste since September 1984. We have disposed of all the waste water and sludge off site but have not found a facility that will accept the solid material that remains . . . [o]nce the existing waste has been disposed, we will close the surface impound in accordance with all state and local regulations." Ex. 10378. The Report, which was signed by Mr. Apel, indicated that some 2,000 pounds of "K044" "waste from the manufacture of explosives" was stored onsite at the Pyrotronics facility in an "S04" method of storage — which signified a "surface impoundment."

On July 10, 1986, Mark Adelson of the Regional Board performed a routine inspection of the McLaughlin Pit. His report noted that Apollo had failed to submit its Subchapter 15 groundwater monitoring report, which was due on May 28, 1985 (the leak detection report which would have required sampling of the groundwater and lead to perchlorate detection had it been properly carried out), or its closure plan for the McLaughlin Pit, which was due on October 31, 1985. Ex. 10377; Berchtold Dep., 224:6-226:25; Ex. 10385, 103879; Adelson Dep. at 71:10-72:6. The report also observed that two feet of "dried material impoundment" remained in the McLaughlin Pit, and that Apollo had been trying to dispose of the waste "for the past year, but with no success", because nobody would permit transportation, disposal or on-site destruction of the waste.

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monitoring report more than a year after it was due; had still failed to submit a closure plan almost a year after it was due; and had no plan to dispose of the dried, explosive, Class I hazardous waste with a propensity to auto-ignite that remained in its McLaughlin Pit. Ex. 10377; Adelson Dep., 71:10-72:6. Nonetheless, Mr. Adelson concluded his report with the notation: "No Action Necessary." Adelson Dep., 72:8-22. Robert Holub of the Regional Board signed off on the report by initialing it on July 13, 1986. Holub Dep., 663:4-666:18; Berchtold Dep., 232:5-25.

Pyrotronics filed for Chapter 11 bankruptcy on June 6, 1986. Ex. 10967. The Regional Board was aware of this bankruptcy at least as early as July 11, 1986, according to a file memorandum prepared by Mr. Adelson memorializing a conversation in which Mr. Apel told him that Pyrotronics was in bankruptcy. Ex. 10376; Berchtold Dep., 233:17-234:22; 234:24-235:2. And Mr. Adelson testified that he likely would have informed his superior – Mr. Holub at that time – if and when a discharger told him that it was in bankruptcy, but that the Regional Board didn't have a particular policy or practice to deal with waste facilities that were in bankruptcy. Adelson Dep., 85:20-86:11; 87:12-20; 87:22-88:10. According to Mr. Adelson's memorandum, at that time Mr. Apel said that funds for the closure of the McLaughlin Pit could only be allocated with court approval. There is no evidence that anybody from the Regional Board or the State made any claim in bankruptcy against Pyrotronics with regard to closure of the facility. Adelson Dep., 89:11-18; see also Berchtold Dep., 235:4-237:3; 250:14-19⁴⁴.

On August 29, 1986, Mr. Mergil sent a letter to Mr. Paine requesting permission to stop submitting "septic tanks monitoring system, report and chemical analysis" because Apollo had shut down its operations. Ex. 10372. Mr. Holub purported to grant this

⁴⁴ Virtually all of the Regional Board staff who inspected the McLaughlin Pit and who were deposed, confessed that there was no Regional Board policy for how to deal with bankrupt dischargers, particularly bankrupt dischargers with Class I surface impoundments and who were facing the expense of a proper closure under Subchapter 15. This oversight unquestionably has put the State at risk for not protecting itself financially by taking the simple step of filing a claim in the bankruptcy of Pyrotronics for the cost of a proper closure of the McLaughlin Pit. See, e.g., Berchtold Dep., 234:19-237:3, 250:8-250:19.

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request in a letter to Mr. Apel sent on October 8, 1986, which stated that Apollo no longer needed to comply with the Monitoring and Reporting Program contained in Order 78-96 as it pertained to the septic tanks, and that Order 78-96 would be rescinded after the McLaughlin Pit was closed in conformance with Subchapter 15. Ex. 10371. It is highly unlikely, however, that Mr. Holub had the authority to unilaterally exempt an entity from complying with its WDRs. Berchtold Dep., 271:11-14.

Mr. Holub's October 8, 1986 letter also advised that two proposed closure plans that had been submitted by Apollo for closure of the McLaughlin Pit⁴⁵ were inadequate because "neither proposal includes site sampling to determine whether the impoundment has leaked pollutants into the ground." The letter stated that soil sampling and analysis were required before closure of the McLaughlin Pit could be approved, because such sampling and analysis would provide "information necessary to determine the need for clean-up or mitigation measures and/or a more extensive monitoring effort." Ex. 10371. The letter also reminded Apollo, again, that closure of the McLaughlin Pit needed to comply with Subchapter 15 and be supervised and certified by a registered engineer or geologist, and demanded submission of a closure plan by October 23, 1986 - the same closure plan that Apollo was supposed to have submitted a year earlier, on October 31, 1985.

On October 20, 1986, Mr. Apel replied to Mr. Holub's October 8, 1986 letter, and wrote that he was uncertain about his ability to obtain funds for the McLaughlin Pit's closure because the facility was in bankruptcy. The letter also stated that he would not be able to provide a closure plan by October 23, 1986 as Mr. Holub had requested. Ex. 10103. The letter mentioned that Apollo's use of septic tanks continued on a limited basis, even though manufacturing at the facility had ceased. According to testimony from Regional Board officials, the Regional Board still did nothing to protect the Regional

⁴⁵ On July 15, 1986, Mr. Apel forwarded Mr. Adelson two proposals he had received for closure of the pond. Ex. 10373-75. One of those proposals was from a William McLaughlin of McLaughlin Enterprises, Inc., an individual who purported to have some experience in environmental matters.

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Board's or the State's interests in the bankruptcy proceeding of Pyrotronics. Adelson Dep., 89:11-18; Paine Dep., 143:22-144:7; see also Berchtold Dep., 235:4-237:3; 250:14-19.

Subchapter 15 Provided Very Specific and Detailed Closure Requirements for Surface Impoundments

In addition to the requirements for existing waste management units, the Subchapter 15 regulations also included a rigorous set of closure and post-closure requirements. Ex. 20085, at Sections 2580-2584. They specifically mandated that closure be under the supervision of a "registered civil engineer or a certified engineering geologist," as the Regional Board letters to Pyrotronics had indicated in 1985 and 1986. Ex. 20085, at Section 2580(b). The specific surface impoundment closure requirements were set forth in Section 2582, which the Regional Board had pointed out to Pyrotronics on multiple occasions through correspondence would be the applicable provisions to govern the closure of the surface impoundment. Those requirements mandated complete removal of all liquids in the surface impoundment, plus any remaining "residual wastes, including sludges, precipitates, settled solid and liner materials contaminated by wastes." Ex. 20085, at Section 2582(b)(1). If that was not done, then the surface impoundment had to be closed as a landfill under Section 2582(b)(2). And, of course, any contaminated soil surrounding the surface impoundment needed to be removed as well. Id. All dischargers, including Pyrotronics, needed to submit a closure and post closure plan to the Regional Board, although if all of the waste constituents were removed from a surface impoundment, along with any contaminated liner, the Regional Board could waive the "post-closure" requirements pursuant to Section 2582(b)(1). This waiver never occurred.

Adherence to Subchapter 15's closure requirements for surface impoundments should have been critical for the Regional Board, since its staff was well aware of the potential for surface impoundments to impact groundwater quality if they were not managed properly. Adelson Dep., 47:16-49:10 (Testifying that the Regional Board kept

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files for surface impoundments "indefinitely" "because those types of facilities have a potential to cause water quality concerns . . . long after they've been closed . . . the nature of the waste that's impounded in these types of facilities, if the facilities were to fail . . . that waste would infiltrate, percolate into the ground . . . "; this was a "widely accepted fact.").

In fact, a proper closure under Subchapter 15 would have included sampling to confirm that there was no remaining contamination under the liner of the McLaughlin Pit, and if contamination was detected, establish a corrective action program to investigate and remediate that contamination including groundwater. Ex. 20072 at Section 2558. The simple fact is that the proper closure under Subchapter 15 would have readily revealed what the current site investigations have already found – that the McLaughlin Pit leaked, and leaked substantially, and that it caused groundwater contamination with perchlorate, as well as with other compounds. Kresic Dec., ¶¶ 28, 35, 55, 56; Kavanaugh Dec., ¶¶ 60-62, 100-101. That, in turn, would have triggered the corrective action program of the Subchapter 15 regulations which would have mandated that Pyrotronics or Ken Thompson (see below) investigate the extent of the contamination caused by the McLaughlin Pit's operations and then take the necessary corrective actions to clean it up. The regulations even mandated a showing of proper financial assurance⁴⁶ by the discharger to complete its closure and post-closure obligations. In short, by 1984 the Regional Board had all of the tools it needed, coupled with a mandatory duty to use them, to protect the waters of the state, to investigate the McLaughlin Pit and to compel the parties responsible to clean up their contaminated legacy. As we shall see next, the Regional Board failed in that duty.

> i. Mr. Thompson Purchases the Southern Portion of the 160-Acre Parcel and Retains Mr. McLaughlin to Close the McLaughlin Pit

In January 1987, Mr. Ken Thompson, a businessman who planned to build and

Financial assurance would have been one thing to bring to the bankruptcy court's attention had the Regional Board taken any step to protect the State's interests.

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operate a concrete pipe manufacturing business in Rialto, negotiated the terms of a purchase and sale agreement to acquire some 20 acres of the Rialto property from Pyrotronics, including the parcels of land (Parcels 10 and 11) where the McLaughlin Pit was located. Ex. 11116 (Escrow Instructions and purchase and sale agreement dated January 1987). Mr. Thompson had visited the property and seen the McLaughlin Pit before he purchased the land, and identified a photograph of the pit as a feature he saw during his site visit. Thompson Dep., 31:3-32:25; Ex. 20002 (photograph of the McLaughlin Pit taken by McLaughlin).

The terms and conditions of Ken Thompson's proposed acquisition of the property from Pyrotronics included a provision that for \$29,800 taken out of the amount of money placed into escrow for the purchase of the property, Mr. Thompson would assume all responsibility for the proper closure of the McLaughlin Pit, and would release Pyrotronics from any liability for same. Ex. 11116 at ¶ 7. Under the terms of the proposed purchase, Mr. Thompson also assumed all of the obligations imposed by law to prepare the property for his improvements. Finally, Mr. Thompson's proposed purchase agreement provided a contingency to closing that Mr. Thompson needed to satisfy himself that he could redevelop the property consistent with his plans. The total purchase price for the 20+ acres was around \$500,000. Ex. 11116.

Because Pyrotronics was in bankruptcy at the time, the sale of the property to Mr. Thompson needed to be approved by the bankruptcy court before it could move forward. Therefore, bankruptcy lawyers for Pyrotronics prepared a motion for the bankruptcy judge to approve the sale. Ex. 11215. In the papers filed with the Court, the President of Pyrotronics, Ray Arthun, declared under penalty of perjury that Ken Thompson would take responsibility for the closure of the pond in a manner consistent with all applicable laws and that Mr. Thompson would assume all responsibility for the costs associated with the legal requirements necessary for the redevelopment of his property. *Id.*, 12. Mr. Arthun also made clear that Mr. Thompson would release Pyrotronics from any liability for those expenses. Id. The one key condition to the sale for Mr. Thompson was that he

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needed to satisfy himself that the property could be redeveloped for his purposes, before he had to close on the sale. Id.

In early January 1987, Mr. McLaughlin and Terry O'Brien, an employee of Ken Thompson, met with Steve Van Stockum, of the County of San Bernardino Department of Environmental Health, to discuss the County's requirements for closure of the pit. Ex. 10640. At the meeting, Mr. McLaughlin presented his ideas regarding closure of the pit, and Mr. Van Stockum advised him that, in addition to approval by the County, such plans would need to be cleared with the Regional Board, the South Coast Air Quality Management District, and the California State Department of Health Services, as well as the City of Rialto Fire Department and the USEPA. Id.

On January 26, 1987, Mr. McLaughlin sent a letter to Mr. O'Brien regarding a proposal for the closure of the pond. Ex. 10748. In that letter, Mr. McLaughlin indicated that he believed that the closure of the pond would require the approvals of the County of San Bernardino, the California State Department of Health Services, the South Coast Air Quality Management District, the City of Rialto Fire Department and the United States Environmental Protection Agency. He said that encapsulation of the remaining waste materials was one possible solution and/or burning the waste was another. Mr. McLaughlin advised that it would cost approximately \$29,800 to close the pond, and that was the figure used by Mr. Thompson in his escrow and purchase and sale agreement proposal with Pyrotronics.

The letter also noted:

It is possible that over the years, there has been significant leeching of material into the ground from the pit. This could lead to restrictions on that portion of the ground in the vicinity of the pit such as placing a concrete pad over the area. Whether or not such a restriction will be likely issued will have to await the results of the borings.

Accordingly, the letter proposed taking "only six borings with measurements at five and ten feet." As acknowledged by Mr. Berchtold in recent deposition testimony, such samples would need to be taken "generally underneath" the McLaughlin Pit to determine

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whether or not it had leaked. Berchtold Dep., 257:2-7.

j. Mr. Thompson Files a Proposed Site Plan And Environmental Information Form With the City Indicating that the McLaughlin Pit Must Be Closed Prior to Redevelopment of the Property

On February 25, 1987, Mr. Thompson's agent, Terry O'Brien, filed a proposed Plot Plan for the redevelopment of Parcels 10 and 11, which included the land where the McLaughlin Pit was located. He concurrently filed an environmental information form which was designed to identify the other permits and approvals from environmental agencies that the applicant believed would be required in order to prepare the property for redevelopment. Ex. 11158. According to then Director of the Rialto Planning Department Rod Taylor, that form was then used by the City of Rialto to review the anticipated impacts that the project would have on the environment under the California Environmental Quality Act ("CEQA"), so the City could decide whether it needed a full Environmental Impact Report or some other form of environmental review. Taylor Dep., 21:17-22:14, 74:7-75:2, 76:1-25; Story Dep., 38:1-40:18, 39:6-10.

On March 12, 1987, Lynn "Mac" McQuern, an environmental planner with the City of Rialto, prepared an initial study under CEQA by filling out a form that was developed by the City of Rialto and consistent with CEQA guidelines. Ex. 11161. On that form, Mr. McQuern correctly concluded that closure of the fireworks residual pit would require approvals from the County of San Bernardino, the California Department of Health Services, the United States Environmental Protection Agency, the Santa Ana Regional Board, and the Rialto Fire Department. Mr. McQuern recommended to the City's Environmental Assessment Committee ("EAC")⁴⁷ that the City adopt a "Negative Declaration" under CEQA, but with certain mitigation measures, one of which, notably, would require the project applicant (Ken Thompson) to take all necessary steps to close

⁴⁷ Mr. Rod Taylor, the Planning Director of the City of Rialto in 1987 and Mr. Michael Story, the current Planning Director and a former associate planner with the City of Rialto in 1987, both testified that the Rialto Fire Department had a position on the EAC.

the pond and obtain all necessary approvals and permits, including approvals from the various public agencies identified by Mr. McQuern, *prior to any grading* of the property for Mr. Thompson's site redevelopment. Shortly thereafter, the City of Rialto's Environmental Assessment Committee reviewed Mr. McQuern's recommendation, made some slight changes, and then adopted the recommendation as a formal Negative Declaration with mitigation measures under CEQA. Ex. 11162. The following mitigation measure (No. 2) was included as part of the Negative Declaration:

Prior to any grading, construction or installation of equipment on Parcel 11, the applicant shall have completed a satisfactory cleanup program of the fireworks residual pit on Parcel 11 and shall have certified the satisfactory completion of that program in a report to the City Engineer. As part of that cleanup program, the applicant shall obtain all necessary permits or approvals from local, state and/or federal agencies as required.

The proposed Negative Declaration with mitigation measures was duly published in the local newspaper (Story Dep., 103:11-21) and, after the close of the comment period, the Negative Declaration with mitigation measures was ready to be finalized by the City.

On May 28, 1987 Mr. Thompson's agent, Terry O'Brien, filed the final application for the approval of the Precise Plan of Design ("PPD") with the City of Rialto. Shortly thereafter, Mr. Thompson acquired the property by grant deed from Pyrotronics Corporation. Exs. 11165, 11116. There is no doubt that the fireworks residual pit, or McLaughlin Pit, had not been closed as of the date Mr. Thompson acquired the property; and, therefore, the steps to close the pit, and the corresponding approvals and permits, still needed to be completed by Mr. Thompson. But obviously Mr. Thompson had sufficiently satisfied himself that his development could be done to his satisfaction at that point, and he had been notified of the condition on the Negative Declaration. Story Dep., 51:6-17.

On either June 4 or 5, 1987 the City of Rialto's Development Review Committee ("DRC") considered Mr. Thompson's PPD and granted him the right to proceed with his development proposal subject to certain conditions. Ex. 11168 (June 8, 1987 letter

MANATT, PHELPS & PHILLIPS, LLP ATTORNEYS AT LAW LOS ANGELES which attaches the conditions of approval). On that same day, the City also finalized the approval of the Negative Declaration with mitigation measures and issued the formal Notice of Determination a few days later. Story Dep., 105:22-110:14. The Negative Declaration contained the aforementioned mitigation measure requiring Mr. Thompson to cleanup the McLaughlin Pit and obtain all necessary government approvals prior to any grading.

A careful review of the City's files produced to Goodrich did not reveal any submission by Mr. McLaughlin or anyone else on behalf of Mr. Thompson indicating that the mandatory certification report regarding closure of the McLaughlin Pit along with sign offs from the County, State, Regional Board, and the SCAQMD was ever filed with the City of Rialto on behalf of Mr. Thompson. A subpoena seeking such information did not result in the production of any such documents. The City's current Planning Director, Mike Story, testified that he would assume such a report had been made, but no such report has ever been produced to Goodrich Corporation and Mr. Story did not recall seeing one in the files. Story Dep., 122:10-132:4. Nor has the City of Rialto ever produced any other written (or oral) confirmation that it approved a submission from Mr. McLaughlin regarding the CEQA mitigation measure adopted by the City in the Negative Declaration.

Although there is no record that Mr. Thompson ever submitted the mandatory certification regarding closure of the McLaughlin Pit before the approval of his grading plan, he was apparently able to begin grading the site by early July 1987. A significant event occurred on July 15, 1987, when CHJ, Incorporated, (Ken Thompson's soils engineers for the project) reported that the grading contractor working on the "subexcavation of the building pad," had unearthed buried drums:

The barrels contained an unknown substance which, along with the deteriorating barrels, had stained the soil. A distinct smell was also present from the excavated area. Because of these conditions, the Rialto Fire Department was notified. Upon their arrival, the Rialto Fire Department contacted the San Bernardino County Environmental Health Department, and a representative from their office visited the site. At this time, no determination has been made

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as to the content of the unknown substance or the extent of the area covered. When a determination at to the safety of the material has been made, C. H. J., Incorporated will return to the site for testing.

Ex. 11121. Apparently no follow-up action was ever taken.

Notably, the City of Rialto has not produced any documents that explain what their Fire Department found in those drums; nor has any witness from the City or the County shed any light on what was in the buried drums found on the property that Ken Thompson purchased from Pyrotronics in 1987. But the fact remains that at some point between June 8 and July 15, 1987, the City of Rialto approved Ken Thompson's plans for grading the former Pyrotronics' site without requiring Mr. Thompson to complete the mitigation measure included in his negative declaration – *i.e.*, that a full and complete closure of the McLaughlin Pit was to be completed and all required public agency approvals were to be obtained, and a certification of completion of same sent in a report to the City Engineer. No such report has been produced by the City and so it must be presumed that such a report simply does not exist and the City let Mr. Thompson grade his site without enforcing the mandatory environmental mitigation measure in the Negative Declaration.

On July 24, 1987, Mr. McLaughlin on behalf of Mr. Ken Thompson sent a letter to Mr. Holub⁴⁸ advising that he had been retained to close the pond, and proposing "to drill *four* boreholes to a depth of 20 feet taking samples at 5, 10, 15 and 20 feet" to "insure that previous leakage from the pit has not contaminated the groundwater." Ex. 10108. So the original proposal for six borings that Mr. McLaughlin had presented to Ken Thompson had now been reduced to four. According to Mr. McLaughlin, prior to sending this letter he confirmed with representatives of the Regional Board that four boreholes

⁴⁸ Copied on the letter were J. Hinton of the Department of Health Services, S. Van Stockum of the County, and R. Thrash from the SCAQMD. Ex. 10108. Mr. McLaughlin stated in the letter that "we are approaching the U.S. Environmental Protection Agency, the South Coast Air Quality Management District, the San Bernardino County Department of Environmental Health Services, and the California Department of Health Services on other aspects of the problem."

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would be sufficient. McLaughlin Dep., 234:8-14. It was decided that the samples would be analyzed for heavy metals only, based on the assumption that if such metals didn't leak the pond was impervious. No effort was made to determine which metals were used in fireworks or to sample for oxidizers such as the well-known fireworks oxidizer, perchlorate. McLaughlin Dep., 235:2–237:8. There is also another glaring omission. Solvents were not considered by the Regional Board to be a substance of concern. This is surprising considering that this surface impoundment received waste materials for well over a decade from multiple users beginning in the early 1970's.

On July 27, 1987, Mr. McLaughlin wrote to Phil Bobel of the United States Environmental Protection Agency, seeking approval to burn the material in the pond upon receipt of the appropriate burn permit from the SCAQMD and with supervision from the local fire department (City of Rialto); to treat the remainder by "chemical fixation and solidification to convert the ash into an artificial clay from which ions cannot leach into the water table"; and to then crush and bury the pond on-site. Ex. 10109. The letter indicated that after the material was burned, "post-fire soil borings and analysis" would be conducted "under the direction of the Santa Ana Regional Water Quality Board to insure that the ground water has not been contaminated."49 The letter closed by requesting USEPA's concurrence "subject to the approvals of the South Coast Air Quality Management District's Hearing Board and California Department of Health Services." In the letter, Mr. McLaughlin makes clear that the material in the pond is a listed "hazardous waste" under USEPA regulations and refers to it as a "K044" listed waste (defined as "wastewater treatment sludges from the manufacturing and processing of explosives"), which is consistent with Mr. Apel's description of the waste that was sent to the Regional Board in 1986. Ex. 10109. There is no record of a response by USEPA.⁵⁰ Note that this surface impoundment remains subject to federal

⁴⁹ Post-fire borings were never taken. McLaughlin Dep., 256:2-12.

⁵⁰ Attached as Ex. 11232 is a declaration and a subpoena served on USEPA for records that evidence any approval by USEPA confirming there are no documents from EPA in response.

regulations including the Resource Conservation and Recovery Act (RCRA) and the Correction Actions required under the Hazardous and Solid Waste Amendments (HSWA). Comprehensive guidance documents for accession and closing such facilities were issued, in 1986, by USEPA's Waste Management Division, Office of Solid Waste in 1986. As revealed by the case facts, these procedures were completely ignored. The McLaughlin Pit is a surface impoundment with recognized release mechanisms of "overtopping" and "seepage" as referenced from USEPA guidance manuals.

An undated inspection report prepared by Dan Brown, staff engineer, of the Regional Board (the inspection appears to have been on August 6, 1987) stated: "Western Precast Products assumed the investigation and cleanup of the [sic] when they bought property from Apollo. McLaughlin Enterprises has been retained to Western Precast Products to do the investigation and clean-up." Ex. 10370.

On August 11, 1987, Gary Litton, Senior Staff Engineer, of the Regional Board wrote to Mr. McLaughlin to confirm the Regional Board's "approval of the course of action to be taken to determine if leakage from the Apollo waste pit has contaminated the ground water." Exs. 10114, 10117. The letter indicated that pursuant to conversations between Mr. McLaughlin and Messrs. Holub, Brown, and Litton, agreement had been reached that now only *two* boreholes would be drilled "to determine if leakage from the Apollo waste pit has contaminated the groundwater". This was two boreholes fewer than proposed by Mr. McLaughlin's July 27, 1987 letter, and four fewer than proposed by his January 26, 1987 letter. Exs. 10114, 10117. The letter also stated that the boreholes "would be drilled 20 feet deep at an angle towards the pit in order to collect soil samples directly underneath the pit." *Id.*; see also McLaughlin Dep., 259:6-22.

A letter from Mr. McLaughlin to Pioneer Consultants on August 17, 1987 confirmed that Pioneer, a soil sampling drilling contractor, would drill two soil sampling holes at an angle of 15 degrees from vertical, and at depths of five, ten, fifteen and twenty feet under the surface. Ex. 10118. Mr. Brown, of the Regional Board, was

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copied on the letter, and Mr. McLaughlin testified that he "absolutely" kept Mr. Brown informed as the project progressed. *Id.*, McLaughlin Dep., 262:23–263:4. Mr. Holub and Mr. Litton also initialed the letter, indicating that they had reviewed it. Berchtold Dep., 272:18-273:3.

The drilling was conducted on August 26, 1987, with Mr. Brown present⁵¹ on behalf of the Regional Board. Mr. Brown prepared a memorandum, dated September 1, 1987, summarizing the results of that work. Ex. 10122. According to the memorandum. the anchor lock on the drill broke while they were drilling the first boring so they were only able to complete one boring, to 11.1 feet, and had to "leav[e] the job incomplete"; they were unable to drill even the two boreholes to a depth of twenty feet (with multiple sampling locations) as specified in the most recent plan. Id.; see Berchtold Dep., 277:24-278:5; McLaughlin Dep., 259:3-5. Therefore, according to Brown's memorandum, only two samples were taken, from the single bore hole, based on a drill angle of 19 degrees from vertical; one at a depth of 5 to 5.8 feet below ground surface ("bgs"), and the second at a depth of 10.6 to 11.1 feet bgs. Mr. Brown's memorandum states clearly that only the deeper sample could possibly have been below the footprint of the pond, and that this was at best only "2 to 4 inches" inside the vertical projection of the pond, and 5 to 5.5 feet below the pond. Berchtold Dep., 278:7-280:3, 280:8-14. Of course, Mr. Brown's evaluation of the distance inside the footprint of the pond for the solitary sample could be in error if the pond wall thickness was more than four inches or if the exact angle on the drill was something less than 19 degrees. Standard pool construction at the time would have included a 7 to 12 inch thick wall. In that case, the one soil sample taken might not have been under the McLaughlin Pit at all. Holub Dep., 728:9-729:20.

Neither Mr. Brown nor anyone else from the Regional Board required Mr. McLaughlin to take any additional samples from below the pond pursuant to the original

⁵¹ At Exhibit 11226 is a photograph produced from the San Bernardino County files that appears to show the drilling of the single boring.

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plan. McLaughlin Dep., 269:6-270:3; 278:16-20. After reviewing contemporaneous documentation of the samples taken by Mr. McLaughlin from a single boring, the best description Mr. Berchtold could give to the work was that "it was limited". Berchtold Dep., 285:17-287:15. A number of Regional Board witnesses have confirmed that they had not heard of using a single soil sample to determine if a surface impoundment of the dimensions of the McLaughlin Pit had leaked. Adelson Dep., 102:18-103:4; 101:16-25; Stewart Dep., 129:6-11. Mr. Adelson testified that "at an absolute minimum, four soil samples would be necessary" to determine if a plastered swimming pool the size of the McLaughlin Pit had leaked. Adelson Dep., 103:6-104:7; see also Adelson Dep., 108:24-109:12 (". . . I would have encouraged the use of more than one sample."). In any event, the assessment work required by the Regional Board was inadequate and contradictory to existing Federal guidance at that time. And Gary Litton, Dan Brown's supervisor at the time had no explanation for why they had agreed that one sample was sufficient. Litton Dep., 142:11-14, 144:19-145:16.

Moreover, Subchapter 15's requirement that each discharger implement a monitoring plan to assess for the presence of waste constituents in and around a surface impoundment was never enforced by the Regional Board, on Pyrotronics, with respect to the McLaughlin Pit. The monitoring program that the Regional Board should have required, and was under a duty to require, would have specifically included monitoring for potassium perchlorate among other chemicals if a leak had been detected. When asked about this glaring omission, Gerry Thibeault, the Executive Officer of the Regional Board, testified as follows:

- [W]ith regard to potential for perchlorate spilling out of this pit Q. either by overflow or by - or through leaking, are the two samples in the locations taken sufficient to characterize whether or not it leaked or spilled perchlorate?
- Well, perchlorate wouldn't have been sampled for back then. Α.

- Q. You testified a moment ago that in your judgment, in 1987 when this [the pit was closed], that there was no need to test for perchlorate in the soil or groundwater . . . why not?
- A. Because it was not know to be an issue.
- Q. All right. And not known to be a water quality issue?
- A. Not known to be a water quality issue.

Thibeault Dep., 170:5-15, 172:2-17. The Executive Officer's assertions are plainly contradicted by the Subchapter 15 regulations, which were adopted three years before closure of the McLaughlin Pit, and, as noted, expressly required monitoring of the constituents in the McLaughlin Pit, including perchlorate in the event a leak had been detected.⁵²

A September 8, 1987 letter from Mr. McLaughlin to Mr. Brown⁵³ confirmed that only one boring was completed, but asserted that the single sample taken beneath the pond was sufficient to conclude that there had been no soil contamination from any waste that potentially leaked or spilled from the pond during its sixteen year existence.

Ex. 11151. The letter also enclosed test data from the soil samples "taken jointly by D. Brown of the S.A.R.W.Q.C.B. and W.J. McLaughlin . . ." Notably, Mr. McLaughlin did not sample for aluminum, barium, strontium, potassium or nitrates, among other chemicals that are well known ingredients of all fireworks. *Id.*; see Berchtold Dep., 282:12-23. Further, and inexplicably, McLaughlin's sampling did not include such obvious constituents of fireworks wastes as nitrates, a major concern even then of the Regional Board and a well-known ingredient of fireworks in the form of potassium nitrate. Of course, the proposal by McLaughlin did not mention perchlorate, despite its obvious

⁵² Mr. Thibeault later testified that, "[i]n hindsight I think yeah if we had known about perchlorate we would have we should have checked for it." Thibeault Dep., 484:12-14. But this "hindsight" admission simply ignores the fact that in 1987 Mr. Thibeault and his staff knew, or should have known, that Apollo was using thousands of pounds of perchlorate every month and discharging 3,000 gallons per day of perchlorate-laden industrial waste into the McLaughlin Pit. Ex. 10023.

⁵³ Copied on the letter were J. Hinton (DHS), M. Monsees (EPA), R. Thrash (SCAQMD), and S. Van Stockum (S.B. Co.).

presence in the waste stream and its listing on Appendix III in the Subchapter 15 Regulations. The letter requested the Regional Board's concurrence that there had been no soil contamination from the McLaughlin Pit.

Also on September 8, 1987, Mr. McLaughlin, on behalf of Ken Thompson sent a letter to Mathew Monsees of USEPA, following up on his July 27, 1987 letter and formally requesting permission to burn the materials that remained in the pond in potential violation of numerous State and Federal regulations. Ex. 10848. The letter reiterated Mr. McLaughlin's conclusion that no soil contamination had occurred based on the previously discussed samples he had "mutually taken" with Mr. Brown of the Regional Board. Mr. Brown, among others, ⁵⁴ was copied on the letter; however, there is no indication that Mr. Brown or anyone else from the Regional Board advised the EPA that the letter's conclusion was suspect given that Mr. McLaughlin's sampling, at best, obtained only one sample 2 to 4 inches below the pond. See Berchtold Dep., 284:1-7.

According to Mr. McLaughlin's letter, "the pit and its contents are under the review of several agencies: The California Department of Health Services, the San Bernardino County Department of Environmental Health, the Santa Ana Regional Water Quality Control Board, the South Coast Air Quality Management Control District, and the Rialto Fire Department, as well as the U.S. Environmental Protection Agency. All have their legitimate interests and all insist that their approval of a specific course of action be conditioned upon the mutual approval of all other involved agencies. This is accepted by both the owner, Western Precast Products, Inc., and ourselves." Ex. 10848.

On September 21, 1987, Mr. McLaughlin, again on behalf of Ken Thompson, and Mr. O'Brien (of Western Precast) sent a letter to John Hinton, of DHS,⁵⁵ seeking approval to "encapsulate" the material remaining in the pond. Ex. 10126. The letter indicated that Mr. McLaughlin and Mr. Brown took samples next to and under the pond in August 1987, and that the Regional Board "concurred" with McLaughlin's conclusion

⁵⁴ Messrs. Hinton, Thrash and Van Stockum were also copied on the letter.

⁵⁵ Copied on the letter were Messrs. Brown, Monsees, Thrash, and Van Stockum.

that neither the soil nor groundwater had been contaminated. Mr. McLaughlin further wrote that analysis indicated that the residual in the pit would not sustain combustion, so he was recommending encapsulation "since there has been no leakage of the material from the pit into the ground in at least 11 (and possibly 37) years . . ."

On September 22, 1987, Mr. Litton, of the Regional Board, wrote in a draft letter to Mr. McLaughlin advising that "we concur that no soil contamination from the pit has taken place." Ex. 10127. "We believe that the lack of contamination was due to the impermeable type of construction of the pit. Therefore, no future soil tests are necessary." Ex. 10127. The Regional Board's position is contrary to previous observations of overtopping of the surface impoundment but consistent with their lackadaisical monitoring requirements as applied to this site. The letter also explained that Mr. McLaughlin's proposal to encapsulate the waste – which was contemplated because tests indicated the material in the pond would not burn – was "unacceptable" to the Regional Board because the material in the pit was considered hazardous and therefore "would have to be removed and disposed of in a Class I landfill." Id. and McLaughlin Dep., 290:14-19. Encapsulation, as contemplated by Mr. McLaughlin, would have required the approval of the Regional Board and permits from other agencies. Berchtold Dep., 290:5-16.

On November 10, 1987, Mr. McLaughlin wrote to Ronald Ripley of the Hazardous Waste and Toxics Control Division of the County Department of Environmental Health Services, seeking permission to encapsulate the waste remaining in the pond. The letter stated that application for such permission had previously been made to John Hinton of

⁵⁶ Based on this letter, Mr. McLaughlin testified that he understood that the Regional Board was satisfied that the sampling taken from the single boring was sufficient to determine that the pond had not leaked and that there was no contamination. McLaughlin Dep., 286:8–287:13; see also McLaughlin Dep., 290:2-13.

⁵⁷ A file memorandum prepared by Dan Brown and dated September 23, 1987 indicates that he and Gary Litton met with Mr. McLaughlin on September 22, 1987, and told Mr. McLaughlin that encapsulation was unacceptable to the Regional Board. Ex. 10128. Because they did not wish to set a precedent, Mr. Brown and Mr. Litton advised Mr. McLaughlin that they would need to discuss the issue with Jim Bennett, the Executive Officer, and Gerry Thibeault, then a senior engineer, with the Regional Board. *Id.*

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the Department of Health Services but that, without a decision, the responsibility for the site was passed to Mr. Ripley's office. Calculations included with the letter reflect that there were *54,000 pounds* (over 25 tons) of constituents remaining in the McLaughlin Pit at that time. There is no evidence that Mr. Ripley responded to this letter.

On November 23, 1987, Mr. McLaughlin on behalf of Ken Thompson wrote to Mr. Van Stockum at San Bernardino County, requesting approval to encapsulate the remaining material in the pond. Ex. 10140. The letter indicated that the possibility of treating the waste by encapsulation had been discussed with USEPA, California Department of Health Services and the SCAQMD, and that none of these agencies had objected. So as of November 23, 1987, Mr. McLaughlin still planned to treat the waste by encapsulation; not by burning. McLaughlin Dep., 307:6-9. One copy of the letter includes a "received" stamp from the Rialto Fire Department, dated November 24, 1987, and handwriting (most likely from a City of Rialto Fire Department official) indicating: "Waste Products in Pit were Burned 12-4-87. A Second Burn is Scheduled later in Month – after which the Pit will be removed. Previous requests to State Environmental Health were denied. So burning the waste was decided upon." Ex. 11157.

On December 3, 1987, Mr. Van Stockum of San Bernardino County wrote to Angelo Bellomo of the State of California, Department of Toxic Substances Control ("DTSC"), and requested that DTSC "respond in writing to McLaughlin Enterprises proposal to encapsulate the waste in this pit and leave it on-site." Ex. 10141. According to the letter, the County had advised Mr. McLaughlin that he needed to contact DTSC and apply for a TSDF (treatment, storage or disposal facility) or variance to encapsulate the pond as he proposed - but DTSC had not responded to Mr. McLaughlin. From this response, the County recognizes the applicability of Subchapter 15 and USEPA's RCRA regulations. As such, the letter requested "a written

⁵⁸ This letter was in response to October 27, 1987 correspondence from Mel Knight of the California Department of Health Services to Mr. Van Stockum, which was sent to "reconfirm" that the County would remain the lead agency with respect to cleanup of the pond. Ex. 10131.

reply to their proposal to treat this waste material on-site, since our Department is not authorized to approve treatment or on-site disposal methods under state law and the memorandum of understanding with your Department."

So while the County was the "lead agency"⁵⁹ with respect to the closure of the McLaughlin Pit, it had correctly determined that it simply did not have the legal authority to approve a burn or encapsulation of any ash in the surface impoundment.⁶⁰ Van Stockum Dep., 103:8-105:8. There is no evidence that Mr. Bellomo ever responded to this letter to either grant or deny Mr. McLaughlin permission to close the surface impoundment.⁶¹ According to Mr. McLaughlin, Mr. Van Stockum never advised him that State approval was still needed, and Mr. McLaughlin was not copied on the December 3, 1987 letter. McLaughlin Dep., 322:10–323:10. The hazardous waste in the McLaughlin Pit was burned the day after the letter was sent, without the requisite State approval.

k. Without Authorization, Pyrotronics and Western Precast Products, Inc. Burned Approximately 54,000 pounds of Class I Hazardous Waste in the McLaughlin Pit; Buried the Pit and Paved Over It - While the Regional Board and the City Watched and Approved

In November 1987, the City of Rialto Fire Department issued Red Devil Fireworks a permit to burn 5.5 tons of "hazardous waste – pyrotechnic materials" between November 17 and December 17, 1987 at the 3196 North Locust Avenue property. 62

Ex. 10138. The permit, intended to allow for disposal of the waste that remained in the

⁵⁹ Mr. Van Stockum testified that the concept of a "lead agency", in this sense, merely meant that the County would act as a clearinghouse; not that it had authority to sign off on the closure plan. Van Stockum Dep., 92:3-93:13.

⁶⁰ According to Mr. Berchtold, the Regional Board also lacked authority to authorize the burn of Class I hazardous waste, and could not approve closure before approval was given by DHS or DTSC. Berchtold Dep., 298:4-8; 299:1-24.

⁶¹ Attached hereto as Exhibit 11233 respectively, are a subpoena for certain records from DTSC and their response with some documents, but nothing indicating an approval to either burn the material or encapsulate it.

Although the permit was issued for the disposal of 5.5 tons of waste, Mr. McLaughlin estimated that, as of November 1987, there were actually **25 tons** of material remaining in the pit and specifically recalled that the estimate of 5.5 tons was too low. McLaughlin Dep., 303:15–304:5. Other evidence indicates that over **54**,000 pounds of Class I hazardous waste were burned. Ex. 10138 (12/17/87 Letter); Ex. 11154.

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McLaughlin Pit, was signed by Pedro Mergil on behalf of Red Devil, (Mergil Dep., 111:10-112:6), and Thomas McVeitty on behalf of the RFD. Mr. McLaughlin clearly testified that SCAQMD authorization was required for the burn, (McLaughlin Dep., 56:9-57:6: 75:12-21; 166:21-25; 182:1-11), and there is no doubt that SCAQMD approval was in fact necessary, but the permit was not approved by the AQMD, and there are no records from the AQMD indicating that they ever approved the burn. Thrash Dep., 48:10-50:10: Exs. 10132, 11154.63 A number of deponents from the Rialto Fire Department and others indicated that it was the Fire Department's responsibility to secure the AQMD's approval, but apparently they never did so. Wells Dep., 46:4-13, 61:3-10; Schroeder Dep., 180:14-23; Ex. 10357 (9/28/87 letter from T. McVeitty to R. Apel indicating that in order for a fireworks company to obtain a permit to burn waste fireworks, it would need to apply for and obtain an AQMD permit that would then be countersigned by the RFD); see also Ex. 11229. At Exhibit 11229 is a copy of the then applicable versions of SCAQMD Rules 208 and 444, which make absolutely clear that the South Coast Air Quality Management District must issue a permit for any open burning. In short, the City of Rialto, Red Devil, and Western Precast Concrete (Mr. Thompson's company and Mr. McLaughlin's employer) failed to obtain the necessary SCAQMD permit to burn the waste in the McLaughlin Pit.

Red Devil was assigned the responsibility for conducting the burn by virtue of a casual arrangement among Red Devil, Mr. McLaughlin and Western Precast. Red Devil was apparently chosen because it had experience burning fireworks waste material.

McLaughlin Dep., 297:10-20. According to Mr. McLaughlin, personnel from his firm were simply at the burn as "observers." McLaughlin Dep., 296:8–297:9. The decision to have Red Devil perform the burn was communicated to members of the Regional Board, the

Attached as Exhibit 11231 are the subpoena and response from the South Coast Air Quality Management District regarding the request from Goodrich Corporation for records regarding any burning of the McLaughlin Pit contents in December 1987 and confirming that the South Coast Air Quality Management District has no records indicating they approved the burn.

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San Bernardino County Department of Health, and the California Department of Health Services. McLaughlin Dep., 298:22–300:6, 301:7-11, 302:10-18.

The burn took place on December 4, 1987, with the ignition starting at approximately 11:00 a.m. McLaughlin Dep., 311:6-8. Preparation for the burn began around 8:00 a.m., as follows: the chain-link fence around the pond was taken down, four 55-gallon drums of diesel fuel (over 200 gallons total) were poured into the pit, and then a "very significant" amount of black powder, approximately one half-inch thick, was placed on top so that it covered the entire surface area of the pond. Next, six to eight pairs of magnesium flares, each approximately six to eight inches long, were placed at various locations around the pond, on top of the black powder, and tied together. The chain-link fence was laid across the pit to prevent debris from leaving the pond in the event of fires or explosions. McLaughlin Dep., 173:7-22. At Exhibit 11226, there are photographs obtained from the County of San Bernardino files showing the preparation of the McLaughlin Pit just before the burn and then after the burn. One photograph shows the black powder being sprinkled on the pit contents and another shows a spectacular explosion and cloud of smoke. The contents of the pit are clearly visible in another photograph and the cracked and chipped sides of the pit are also visible. They offer dramatic proof of the substantial quantity of waste pyrotechnic material that had accumulated in the pit and the illegal and dangerous method of closure that the City of Rialto, Red Devil and Western Precast Concrete all collaborated in orchestrating (without the approval of the County, State of California, EPA or the SCAQMD.)

The burn lasted for approximately eight hours, burning "bright white" for about four hours, and Mr. McLaughlin testified that he remained at the site for the duration of the burn. McLaughlin Dep., 318:14–319:6. There were several explosions during the burn. McLaughlin Dep., 174:19-21; Ex. 10143, 10849 (12/12/1987 letter from Terry O'Brien to Steve Van Stockum noting that "[n]o one was injured by the exploding hand grenades or fireworks."); Cartagena Dep., 201:1-12. Ex. 11226 (photos).

Mr. Brown from the Regional Board was present for the site preparation before

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the burn, and remained on-site for the entire duration of the burn. McLaughlin Dep., 172:16-18: 174:3-10: 311:6-312:8. He did not express any dissatisfaction with the burn or the decision to dump gasoline, black powder and other material on the pond to prepare it for burning. McLaughlin Dep., 319:14-21, 173:7-22. Nor did he ever apparently express dissatisfaction or concern with the fact that 54,000 pounds of Class I hazardous waste was burned on his watch without the requisite legal authorization needed from Federal, State and/or local agencies. See Berchtold Dep., 312:25-313:9.

Multiple witnesses confirm that City of Rialto Fire Department personnel were also present for the burn. McLaughlin Dep., 174:3-8; 302:1-8 (There was a "big red truck with people attached"); Cartagena Dep., 104:10-19; 202:14-16. Mr. Van Stockum with the County and his department were invited by Mr. McLaughlin to attend the burn, but they did not do so. McLaughlin Dep., 317:6-25. Notably, when Mr. McLaughlin invited Mr. Van Stockum from the County of San Bernardino to the burn, Mr. Van Stockum never mentioned that State approval was required before the burn could go forward, as he had written in a letter sent to DTSC on December 3, 1987, the day before the burn. McLaughlin Dep., 330:3-15.

On December 9, 1987, Mr. McLaughlin personally delivered a letter to Mr. Van Stockum, which was intended to summarize the key events concerning the closure of the pond. Ex. 10143. The letter stated that the burn occurred on December 4, 1987; that on December 7 the pit was raked to insure there was no unstable ordnance under the surface; and that on December 8 residual samples were taken from four random points in the middle of the pit, consolidated, and sent to Brown and Caldwell Laboratory in Pasadena for analysis. According to the letter, the analysis demonstrated that "all metals of concern were apparently vaporized." Ex. 10143.

Mr. McLaughlin's letter concluded that "the site is now considered non hazardous"; requested Mr. Van Stockum's concurrence; and included a block for the County's signature. Notably, Mr. McLaughlin did not copy the Regional Board, the SCAQMD, USEPA or the State DTSC on this letter – all agencies which would have

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needed to approve the treatment of hazardous waste within a surface impoundment and the closure. Instead, the letter was sent only to the County, after the burn, and even though the County could not and would not have approved the burn in any event. See Van Stockum Dep., 103:8-105:8.

The County did not sign Mr. McLaughlin's letter, but Mr. Van Stockum did respond by letter dated December 15, 1987. His letter stated that "[a]fter reviewing the lab analysis of the residual left in the Western Precast Products 'pit' after the December 7, 1987 burn, it is this Department's opinion that this residual is no longer classified as a hazardous waste." According to Mr. McLaughlin, this letter "was just as good" as a signature to his letter, and it effectively ended his involvement with the hazardous waste surface impoundment. McLaughlin Dep., 327:8-13. But Mr. Van Stockum's deposition testimony makes clear that his letter should not have been interpreted as the County's sign off on the burn or approval to simply bury the surface impoundment and pave over it:

- Q: That's the December 15, 1987 letter; right? I'll wait for a minute, let you get that in front of you.
- A: Yes, that is.
- Q: Now, that first sentence, we've talked about that a little bit.
 She just asked you a question about it and I want to make sure I understand. If the City of Rialto says, "We saw that first sentence and we read that as a sign-off by the County of San Bernardino that it's now okay to fill in the pit, put dirt right on top of the ashes that are there and pave over it and make that a concrete pipe manufacturing site", they'd be wrong about that, wouldn't they?
- A. I believe so, because it doesn't that isn't what it says.

Van Stockum Dep., 152:14-153:3 (emphasis added). Mr. Van Stockum also testified that the County did not have authority to authorize closure of a hazardous waste facility, including the McLaughlin Pit, by encapsulation or otherwise. Van Stockum Dep., 46:3-7; 85:13-86:15; 90:5-20. Mr. Van Stockum's superior, Richard Roberts, the Director of the San Bernardino County Health Department in 1987, confirmed that same conclusion. Roberts Dep., 48:18-23, 50:19-25, 51:1-5.

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Mr. Van Stockum's December 15, 1987 letter also requested that "Western Precast Products provide this Department with a letter from the Rialto Fire Department which explains why this burn was ordered, since no approval to "treat" the then hazardous waste was granted by the State Department of Health Services." According to Mr. McLaughlin's testimony, this letter was "the first time there was any indication from the County that such an approval would have been required." McLaughlin Dep., 329:2-330:2; see also McLaughlin Dep., 328:7-10. Mr. Van Stockum never received such a letter from the City of Rialto Fire Department. Van Stockum Dep., 117:12-22.

On December 17, 1987, Terry O'Brien of Western Precast replied to Mr. Van Stockum's December 15 letter, and stated that the burn was conducted by Red Devil Fireworks, on material deposited into the surface impoundment by Red Devil, and on Red Devil's property. The letter asserted that the City of Rialto Fire Department permitted the burn because it was clear that the material was hazardous. Mr. McLaughlin didn't recall any discussions regarding the closure after December 1987; and never heard any dissatisfaction expressed by Mr. Van Stockum, Mr. Brown, or anyone else from the County, Regional Board or State Department of Health Services. McLaughlin Dep., 332:6-335:12.

On July 12, 1988, Mr. Brown inspected the former location of the McLaughlin Pit pursuant to Order 78-96. A written report of the inspection prepared that date was approved by Gary Litton on July 13, 1988. Ex. 10368. The report recommended the rescission of Order 78-96, on the purported basis that the McLaughlin Pit had been "appropriately closed." The report stated that the property on which the McLaughlin Pit was located had been sold to Western Precast Products, Inc., "pursuant to the" stipulation that [Western Precast] would close the pit." Apparently relying on the single sample that may have been collected two to four inches below the pond, Mr. Brown's report made the unqualified conclusion that "[n]o evidence of leakage from pit was found." The report continues:

Therefore, permits were obtained and contents of the pit burned. Ashes were appropriately disposed and pit covered over. Red Devil Fireworks, who are adjacent to Western Precast, contracted to burn the material along with some of their own.

But as will be discussed below, the process by which the remaining material was burned and then covered was plainly inappropriate under Subchapter 15; indeed, it is clear that the Regional Board simply ignored these regulations – the very regulations that it was required to enforce and that were designed, in part, to protect the quality of the waters of the State of California. On February 8, 1991, the Regional Board rescinded Order 78-96 without ever testing for perchlorate or any other chemicals in the soil or groundwater, other than the two shallow soil samples for four heavy metals, and without making any required actions to comply with Subchapter 15. Ex. 10366.

I. Data Indicates McLaughlin Pit Is a Major Source of Perchlorate Contamination

The McLaughlin Pit is undoubtedly a major source of perchlorate contamination in the Rialto/Colton Groundwater Basin as tens of thousands of gallons of unregulated wastes were dumped into the surface impoundment for over a decade. This is confirmed by the site findings. In fact, it is the only confirmed source of groundwater containment on the 160 acre parcel. Cavanaugh Dec., ¶ 62. In March 2006, with the approval of the Regional Board staff and USEPA, Emhart and Pyro Spectaculars drilled two soil borings near the McLaughlin Pit. Ex. 11221 (Environ 2007). These samples revealed the highest soil concentrations of perchlorate throughout the vadose zone ever found in the Rialto/Colton Groundwater Basin, ranging from 205,000 u/kg at 20 feet to 1,800 u/kg at 400-440 feet. *Id.* at App. A, Table A 2. And in April 2006, sampling taken from a monitoring well immediately downgradient of the McLaughlin Pit, which was installed by Goodrich, contained 10,000 ppb of perchlorate, the highest concentration ever recorded in any groundwater sample in the Rialto/Colton Groundwater Basin. *Id.* at App. A, Table A 6.

In a confirming statement, Mr. Berchtold, Advocacy Team member and Assistant

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Executive Officer of the Regional Board, testified in deposition that "the highest concentration of perchlorate found adjacent to a source were the samples taken from the McLaughlin Pit." Berchtold Dep., 149:23-150:3; see also Berchtold Dep., 97:23-98:2 (acknowledging data from surveys shows "releases of perchlorate in the vicinity of the McLaughlin Pit."); see also Saremi Dep., 591:19-23 (McLaughlin Pit past and present source of perchlorate contamination in Rialto/Colton aquifer).

And it should come as no surprise that the construction of the McLaughlin Pit as a simple residential swimming pool, and nothing more, was wholly unsuitable for use as a hazardous waste liquid surface impoundment. English Dec., ¶¶ 7, 48-55. It is disappointing that no staff personnel of the Regional Board ever questioned the suitability of a gunite and plaster swimming pool for this purpose. As Mr. English's Declaration makes clear, there is no doubt that the sides and bottom of the McLaughlin Pit leaked into the surrounding soils and down to groundwater because the gunite material is not impermeable and unless the thin plaster coating is carefully maintained it can readily chip and delaminate (as the photographic evidence readily confirms was the case here). English Dec., 7-25, 48-55. Residential swimming pools are not made to hold explosive material that auto-ignites - it seems like common sense but this simple fact escaped all of the members of the Advocacy Team. In fact, the McLaughlin Pit routinely leaked after the first few years of operation at best (English Dec., ¶¶ 51-54), and of course it also overflowed as the evidence clearly shows. But the dramatic proof is in the current soil data taken from beneath the McLaughlin Pit today that shows the highest levels of perchlorate contamination in the Rialto Colton area and pinpoints the McLaughlin Pit as the key source of the groundwater contamination in the Basin.

D. Multiple Fires and Explosions at the Pyrotronics' Facility Caused Spills and Releases of Perchlorate

Pyrotronics' Rialto operations were characterized by explosions, fires, and other incidents involving the spilling of firework composition material. Two major explosions occurred in 1968, shortly after Pyrotronics began operating. The first explosion took

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place on February 15, 1968 in one of the press rooms, and caused two or three
fatalities, injured nine others, and destroyed as many as twenty buildings. Ex. 10010;
Hescox Dep., 328:3-12 and Ex. 10805. The press room involved in the explosion was
located west of the main parking lot, in Fire Zone 2, and was used to press potassium
perchlorate-containing "gerbs". Hescox Dep., 381:16-382:18; 383:6-384:23, 545:9-11;
Moriarty Dep., 89:11-19. The City of Rialto Fire Department put the fire out, although fire
hoses that were maintained by Pyrotronics "all over the plant" were probably used as
well and witnesses recall seeing water on the ground after the incident. Hescox Dep.,
327:21–328:2, 328:18–329:5. This press room was never reconstructed; instead it was
dismantled and later used as a burn area to dispose of waste material. Hescox Dep.,
386:9-25

The second explosion, in May 1968, occurred in a remote mixing room and seriously injured two individuals. The City of Rialto Fire Department incident report noted there was an "[e]xplosion of powder in a metal building with total destruction of the building and critically injuring two employees . . . " Exs. 10005, 10679; Moriarty Dep., 76:12-16. The mixing room where the explosion occurred was known as Building 71. Ex. 10970. Mergil Dep., 189:20-190:3; Moriarty Dep., 76:12-77:2. Apparently, the accident was the result of an attempt by certain employees to increase their break time by manually pushing gondolas carrying powder into the mixing room. Moriarty Dep., 77:3-21. After this incident, Pyrotronics reverted to the old system of hand mixing chemicals in smaller quantities; the automated system was never replaced. Moriarty Dep., 78:11-18; 130:1-19.

Mr. Hescox, who was sent to work at the Rialto facility in 1968 as a result of these two explosions, testified that they were caused by "an accumulation of too many chemicals." Hescox Dep., 74:12–18. He also testified that the explosions required "almost every building" to be rebuilt. Hescox Dep., 72:1-2.

Many other explosions and fires at Pyrotronics' facility are documented through 1989. These include a 1971 fire in the Fireworks Burn Pit, which consisted of "some

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additional fires and explosions in or around the burn pit occurred in 1973, 1976 (twice), 1977, 1979, 1983 (twice) and 1985. 10033, 10044, 10046, 10065, 10636, 10077, 10080. And on December 24, 1980, an explosion "totally destroyed" a storage building used to house consumer fireworks. Ex. 10645; Apel Dep., 232:17-233:8; Exs. 10072, 10645. Apparently because of the frequency and severity of fires and explosions at the facility, Pyrotronics even maintained its own fire department and two fire trucks in Rialto. Moriarty Dep., 170:1-13; 171:6-9; 172:4-9.

type of powder" among other materials. Ex. 10025. RFD records also indicate that

The frequency of these fires and explosions is indicative of careless practices, and resulted in the spreading of fireworks debris, containing perchlorate, across large areas of the 160-acre parcel. Notably, many of these incidents occurred in the vicinity of raw perchlorate and/or fireworks containing perchlorate.

E. California Fireworks Display Company and the Testing of Aerial Display Fireworks

California Fireworks Display Company was Pyrotronics' aerial display fireworks division, and it manufactured, assembled, imported, stored, and tested fireworks on the 160-acre parcel from approximately 1968 until 1979, when the division was sold to another fireworks operator. Hescox Dep., 77:15-21; Exs. 10029, 10031, 10034; Bybee Dep., 100:1-101:9 (California Fireworks Display manufactured Class B aerial shells, some of which contained potassium perchlorate).

California Fireworks Display Company tested display fireworks in the southsouthwest portion of the property, near the Fireworks Burn Pit (in Fire Zone 13), and the record includes multiple permits for testing of display fireworks which were issued to the company by the RFD. Exs. 10034, 10037, 10038, 10039, 10042, 10043, 10045, 10047, 10050, 10797; see also Hescox Dep., 172:1-20; 173:21–174:2; 177:19-22. Mr. Hescox testified that California Fireworks Display Company tested two to three times per month in the spring and summer. Hescox Dep., 174:9-20.

Witnesses have testified and documents confirm that a certain percentage of

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aerial display fireworks fail to completely combust in the air and fall to the ground either unburned or partially burned. Hescox Dep., 291:3-12, 367:15-370:3; Shilling Dep., 269:8-23 ("Always there's duds."); Ex. 10362 at pages 3, 13, and 39. Evidence further indicates that "stars", a component of aerial fireworks which are often made of perchlorate, fell to the ground in the location where aerial display fireworks were tested. Pyrotronics employees were trained to recognize whether the aerial shells being shot actually detonated or not; and would patrol or clean up the area where duds fell. Hescox Dep., 367:24–368:17. These "misfires" just happened on occasion, and it was well known that a small percentage of shells would be defective. Hescox Dep., 368:9-13; 369:14-370:3. Mr. Moriarty testified that the company sought the RFD's "standby" during display fireworks testing in case anything "went wrong"; and noted that "the fallout could easily set fire to the brush, and in the high wind, it was a disaster . . ." Moriarty Dep., 372:1-10; 372:17-25.

F. Pyrotronics' Testing of Consumer Fireworks

Pyrotronics also tested consumer fireworks on the 160-acre parcel, frequently at a location that Mr. Apel described as a "dirt mound with a round hole". Apel Dep., 351:6-21. Testifying about what appears to be the same location, Mr. Mergil described it as a "test tunnel" located near the Fireworks Burn Pit; although he indicated that testing was later moved to a location near the Burn Pipe in Fire Zone 2 because it was closer to their operations. Mergil Dep., 335:15-337:10; Ex. 10958. Consumer fireworks were also tested in the parking lot next to the office; originally this location was dirt but it was later paved with asphalt. *Id.; see also* Moriarty Dep., 108:14-21; 167:2-5; 370:2-5; 371:1-20.

⁶⁴ A Draft Report issued by the Massachusetts Department of Environmental Protection in August 2005 confirms that repeated aerial fireworks displays can cause perchlorate contamination in soil and groundwater. Ex. 11176.

⁶⁵ Apparently, material was also burned at the "test tunnel" location in the earlier years of Pyrotronics' operations. Mergil Dep., 338:12-17.

⁶⁶ Ms. Shilling, who worked for Pyrotronics from 1979 through 1989, testified that Pyrotronics tested consumer fireworks in the Fireworks Burn Pit, or at least "in the general area where I though the pit was." Shilling Dep., 64:9-16; 268:1-15; 270:18-25.

Pyrotronics tested consumer fireworks that were manufactured by its Apollo division, with Richard Doerr and Fred Cairo primarily responsible for these tests. Mergil Dep., 173:3-19; Shilling Dep., 35:4-11, 16-25. Pyrotronics also tested fireworks imported by its Red Devil division. Apel Dep., 353:12-15. During her tenure, Ms. Shilling called the AQMD to ensure that Pyrotronics had clearance in advance of consumer fireworks tests. Shilling Dep., 35:16-18.

Mr. Apel testified that Pyrotronics followed the requirements established by the Consumer Product Safety Commission, and that samples were tested from each shipment received by Pyrotronics. Apel Dep., 352:5. According to Mr. Apel, Pyrotronics tested consumer fireworks about once per week, with testing lasting anywhere from one hour to a full day, although during peak season samples needed to be pulled for testing on almost a daily basis. Apel Dep., 351:25-352:11; 352:17-25; 378:4-15.

V. TROJAN FIREWORKS/ASTRO PYROTECHNICS

In approximately 1971, Trojan Fireworks began manufacturing consumer and display fireworks at 2298 West Stonehurst in Rialto and in and around the nearby former military bunkers. See Hescox Dep., 49:17-50:18. Trojan operated in Rialto until 1988, when its display fireworks division, Astro Pyrotechnics and its consumer fireworks division, Freedom Fireworks, were separately acquired by other fireworks companies (hereinafter the pre-April 4, 1988 activities of these entities will be collectively referred to where appropriate as "Trojan").

A. Trojan's Manufacturing Operations

Similar to Pyrotronics' manufacturing operations, many of the consumer and display fireworks manufactured at Trojan's Stonehurst facility contained the oxidizer potassium perchlorate, and potassium perchlorate constituted a substantial percentage of the pyrotechnic composition material at Trojan by weight. Cunard Dep., 467:21-468:7 (perchlorate, including potassium perchlorate specifically, was an ingredient in many fireworks manufactured by Trojan); Carlton Dep., 110:15-19, 111:23-112:2 (potassium perchlorate was the second most commonly used oxidizer by Trojan), 160:12-21

(potassium perchlorate used as the oxidizer in the "Nite Howler"), 1/1:11-24 (potassium
perchlorate used as the oxidizer in "Whistle Pete"), 301:25-302:2 (mines manufactured
at plant contained potassium perchlorate), 362:6-17 ("Comets" and "Stars" contained
potassium perchlorate), 364:24-365:13 (beginning in approximately 1980, stars included
within the "Meteoric Shower" contained potassium perchlorate), 390:13-16; 392:15-393:
(certain "specialty" fireworks items contained potassium perchlorate), 464:19-23, 465:3-
5; 465:13-23 (Trojan used potassium perchlorate in the manufacture of Nite Howlers,
Whistling Petes, and Niagara Falls); 543:20-544:5 (potassium perchlorate was the only
oxidizer used in Nite Howlers and Whistling Petes); Veline Dep., 87:8-21, 88:16-19
(Trojan used potassium perchlorate in the production of stars, whistles, and possibly
fountains.), 222:19-223:8 (Colored stars, whistles, and one or two safe and sane press
items contained potassium perchlorate), 228:6-229:13 (Trojan made "Niagara Falls"
fireworks, which contained potassium perchlorate), 242:19-244:3 (The "prime" which
coated the outside of "stars" contained potassium perchlorate), 281:16-23 (50% to 60%
of the composition used in whistles was perchlorate); Cunard Dep., 467:21-468:7; Autote
Dep., 79:2-7 (both flash powder and whistle powder contained perchlorate), 143:10-
144:5 ("we used potassium perchlorate to make pyrotechnics"), 173:14-19, 198:17-20.
According to a computer printout produced by Leo Autote, a third of the approximately
150 firework formulas used by Trojan included potassium perchlorate, and on average,
potassium perchlorate accounts for 50% of the composition of products that contain
potassium perchlorate. Ex. 11134; Autote Dep., 453:20-455:10 (identifying formulas in
Ex. 11134 as being those used at Trojan before 1988); see also Ex. 11135 (selected
documents from Stuart Carlton's notes indicating wide spread use of perchlorate); Autote
Dep., 456:24-458:16 (identifying exhibit 11135 as "notes of fireworks compositions and
effect studies by Stuart Carlton" made "during the Trojan years"); Ex. 11138, 11136,
11140, 11141 (formulas containing potassium perchlorate).

In addition to potassium perchlorate, Trojan also used ammonium perchlorate in the manufacture of several fireworks products. Carlton Dep., 542:18-543:5 (ammonium

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perchlorate used periodically in the production of stars), 577:17-24 ("Little Flasher" contained ammonium perchlorate); Veline Dep., 208:19-209:12 (ammonium perchlorate was used in some stars and a strobe device), 317:16-21 (60% of the composition used in a strobe was ammonium perchlorate); Autote Dep., 252:20-253:8 (the "Flasher" contains ammonium perchlorate), 487:3-14 (the formula for the blue-tip stage gerb was 45% ammonium perchlorate); Exs. 11139, 11137, 11140, 11141 (firework formulas containing ammonium perchlorate from 1987). Ammonium perchlorate was an ingredient in seventeen products identified on the print out of Trojan's fireworks formulas, and ammonium perchlorate makes up, on average, 37% of these seventeen products compositions. Ex. 11134.

1. Purchase and Storage of Raw Chemicals Including Perchlorate

According to Trojan's former plant manager, Mr. Carlton, Trojan typically ordered a few thousand pounds of perchlorate at a time, and because chemicals were generally ordered in quantities sufficient for six months, approximately twice a year thousands of pounds of potassium perchlorate would be delivered to the Trojan facility on Stonehurst. Carlton Dep., 381:8-23; 382:11-15; 382:23-25. Indeed, Mr. Carlton could not recall a year during his eleven-year tenure at Trojan that he did not place an order for potassium perchlorate. Carlton Dep., 384:12-15.

At Trojan, potassium perchlorate and other oxidizers were received in "large quantities", which were then stored on-site and used as needed. Carlton Dep., 112:14-23, 473:1-9, 474:6-12 (between 1981 and 1988, Trojan would keep between 500 and 5,000 pounds of perchlorate on the property). Oxidizers, including perchlorate, were received in metal drums and in paper sacks, typically weighing fifty to one-hundred pounds. Carlton Dep., 113:14-114:18; Cunard Dep., 205:4-13 (potassium perchlorate was stored in drums). The metal drums of oxidizers were stored in approximately two to three trailers at the north end of the Stonehurst property. Carlton Dep., 426:20-427:13; Veline Dep., 23:16-21 (oxidizers were stored in a shipping container by the weighing and mixing area upon receipt); Autote Dep., 137:20-138:16, 142:7-144:5 (30 gallon metal

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drums containing perchlorate were stored in the trailers). Oxidizers were also stored in a "truck box", which had been removed from a truck chasis, located near the mixing rooms. Autote Dep., 440:14-441:20. Moreover, at some point, Trojan purchased a large amount of chemicals from Pyrotronics and leased an additional building to store those chemicals at the 3196 N. Locust facility. Autote Dep., 521:15-522:10, Ex. 11133.

2. Weighing and Mixing of Pyrotechnic Composition

Like the process at Pyrotronics, Trojan's manufacturing process began with the weighing and mixing of certain chemicals to create pyrotechnic compositions for use in Trojan's fireworks products. During peak season, Trojan made about three to four batches of mix per day for most fireworks items and about thirty to sixty batches of mix per day for "cones". Carlton Dep., 139:11-140:5.

Before beginning the weighing and mixing process, the necessary chemicals had to be procured from the storage areas described above. Drums of oxidizers, including perchlorate, were taken from storage to a weighing room (described as a portable building or shed near or connected to a mixing room) where the chemicals needed for a certain fireworks compositions would be weighed out. Veline Dep., 235:2-10; Autote Dep., 159:15-161:9 (drums of perchlorate were taken to mixing room, perchlorate was scooped out of the drums with a metal scoop and weighed before mixing); Veline Dep., 89:6-91:23 (describing the mixing and weighing rooms), Autote Dep., 163:2-5 (describing the mixing and weighing rooms). Mr. Veline testified that oxidizer was stored in the weighing room in approximately 30 gallon metal drums, and that at times multiple drums of oxidizer were stored in the weighing room. Veline Dep., 96:2-7, 98:6-99:1, 109:7-15; Carlton Dep., 126:14-127:16; Cunard Dep., 202:17-203:7 (Main chemical storage area in trailers but some chemicals always kept on hand in the mixing room). And as needed, the supply of chemicals was replenished from storage. Carlton Dep., 428:12-24.⁶⁷

⁶⁷ When the drums were nearly empty they would simply be "turned over and shaken into a receiving container, . . . a cardboard keg," and Mr. Carlton recalled that empty perchlorate drums were probably washed out and used as trash containers. Carlton Dep. 428:12-24.

In the weighing room, oxidizer would be removed from the metal drum with an aluminum scoop and placed on a scale with a 25 pound capacity. Veline Dep., 89:6-91:23, 110:1-16. After weighing the oxidizer and the other chemicals to be used in the composition, all the chemicals were placed into the same container and carried by hand to the mixing room. Veline Dep., 114:20-115:13; 122:8-13 (chemicals were placed into a 3 to 5 gallon container), 89:6-91:23, 113:2-5; Autote Dep., 204:16-206:1 (chemicals were placed into a 25 gallon cardboard keg), 206:2-4.

The actual mixing at Trojan was done entirely by hand⁶⁸ in an aluminum bowl (described as an ordinary "soup kettle") that had a capacity of approximately 10 to 20 gallons. Carlton Dep., 124:16-17; 124:19-125:20; Veline Dep., 99:11-15 (mixed in a 10 gallon aluminum pot). The composition was mixed in one bowl, and then screened into another bowl and mixed by hand, and then screened back into the first bowl and mixed by hand again. Carlton Dep., 134:8-20; see also Veline Dep., 125:7-128:18 (describing mixing procedure). All of the mixing at Trojan was done in these "soup kettles", except the composition used in whistles and the composition used in a "stump remover". Autote Dep., 198:1-7, 200:15-24. The composition used in whistles, which contained perchlorate, was mixed in a square wooden box to minimize the friction and impact that occurred in the mixing process because the whistle composition was a more "sensitive composition." Autote Dep., 198:10-20. And the composition used in the stump remover was mixed in a "household-type cement mixer." Autote Dep., 200:15-202:14.

After mixing, water, taken from a bucket in the mixing room, was added to the composition and the composition was mixed again by hand. Veline Dep., 133:7-134:6, 137:2-5. Finally, the mixed composition was poured into 2 ½ gallon cardboard kegs and taken to the press room. Carlton Dep., 140:11-25; 142:3-143:2; Veline Dep., 139:13-140:1 (mixed composition was put into the same container that it was brought into the mixing room in, and then that container was taken to the press room).

⁶⁸ The mixing was done by an employee's gloved hand. Carlton Dep., 135:2-7; Veline Dep., 128:11-129:1.

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3. Waste Generated in the Weighing and Mixing Process

Pyrotechnic "live waste", which Mr. Carlton defined as any material with enough pyrotechnic composition to sustain combustion and often included perchlorate, was generated as an unavoidable by-product of the weighing and mixing process. Carlton Dep., 162:1-12. Pyrotechnic dust created by the weighing and mixing of pyrotechnic compositions would settle on the walls and floor of the weighing and mixing rooms. Autote Dep., 165:8-21. In fact, because of the amount of dust generated during weighing and mixing, employees involved in those processes had to wear "dust masks". Autote Dep., 162:13-19, 165:2-12. Additional live waste was also created in the weighing and mixing rooms when employees inevitably spilled chemicals while weighing, mixing, and transporting them. Veline Dep., 115:23-117:1, 326:3-9 ("I recall times Ichemicals] were spilled on the floor in the weighing room or the mixing room.").

Because of the danger presented by the accumulation of live waste, the weighing and mixing rooms were swept "many times" a day depending on which chemicals were being mixed or the amount of composition that had been spilled that day; the waste that was swept up was then temporarily placed in a container in the room. Autote Dep., 167:7-14; Carlton Dep., 136:5-9; 147:5-19 (composition that would occasionally fall out of the mixing bowl would be swept off the ground); Veline Dep., 117:3-118:15; Autote Dep., 165:8-21 (powder dust from weighing operation would get on walls and floor and would then be swept up). These sweepings would eventually be added to the collection of "live waste" at the plant, which also included the excess composition from the press rooms. See Veline Dep., 140:9-143:1 (spilled material would be swept up and taken to building number 10); Cunard Dep., 226:10-229:11 (excess powder from mixing operation would be put in a fiberboard container and taken to Building 10). On a weekly basis, the weighing and mixing rooms were hosed out with water to further prevent the accumulation of live waste, and the water from the wash out simply spilled out of the door onto bare earth or, depending on the configuration of the portable weighing and mixing rooms, onto the surrounding pavement. Carlton Dep., 492:11-493:15; 493:20-25;

Autote Dep., 169:9-172:7, 263:19-264:4; Schroeder Dep., 76:1-6, 76:8-77:24, 80:11-21.

Employees at Trojan also had to clean residual pyrotechnic composition off of the equipment used in the weighing and mixing operations on a regular basis. The mixing bowls were wiped or dusted out with a brush at the end of the work day, and the screens used in the mixing operation were similarly cleaned with a hand brush before they were used to mix new compositions. Veline Dep., 190:5-191:14; Carlton Dep., 143:25-145:19. In addition, the scale in the weighing room had to be cleaned after weighing a chemical to ensure that the weight of the next chemical would be accurate. Veline Dep., 113:6-114:15. The excess powder produced from cleaning the weighing and mixing equipment was placed into containers in the weighing and mixing rooms and collected with the other "live waste". See Veline Dep., 140:9-143:1 (spilled material would be swept up and taken to building number 10); Cunard Dep., 226:10-229:11 (excess powder from mixing operation would be put in a fiberboard container and taken to Building 10).

In addition to the actual weighing and mixing of chemicals at Trojan, the strong winds, which are common in Rialto, further spread pyrotechnic powder throughout the facility. Because the doors of the portable buildings used for weighing and mixing were always kept open, these winds would blow pyrotechnic composition out of the mixing and weighing rooms, and into the surrounding areas. See Autote Dep., 163:2-13 (doors always remained open in case a fire or explosion occurred in the building), 181:13-17 (recalling that powder dust was occasionally blown out of the weighing room).

4. Fireworks Press Operations

Trojan used at least three five to six feet tall hydraulic presses in making certain fireworks products at its Stonehurst operation. Cunard Dep., 451:21-452:4. After the mixed pyrotechnic composition was delivered to the press room, a pressman would scoop the composition onto a plate with approximately 49 holes in it, and use his hands to load the composition into each of the holes in the plate. Veline Dep., 143:21-144:10; Veline Dep., 143:25-146:10; Carlton Dep., 149:20-150:4 (Trojan's presses usually produced 49 items at a time). The pressman would compact the composition into the

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holes with his fingers so that when he picked the plate up the composition would remain in the holes and not fall out. Veline Dep., 146:3-16. Any excess composition left on the plate after the holes were filled was swept on to the table on which the plate was being loaded, and the pressman would scoop this leftover composition off the table with his hands and use it in loading the next plate. Veline Dep., 145:8-146:3.

The plate, once loaded with pyrotechnic composition, was slid into place on the press. Veline Dep., 146:18-25; Carlton Dep., 150:1-16; 154:4-155:4. The pressman would pull a lever and the press would compact the powder composition into a certain product. Veline Dep., 147:8-148:6, Carlton Dep., 154:4-155:4. The compressed fireworks products would then be sent to another area of the plant for finishing or drying. *Id.*

Because the pressing process involved the use of loose pyrotechnic composition, the pressing process, like the mixing and weighing processes, also generated "live waste". Carlton Dep., 162:1-12; Autote Dep., 248:18-22. After pressing fireworks, live waste would remain on the table and equipment in the press room, and waste would also fall to the floor during pressing. Carlton Dep., 164:10-165:14; Veline Dep., 153:3-154:17. This waste from the press room was swept up and collected at least at the end of each work day when it would be consolidated with the waste from the weighing and mixing operations in a 2.5 gallon cardboard keg. Carlton Dep., 164:10-165:14. In addition, any pyrotechnic composition that was not used in the pressing was collected and handled in the same manner as other live waste at the Stonehurst facility. Carlton Dep., 202:21-203:14.

Like the mixing rooms, the press rooms were washed out with water on a weekly basis to ensure that no live waste remained in the rooms, and the runoff from the washing was allowed to run out the door of the building and onto the ground. Carlton Dep., 494:1-5. Further, because the use of hydraulic presses is necessarily a "messy" operation, Trojan regularly used solvents to clean accumulated grease and hydraulic fluid off the presses. Cunard Dep., 455:23-456:1, 456:6-9; Carlton Dep., 495:7-8

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В. Trojan's Storage of Live Waste

(solvents were used at Trojan).

Generally, the live waste stored at Trojan consisted of production waste, "off-spec product" manufactured at Trojan, returned firework items, and damaged or faulty imported firework material. Ex. 10116; Autote Dep., 529:7-530:2. Most of the live waste from Trojan's operations was kept in Building 10 (identified as such on exhibit 10841), which was designated for temporary storage. Carlton Dep., 170:13-19; 171:3-8; 206:11-19; 479:25-480:11; Veline Dep., 199:10-18 ("leftover compositions" were stored in Building 10). Once a certain amount of waste had accumulated in Building 10, it would be transported to the Fireworks Burn Pit on Pyrotronics' property for disposal. Carlton Dep., 170:13-19; 171:3-8; 206:11-19; 479:25-480:11; 488:14-489:21 (approximately three times a year a Trojan employee would transport live waste to the Fireworks Burn Pit by truck for burning); Autote Dep., 255:3-256:14; Cunard Dep., 230:9-15 (earlier some waste would be burned, and in later years, waste would be accumulated in the Building 10). During times of intense manufacturing at the Trojan facility, live waste would be removed from Building 10 and burned on a weekly basis, but if not much manufacturing was occurring at the facility, live waste could remain in Building 10 for a month before being taken up to the Fireworks Burn Pit. Carlton Dep., 484:7-16. Indeed, Mr. Autote testified that before it was destroyed in 1987, some live waste had been stored in Building 10 for approximately a decade. Autote Dep., 373:1-379:21.

After the explosion that destroyed Building 10 in 1987, Trojan stored the live waste from its operations at Bunker E-1. Carlton Dep., 484:22-487:1, 233:15-25; 234:15-22. According to the minutes of a November 12, 1987 public meeting between Rialto officials and fireworks companies, Mr. Carlton represented that Trojan was then storing 20,000 to 30,000 pounds of chemicals at the Stonehurst site. Ex. 11096. Mr. Carlton later confirmed in deposition that this material included "oxidizers and fuels and other

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additives"⁶⁹ and that the 20,000 to 30,000 pounds of such material would have been stored in Bunker E-1 at the Trojan facility in or around November of 1987. Carlton Dep., 214:13-215:4; 220:17-24. Further, according to a November 5, 1987 letter from Mr. Carlton to the RFD, 1,000 pounds of "various plant powders" were then stored in Bunker E-1. Ex. 10709; Carlton Dep., 236:9-24, 237:5-12.

Trojan also stored live waste in Bunkers B-1 and B-2. Autote Dep., 256:20-257:17; Carlton Dep., 490:20-24; Autote Dep., 555:14-20 (damaged or faulty import material was stored in the magazine). The waste stored in Bunkers B-1 and B-2 included unusable display and consumer fireworks that had been returned to Trojan. Autote Dep., 550:3-551:19.

C. Consumer Fireworks Testing

At the Stonehurst facility, Trojan tested consumer fireworks that it manufactured and consumer fireworks that it purchased from other manufacturers. The frequency of the testing of consumer items varied from once a day to once per week, depending on the volume of fireworks being purchased or manufactured by Trojan. Carlton Dep., 69:12-20. And testing was most frequent during Trojan's peak manufacturing season, from September through mid-June. Carlton Dep., 70:4-17; Carlton Dep., 69:22-70:2 (Typically two or three pieces of each item would be tested). At his deposition, Mr. Carlton testified that "[a]s long as were pressing anything" testing would occur on at least a weekly basis. Carlton Dep., 196:20-22. Similarly, Mr. Carlton testified that Trojan "thoroughly" tested all of the fireworks items that it purchased from other manufacturers. Carlton Dep., 64:25-65:15 (confirming that such testing occurred between 1977 and 1987).

When fireworks were manufactured, pressmen would typically take two or three of the fireworks made during the day for testing during the lunch break; the pressmen would light several of the manufactured fireworks "just to make sure things were going

⁶⁹ According to Mr. Carlton, oxidizers would have comprised at least ten percent of those chemicals. Carlton Dep., 223:23-224:5.

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right." Carlton Dep., 196:23-197:6. These tests were done across the driveway from the office, near the break room, on "bare earth". Carlton Dep., 196:20-197:6; 403:5-7; 403:15-16; Veline Dep., 165:14-18 (fountains and cones were tested near the factory); Veline Dep., 230:1-2 ("Niagara Falls", which contain potassium perchlorate, were tested across the driveway from the office); Veline Dep., 343:10-345:8 (leftover pyrotechnic powder from research and development operations was taken out to the testing area and burned). Powder left over from the day's fireworks manufacturing operations was also often tested in this area to ensure that the powder "burned right." Autote Dep., 91:4-92:12; Autote Dep., 248:8-251:21, 252:8-253:8 (Leftover composition containing perchlorate would be burned at the southwest corner of the site.).

In addition, imported consumer fireworks, some of which contained perchlorate, were also tested east of the B-1 bunker after Trojan received shipments of imported fireworks. Carlton Dep., 573:11-574:2. This testing area near the B-1 bunker, like the testing area near the office, was just an unpaved, unprepared dirt area. Carlton Dep., 247:17-248:25 (The ground near Bunker B-1 consisted of "a mixture of sand and rocks.").

According to Mr. Carlton, after consumer items were tested at the Stonehurst property, the "burned-out paper tubes, paper, cardboard" and other left-over material were placed in trash barrels, and then disposed of at a nearby dump. Carlton Dep., 65:16-66:1; 66:19-67:14, 201:19- 202:19. One witness, however, testified that burnt composition that remained on the ground after testing was never swept up or otherwise disposed of in any way. Veline Dep., 204:4-205:3.

D. Trojan's Testing of Aerial Display Fireworks

Trojan tested display fireworks near Bunker B-1. Autote Dep., 34:17-40:20; Carlton Dep., 247:17-22, Veline Dep., 164:15-165:12, 225:12-226:11 (Roman Candles containing perchlorate were tested in the bunker area); Autote Dep., 34:17-35:24 (in 1976 and 1977, Trojan tested Class B and C fireworks east of Bunker B-1), 38:8-19; Autote Dep., 366:18-367:22. As with consumer fireworks, Trojan always tested a few

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items from each shipment of display fireworks that it received to make sure the fireworks functioned properly. Carlton Dep., 298:3-7. For such tests, Trojan applied for and received fireworks display permits from the City of Rialto; the number of permits given to Trojan demonstrates the frequency with which Trojan tested aerial display fireworks at its Stonehurst facility. Exs. 10718, 10726 (pre-1988 public display permits); Carlton Dep., 520:11-521:25 (Public display permits were issued to Trojan for the testing of fireworks).

Witnesses have testified that unexploded "stars" containing pyrotechnic material, including perchlorate, periodically landed on the bare ground in the B-1 Bunker area after display fireworks testing. Autote Dep., 44:1-19, 47:19-49:10. And although it was known that occasionally an unexploded "star" would land on the Stonehurst property, no employee was ever assigned the duty to pick up these unexploded fireworks from the bare ground. *Id.* Trojan employees did, however, always keep buckets of water on hand during testing at the B-1 Bunker area to douse items that either malfunctioned or continued to burn after the test. Carlton Dep., 402:6-403:3.

E. Trojan's Open Burning of Waste Material

1. Fireworks Burn Pit/Pyrotronics Site

Trojan regularly utilized the Fireworks Burn Pit, located on Pyrotronics' property, to dispose of powder, defective fireworks and other live waste. Carlton Dep., 205:4-206:1; 206:4-19; Autote Dep., 278:5-15, 282:9-283:8, 284:8-286:12, 290:6-293:13 (Trojan would typically take a truckload of pyrotechnic waste and damaged or defective fireworks to Pyrotronics to be burned). Trojan's use of the Fireworks Burn Pit likely began in the 1980s; before then, in the late 1970s, Trojan routinely burned its waste material on the bare ground in the B-1 Bunker area. Carlton Dep., 333:24-334:3; 334:14-19; Autote Dep. 38:8-19; 71:6-20; see Ex. 10985 (aerial photograph on which Mr. Autote identified the B-1 Bunker area). Mr. Carlton recalled that during his eleven-year tenure at Trojan, waste from Trojan's Stonehurst property was taken to the Fireworks Burn Pit every month or two. Carlton Dep., 205:17-206:19. And in one instance, Trojan sent an entire shipment of "Whistle Petes" from Taiwan for burning at the Fireworks Burn

Pit due to a 20 percent failure rate of the products that were tested.⁷⁰ Carlton Dep., 205:4-16; *see also* Veline Dep., 247:1-248:3.

For a time in the mid-1980s, the AQMD prohibited any burning in Rialto, but shortly after the fatal explosion at Trojan in July 1987, discussed below, the AQMD allowed Trojan to resume burning its waste at the Fireworks Burn Pit. Carlton Dep., 263:9-264:12; Cunard Dep., 231:10-23 (AQMD prohibited burning in the mid 1980s). Leo Autote testified that he specifically recalled taking two full stake bed trucks stacked to the top with waste and defective fireworks during this time up to Pyrotronics Burn Pit to be burned. The Pyrotronics Burn Pit was so large, according to his testimony, that he could drive the truck right down into the pit to unload the fireworks boxes and cases before burning. Autote Dep., 291:9-292:14, 293:6-13, 295:25-296:13. During the time that the AQMD prohibited burning, the Rialto Fire Department could have permitted the burning of waste by Trojan, and the other fireworks companies in Rialto, but the Rialto Fire Department declined to do so, and as such, Trojan and the other Rialto fireworks companies were required to stockpile large amounts of live waste which included perchlorate. Carlton Dep., 556:19-559:4.

2. Bunker B-1 burns

In addition to burning its live waste at the Fireworks Burn Pit, Trojan also routinely burned waste firework materials in the area around Bunker B-1, where Trojan also tested display fireworks throughout the duration of its Stonehurst operations. Carlton Dep., 247:17-22. Mr. Carlton indicated that the Bunker B-1 location was "regularly" utilized for burns of smaller quantities of waste in the neighborhood of a few hundred pounds. Carlton Dep., 245:7-13; 245:23-246:9; Carlton Dep., 340:8-23; Veline Dep., 339:19-340:12 (defective fountains were burned at the "B-1 test site"); Autote Dep., 70:23-72:3; 89:4-11 (stars and other firework material were burned east of the B-1 bunker); Carlton Dep., 561:7-562:7. And Mr. Veline testified that on more than one occasion "bags of

Occasionally, Trojan would also send "off-spec" imported fireworks to a nearby company called Broco for disposal. Autote Dep., 535:17-539:20.

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leftover composition would be laid out in a line by the bunkers . . . and ignited and burned." Veline Dep., 248:12-249:20.

At the B-1 area, Trojan regularly stacked waste fireworks material including waste fireworks composition on the bare ground for burning. Carlton Dep., 247:23-248:10; Veline Dep., 293:22-294:15. Charred remains usually remained after burns in this location, but it is unclear if those remains were ever removed from the bare ground. Carlton Dep., 250:3-16. Trojan always had a fire extinguisher and garden hose present when conducting burns in the B-1 Bunker area, and employees used the extinguisher and hose to apply water to the burn area when necessary. Carlton Dep., 340:25-341:13.

F. Fires and Explosions

Trojan's operations were clearly sloppy and there were numerous incidents involving fires and explosions. On July 28, 1987, in one of the worst incidents, a Trojan employee, Jose Diaz, was killed by an explosion that occurred while he was believed to have been unloading wastes, including off-specification fireworks and fireworks chemicals/powder, into a storage trailer at Stonehurst. Ex. 10111 (newspaper article regarding explosion); Ex. 10112-3 (fire incident reports); Autote Dep., 368:20-371:24. Because Trojan had been prohibited by the AQMD from burning live waste, they had accumulated "quite a lot of it, much against our own will" in Building 10, which was "overstocked" at the time of the explosion. Carlton Dep., 243:16-23; 254:2-5; 421:8-25; see also Autote Dep., 373:1-379:21 (containers of pyrotechnic waste, some of which likely contained perchlorate, were stored in Building 10); Cunard Dep., 258:17-259:1 (Building 10 was filled to capacity with excess powder and defective fireworks).

Indeed, before the explosion in 1987, Trojan's manufacturing operations were producing perchlorate containing products such as "Stars" and "Nite Howlers", among others, and Trojan was generating a couple of pounds of live waste per day in 1987 as a result of its manufacturing operations. Carlton Dep., 423:3- 426:17. Because of the AQMD's prohibition on burning, Trojan had no way to dispose of this newly generated waste, and it was, therefore, sent to the already full Building 10 for storage. Carlton

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Dep., 426:11-17 (The live waste in Building 10 at the time of the explosion contained perchlorate.). Mr. Autote also testified that much of the older waste in Building 10, which had been stored there for approximately ten years, was never burned because no one knew what type of pyrotechnic waste it was, and thus, Trojan thought it safest to leave it undisturbed in Building 10. Autote Dep., 384:1-385:16. As such, in 1987, Building 10 had become a virtual bomb.

The 1987 explosion destroyed several buildings and storage trailers, and burning fireworks debris was scattered for hundreds of feet around the plant and outside the boundaries of the plant, causing local brush fires as well as setting several nearby buildings on fire. See Ex. 10111 (newspaper article regarding 1987 explosion); Ex. 10119 (letter from Carlton regarding explosion); Autote Dep., 392:13-396:17. Mr. Autote testified that, after the explosion, he attempted to extinguish several fires in the vicinity of Building 10 with a hose, but gave up after the City of Rialto Fire Department arrived at the scene. Autote Dep., 370:2-371:5. After the explosion, Building 10 was completely destroyed and all that remained was "a hole." Autote Dep., 397:11-22. Some of the material in stored in Building 10, however, was "propelled during the explosion", and as such, not all the material in Building 10 was consumed in the explosion. Autote Dep., 397:23-399:6.

A City of Rialto Fire Department report concluded that overstocked and improperly stored firework wastes and management negligence in employee training led to the accident. Exs. 10112-13 (RFD fire reports). Mr. Carlton concurred that Trojan "certainly [had] careless management", improperly stored hazardous materials, and stored an inordinate amount of live waste in the building, but he maintained that this was forced upon Trojan by AQMD's refusal to let it burn accumulated waste. Carlton Dep., 261:10-262:9; see also Carlton Dep., 354:9-18 (acknowledging that OSHA issued violations to Trojan after 1987 explosion).

In another incident, two employees were treated for injuries as a result of the August 4, 1981 ignition of a metal bowl of fireworks composition in a finishing room at

the Stonehurst facility. Ex. 10070 (August 7, 1981 fire report); Autote Dep., 360:9-22 (two employees were injured). Mr. Autote testified that, after he saw the fire, he immediately grabbed a hose and began to apply water to the fire. Autote Dep., 358:21-359:25. In an effort to avoid this type of accident in the future, Trojan discontinued the use of the metal bowl, which was thought to be the cause of the fire. Autote Dep., 363:10-25. In yet another incident, a Trojan employee had to be treated for burns to his hands after a pyrotechnic device that he was working on ignited. Carlton Dep., 336:25-338:7; Ex. 10717.

VI. RDF HOLDING COMPANY

In September 1988, RDF Holding Company ("RDF Holding") acquired all of Pyrotronics' fireworks assets, including those in Rialto, out of bankruptcy. (Ex. 10069); Kwan Dep., 36:14-37:12; 358:5-12. RDF Holding also acquired 62-acres on the northern portion of the 160-acre parcel by Grant Deed dated December 7, 1988, but the property was subsequently transferred to Mr. Wong Chung Ming, who assisted RDF Holding with the acquisition by purchasing the property for \$3.7 million. Ex. 10163; Kwan Dep., 35:2-16, 81:1-82:25; 113-14; 238:12-23. Mr. Wong continues to own the property to the present day, and it is currently leased to two other fireworks operators, one of which, APE, ultimately acquired RDF Holding Company's assets (and by extension the former assets of Pyrotronics). Kwan Dep., 80:6-81:15.

RDF Holding was formed by David Seto and Victor Kwan for the purpose of acquiring Pyrotronics from the bankruptcy court. Kwan Dep., 19:2-12; 19:22-20:3. Messrs. Kwan and Seto originally intended to continue running Pyrotronics' fireworks business, but the withdrawal of certain Chinese investors from a planned joint venture caused them to sell the Pyrotronics' fireworks' division shortly after it had been acquired. Kwan Dep., 32:22-24; 187:4-14.

The best picture of RDF Holding's short lived operations is provided by Margot Cartagena, who began working for Pyrotronics in 1980, then worked for RDF Holding, and continued on as an employee of Pyrodyne American Corporation and ultimately

APE until approximately 2002.71 According to Ms. Cartagena, when RDF Holding acquired Pyrotronics' fireworks division, there was still "quite a lot" of fireworks inventory on hand, including off-specification fireworks awaiting disposal in Building 51 and consumer fireworks for resale that were stored in the four main warehouses. Cartagena Dep., 278:1-280:1. There were also raw chemicals left over "in many different buildings" at the facility. Cartagena Dep., 33:4-9; 35:1-11. While she worked for RDF Holding, Ms. Cartagena made plans to purchase fireworks in Asia, cleaned up the property, including the portion where Apollo manufactured, and repaired some of the buildings. Cartagena Dep., 34:24-35:7. She also testified that RDF Holding burned on-site some of the offspecification fireworks contained in Building 51, and this testimony is supported by documentary evidence. Cartagena Dep., 280:23-281:15; Ex. 10159 (October 1988 burn of hazardous wastes); Ex. 10161 (November 1988 burn of fireworks material); Ex. 10439 (December 1988 burn); Ex. 10875 (10/30/1988 Application and Permit to Burn).

The raw chemicals (including perchlorate) present at the facility when RDF Holding began operating were left-over from Apollo's 72 defunct manufacturing operations. Ms. Cartagena had observed these same chemicals on-site in the fall of 1987, when she became manager for Pyrotronics (which by then had declared bankruptcy) and began to cleanup the facility. 73 Cartagena Dep., 308:21-310:7; 311:3-8. But she was given no direction from her general manager, Mr. Apel, to dispose of the

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⁷¹ On September 30, 1988, Margot Cartagena was "terminated" by Pyrotronics; the very next day, October 1, 1988, she was "rehired" by RDF Holding, for whom she worked until January 20, 1989, when RDF Holding terminated her because its assets had been acquired by Pyrodyne American Corporation ("Pyrodyne"). Cartagena Dep., 34:24-35:1, 278:1-7 and Ex. 1014; see also Kwan Dep., 42:5-43:5 (Cartagena performed same job for RDF Holding that she had for Pyrotronics). In addition to Ms. Cartagena, RDF Holding also hired all of the other employees that had been working for Pyrotronics in Rialto. Kwan Dep., 30:12-25; 47:13-48:2.

⁷² It is not clear exactly when Apollo's manufacturing ceased. Mr. Hescox testified that the production of consumer fireworks such as cones and base fountains continued after Pyrotronics declared bankruptcy. Hescox Dep., 512:23-513:16, 548:13-549:11.

In fact, these were the same chemicals that Mr. Apel had ordered Ms. Cartagena to omit from the company's Hazardous Materials Business Plan, as discussed above. Cartagena Dep., 376:1-23.

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chemicals, and in light of the fact that Pyrotronics was in bankruptcy, it apparently did not have, or at least did not wish to allocate, funds for proper disposal. Cartagena Dep., 318:16-21, 322:3-16; 322:23-323:6. Nothing was done by RDF Holding either. It was not until APE's predecessor Pyrodyne American Corporation ("Pyrodyne") acquired RDF Holding several years later that Ms. Cartagena received "authorization to go and contact someone for the disposal" of the raw chemicals. Cartagena Dep., 322:23-323:6.

On January 20, 1989, RDF Holding Company's consumer fireworks assets were purchased for \$1 million by Pyrodyne, which began operating on the 160-acre parcel. Kwan Dep., 56:4-15 and Ex. 1325; Kwan Dep., 59:7-10. RDF Holding sold to Pyrodyne the "whole package" it had purchased from Pyrotronics, which included consumer fireworks, equipment (including fireworks presses), fireworks stands, and trademarks. Kwan Dep., 58:3-23; 59:14-60:10; 340:11-20; 341:7-14. In 1990, Pyrodyne's name was changed to American West, Inc., and later to American West Marketing, Inc. On February 1, 1995, American West Marketing, Inc. and Freedom Fireworks, Inc., merged into APE, which acquired all of their respective assets and liabilities.⁷⁴ APE's operations continue to the present day, and are discussed below.⁷⁵

After Pyrodyne's acquisition of RDF Holding, in early 1990, efforts were finally initiated to dispose of the above-referenced chemicals that were left over from Apollo's manufacturing operations. Cartagena Dep., 330:10-22. Ms. Cartagena contacted Findly Chemical Disposal, Inc. ("Findly") by letter of January 2, 1990⁷⁶, seeking a quote for the

Because the entities that acquired Pyrotronics' consumer fireworks assets ultimately merged into APE, as described, APE may be the successor to Pyrotronics' liabilities. Discovery is ongoing in this regard.

⁷⁵ It should be noted that the Pyrotronics' consumer fireworks that were acquired by RDF Holding were ultimately distributed by APE. Cartagena Dep., 281:17-282:1. APE also acquired all of the material in Building 51, which it ultimately disposed of in the same manner that Pyrotronics had when it was operating. Cartagena Dep., 282:2-18. Further, shortly after Pyrodyne's acquisition, certain equipment on hand at the facility was inventoried and ultimately sold to an individual; with the money going to Pyrodyne/APE. Cartagena Dep., 441:2-442:7.

The letter is dated January 2, 1989, but Ms. Cartagena's testimony makes clear that it was actually sent on January 2, 1990. Cartagena Dep., 328:25-329:16; 330:6-9.

1	disposal of several listed chemicals including 233 pounds of ammonium perchlorate.
2	Ex. 10166. Findly responded with a proposal on January 15, 1990. Ex. 10193. But
· 3	Findly's services were not ultimately used. Instead, according to Ms. Cartagena,
4	Longhorn Fireworks, a manufacturer in New Mexico, picked up some of the chemicals.
5	Cartagena Dep., 354:10-355:2; 359:11-360:3; 688:22-689:12; see also Mergil Dep.,
6	156:11-25 (recalls men "with suits and masks" coming to the facility to retrieve leftover
7	chemicals). And, according to Ms. Cartagena's testimony, the balance was taken by an
8	individual named Dennis Manochio. ⁷⁷ Cartagena Dep., 361:5-362:1. It is unclear what
9	ultimately happened to these chemicals, but Ms. Cartagena acknowledged that
10	Pyrodyne ended up saving about \$15,600 by finding an alternative to hiring Findly for the
11	disposal and this pleased Ms. Cartagena and presumably her employer, RDF Holding.
12	Cartagena Dep., 377:8-15, 381:4-16.
13	VII. AMERICAN PROMOTIONAL EVENTS, INC. – WEST
14	American Promotional Events, Inc. – West ("APE") is one of the largest importers

S, INC. – WEST

Vest ("APE") is one of the largest importers and distributors of consumer fireworks in the United States. APE, through its predecessors, began operating on the northern portion of the 160-acre parcel in 1989 and continues to do so today pursuant to a lease with property owner Wong Chung Ming.

Α. APE Handles a Large Volume of Potassium Perchlorate-Containing Consumer Fireworks on the 160-acre Parcel

Documents and witness testimony establish that a substantial number of consumer fireworks are received and maintained at APE's Rialto facility. Many of these products contain potassium perchlorate, (see, e.g., Cartagena Dep., 154:15-155:14, 429:16-430:7; Cunard Dep., 550:3-7), as reflected in "chemical composition" sheets for

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 $^{^{77}}$ Ms. Cartagena testified that she did not know Mr. Manochio, but that he was a collector of fireworks labels who had come to the plant seeking leftover labels from Apollo. Allegedly, during the course of this conversation, Ms. Cartagena mentioned the leftover chemicals, and Mr. Manochio happened to agree to take them for use in his own fireworks manufacturing. Cartagena Dep., 361:5-371:10. Mr. Manochio passed away in 1993 and has not testified in connection with this litigation.

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each firework received that indicate the percentage of various chemicals contained in a particular firework item. Ex. 10354 at USEPA003202, USEPA003334-335, USEPA003332-333 (71 out of 82 consumer fireworks tested by APE in Rialto in 2002 contained potassium perchlorate).

APE's predecessor reported in 1993 that it was handling up to 169,000 pounds of fireworks per year; a Hazardous Materials Inventory Form in 1998 stated that 320,000 pounds of consumer fireworks were on site; and a Business Emergency Plan submitted by APE to the County of San Bernardino in 2004 estimated that, on average, 175,000 pounds of "pyrotechnic composition", or "consumer fireworks 1.4G", were stored at the facility. Exs. 18229, 10334, 11025; see also Cartagena Dep., 619:15-620:20. And in 2000, APE reported to San Bernardino County authorities that it had 400,000 pounds of pyrotechnical composition on hand, (Ex. 10337), although this figure was "a little under estimate" according to the testimony of Ms. Cartagena, (APE's plant manager in 2000), as she believed there were times in 2000 when APE had in excess of 400,000 pounds of fireworks material on site. Cartagena Dep., 150:2-151:12.

APE's current Rialto plant manager testified that in 2006 APE received 220–250 large shipping containers⁷⁸ of consumer fireworks. Ms. Cartagena, testified that from 1989–2000 APE received at least 100 of the large metal shipping containers annually with consumer fireworks from China.⁷⁹ Cartagena Dep., 51:20–52:22. The fireworks in these shipping containers are unloaded, placed on wooden pallets, and transported to one of the four large warehouses maintained by APE in the north-east portion of the 160-acre parcel; which are numbered as Buildings 76–79 and known as the Green,

⁷⁸ Matt Wilson testified that these containers were approximately 40' x 8' x 8', and came to the facility "maxed out" with fireworks. Wilson Dep., 107:15-108:1. He further estimated that 400–700 cases of fireworks were included in a large shipping container. Wilson Dep., 108:17-23. Ms. Salinas testified that the containers were 40 feet long and 12 feet tall. Salinas Dep., 53:24-54:8.

⁷⁹ Matt Wilson, the Rialto supervisor from approximately 2001-2007, testified that some consumer fireworks were always stored at the facility during this time period, though the quantities varied over the course of the year. Wilson Dep., 75:2-9. The plant generally had its largest inventory around June 1, its smallest by June 28, and started to fill up again with returns after July 4. Wilson Dep., 187:2-9.

Blue, White and Red Warehouses. 80 See, e.g., Salinas Dep., 100:11-102:21.

B. APE Burned "Off-Specification" Fireworks On Site

APE burned damaged, defective or otherwise unsafe fireworks ("off-specification" fireworks) on the 160-acre parcel in Rialto from 1989 until at least 1993, if not later. Cartagena Dep., 48:20–50:7; Ex. 10354 at USEPA003203-3204; Wilson Dep., 147:10-148:4. A majority of the off-specification fireworks that were burned had been returned by customers after the Fourth of July but damaged during the return process. Cartagena Dep., 62:4-11; Mergil Dep., 234:25-236:10. Witnesses have testified that the return process was "a mess", as boxes full of fireworks were thrown off of trailers with loose powder spewing out. Mergil Dep., 157:8-158:19; 234:25-236:10. Some fireworks imported from Asia were also received in poor condition, and other fireworks were damaged while being handled at the facility. Cartagena Dep., 62:12-16. Loose powder that had leaked out of fireworks items being handled in APE's warehouses was also burned on-site; this material was placed in designated boxes (which included duds and other material to be burned), or into a bucket, and sent to Building 51, where it was stored until taken to the burn area for disposal.⁸¹ Cartagena Dep., 137:5-24, 138:3-20; Mergil Dep., 256:18-257:8; Hescox Dep., 522:8-13.

APE burned material on the northern portion of the property, in Fire Zone 2, at the same location Pyrotronics began using in 1968. *See supra* Section IV. Material was burned inside a section of large diameter (*i.e.*, around four feet) concrete pipe (the "Burn Pipe") laying horizontal near or on a cement pad which had been the floor of a press room destroyed in a 1968 explosion (it is not clear when the pipe was added to the burn location). Cartagena Dep., 48:20-24; 63:1-8 and Ex. 994., 129:21-23, 130:1-12; Ex. 10354 at USEPA003203-3204 and USEPA003338; Wilson Dep., 56:21-58:17:

⁸⁰ These warehouses are also used for the "repackaging" of returned fireworks and the assembly of fireworks assortments for sale to consumers. Wilson Dep., 112:24-114:21; 122:1-8; 122:13-22; 123:7-9.

⁸¹ As discussed below, after APE ceased burning such material, these boxes were kept in Building 51 indefinitely to await transport to an off-site location.

Salinas Dep., 56:13-57:25; 58:4-6. A cage, with a door to allow the insertion of material, was also built to house flying debris during the burns. Mergil Dep., 143:15-145:15; Cartagena Dep., 130:9-12; Mergil Dep., 230:25-231:10.

Several boxes⁸² containing off-specification fireworks would be placed into the Burn Pipe; then an employee would "toss a fireworks" (which were often loose "fountains") into the pipe to light the fire and "run" away from the pipe to avoid harm. Mergil Dep., 143:15-145:15, 229:11-231:16; Cartagena Dep., 63:24-64:10; 449:25-452:12. As the fire burned, additional boxes would be thrown into the pipe. Mergil Dep., 229:11-24, 230:18-21, 231:4-232:8. Videotapes of burning in this location by APE show it to be a haphazard practice generating sparks and ashes. Ex. 11219.

After a burn, the residue and ash that remained was swept up and put into 55-gallon drums, ⁸³ which were taken to the Mid-Valley Landfill in Rialto for disposal. Mergil Dep., 147:12-148:14; 232:14-23; 233:4-10; 233:13-20; 255:16-19; 260:1-16, 260:21-25, 265:13-17. Next, the Burn Pipe was hosed out with water. Mergil Dep., 349:13-350:3; Cartagena Dep., 129:8-13, 21-25, 130:1-2. Evidence conflicts as to whether this wash water ran into a sump or simply remained in the pipe and the burn area until it dried up. Mergil Dep., 350:5-7, Cartagena Dep., 131:13-16. Before the workers went home, water was also applied to the smoldering ashes that remained in the pipe at the end of the day, to ensure the material "was well-enough saturated so there was no more fire hazard." Cartagena Dep., 214:12-215:11; 454:22-455:9.

APE generally burned material at this location at least once or twice a month, depending on the weather, with three to five boxes typically burned each time. Mergil Dep., 258:9-25; Cartagena Dep., 120:5-9 (frequency of burns "all depended on the weather."). Weather permitting, burns might be conducted several times a week during

⁸² Cardboard boxes to be sent to the Burn Pipe were sealed with red tape; which differentiated them from boxes containing usable merchandise. Cartagena Dep., 85:1-15. These boxes, which were approximately 18" x 20", were stored in Building 51. Cartagena Dep., 85:16-25; 451:12-22.

When the drums were returned from the dump, they were also washed out with a hose at the Burn Pipe location. Mergil Dep., 261:14-262:2.

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the fireworks season in July. Cartagena Dep., 120:10-24. The sizes of the boxes varied, and so the weight of the material burned was estimated and recorded. *Id.*; Mergil Dep., 229:13-19.

September through November, as there was always material on hand to be burned after

APE's burning of off-specification fireworks was sanctioned by both the City of Rialto Fire Department and the SCAQMD, and documentary evidence indicates that a substantial amount of waste material was burned during this time period. Exs. 10168, 10167, 10173, 10174, 10175, 10176, 10180, 10182, 10184, 10185, 10186, 10191, 10226, 10227, 10230, 10231, 10232, 10233; Mergil Dep., 122:22-123:6; 135:15-136:7, 125:17-126:6. During his tenure, Mr. Mergil was responsible for notifying the fire department prior to conducting burns on site, and he would call the City of Rialto Fire Department to notify it that a burn was going to take place after ensuring with the airport that it was not too windy for a burn to go forward. Mergil Dep., 348:6-25.

Consultants working for APE sampled the Burn Pipe location in 2003-2004 and detected perchlorate.

C. APE Regularly Tests Consumer Fireworks at the Rialto Facility

APE and its predecessors have routinely tested consumer fireworks in Rialto since Pyrodyne purchased RDF Holdings' consumer fireworks assets in 1989. To this day, APE continues to conduct these tests on a steel table, placed on top of three or four wooden pallets in an unpaved, gravel area located behind the main office on APE's leasehold.⁸⁴ Cartagena Dep., 164:11-23; Vanderford Dep., 113:22-114:8; 114:14-17; 114:22-23; 116:4-7; 116:16-21; Wilson Dep., 38:5-13 40:10-41:14; 43:24-44:8; 44:19-24; Ex. 10964; Salinas Dep., 40:21-42:12; 42:10-12; Ex. 11000. The vast majority of these fireworks contain potassium perchlorate. According to a document prepared by APE

⁸⁴ At one time, fireworks were also tested near the Burn Pipe. Mergil Dep., 170:15-171:1; Cartagena Dep., 165:2-4 ("We did a little testing at the burn site."). Mr. Mergil testified that he tested fireworks near the Burn Pipe when he had significant amount of testing to complete; otherwise he tested fireworks at the location behind the main office described above. Mergil Dep., 170:3-8, 170:15-172:2.

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and included in APE's Response to EPA's Section 104(e) Information Request, 71 out of the 82 different fireworks items tested by APE in 2002 contained potassium perchlorate in varying percentages as high as 98.68%. Ex. 10354 at USEPA003332-333.

Joanne Vanderford, who had primary responsibility for APE's consumer fireworks testing from 1995 until approximately 2006, testified that fireworks were tested from September through May of each year and at least once every other week, although during peak season fireworks could be tested more than once per week and for up to five hours per day. Vanderford Dep., 32:18-33:25, 233:24-234:6. Noree Salinas took over Ms. Vanderford's testing responsibilities in or around 2006; she testified that a portion of each fireworks shipment APE received was tested, except for items that had already been tested, with shipments arriving in Rialto between September and April. Salinas Dep., 44:24-45:24; 48:2-15. Multiple witnesses have testified that APE always tested items imported from China within ten days of their receipt and before any were distributed to consumers. Vanderford Dep., 166:10-19; Cartagena Dep., 55:15-25 (each batch of fireworks received from China was tested); Cartagena Dep., 86:12-13 (fireworks usually tested within a couple days of receiving a shipment); Mergil Dep., 168:24-169:1, 173:16-19 (during Mr. Mergil's tenure, under the auspices of Red Devil/Pyrodyne, fireworks imported from China were tested "[e]very time a shipment came in.").

No specified amount of each shipment was tested, and it appears that the frequency of testing has varied over the years. During Ms. Cartagena's tenure, APE's policy was to test each item that was received; and she typically tested 12 pieces from each shipment. If there were problems, 12 more were tested; if the problems persisted, even more would be tested. Cartagena Dep., 165:13-21, 167:14-16. According to Ms. Vanderford, the number of tests varied with the items received. New items were tested at the standard level; items that had passed previous tests received less scrutiny; and items that had failed in the past were subject to more rigorous testing. Vanderford Dep., 208:24-209:4. Ms. Salinas testified that she retains discretion with respect to the amount of each item she tests, and views her testing as a quality control check of testing now

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done by the AFSL in China before products are sent to the United States. Salinas Dep., 55:5-56:3; see also Wilson Dep., 223:6-16 (Because fireworks are now tested by the AFSL before being sent from China, APE has reduced the frequency of testing in Rialto). After internal testing by APE, items were sent to Sacramento for testing by the State Fire Marshall before being sold to consumers. Vanderford Dep., 238:25-239:5.

Videos of fireworks testing at APE in the late 1990s reveal it to be a dirty process that generates sparks, ash and other debris, with ashes swept from the test stand onto the bare ground below. Exs. 10304, 10300, 10310, 10314. The spent firework item that remains after a test is placed in a 55-gallon drum to cool down, and then put in the regular trash for disposal at the "local dump" - the San Bernardino Mid-Valley landfill adjacent to the facility. Wilson Dep., 41:15-21, 241:16-243:2; Salinas Dep., 44:6-23; 200:25-202:1. Residue and ash resulting from the testing is also placed in the abovementioned drum for disposal in the regular trash. Wilson Dep., 42:2-7, 43:2-12.

Items that failed testing were pulled out of one of the regular storage warehouses and transported by forklift to Building 51, where they were maintained while the RFD sought approval to burn them. Cartagena Dep., 86:12-17, 88:6-8; 169:4-19. But "most of the time we did not have a burn permit so we could not even burn in there. So we just stored it in Building 51." Id. The storage of such material in Building 51 is further discussed below.

To date, APE's consumer fireworks test site has not been sampled for perchlorate.

APE's Accumulation of Off-Specification Fireworks and Floor D. Sweepings in Building 51

APE has acknowledged that it now stores fireworks that are damaged, defective, wet, failed testing, or are otherwise unusable ("off-specification" fireworks) in Building 51, and that it has done so since at least 1994. Ex. 10354 at USEPA003200-201; Cartagena Dep., 86:12-17, 88:6-8; 623:20-624:22; see also Cunard Dep., 511:14-25.

Similarly, sweepings⁸⁵ collected from the warehouse floors are placed into boxes located at the end of the bay door of each warehouse, and these boxes are also taken to Building 51 to await disposal.⁸⁶ Salinas Dep., 114:2-116:5; Wilson Dep., 144:22-145:18; Cartagena Dep., 137:5-24, 138:3-20; Mergil Dep., 256:18-257:8; Hescox Dep., 522:8-13. Off-specification fireworks from APE's Norwalk facility have also been sent to Rialto for storage in Building 51 on at least one occasion to await "disposition of the bad product."⁸⁷ Cartagena Dep., 579:18-580:1. Because APE has not been permitted to burn this material since approximately 1994, it now sits in Building 51 for extended periods of time with no regular plan for its ultimate disposal, ⁸⁸ and it is unclear what has happened, or will happen, to some of this hazardous material.

There is evidence that APE shipped off-specification material held in Building 51 to California City, California, to be disposed of in a large burn held by the State Fire Marshall on November 7, 1998⁸⁹, and that off-specification material was similarly sent to a burn at the city dump in Santa Maria, California in November 1995. Exs. 10354 at USEPA003204, 1120; Cartagena Dep., 176:5-21, 401:12-17 (one truckload of APE merchandise taken to Santa Maria). Records indicate that APE sent **40,570 pounds** of

⁸⁵ These sweepings can contain perchlorate, as, for example, witnesses have testified that loose fireworks powder fell onto the floor of the warehouses while arrangements were being prepared for sale. Mergil Dep., 162:13-163:9.

⁸⁶ According to the current plant manager, Ms. Salinas, APE had about four or five of these boxes in Building 51 in January 2007. Salinas Dep., 116:11-13; 116:16-117:4.

⁸⁷ Ms. Cartagena did not know who decided to send such material from Norwalk to Rialto, but she was unhappy about it because she did not "want problems" and "all duds are problems." Cartagena Dep., 580:23-581:14.

⁸⁸ For example, APE's current warehouse manager testified that she does not know what APE intends to do with certain illegal fireworks, "rework items", and/or damaged or defective fireworks currently maintained by APE in Building 51. Salinas Dep., 133:6-134:2; 135:6-17; 136:15-22

Prior to this burn, APE was "crying about the fact that we could not burn no longer on the property for quite some time", and material was therefore accumulating in Building 51 because AQMD would not allow open burning. Cartagena Dep., 415:20-25, 416:7-16. The shipment to California City consisted of all fireworks for which APE had authorization to burn, as well all damaged product on hand, although it did not completely empty Building 51. Cartagena Dep., 418:8-21. After the burn, such material began to accumulate again. Cartagena Dep., 420:17-19.

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consumer fireworks (1,885 cases) to the burn in California City. Ex. 10466. APE also returned several shipping containers with defective fireworks back to the manufacturer in China; with estimates ranging from two containers to eleven. Cartagena Dep., 176:5-21. These shipments were apparently sent in between the California City and Santa Maria burns. Cartagena Dep., 464:13-465:1.

Ms. Cartagena, who was APE's plant manager from 1989 through 2002, testified that aside from the material sent to California City, Santa Maria or China, a substantial portion of the remaining off-specification material simply sat indefinitely in Building 51, which housed "years" of defective fireworks product. Cartagena Dep., 177:11-20. Some of the off-specification material was burned during that time period, but not a large amount. Cartagena Dep., 176:5-25. When Ms. Cartagena left APE in 2002, Building 51 — which measures 4,000 square feet — was eighty percent full with accumulated defective fireworks. Cartagena Dep., 177:21-178:22.

APE employees have testified that in 2005 APE sent six to seven truckloads of material from Building 51 to APE - East's headquarters in Florence, Alabama. But there appears to be no written record of the contents of these shipments, which were sent without a hazardous waste manifest and therefore constituted an unlawful transport of hazardous wastes. Salinas Dep., 137:11-20; 139:15-18; 139:24-140:15; Wilson Dep., 86:25-88:7. Even Ms. Salinas, who oversaw the loading of material from Building 51 onto the Florence-bound trucks, was unaware of exactly what type of material was being shipped. Salinas Dep., 137:22-138:7; 141:18-142:4. It is unclear what was done with this material after its arrival in Alabama. Salinas Dep., 143:16-18; Wilson Dep., 88:8-10. As of February 8, 2007, there had not been a single off-site transport of material from Building 51 since the shipment that was sent to Florence, Alabama in 2005, although off-specification material has since continued to accumulate. Wilson Dep., 88:18-89:6; 90:16-24; Wilson Dep., 145:14-146:3; 146:6-19; Salinas Dep., 145:3-12.

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E. Allegations That Ms. Cartagena Intentionally Buried Drums On the 160-acre Parcel

On June 11, 2002, an anonymous individual informed the Regional Board that he had been directed by Ms. Cartagena to bury forty drums containing fireworks waste material (including perchlorate) at the 160-acre parcel in 1982. Ex. 10463 (Affidavit in Support of Search Warrant). Kenneth Ayers of the County of San Bernardino District Attorney's Office investigated this allegation and ultimately submitted an Affidavit in support of a search warrant seeking to locate these drums. A search warrant was issued by the San Bernardino Superior Court on November 5, 2002. *Id.*; Ex. 11234. According to the informant, the drums were buried because Apollo was closing and needed to get rid of its accumulated waste. *Id.*

Mr. Ayers spoke with Ms. Cartagena on multiple occasions during his investigation, and she told him that if the drums were buried at the property they would have to be located behind the old maintenance building, as water hydrants and water lines would preclude burial in other locations. Cartagena Dep., 334:20-335:11, 345:22-349:14; Exs. 10435, 10460. The alleged burial site identified by the informant (as stated in the Affidavit) was in the same location described by Ms. Cartagena; however, the County searched this location and could not locate any drums. Cartagena Dep., 340:8-341:4; Wilson Dep., 131:3-132:17; 136:3-16; Salinas Dep., 166:8-17; 167:13-20; 167:24-168:1; 169:24-170:1.

Ms. Cartagena testified that she knew nothing about the alleged incident and had never ordered anyone to bury drums. Cartagena Dep., 337:1-5, 352:13. Mr. Mergil, who was also interviewed by Mr. Ayers as part of the investigation, 90 stated that he was not personally aware of any drums being buried, but had heard that employees at one time had discovered drums which must have been buried at an earlier time, although he had

⁹⁰ Ms. Cartagena told Mr. Ayers that the only person she felt might fit the limited description provided of the individual who allegedly ordered the drums to be buried – someone employed by Apollo for fifteen to eighteen years – was Pedro Mergil. Cartagena Dep., 350:24-351:15.

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not seen them and did not know what happened to them. No other witness has come forward with information pertaining to the allegations of intentionally buried drums at the 160-acre parcel.⁹¹

The buried drums uncovered by Ken Thompson's contractors in 1987 while excavating for his building have never been correlated by the County of San Bernardino, the City of Rialto or the Regional Board with the allegations of buried drums at the facility.

VIII. <u>DISPOSAL OF CONFISCATED FIREWORKS BROUGHT TO THE 160-ACRE PARCEL BY THE CITY, COUNTY, AND STATE</u>

Included among the off-specification fireworks that have been stored and disposed of through open burning on the 160-acre parcel are confiscated fireworks sent to the 160-acre parcel by officials from the City of Rialto (including the Fire and Police Departments), the California State Fire Marshall, and the County of San Bernardino.

Several witnesses have confirmed that confiscated fireworks brought to the facility by City officials were disposed of in the Fireworks Burn Pit. Apel Dep., 288:5-21; Shilling Dep., 414:2-11, 414:15-21; 416:18-25. On one occasion, an entire truckload of confiscated fireworks brought to the 160-acre parcel by the City were burned at the Fireworks Burn Pit. Apel Dep., 288:5-21. The City of Rialto Fire Department also brought confiscated fireworks that were burned at the Burn Pipe. Mergil Dep., 250:3-11. Mr. Mergil testified that a uniformed fire marshal from the City of Rialto Fire Department would drive onto the facility in an City of Rialto Fire Department pickup truck to arrange for the burning of confiscated fireworks; which were contained in boxes marked to indicate that they contained "illegal fireworks from fire department." Mergil Dep., 250:18-251:16, 251:24-252:13, 253:10-254:24. Boxes designated as such were then stored in

⁹¹ A July 18, 1987 letter from C.H.J. Incorporated to Ken Thompson indicates that during sub-excavation operations on the southern portion of the 160-acre parcel, "deteriorated metal barrels were uncovered", and that the soil was stained and a distinct smell was present in that area. The letter indicated that the County Department of Environmental Health and the RFD were notified, and that no determination had yet been made regarding the content of the substance in the drums. Ex. 11121.

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Building 51 on-site (along with other off-specification fireworks and pyrotechnic powder), before they were apparently taken to the Burn Pipe for disposal. ⁹² *Id.*, Mergil Dep., 255:16-256:12. Confiscated fireworks included Roman Candles and bottle rockets. Mergil Dep., 315:9-12, 319:9-16.

According to Enselmo Gutierrez of the City of Rialto Fire Prevention Department, Mr. Mergil picked up confiscated fireworks from the City of Rialto Fire Department (as well as those confiscated by the Rialto Police Department), and took them back to Red Devil's facility for storage; records show that material from these Departments was later disposed in the Fireworks Burn Pit. Gutierrez Dep., 146:19-156:12; 163:19-164:13; Ex. 10689; see also Shilling Dep., 416:18-25 (recalling conversations with Mr. Mergil about his receiving confiscated fireworks from the City of Rialto). For example, on December 14, 1998, Red Devil records indicate that it burned confiscated fireworks from the Rialto Police and Fire Departments. Cartagena Dep., 118:1-7 and Ex. 1000; see also Mergil Dep., 115:10-23.

There is also evidence that on several occasions the State Fire Marshall's office sent confiscated fireworks to the Pyrotronics facility for disposal. Hescox Dep., 342:24–343:1-6, 343:13-22; 346:10–347:21; 465:12–466:7. Recently, in or around 2005, seized and confiscated merchandise from the State Fire Marshall's office, in cooperation with the County, was sent to APE's facility to be stored in Building 51. This was apparently done due to DTSC's refusal to allow disposal by burning anywhere in California, and the confiscated fireworks are therefore awaiting shipment to an off-site disposal location which may include Florence, Alabama. Trout Dep., 281:7-284:8; see also Salinas Dep., 133:6-18; 205:1-8 (confiscated fireworks from the fire or sheriff department of Los

⁹² Though unequivocal about the fact that the RFD brought confiscated fireworks to the Rialto facility which were then stored in Building 51, Mr. Mergil did express some uncertainty as to whether or not these fireworks were ultimately burned on-site. Mergil Dep., 315:13-20.

⁹³ According to Mr. Gutierrez, Chief McVeitty made the decision that confiscated fireworks should be turned over to Red Devil for handling. Gutierrez Dep., 161:21-162:16.

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Angeles or San Bernardino County are currently stored in Building 51).94

IX. COUNTY OF SAN BERNARDINO AND ROBERTSON'S READY MIX

In 1999, two years after the discovery of perchlorate in the Rialto/Colton Groundwater Basin (Saremi Dep., 71:17-72:3), the Regional Board staff approved a soil washing operation on the former bunker area previously used by fireworks companies for the storage of pyrotechnic materials including oxidizers. Ex. 20325 (CAO No. R8-2003-0013 at 2). This project proposed by the County and its contractor Robertson's Ready Mix ("Robertson's") in connection with its expansion of the County's landfill. The County, through Robertson's, proposed a massive excavation project which included soil washing and the installation of four unlined settling ponds, each 200' x 250' to 350' x 10' with a capacity of 13 million gallons. Ex. 20083 (May 20, 1999 letter from Mr. Roberts to Ms. Lass).

The direct causal connection between the mobilization of massive amounts of perchlorate to the groundwater and the millions of gallons of water discharged to the settling ponds was confirmed by Mr. Thibeault during his March 16, 2007 deposition:

- Q. Do you have an opinion sitting here today whether or not it [the settling ponds] caused perchlorate to reach the groundwater underneath it?
- A. Yes.
- Q. And what is your opinion?
- A. I believe that the wash water from the aggregate operation mobilized perchlorate in the subsurface and pushed it down towards the groundwater.

Thibeault Dep., 59:24-60:6.

At first, Mr. Thibeault denied in his deposition that either the Regional Board or his staff even had any jurisdiction over the settling ponds:

Q. And in connection with that [the permitting of the settling ponds], what investigation, if any did, the

⁹⁴ APE's current plant manager testified that APE is trying to sell certain illegal fireworks that are not legal in California and that are stored in Building 51 in Texas, where she indicated they are legal.

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regional board staff conduct prior to allowing that gravel washing operation to take place?

A. Well, I think I testified to you that we don't - - I don't think we have a permitting jurisdiction.

Id. at 60:8-13. But when confronted with the July 6, 1999 letter from Ms. Lass, a Regional Board staff member, approving Robertson's request for Regional Board approval of the unlined settling ponds, Mr. Thibeault was forced to agree that Ms. Lass, on behalf of the Regional Board staff, authorized Robertson's to place the four ponds directly over historical bunker areas where it was known that fireworks manufacturers had stored materials and products containing perchlorate. Ex. 20084. He was also forced to acknowledge that Ms. Lass approved Robertson's request that these ponds be unlined. Thibeault Dep., 452:22-454:4, Ex. 20084. Indeed, Ms. Lass's letter to Robertson's unambiguously provided: "After careful review, we [Regional Board staff] have determined that the proposed project should not have any negative impact on water quality at the landfill." Ex. 20084.

Extraordinarily, this action by the Regional Board staff was taken without a public hearing, without the approval of the appointed members of the Regional Board, without the imposition of any waste discharge requirements, and without requiring confirmation that the soil in the bunker area underlying the proposed ponds did not contain perchlorate or any other hazardous material. Thibeault Dep., 435:18-438:22.

On March 14, 2001, less than two years after Regional Board staff authorized the construction of the four unlined settling ponds, the County wrote Ms. Lass a letter which advised that perchlorate was being detected in ever increasing numbers in a monitoring well immediately down gradient of the ponds. Ex. 20349. In that letter, the county reported the following increasing perchlorate concentrations:

April 2000 1.9 ppb

July 2000 10 ppb

October 2000 51 ppb

January 2001 250 ppb

Id. The County's letter asked for a prompt response. Id.

One month later, on April 17, 2001, the County wrote Ms. Lass a second letter which restated its concern about the "serious nature" of the rising perchlorate concentrations in a monitoring well down gradient of Robertson's settling ponds and urged prompt action:

The County . . . is writing this letter to advise the Regional Water Quality Control Board (RWQCB) that the concentrations of perchlorate have continued to rise in samples obtained from groundwater monitoring well F-6 at the Mid-Valley Sanitary Landfill (BVSL). Retest analyses . . . confirm that the concentration of perchlorate in groundwater samples obtained in January 2001 ranged from about 250 to 270 micrograms per liter (ug/l). Before the latest detections, perchlorate was measured at 51 ug/l on October 2000.

The [County's] SWMD is currently arranging meetings to discuss the current conditions with the aggregate processing contractor, and would like to meet with the RWQCB staff as soon as possible to discuss the same subject. . . . Please be assured that [County's] SWMD recognizes the serious nature of the current data and is committed to investigating the source of the impacts at well F-6.

Ex. 20101.

More than a year later, on September 26, 2002, within days of the Regional Board's order rescinding for lack of proof Mr. Thibeault's CAO R8-2002-051 which sought to place all responsibility and liability for the perchlorate release to the Rialto/Colton Basin on Kwikset and Goodrich, Mr. Thibeault ordered the County to investigate the releases of perchlorate to the groundwater (then at a concentration of 800 ppb) mobilized by Robertson's settling ponds. What had heretofore remained hidden by the Advocacy Team was suddenly disclosed; the County had become the staff's new target. Mr. Thibeault wrote:

The evidence indicates that the bunkers adjacent to the MVSL [Mid-Valley Sanitary Landfill] were used for storing explosives, ordinance, propellant, and pyrotechnic chemicals (including perchlorate salts), on property that now belongs to the County. . . . In addition, gravel washing operations on county property may have contributed to mobilization or spread of perchlorate. Perchlorate has been detected in groundwater in groundwater downgradient of the County's

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properties (the former bunker area, and the MVSL) . . . [in] concentrations in excess of 800 ppb.

Ex. 20385 (September 26, 2002 letter from Mr. Thibeault to Mr. Miller at 2).

In January 2003, Mr. Thibeault issued CAO R8-2003-0013 which required the County to clean up the perchlorate contamination coming from its property where the settling ponds were located. What had been known by the Advocacy Team since at least April 2001, now was suddenly crystal clear: "it is evident that perchlorate is being discharged to groundwater from property that is currently owned by the County." Ex. 20325 (CAO R8-2003-0013 at 3). By January 2003, the monitoring well down gradient of the settling ponds reported a concentration of 1,000 ppb of perchlorate. Ex. 20325 (CAO R8-2003-0013 at 3).

When asked if he ever investigated the actions of his staff in connection with their permitting the unlined settling ponds, Mr. Thibeault testified that because the County had assumed responsibility for the release there was no need to deal with "those kind of issues":

- Q. Did you ever direct any investigation to take place with regard to how it came to be that these settlement ponds were allowed to go in unlined over bunker areas where there had been historical uses of perchlorate, which everyone now believes is the major source, if not the sole source, of the . . . western plume?
- A. Given that the County was very cooperative in addressing the effects of their discharge and they were doing a great job in both characterizing the plume and remediating the plume and providing replacement water, we didn't feel it was necessary to go back in and deal with those kind of issues.

Thibeault Dep., 452:3-15.

Later, during cross-examination, Mr. Thibeault changed this testimony, admitting he talked with his staff about the issue but maintained that he did not know about Ms. Lass's written approval of the unlined settling ponds:

Q. My question is to you, why hasn't the executive officer of the regional board, who has responsibility for ensuring the integrity and healthfulness of the groundwater – why haven't you undertaken an investigation of your staff . . . so that it

1	won't happen again?
2	A. Well, you're assuming that I didn't.
3	*Objection omitted*
4	Q. Did you do that?
5	A. We have talked internally about the need to – to be looking for this kind of material in the future, yes.
7	Q. And who did you talk to specifically?
8	A. All of the staff that are involved with these kinds of activities.
9	Q. Were you angry about that?
10	A. Was I angry. No.
11	Q. You weren't angry over the fact that your staff had
12	allowed the pond to go forward with inadequate characterization of the soil under the pond which resulted in
13	the discharge of I think the right word is massive quantities of perchlorate to the groundwater that have severely impacted its beneficial uses?
14	A. Okay. Well, first of all, this is the first time I've seen this
15	letter I can recall.
16	Id. at 459:6-460:9. Finally, Mr. Thibeault conceded that his staff's actions negligently
17	caused the County Release:
18	Q. And Dixie Lass' letter of June 6, 1999 permitted this settling pond operation to go forward, which resulted in
19	significant quantities of perchlorate being released to the groundwater; isn't that correct?
20	A. Yes.
21	Q. And so in that sense the mistakes that were made in
22	connection with allowing this to happen were the reason it happened isn't that correct?
23	* * *
24	A. Allowed it to happen, yes.
25	ld., 456:24-457:20.
26	Q Isn't it the case, Mr. Thibeault, that every discharge to
27	groundwater in your jurisdiction is something of concern to the staff and the regional board itself?
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A. Yes.

Q. And any proposed discharge to the groundwater requires careful investigation to determine whether or not it's potentially harmful to the beneficial uses; isn't that correct?

A. Yes.

Q. And that wasn't done here, was it?

A. It wasn't careful enough.

Id., at 463:7-18.

THE REGIONAL BOARD'S DECISION TO PROSECUTE GOODRICH X.

In 1997, the Regional Board requested that its staff perform an investigation into the perchlorate contamination in the Rialto/Colton Basin. Saremi Dep., 72:6-23. Mr. Saremi, a Regional Board staff member, was given the task of conducting this investigation, but in the next five years Mr. Saremi's only attempt to identify persons potentially responsible for the perchlorate contamination in the Rialto area was a single trip to the Rialto Historical Society, which yielded a four page report, only one and half pages of which discussed Goodrich's operations in Rialto. Saremi Dep., 475:9-21. Indeed from 1997 to 2002, Mr. Saremi chose not to review any of the Regional Board files pertaining to the 160-acre site, including the McLaughlin Pit, and he did not drive to the 160-acre site, where he surely would have observed the evidence of Pyrotronics/Apollo's historical operations and APE's current operations. Saremi Dep., 85:8-88:8, 101:9-14.

After five years of this so-called investigation, the Regional Board staff had either failed, or chosen not, to discover any evidence regarding Pyrotronics/Apollo's operations, which, as demonstrated above, (1) involved the use of large amounts of perchlorate, (2) resulted in multiple fires and explosions on the 160-acre site, and (3) required the Regional Board staff's oversight in closing a swimming pool full of pyrotechnic material, including perchlorate, only ten years earlier.

Apparently frustrated with years of inaction by the Regional Board staff, on May 23, 2002, Senator Nell Soto wrote Mr. Thibeault, the Regional Board's Executive Officer. asking a number of pointed questions concerning the lack of progress by his staff in its investigation and cleanup of perchlorate in the Rialto/Colton Groundwater Basin. Ex. 20067. Senator Soto's letter specifically referenced the recently released GeoLogic Report prepared by the County and which identified various potential sources of perchlorate contamination and asked, among other questions: (1) what facilities is the Regional Board aware of as the result of its investigation, other than Goodrich and Kwikset, that are possible sources of perchlorate in the groundwater (Question 5); and (2), referencing the GeoLogic Report, "[w]hat effort had been made by the RWQCB to correlate the operations of Red Devil Fireworks and Broco/Denova to perchlorate contamination?" (Question 6.). Ex. 20067 at 2-3 (emphasis added).

On June 6, 2002, Mr. Thibeault, in response to Senator Soto's Question 5, advised the Senator that the Regional Board staff was unaware of any potential sources of perchlorate contamination other than Goodrich and Kwikset:

We are not aware of any other facilities in the vicinity of the site that have been identified as having used perchlorate, or that were subject to a related regulatory enforcement action in the past. In addition, our investigation concluded that Goodrich and Kwikset are the most likely sources of perchlorate based on the time period they operated.

Ex. 20058 at 4. And in response to Question 6, Mr. Thibeault wrote:

We have not yet pursued additional detailed investigations to correlate operations at Red Devil and Broco/Denova to perchlorate contamination. This is because the preliminary information we have indicates that these facilities may not be likely sources. However, we will attempt to obtain additional information on these sites. It appears that the assembly, storage and shipping of fireworks, and not necessarily the manufacture of fireworks, which is the type of activity that likely would have resulted in a release of perchlorate. We have no evidence of disposal or use of perchlorate at the current Pyro Spectacular facility. Based on our experience in this region, and the information obtained from perchlorate groundwater investigations that have been conducted outside of our region, it is apparent that solid rocket propellant manufacture and research facilities have generally been the primary sources of perchlorate forum in groundwater.

Id. at 5 (emphasis added). These statements were both false and misleading.

Mr. Berchtold conceded, in his deposition, that in 2002 there was information in the Regional Board's files that demonstrated that Pyrotronics/Apollo manufactured fireworks on the 160-acre site and that they disposed of significant quantities of pyrotechnic waste in the swimming pool also referred to as the McLaughlin Pit. Berchtold Dep., 328:7-20. Mr. Thibeault similarly admitted during his deposition that evidence regarding the fireworks and gravel washing operations were in his files at this time:

> Q. And so in 2002, the regional board had in its files highly relevant information about the discharge of perchlorate caused by a fireworks manufacturer; is that correct?

A. Yes.

Thibeault Dep., 146:1-5. Further, Mr. Berchtold testified that he personally witnessed several violations of Pyrotronics/Apollo's waste discharge requirements regarding the McLaughlin Pit, and on one occasion when Mr. Berchtold was inspecting the Pit, he noted there was no freeboard on the Pit and that, due to rainfall, the Pit had actually overflowed on to the surrounding area. Berchtold Dep., 153:11-14, 176:3-25, 179:4-17; see also Berchtold Dep., 164:10-175:20 (descriptions of other Pyrotronics/Apollo WDR violations). Contrary to Mr. Thibeault's representations to Senator Soto in 2002, the Regional Board staff was actually intimately aware of "other facilities in the vicinity of the site that have been identified as having used perchlorate." Ex. 20058 (June 6, 2002 Letter from Mr. Thibeault to Senator Soto).

Nevertheless, Mr. Thibeault did not report to Senator Soto that he, Mr. Berchtold, and Mr. Holub, all current members of the Advocacy Team, had been aware for many years of Pyrotronics/Apollo's fireworks manufacturing operations on the 160-Acre Site, the disposal of thousands of gallons of Class 1 hazardous wastes at the McLaughlin Pit that contained perchlorate, and his and his staff's decision to allow its closure without compliance with Subchapter 15 of the State Water Board's regulations.

Moreover, Mr. Thibeault made no reference to the County's soil washing operation even though more than a year before Mr. Thibeault's June 6, 2002 letter to

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Senator Soto, the County reported to Ms. Lass rising concentrations of perchlorate (250-270 ppb in January 2001) in a monitoring well downgradient of Robertson's aggregate washing operations and settling ponds, and urged prompt action. Ex. 20349 (March 14, 2001 letter from Mr. Rivera to Ms. Lass). Nor did Mr. Thibeault mention that his staff had approved the settling ponds without liners or that in his opinion his staff had negligently caused this release. Thibeault Dep., 456:24-457:20, 463:7-18.

Mr. Thibeault's omission of these critical facts regarding confirmed sources of perchlorate contamination in the Rialto area is especially troubling given that the Regional Board's own files are the best evidence of the 16 years of fireworks manufacturing and disposal practices on the 160-Acre Site. Even if the Regional Board staff members somehow forgot their personal involvement with the McLaughlin Pit and the gravel washing operations by June 2002 when Mr. Thibeault (with his staff's assistance) wrote Senator Soto, certainly, those memories were refreshed by the evidence provided in the April 2002 GeoLogic Report, which identified numerous possible sources of the alleged contamination, including Pyrotronics/Apollo's manufacturing operations and the McLaughlin Pit. Ex. 20068 (April 2002 Environmental Audit Report).

On June 8, 2002, Mr. Thibeault, Mr. Berchtold, Mr. Holub, Ms. Sturdivant, and Mr. Saremi, all members of the Advocacy Team, met with Senator Soto and her staff to discuss the progress of their investigation. During this meeting, Senator Soto expressed outrage at the Regional Board staff's failure to timely identify the parties responsible for the Rialto area's perchlorate contamination and even threatened to have Mr. Thibeault fired because of the lack of progress by the staff. Saremi Dep., 110:25-113:9; Ex. 20074 (e-mail from Mr. Thibeault to Regional Board). On June 11, 2002, Mr. Thibeault wrote a detailed e-mail to the members of the Santa Ana Regional Board summarizing his meeting with Senator Soto, including her threats to have him fired:

The Senator said that she was thinking of going to the Governor and ask why he had me working for the Board, since I obviously didn't know what I was doing. She said that

she was going to get to the bottom of this matter, and if necessary, she would hold Senate hearings.

Ex. 20074 at 1. Mr. Thibeault confirmed at his deposition that he felt threatened by the Senator's comments. Thibeault Dep., 191:11-22.

In his e-mail to the members of the Regional Board, Mr. Thibeault attempted to deflect attention from the evidence regarding the McLaughlin Pit in the GeoLogic Report, which, if examined, would lead directly back to staff negligence. He wrote that:

[It] added very little to what [staff] already knew of responsible parties. . . [and that while] . . . [t]here have been a number of fireworks manufacturers at the site since Goodrich left, but information to date indicates that these were just fireworks assembly companies, and that no actually [sic] manufacturing took place where perchlorate-containing liquids would have been present.

Ex. 20074 at 2. This statement was demonstrably false, as Pyrotronics/Apollo was one of the largest manufacturers in the 1970s and 1980s of fireworks in the United States. Mr. Thibeault then continued: "[w]e are still looking into this, but there simply is not enough (or any) information that would stand reasonable scrutiny in naming any of these operators yet." *Id.* The record is clearly to the contrary; as demonstrated above, the Regional Board staff was, at this time, in possession of extensive evidence relating to Pyrotronics/Apollo's Rialto operations. *See* Berchtold Dep., 81:12-16 (staff did not inform the Regional Board of Pyrotronics' operations or its use and disposal of perchlorate at the 160-acre site).

Further, in the most telling section of the email to the Regional Board, Mr.

Thibeault cautioned that if the fireworks companies were now pursued it might "muddy the waters" of his purported case against Goodrich and Kwikset:

It's not yet a dead issue, in fact, as a result of the articles I sent to you today, a former fireworks company employee wants to meet with staff. However, we didn't want to muddy the waters and possibly give Goodrich or Kwikset a reason to delay the work we are requiring of them.

Ex. 20074. This quote indicates that the staff had made a decision to focus its efforts on Goodrich and Kwikset, and no amount of evidence pointing to other parties would be

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permitted to affect their case against Goodrich and Kwikset.

Shortly thereafter, Goodrich and Kwikset were charged by the Advocacy Team, led by Mr. Thibeault, in CAO R8-2002-0051 ("2002 CAO") as the persons responsible under Section 13304 for the perchlorate in the Rialto/Colton Groundwater Basin. With respect to Goodrich, this order was based on one supporting piece of evidence, the one and a half page document that Mr. Saremi obtained from the Rialto Historical Society. Saremi Dep., 76:15-77:13. By the 2002 CAO, the Advocacy Team sought to compel Goodrich and Kwikset to investigate and cleanup the entire basin, and required nothing of other parties such as Pyrotronics/Apollo, Ken Thompson, Inc., or the County. Ex. 11114 (2002 CAO). The Regional Board, however, ordered the 2002 CAO rescinded because the Advocacy Team could not prove its allegations against Goodrich and Kwikset. Ex. 11202 (Resolution No. R8-2003-0070).

XI. THE REGIONAL BOARD STAFF AND THE CITY OF RIALTO REFUSE TO PROSECUTE KEN THOMPSON, INC.

Strangely, Ken Thompson, Inc., who owns the property where the McLaughlin Pit is located and who agreed in 1987 to fully and properly close and clean up any releases from the McLaughlin Pit, has never been required by the Regional Board or the City of Rialto to do anything and has never been the subject of a cleanup and abatement order. In paragraph 7 of its deed, Ken Thompson, Inc. agreed:

Buyer shall take property subject to covenants, conditions and restrictions of record agreeable to Buyer which would restrict Buyer, its heirs and assigns, from objecting to Seller, its heirs and assigns, manufacturing and storing of fireworks, munitions, volatile matter or related items.

Buyer agrees to indemnify and hold seller harmless for any and all requirements of Federal, State and local municipalities for any requirements for on-site or off-site improvements necessary to comply with development of Parcels 10 and 11 of Parcel Map 7173 or otherwise, and Buyer is fully responsible for all Federal, State and local government requirements...

Buyer covenants to comply with all City and State standards and requirements in order to develop the subject parcels.

Buyer is aware that the subject property contains a fireworks residual pit of hazardous material, and Buyer is in possession of a letter dated January 26, 1987 from McLaughlin Enterprises outlining

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an approach for the clean up of the fireworks residual pit. Buyer and Seller [Pyrotronics] agree that seller shall credit to Buyer by a reduction in Buyer's note created in this escrow the sum of 29,800 in consideration of *Buyer's full and complete release of all Seller's responsibilities related to the fireworks residual pit.*

Ex. 11116 (Escrow instructions 4, 6, & 7) (emphasis added); see also Ex. 11215 (Pyrotronics' Motion to Sell Real Property at 5).

The Regional Board staff is well aware of the effect of this deed and Ken Thompson, Inc.'s subsequent responsibility for Pyrotronics/Apollo's use of the McLaughlin Pit, as it sent Ken Thompson, Inc. an investigation order on February 6, 2004 based on Pyrotronics/Apollo's prior use of the property. Ex. 11115. And the documents attached to the Regional Board's February 6, 2004 order under California Water Code Section 13267 further indicated that it was based on Pyrotronics/Apollo's former operations: "Excerpts from Pyrotronics 1985 Hazardous Materials Disclosure Form includes the use of 25,000+ pounds per month of potassium perchlorate." Ex. 11115 at 3 and enclosure 3. Moreover, an August 1987 Regional Board Inspection Report acknowledges that: "Apollo no longer owns the concrete waste pit. They sold the property to Western Pre-Cast Products, Inc. [Ken Thompson, Inc.]. Western Pre-Cast Products [Ken Thompson, Inc.] assumed the investigation and cleanup of the [pit] when they bought the property from Apollo." Ex. 10370 at 2.

Although Ken Thompson, Inc., as the owner of the property on which the McLaughlin Pit resides and the party who specifically took responsibility for its closure, is the most logical candidate to both compel future work and seek recovery of past costs from, the Regional Board staff inexplicably refuses to pursue Ken Thompson, Inc. After receiving the February 2004 work order, Mr. Cowden, a representative of Ken Thompson, Inc., sent a letter to Mr. Thibeault, indicating that he was "shocked to the bone" that the Regional Board staff was requiring Ken Thompson, Inc. to conduct an investigation. Ex. 20077. In response, after well over a year had passed since ordering

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Ken Thompson, Inc. to conduct an investigation,⁹⁵ Mr. Thibeault assured Mr. Cowden that *nothing* would be required of Ken Thompson, Inc.:

[T]he Regional Board will pursue the former owners and operators responsible for the past discharges, including Goodrich, Emhart and Pyro Spectaculars, to perform this work. At this time the only necessary participation by Rialto Concrete Products[/ Ken Thompson, Inc.] in this work would be to provide reasonable access to its property.

Ex. 20078 (July 8, 2005 letter from Mr. Thibeault to Mr. Cowden at 2). Despite Ken Thompson, Inc.'s express assumption of responsibility for the McLaughlin Pit, this letter apparently discouraged the Regional Board staff from requiring Ken Thompson, Inc. to complete the closure of the McLaughlin Pit, including any necessary corrective action, as Ken Thompson, Inc. had already promised it would do.

Similar to the Regional Board staff's inexplicable failure to prosecute Ken Thompson, Inc., the City of Rialto also has apparently no interest in pursuing Ken Thompson, Inc. Rialto initially sued Ken Thompson, Inc., along with other defendants and alleged dischargers, in federal court in 2004. Ex. 11224 (Rialto's First Amended and Supplemental Complaint). Then, when Ken Thompson, Inc.'s agent, Mr. Cowden, wrote simply that "we are doing everything possible to help in this matter" to the Rialto City Attorney, Robert Owen (Ex. 11218 (Email between Mr. Cowden and Mr. Owen)), the City of Rialto dismissed Ken Thompson, Inc. Ex. 11222 (Rialto's Second Amended and Supplemental Complaint). Ken Thompson, Inc. is a "potentially responsible party" under CERCLA and has wholly failed to complete the key environmental mitigation measure that the City imposed on him in 1987 as a condition to begin grading the site for his project—full and complete closure of the McLaughlin Pit. See 42 U.S.C. § 9607(a). Further, according to Mr. Thompson, Ken Thompson, Inc. did not agree to do anything

⁹⁵ Mr. Thibeault's July 8, 2005 letter indicated that Mr. Cowden had a conversation with Mr. Berchtold regarding Ken Thompson, Inc.'s environmental liability, but there is no indication as to what was said during that conversation. Ex. 20078 at 1. Further, Mr. Thompson testified that he, along with representatives from his company, participated in a meeting with Regional Board staff, but aside from Mr. Thompson's testimony that he was upset at the meeting and that he discussed providing access to his property, it is unclear what transpired at this meeting. Thompson Dep., 159:4-165:6.

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for the City of Rialto nor did it give anything to the City of Rialto in return for its dismissal; it appears that the City of Rialto simply decided that it would rather not seek recovery from the facially liable Ken Thompson, Inc. Thompson Dep., 172:20-174:16.

XII. THE PROPOSED CAO FAILS TO ADDRESS RIALTO AMMUNITION STORAGE POINT AS A SOURCE OF CONTAMINATION

The Notice of Hearing states that one of the purposes of the hearing is to permit relevant testimony and evidence and hear legal arguments and policy statements concerning legal responsibility for site investigation and remediation. This section addresses the activities by the United States Department of Defense ("DOD") at the Rialto Ammunition Storage Point ("RASP") that is highly likely a source of perchlorate and trichloroethylene ("TCE") contamination in the Rialto-Colton Basin, which the Advocacy Staff is attributing to Goodrich. The State Board should find DOD in violation of the Regional Board's directive of October 24, 2002 and order it to comply.

A. Location and Extent of RASP Site

The RASP covered 2,822.15 acres of land within what is now the northern limits of the City of Rialto, San Bernardino County, California. Final Report Operational History 1941-1945 Rialto Ammunition Backup Storage Point" ("Corps Report"), Ex. 20270, 2-1. The facility location is seven miles northwest of the City of San Bernardino and north-northeast of the City of Fontana, in San Bernardino County; bounded by Linden Avenue (east), Riverside Avenue (north), Sierra Avenue (west), and Highland Avenue (south); and in parts of Sections 17, 20, 21, 28, and 29 of Township 1 North, Range 5 West, San Bernardino Base and Meridian. *Id.* The existing central business district of the City of Rialto is located just east of the former RASP site. *Id.* Remnants of the RASP can still be found in Rialto today, including former berms from

⁹⁶ The RASP site was also referred to as (1) the "Rialto Ammunition Back-up Storage Point," (2) "Fontana Ammunition Storage Point," (3) "Ammunition Back-up Storage Facility, Rialto," (4) "Ammunition Back-up Storage Facility, Fontana," (5) "Los Angeles Ammunition Back-up Storage Facility," (6) "Los Angeles Ordnance Depot," (7) "Los Angeles Back-up Storage Facility," and (8) "Rialto Military Reservation." Ex. 20270, p. 1-1

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of which were demolished in the 1990's by the County of San Bernardino for the

expansion of the Mid-Valley Landfill.

В. **History of RASP Site**

The United States acquired the land for the RASP over the course of 1941 and 1942. Corps Report, Ex. 20270, ES-1. Approximately 740 acres of the RASP site were subsequently developed by the Department of the Army to serve as an ammunition storage location to support operations in the China-Burma-India Theatre of War. Corps Report, Ex. 20270, p. 1-2. The Army began construction of the RASP facilities in February 1942. Corps Report, Ex. 20270, 3-1. On November 16, 1942, the RASP was activated. Corps Report, Ex. 20270, p. 3-1. Operations at the RASP site continued through World War II until September 1945. Corps Report, Ex. 20270, 3-1.

railroad car staging area spurs on the 160-acre parcel, which was located entirely within

the RASP, and concrete ordnance storage igloos southwest of the 160-acre parcel, most

The RASP site was used as the location for the staging of railcars and storage munitions, fuses and explosives prior to being shipped off to the Pacific Theater during World War II from the Port of Los Angeles. Corps Report, Ex. 20270, p. 3-9. The RASP was necessitated by the limitations on the number of railcars and amount of munitions that could be safely staged at the Victory Pier at the Los Angeles Port of Embarkation. Corps Report, Ex. 20270, 3-9. According to the Standard Operating Procedure (SOP) for explosives handling at the Los Angeles Port of Embarkation, all railcars were to be routed through the RASP site except in the case of military necessity. Corps Report, Ex. 20270, App. B, p. 7.

Approximately 320,000 tons of ordnance were stored at the RASP site before being shipped from the Port of Los Angeles. Ex. 20270, p. 3-27. In 1943, an average of 248 railcars per month, or about 8 per day, passed through the RASP site. (Corps Report, Ex. 20270, p. 3-26.) At times, the volume of railcars per month significantly exceeded this average, as the Corps Report documents that 461 railcars were received at the RASP site in March 1944. Ex. 20270, p. 3-26. Based on the 1943 average of 248

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railcars per month, over 8,000 railcars would have passed through the RASP site during its nearly three years of operation.

The configuration of the RASP is depicted in the General Layout Plan prepared by the U.S. Army Real Estate Division in 1946 prior to sale of the property. (General Layout Plan, Ex. 20104; Ex. 20270, p. 3-4. Improvements to the RASP site made by the military included 20 ordnance concrete storage "igloos"; 40 bunkers for storage of ordnance-loaded railcars; four magazines for storage of fuses and explosives; facilities for railcar maintenance and repair, including a locomotive shop; an incinerator; and seven underground storage tanks. Ex. 20104 (General Layout Plan); Ex. 20270, p. 3-8. The 20 earthen-covered concrete "igloos" were each 26 feet, 6 inches wide and 81 feet deep. Ex. 20270, p. 3-4. The 20 igloos and four storage magazines collectively encompassed approximately 37,200 square feet. Ex. 20270, p. 3-26.

The operations at the RASP also included the inspection of railcars for conditions of the contents and to detect attempts at sabotage; repair and maintenance of locomotives and railcars; recoopering damaged bracing and dunnage; consolidation of partial shipments; and receipt and dispatch of railcars. Ex. 20104 (General Layout Plant); Ex. 20270 (Corp. Report) p. 3-11. The RASP site was also used to store ammunition used by troops of the Army Ground Forces training at the Desert Training Center in the Mojave Desert. Ex. 20270 (Corps Report) p. 1-2.

The RASP site operations did not merely involve the "pass through" of railroad cars, but also involved the staging of the railroad cars and handling and disposal of munitions. Some of the railcars passing through the RASP had the cargo (*i.e.*, ordnance) unloaded into the igloos until being reloaded for shipment to the Port. ⁹⁸

Documents indicate that as many as nine railcars per month were unloaded. Ex. 2-265

⁹⁷ The Corps Report states that the City of Rialto removed one tank, four were removed by "others," and Ecology Control Industries, under contract to the U.S. Army Corps of Engineers, removed the remaining two storage tanks in 2000. Ex. 20270, p. 3-27.

⁹⁸ The Corps Report makes no effort to explain why the military would construct the 20 storage igloos and four magazines for fuzes and explosives (over 37,000 square feet of space) if it did not intend to unload railcars and store munitions at the RASP site.

(Rialto Ammunition Back-up Storage Point, Historical Report for Month of December, 1943). The Army's SOP suggests that unloading of railcars was a regular occurrence. For example, the SOP notes that the construction of additional igloos would "increase the ammunition storage capacity of this installation." Ex. 20270, App. B, p. 8. Moreover, not only were munitions stored in the igloos, but often for extended periods. *Id.*, 13.

C. The DOD has violated Regional Board Orders

On October 24, 2002, pursuant to Water Code Section 13267, the Regional Board issued a "Directive to Submit a Work Plan and Conduct Perchlorate Investigation in the Vicinity of the Former Rialto Ammunitions Storage Point, City of Rialto, San Bernardino County, California" ("RB Directive"). Ex. 20272, p. 1. The RB Directive was issued by the Regional Board, which concluded that "evidence indicates that the U.S. Department of the Army constructed storage 'igloos' and concrete underground bunkers for storing fuse and power magazines, explosives, and ordnance, which are likely to have contained perchlorate salts." Ex. 20272, p. 2.

While it did not comply with the RB Directive, in January 2004, the Corps belatedly submitted the Corps Report, describing aspects of the operational history at the RASP site. While the Corps Report confirms certain information concerning the military's operations at the RASP, much of it is unsupported and self-serving. Moreover, the Corps Report presents only a selected portion of the information gathered by DOD, as it was released subject to a limited waiver of a claimed attorney work product privilege, and was based primarily on accounts from an individual who spent minimal time (perhaps a few hours) at the RASP site during the entire period of operation. Ex. 20270, p. [intro letter].

The Regional Board responded to the Corps Report by letter dated July 29, 2004, finding the Corps Report to be "incomplete." Ex. 20273 ("RB Letter on Corps Report")

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⁹⁹ A number of factors support the Regional Board's dispute of the findings of the Corps Report. First, the Corps Report relies extensively on the recollection of Robert K. Weyand, Captain, Ordnance Department in the United States Army, who had almost no

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The Regional Board also stated that it had reviewed records provided by the City of Rialto that included the following information: (1) approximately 200,000 tons of explosives, ordnance, and ammunition moved through the RASP over a three year period; (2) An estimated 5% of the 200,000 tons (or 10,000 tons or 20 million pounds) of military products containing perchlorate passed through the RASP; and (3) of 7,446 tons of ammunition returned from overseas to the Port of Los Angeles between January 1944 and June 1945, all damaged material was sent to the RASP to be "recoopered or destroyed." Ex. 20273, p. 2. The Regional Board concluded, based on review of all information available to it including the Corps Report, that "there is a more than adequate basis for suspicion that one or more releases of perchlorate salts could have occurred during the extensive operations that took place at the RASP site." Ex. 20273, p. 2. While the Regional Board itself has found that the United States military's activities at the RASP site are likely source of groundwater contamination in the Rialto area and that DOD has not complied with its directive, it has taken no action to enforce the RB Directive nor to address the RASP as a possible source of the alleged perchlorate and TCE contamination in its submission to the State Board.

direct involvement in activities at the RASP site. While the Corps Report notes that Mr. Weyand "visited the RASP site as part of his responsibilities, the Corps Report does not clarify that he visited the RASP site just one time as a "courtesy call" to have lunch with the captain stationed there. Ex. 20271, pp. 28-29. Other than a few hours at the RASP site on that single occasion, Mr. Weyand was stationed at the Port of Los Angeles and therefore had no direct observation of the activities and practices at the RASP site. Also, the Corps Report itself notes that Mr. Weyand's recollection that less than ten percent of railcars passed through the RASP site en route to the Port is contradicted by the SOP for the RASP site, which specified that all munitions were to be routed to the RASP site before proceeding to the Port of Los Angeles. Ex. 20270, pp. 3-13. The SOP was prepared in October 1945 as operations were concluding, and therefore largely documented the activities at the RASP site. Ex. 20270, App. B, p. 1. In fact, the SOP actually describes the procedure in the past tense: "All ammunition and explosives shipped by [the Los Angeles Port of Embarkation] were routed through Rialto except in case of military necessity." Ex. 20270, App. B, p. 7. The prior version of the SOP, dated January 1, 1945, also provided that all ammunition would be routed through Rialto. Ex. 20270, App. B, p. 2 [of January 1 version]. The Corps Report also relies on Mr. Weyand's statement that unloading of railcars was not a common practice (Corps Report, Ex. 20270, pp. 3-13) despite the fact that Mr. Weyand was not present at the RASP site.

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D. TCE Use and Disposal at the RASP Site

Evidence regarding the Army's activities at the RASP site indicates that its activities very likely resulted in the release of solvents such as TCE.

With over 8,000 railcars passing through the RASP site, and an onsite locomotive used to pull cars along tracks at the site, the Army's operations from 1942 to 1945 included extensive maintenance and repair of railcars and other military equipment. Ex. 20270, p. 3-16. The General Layout Plan for the RASP site documents that the improvements at the site included a locomotive shed, an oil house, a parts room, two storage houses, a railcar inspection pit, a sludge bed, an incinerator, and seven underground storage tanks. Ex. 20104. These facilities supported the Army's activities associated with railcar maintenance and repair.

Documents confirm that railcar and locomotive repair, maintenance, and associated activities occurred at the RASP site. For instance, in a report prepared for the month of April 1944, the Security Officer at the RASP described a "short circuit in the electrical system of 80 ton locomotive caused fire in one of the traction motors.

Locomotive was tied up several days for repairs." Ex. 20269, p. 2 (Rialto Ammunition Back-up Storage Point, Historical Report for Month of April, 1944). A report prepared for April 1945 stated that "a spur has been added to the railroad track at the locomotive shed for storage of the 30 ton gas locomotive and tank car so that the tank car will be quickly available for use on any area fire." Ex. 20268, p. 2 (Rialto Ammunition Back-up Storage Point, Historical Report for Months of April to July, 1945).

Railcar maintenance and repair activities are frequently associated with soil and groundwater contamination. The U.S. Environmental Protection Agency has identified more than 120 sites of former railcar operations that have been or are on the CERCLIS list. Ex. 20258, pp. 1-2 (Hazardous Substance Research Center, Environmental Update #20). More specifically, maintenance areas at rail sites often involve use and improper disposal of solvents, such as TCE. *Id.* Railcar maintenance and repair typically includes the following activities involving the use of solvents: oil and grease removal, car and

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equipment cleaning, rust removal, painting, and paint removal. Id. Locomotive maintenance has been identified as a specific activity that often leads to improper handling and disposal of spent solvents. Ex. 20259, pp. 2-3 (Fact Sheet from AIG Environmental).

The widespread use of TCE by the DOD has resulted in more than 1,000 military properties nationwide polluted by TCE. (see, e.g., "How Environmentalists Lost the Battle Over TCE," Los Angeles Times, March 29, 2006.) Railcar and other maintenance activities at the RASP site would have involved the use of TCE. Contrary to the Regional Board's unsupported claim that TCE was not available until the early 1950s (see Advocacy Team Submission, p. 8), TCE use was widespread during the time that the Army operated at the RASP site (i.e., beginning at least in the early 1940s) and historical documents indicate that, during World War II, the military was a priority recipient of supplies. As summarized in a comprehensive study on the history of TCE use:

> [In the early 1940s], TCE continued to be very widely accepted for metal degreasing, and it was reported to be rapidly replacing other solvents at this time (Byers 1943). ... During World War II, TCE saw significantly increased use in degreasing metal machinery parts (Lowenheim and Moran, 1975). Supplies of TCE and other solvents were controlled so that military demands could be met. Manufacturers of TCE during the war years included Dow, Du Pont and Westvaco Chlorine (United States Tariff Commission, 1941-1945). Ex. 20264, p. 4 (("A History of the Production and Use of Carbon Tetrachloride, Tetrachloroethylene, Trichloroethylene, and 1,1,1-Trichloroethane in the United States: Part 2-Tricholoroethylene and 1,1,1—Trichloroethane," Journal of Environmental Forensics (2000).

This summary is corroborated by the government documents from the time of the RASP. For example, a report prepared for the Chemical Division Requirements Committee identified a need for approximately 220,000,000 pounds of TCE. Ex. 20263, p. 3. Of this amount, about 203,000,000 pounds were for use in metals degreasing. (*Id.*) Also, a 1946 United States government report states that, at a single plant in West Virginia, production of TCE was as high as 4 million pounds per month. Ex. 20262, p. 2

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("History of the Chemicals Bureau of the War Production Board").

In fact, the "production increase [of TCE] during the war was made necessary by the heavy demand for use of trichloroethylene as a metal degreasing agent." (Id.) During the closing months of the war, almost 100 percent of TCE was used for metal degreasing for direct and indirect military use. (Id.) A 1944 War Department Technical Bulletin, directed to "Ordnance Department field personnel," stated: "During maintenance operations, solvent, dry-cleaning, should be used for the general cleaning of all automotive, artillery, and other equipment parts which may be coated with oil or grease." Ex. 20261, p. 1 (Use of Solvent Dry Cleaning, TB 9-850-4). This document also stated that when solvent was not available through ordnance channels, "it should be purchased locally." (Id.) A 1944 Ordnance Supply Catalog, developed to aid Ordnance personnel to select and purchase "recommended and approved available materials" includes trichloroethylene. Ex. 20255, p. 20 (Army Service Forces Catalog ORD 5 SNL K-1).

In addition to the information on general use of TCE by the United States military during World War II, and resulting contamination, evidence exists that TCE would have been used at the RASP. For example, TCE was used at other Army installations nearby the RASP site during World War II. In deposition, Harold Augustin, stationed at Camp Anza in Riverside during World War II, testified that he worked in the ordnance shop cleaning small arms with TCE. Ex. 20254, p. 6 (Augustin Deposition). Mr. Augustin also stated under oath that TCE was readily available during World War II. Id. at p. 21.

Additionally, a July 1993 DERP-FUDS Inventory Project for the San Bernardino Engineer Depot, a site located within 10 miles of the RASP site that primarily operated during World War II, states: "U.S. Army used solvents in the railcar and tank degreasing operations. The grease and solvents were dumped into open pits thereby contaminating the soil and possibly the groundwater." Ex. 20260, p. 3 (Site Survey Summary Sheet for DERP-FUDS Site No. J09CA058400, San Bernardino Engineering Depot). Documents clearly show that not only did RASP conduct maintenance on its trains, but it had a sludge bed Ex. 20104 (General Layout Plan). Moreover, diagrams of the RASP clearly

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show a maintenance yard. Id.

E. Perchlorate Use and Disposal at the RASP Site.

As concluded by the Regional Board, the RASP operations and substantial volume of materials passing through the site indicate a strong likelihood that perchlorate discharges occurred at the RASP site during the Army operations.

The RB Letter documents the fact that a significant percentage of the munitions handled at the RASP site contained perchlorate. Specifically, the RB Letter reports the following:

- Approximately 10,000 tons of military products containing perchlorate passed through the RASP site. Ex. 20273, p. 2.
- Products handled at the RASP site that contained perchlorate include: (1) 81 millimeter mortar projectiles (over 12% potassium perchlorate); (2) 22 millimeter cartridges (36 % potassium perchlorate); (3) 35 millimeter rockets (64% potassium perchlorate in the flash mix and 8% in the projectile); (4) 40 millimeter grenades (68% potassium perchlorate). Ex. 20273, p. 2.

A substantial volume of munitions were stored at the RASP site, and an important role of the RASP site personnel was to inspect these munitions. Ex. 20270, App. B, pp. 12-13. Among other purposes, inspection served to detect munitions, explosives and other materials that were damaged, off-spec, or otherwise unsuitable for shipment to the Port for use in the war. While the Corps Report states that no evidence was found of handling of damaged munitions at the RASP site (Corps Report, Ex. 20270, p. 3-11), the nature of the operations (storage, handling and inspection of munitions) strongly suggest that any munitions found to be unsuitable for shipment would likely have been disposed of at or near the RASP site. This is supported by information presented in the Corps Report, which includes the following excerpt from an October 1944 document titled "Report on Explosives Loading and Storage Facilities, Los Angeles Port of Embarkation":

Recoopering is done between or around the igloos, one box at a time. Damaged material is destroyed out in the area. There is no designated burning ground. Small quantities have been burned in a

pit. However, this is now a target range. The 1944 Report is attached as Exhibit 20256. 100

Not only is there historical evidence that damaged munitions were burned near the RASP site, but logistical issues also support the conclusion that disposal occurred on-site. First, given that the RASP site covered about 2800 acres, with only 740 developed with improvements, the Army had ample area (over 2000 acres) to dispose of munitions without running the risk of transporting such munitions to a distant location. This is in contrast to the situation at the Port of Los Angeles—where Mr. Weyand was stationed—which was located in an urbanized area with little or no open area to safely detonate or otherwise dispose of damaged munitions (hence Mr. Weyand's recollection of bomb disposal offshore). Further, the risk of transporting damaged munitions to distant locations would not be practical, as it would unnecessarily increase the risk of accidental detonation or explosion of such damaged munitions during transit. These factors (and the October 1944 Monthly History Report for the RASP site quoted above) indicate that burning of damaged munitions at the RASP site most likely occurred.

With over 10,000 tons of perchlorate-containing munitions stored at the RASP site during the Army's tenure, even a small rate of damaged munitions would have resulted in disposal of perchlorate. For example, a damaged munition rate of 1% would have led to disposal of about 100 tons of perchlorate-containing material in a three year period.

XIII. USE OF CHILEAN NITRATE FERTILIZER CANNOT BE DISREGARDED AS A SOURCE OF PERCHLORATE CONTAMINATION

Overwhelming evidence indicates that Chilean nitrate fertilizer used in citrus groves and other agricultural activities in the Rialto-Colton Basin is a source of the perchlorate found in many of the affected wells in the Rialto-Colton Basin. National,

The Corps Report discounts this evidence of burning of munitions at the RASP site based on a statement by Mr. Weyand that any burning would have been limited to damaged wooden bracing material or dunnage, and that munitions would not have been burned at the RASP site. (Corps Report, Ex. 20270, p. 3-14.) Mr. Weyand's view appeared to be based largely, if not entirely, on his experience at the Port of Los Angeles and in Riverside (as he was never stationed at the RASP site). (Corps Report, Ex. 20270, p. 3-14.)

state and local regulatory agencies, including the Regional Board, have acknowledged Chilean nitrate fertilizer as a source of perchlorate contamination. Yet in this instance, the Advocacy Staff has inexplicably ignored the historical use of Chilean nitrate fertilizers in the Rialto-Colton Basin as a source.

In its submission, the Advocacy Team mentions Rialto-area agricultural activities only once – in the second paragraph of the introduction, stating, "Aerial photographs from the 1930s show no evidence of agricultural uses of the Property, or adjacent areas hydrologically upgradient of the Property overlying the Rialto Groundwater Management Zone." Ad. Team P&As, 2. The Advocacy Team's conclusory dismissal of Rialto's agricultural history and Chilean nitrate fertilizer as a source of perchlorate contamination, however, is based upon a wholly inadequate investigation.

Historically, the Inland Empire, and Rialto in particular, was a hub of California's citrus growing industry. Kavanaugh Dec., ¶ 83. One need not go any further than downtown Rialto to see reminders of its proud citrus history. Ex. 20401. Despite having made public presentations to the Regional Board members and admitting under oath in deposition that the existence of historical citrus growing activities in Rialto and the accompanying use of Chilean nitrate fertilizer should be considered sources of perchlorate contamination, in their prosecution of this matter, the Advocacy Staff disregards the widespread existence of the citrus groves and other agricultural activity as sources of perchlorate contamination in the Rialto-Colton Basin. Holub Dep., 127:1-6, 128:24-129:9; Thibeault Dep. 76:23-77:16

Many of the Rialto-Colton Basin wells in which perchlorate has been detected are in very close proximity to or downgradient of historical citrus grove sites (Bennett Dec., ¶ 8, Ex. I), which are likely sources of the perchlorate detected in those wells. As documented below, during the early-to-mid 1900s, extraordinarily large quantities of Chilean nitrate fertilizer were applied to citrus groves located in and around the Rialto Groundwater Management Zone. Given the amount of Chilean nitrate fertilizer used in the Rialto area, and the amount of perchlorate therefrom that would have migrated to

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groundwater through irrigation and agricultural wells and other conduits, the widespread, varying detections of perchlorate in a number of area wells can be attributed to the use of Chilean nitrate fertilizer.

A. The Advocacy Team's Disregarding of Chilean Nitrate Fertilizer is Unsupported and Contrary to the Evidence

The Advocacy Team contends that "Chilean nitrate does not appear to be a source of perchlorate at the 160-acre site," because although "the historical use of Chilean nitrate is a source of low concentrations of perchlorate that appear to be widespread in groundwater throughout the Inland Empire in areas where citrus groves existed," "citrus groves do not appear to have existed at or hydrologically upgradient of the Property." The Advocacy Team's position is flawed for two very important reasons: (1) whether or not Chilean nitrate is a "source of perchlorate at the 160-acre parcel" itself does not address the issue of whether it is a source of perchlorate at the wells throughout the basin; and (2) the statement that citrus groves did not exist "hydrologically upgradient of the Property" is empirically false. Bennett Dec., ¶¶ 8-10, Exs. I, J, K, N, O, P, Q, X, Z, AA, BB, CC, LL. In fact, the Advocacy Team is seeking to order Goodrich to provide replacement water for wells that are miles away from the 160-acre parcel, but in very close proximity to historical citrus groves and other agricultural sites.

The Advocacy Team has identified Robert Holub, Supervising Water Resource Control Engineer for the Regional Board, as the source of its opinion that Chilean nitrate fertilizer may be disregarded as a source of perchlorate in the Rialto Basin. However, in his April 9, 2007 deposition, Holub admitted that he has no personal knowledge of the amount of citrus growing activities that took place in early-to-mid-20th Century Rialto, and that he is not an expert in Chilean nitrate fertilizer, agriculture, or the distribution of fertilizers in agriculture. Holub Dep., pp. 809:21-811:13.

Moreover, in his deposition, Holub also revealed that his research into the historical use of Chilean nitrate fertilizer as a source of perchlorate contamination in the

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Rialto-Colton Basin was extremely limited and that he had not considered several pieces of information which indicate that significant amounts of perchlorate were introduced to soil (and eventually the groundwater) in the Rialto-Colton Basin through the use of Chilean nitrate fertilizer. For example, Holub testified that: (a) he did not speak with any farmers or anyone who lived in Rialto during the early-to-mid-1900s regarding where Chilean fertilizer was used (Holub Dep. 811:2-6, 11-13); (b) he did not speak to anyone regarding the historical location of agricultural activities in the Rialto area (*Id.*, 811:7-10); (c) he has no idea how much Chilean nitrate was brought into the Rialto area since the 1920s (*Id.*, 817:5-13); (d) he does not know how many acres of agricultural activities would have used Chilean nitrate fertilizer in the Rialto-Colton basin (but estimates that it would have been "a few thousand") (*Id.*, pp. 822:22-823:8); (e) he has done no investigation into how many agricultural wells existed in Rialto, nor how many were properly closed (*Id.*, 823:15-24); and (f) he has done no investigation of other areas outside of the Inland Empire that used Chilean nitrate fertilizer and experienced similar perchlorate contamination in groundwater (*Id.*, 824:23-825:2).

In addition, Holub admitted that his opinion that "citrus groves do not appear to have existed at or hydrologically upgradient of the Property," is based on his review of only **one photograph**, taken in 1930. *Id.*, p. 828:21-831:10. Obviously, the mere fact that no citrus groves are visible in that lone photograph, which covers a fraction of the nine-mile Rialto Groundwater Management Zone, cannot conclusively rule out the existence of citrus groves hydrologically upgradient of the Property beyond the view of that photographer's camera lens. In fact, as discussed below, agricultural activities did exist hydrologically upgradient of the Property. Bennett Dec. ¶¶ 8, 10, Ex. I, J, K, N, O, P, Q, X, Z, AA, BB, CC, LL. Ultimately, the Advocacy Team has erred in disregarding Chilean nitrate fertilizer as a source of perchlorate contamination in the Rialto-Colton Basin.

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B. Chilean Nitrate Fertilizer Used In Agricultural Activities Is A Known Source Of Perchlorate Groundwater Contamination.

1. Chilean Nitrate Fertilizer Contains Perchlorate

The raw product used in the production of nitrate fertilizers was commonly called Chilean nitrate, nitrate of soda, sodium nitrate, Chilean saltpeter, and/or soda nitre. Kavanaugh Dec. ¶ 79. Perchlorate occurs naturally in Chilean nitrate deposits and has been detected in fertilizer derived from those deposits. *Id.* Chilean nitrate fertilizers are derived from naturally-occurring caliche deposits that are mined from the Atacama Desert region of Chile. *Id.*

Fertilizers derived partially or completely from Chilean nitrates contain appreciable amounts of perchlorate. *Id.* The concentrations of perchlorate in Chilean nitrate have been reported to vary between 0.03 to 6.79% *Id.* It is conservatively estimated that the average perchlorate concentration of Chilean nitrate fertilizer is approximately 0.2%. *Id.*; Holub Dep., 821:17-23.

2. The Application of Fertilizer Makes it Very Susceptible to Causing Groundwater Contamination

The historical use of Chilean nitrate fertilizer is no longer disregarded by researchers as a source of perchlorate contamination and can not be categorically subordinated to the military or industrial operations as a potential source of perchlorate contamination in groundwater. Kavanaugh Dec. ¶ 81. Unlike most uses of perchlorate, the perchlorate-containing Chilean nitrate fertilizer is applied directly to the soil. Kavanaugh Dec., ¶ 81; Holub Dep., p. 818:10-12; Birdsall Dep. pp. 35:20-36:20, 38:19-39:5. The large quantities of irrigation water continuously applied over significant periods of time to citrus groves in the Rialto-Colton Basin provide a significant mechanism to transport perchlorate applied in Chilean nitrate fertilizers through the soil to groundwater. Kavanaugh Dec., ¶ 86; see also Holub Dep., 818:10-15 ("[I]n the later years when the irrigation practices progressed, I believe [Chilean nitrate fertilizer] was applied to the irrigation water itself.")

3. The Regional Board and Other Agencies Have Recognized Chilean Nitrate Fertilizer as a Source of Perchlorate Groundwater Contamination

Federal, state and local regulatory agencies around the nation have recognized Chilean fertilizer as a potential source of perchlorate groundwater contamination.

Kavanaugh Dec., ¶ 87. Moreover, members of the Advocacy Team themselves have acknowledged that Chilean fertilizer is responsible for widespread perchlorate contamination in the Santa Ana region.

On or about February 27, 2004, Gerard Thibeault, Executive Officer of the Regional Board, gave a presentation to the California Senate Select Committee on Perchlorate Contamination, in which he acknowledged that Chilean nitrate is a possible cause of widespread perchlorate contamination in the Inland Empire. *Id.*, ¶ 88. On March 12, 2004, in a presentation to the members of the Regional Board, Robert Holub also concluded that the "location of wells containing perchlorate correlate closely with historic citrus areas." *Id.* In his March 8, 2007 deposition, Holub testified that it is the Regional Board's belief that some sources of perchlorate contamination in the Santa Ana region come from the historical use of Chilean fertilizer. Holub Dep., p. 126:18-25, 127:1-6. Specifically, Holub testified that "Based on [his] research [his] opinion is that the — many of the low concentrations of perchlorate that are found in wells in the Inland Empire likely resulted from the historical use of Chilean fertilizer on the citrus groves in those areas . . . It's been documented through analytical testing done by U.S. EPA and others that Chilean fertilizer contained low concentrations of — of perchlorate salts, and the Chilean fertilizer was used as a fertilizer on citrus groves historically in the Inland

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deposition. Thibeault confirmed his same understanding and testified that where there have been historic citrus groves and there are low levels of perchlorate detected in the groundwater, the Regional Board's position is that such contamination is "probably related either to Chilean nitrate or Colorado River water." Thibeault Dep., pp. 76:23-77:16.

Empire." Holub Dep., pp. 128:24-129:9. Subsequently, in his March 14, 2007

Other regulatory agencies within California have also acknowledged Chilean fertilizer as a possible or potential source of perchlorate contamination in groundwater. Kayanaugh Dec. ¶ 87. Likewise, federal agencies have done so as well. As early as June 1999, the U.S. Environmental Protection Agency (the "EPA") stated that "Chemical fertilizer also has been reported to be a potential source of perchlorate contamination." Id. In September 2005, the U.S. Department of Health and Human Services, Agency for Toxic Substances & Disease Registry wrote: "Perchlorate has been detected in fertilizers derived from Chilean caliche (citations). . . Fertilizer derived from Chilean saltpeter has been traditionally applied mainly to tobacco plants, but is also marketed for citrus fruits, cotton, and some vegetable crops (citations). Perchlorate containing fertilizers would result in the contamination of soil as a direct result of their intended use." Id. (emphasis added.)

The Historical Uses Of Chilean Fertilizer In The Rialto Area Explain C. The Presence Of Perchlorate In The Rialto-Colton Basin.

Given the widespread use of fertilizer in early-20th-century citrus growing activities, the amount of citrus farming that took place in the Rialto area, and the proximity of wells (agricultural, monitoring and production) to such agricultural activity, Chilean fertilizer is an obvious source of perchlorate contamination in the Rialto-Colton Basin's affected groundwater wells.

> 1. Chilean Fertilizer Was Widely Used in the Fruit Growing Industry Throughout the U.S. and California in the Early-to-mid 20th Century.

Chilean nitrate was one of the most common nitrate fertilizers in the U.S. during

the first half of the 20th century. It is believed that the world's first commercial nitrogen fertilizer was sodium nitrate mined from natural deposits in Chile. Adams Dec. ¶ 13. During the 1920s, sodium nitrate imports from Chile were a very important source of nitrogen in the United States with consumption amounting to about 600,000 tons annually. *Id.*, ¶ 14. Indeed, the numerous newspaper articles from agricultural publications, including the *California Citrograph*, and various advertisements regarding Chilean nitrate fertilizer was highly regarded as a source of nitrogen for crops and was in widespread use by citrus growers in early-20th century California and the Inland Empire, specifically. Ex. 20280.

The historical use of Chilean nitrate fertilizer has been reported for fruit trees in California, with an accepted fertilization rate between 100 and 200 pounds per acre as nitrogen. Kavanaugh Dec. ¶ 82. This translates to application rates ranging between 625 and 1250 pounds per acre of sodium nitrate (which is 16% nitrogen). *Id.* For simplicity, according to a widely accepted application rate of 1,000 pounds per acre per year of Chilean nitrate, 2 pounds of perchlorate per acre per year may have potentially been applied to fruit orchard soils throughout California. *Id.* Furthermore, between 1923 and 1960, 305,614 tons of Chilean Sodium Nitrate fertilizer were reported to have been used in California according to data compiled by the California Department of Food and Agriculture. *Id.* Assuming a perchlorate concentration of 0.2%, application of this mass of Chilean nitrate fertilizer would have resulted in the application of over 1.2 million pounds of perchlorate to agricultural soils/crops in California during this timeframe. *Id.*

2. Citrus Farming Was Widespread in the Rialto Area During the Early-to-mid-1900s.

The citrus fruit growing industry was an important part of life in early-to-mid-20th century Rialto. The Rialto area had extensive citrus groves, beginning in the late 1800s and increasing steadily through the early 1900s. Kavanaugh Dec., ¶ 83. These groves were fertilized, irrigated and cultivated regularly. *Id.*; Birdsall Dep., pp. 27:18-28:16; Adams Dec., ¶¶ 25, 26.

Rialto eventually emerged as an important citrus community. Kavanaugh Dec., ¶ 83. In 1917, the San Bernardino County office of the California Fruit Growers Exchange was established in Rialto because Rialto was considered to be the center of the citrus industry in the county. *Id.* Citrus was the hub of everything in Rialto in those days. *Id.* Most of the men worked for the citrus industry in some way. *Id.* Many of the women worked in the packing houses, washing, sorting, and packing fruit. *Id.* The citrus industry reached its peak in Rialto in the 1930s, with up to 10,000 acres of citrus crops planted. *Id.*; Bennett, ¶ 11.

3. Chilean Nitrate Fertilizer Was Commonly Used By Early Citrus Growers in the Rialto Area.

Eyewitness accounts confirm the actual use of Chilean fertilizer by Rialto-area citrus farmers as late as the 1950s. Birdsall Dep., 56:21-57:1. Roger Birdsall, the former Agricultural Commissioner for San Bernardino County, testified to his personal knowledge of the use of Chilean nitrate fertilizer by citrus growers in the Rialto area. *Id.*, pp. 56:21-57:1. Mr. Birdsall has lived in San Bernardino County since 1926, and moved to Rialto in 1949 when he became an agricultural inspector for the County of San Bernardino. *Id.*, 9:23-25, 10:3-4. He later became the Agricultural Commissioner for San Bernardino County. *Id.*, p. 11:20-22.

Early Rialto-area citrus growers, relying on the prevailing science at the time, liberally applied nitrates to their citrus groves in order to obtain the best crop production. This likely led to over-application and groundwater contamination. Adams Dec., ¶¶ 8, 9, 11, 12, 26. For instance, A. G. "Albert" Morgan, who owned and operated a 115-acre citrus grove at the time, was quoted in 1925 as saying that it was his custom to apply three to five pounds of Chilean nitrate fertilizer to each tree every year. *Id.*, ¶¶ 16, 24, Ex. A. A significant segment of the citrus farming community in Rialto would have followed the same practices of Mr. Morgan, the leading citrus grower in Rialto. *Id.*, ¶¶ 19 and 25; Birdsall Dep., pp. 44:7-8, 45:22-23.

Any calculation of the quantity of Chilean Nitrate fertilizer, and the perchlorate

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contained therein, applied in the Rialto-area citrus groves is staggering. With Rialto farmers applying three to five pounds of Chilean nitrate fertilizer per tree per year with 100 citrus trees planted per acre, 300 to 500 pounds per acre per year of Chilean nitrate fertilizer would have been applied to soil in the Rialto area. Adams Dec. ¶¶ 16, 17, 25. By the 1930s, with an average application rate of 1,000 pounds per acre per year of Chilean nitrate fertilizer being applied to citrus groves in Rialto, 10 million pounds per year of Chilean nitrate fertilizer would have been applied to the soil. Kavanaugh Dec., ¶ 84. This amounts to 20,000 pounds per year of perchlorate being applied directly to the soil in the Rialto-area. Even if the Rialto-area citrus growers' use of Chilean nitrate fertilizer during the 1930s was 30% to 50% of this average application rate, as reported by Al Morgan in 1925 Adams Dec., ¶ 16., 6,000 to 10,000 pounds of perchlorate would still have been applied directly to the soil in the Rialto-area each year. Again, these numbers cannot be ignored.

4. Vast Quantities of Widespread Irrigation Caused Perchlorate to Reach Groundwater in the Basin.

Agricultural activities invariably require the use of significant amounts of water. Kavanaugh Dec. ¶ 85. The large quantities of irrigation water applied to citrus groves in the Rialto-Colton Basin provided a significant mechanism to transport perchlorate applied in Chilean nitrate fertilizers from soil to groundwater. Kavanaugh Dec. ¶ 85. Indeed, the Advocacy Team Submission states: "Once applied to soil, perchlorate will be readily transported to groundwater with any water that percolates into the soil (e.g. precipitation) and travels to groundwater. This transport would be accelerated by application of any additional water, such as through discharge of septic tank effluent, fire suppression water and wash water." Ad. Team P&As, p. 10. Yet, in its submission, the Advocacy Team ignores the fact that Chilean nitrate fertilizer used in the Rialto area would have been applied directly to the soil and then washed into groundwater through the application of irrigation and crop watering.

Moreover, as discussed above, and as acknowledged by the Regional Board,

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whenever wells are located in close proximity to historic citrus groves, perchlorate contamination found therein is "probably related" to Chilean nitrate fertilizer. Thibeault Dep., 76:23-77:16. The many wells in the Rialto-Colton Basin have likely acted as a super-conduit, transporting perchlorate from the nearby and surrounding agricultural activities that reached them directly into the groundwater. Holub Dep., p. 824:5-9.

5. Historical Agricultural Activities Are Located In Very Close Proximity to Wells Throughout the Area Overlying the Rialto Groundwater Management Zone.

The Advocacy Team incorrectly implies that no agricultural activities were near enough to the 160-acre Parcel to have caused any of the perchlorate contamination detected throughout the basin. 101 Amazingly, while it shrugs off levels of perchlorate found in PW-1 immediately upgradient of the 160-acre parcel as being "negligible," for wells many miles away with similar levels of perchlorate, it is seeking to order Goodrich to provide water replacement. Further, the Advocacy Team conveniently neglects to address the widespread agricultural activity throughout Rialto-Colton Basin located between the 160-acre Parcel and many of the alleged wells at issue. Bennett Dec., Ex. 1. However, aerial photographs taken between 1930 and 1986, show orchards very close to, and even up-gradient of, the 160-acre Parcel. Kavanaugh Dec., ¶ 85; Bennett Dec., ¶¶ 8, 10, Exs. I, J, K, N, O, P, Q, X, Z, AA, BB, CC, LL. Exhibit J to the Bennett Dec., an aerial photograph taken in 1930, shows orchards approximately 2.14 miles to the northwest of the 160-acre Parcel. Bennett Dec., ¶ 10, Ex. J. Exhibit J shows orchards located directly to the East of the 160-acre Parcel, less than two-thirds of a mile away. Id., ¶ 11. In addition, Exhibit J shows several orchards to the immediate south of the 160-acre Parcel, a little more than half a mile away. *Id.*, ¶ 11.

More importantly, historical aerial photographs show the widespread presence of orchards throughout the Rialto-Colton Basin. *Id.*, ¶ 11, Ex. I. These photographs show

Page two of the Water Board Submission states, "Aerial photographs from the 1930s show no evidence of agricultural uses of the Property, or adjacent areas, or any areas hydrologically upgradient of the Property overlying the Rialto Groundwater Management Zone."

that the Rialto-Colton Basin was inundated with agricultural activities. *Id.* As one would expect with agricultural operations, water wells throughout the Rialto-Colton Basin are in very close proximity to the sites of historical citrus groves they served. Kavanaugh Dec., ¶ 85; Birdsall Dep. pp. 19:23-20:6; Bennett Dec., ¶¶ 8, 11, Exs. E, I. In fact, the vast majority of wells in the Rialto Groundwater Management Zone, are within half a mile of historical agricultural sites. Bennett Dec., ¶ 11; Exs. E, I.

Given the large amount of Chilean nitrate fertilizer used in the early-to-mid 20th century citrus growing activities, the amount of citrus farming and associated irrigation that took place in the Rialto area, and the proximity of wells of such agricultural activity, the historical use of Chilean nitrate fertilizer is an obvious source of the perchlorate contamination found in many of the wells through the Rialto-Colton Basin. The Advocacy Team's disregarding of Chilean nitrate fertilizer is unsupported and contrary to the evidence.

XIV. LEGAL ARGUMENTS

A. The Advocacy Team Bears The Burden Of Proof And Must Prove Its Case By A Preponderance Of The Evidence

The Advocacy Team bears the burden of proof and must prove its case by a preponderance of the evidence (*i.e.*, the "weight of the evidence"). It clearly has not done so.

The Hearing Officer has professed that this matter is purportedly being heard pursuant to the State Board's own motion under Water Code Section 13320.¹⁰² Any cleanup and abatement order ultimately issued by the State Board will be subject to judicial review pursuant to Water Code Section 13330. Water Code Section 13330(d)

The 2005 CAO and proposed amendments are the subject of challenges in petitions filed by various entities named as responsible parties. In light of the various objections and appeals, and then need to take action in an expeditious manner, the State Water Resources Control Board will review this matter *on its own motion*. (emphasis added.)

¹⁰² See Section 13320(a) ("The state board may, on its own motion, at any time, review the regional board's action or failure to act ..."). The Notice of Public Hearing, Revised Notice of Public Hearing, and Second Revised Notice of Public Hearing all provide:

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provides:

[e]xcept as otherwise provided herein, Section 1094.5 of the Code of Civil Procedure shall govern proceedings for which petitions are filed pursuant to this section. For the purposes of subdivision (c) of Section 1094.5 of the Code of Civil Procedure, the court shall exercise its independent judgment on the evidence in any case involving the judicial review of a decision or order of the state board issued under Section 13320, or a decision or order of a regional board for which the state board denies review under Section 13320, other than a decision or order issued under Section 13323.

(emphasis added). Under Code of Civil Procedure Section 1094.5(c), "independent judgment" is defined:

"[w]here it is claimed that the findings are not supported by the evidence, in cases in which the court is authorized by law to exercise its independent judgment on the evidence, abuse of discretion is established if the court determines that the findings are not supported by the weight of the evidence" (emphasis added).

Thus, the weight of the evidence must support the Advocacy's Team's case; in other words, the Advocacy Team must prove its case by a preponderance of the evidence. *Kapelus v. State Bar*, 44 Cal. 3d 179, 206, fn. 10 (1987) (equating the "weight of the evidence" standard with the preponderance standard). Because any order ultimately issued by the State Board based on this proceeding would be issued pursuant to Section 13320, should this matter be brought before the Superior Court, it will find an abuse of discretion by the Regional Board if the findings are not supported by the weight of the evidence. *Strumsky v. San Diego County Employees Retirement Association*, 11 Cal. 3d 28, 32 (1974).

B. Goodrich is not Liable Under Cal. Water Code Section 13304

The Advocacy Team's Memorandum of Points and Authorities and the Proposed Amended Cleanup and Abatement Order sets forth an incorrect standard of liability with respect to Goodrich's operations, and fails to demonstrate with credible evidence that Goodrich is liable under any standard of liability. In its charging papers, the 2006 Draft CAO, the Advocacy Team improperly seeks to hold Goodrich liable under the existing provisions of Section 13304, brushing over any allegation that Goodrich violated laws at the time of its operations, which occurred prior to the enactment of and subsequent

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amendments to the Porter-Cologne Water Quality Control Act (the "Porter-Cologne Act"), Water Code Sections 13000, *et seq.*¹⁰³

It is not until its Points and Authorities, does the Advocacy Team belatedly address the prospect of enforcing its CAO against parties that ceased operations long before the advent of the Porter-Cologne Act. This is too little too late. In particular, the Advocacy Team asserts that the alleged discharges were a violation of the Dickey Water Pollution Act (Stats. 1949, ch. 1549). Rather than providing any evidentiary support for its claim, the Advocacy Team merely cites a few State Board decisions, which are not only inapposite as a matter of law, but do nothing to prove a case against Goodrich. In proving a case against Goodrich, the Advocacy Team must persuasively and transparently apply law to the facts. At a minimum, the Advocacy Team must cite which law Goodrich allegedly broke, and usher forth facts which meet the burden of proof. The Advocacy Team not only falls short of this standard, but also affirms that Goodrich complied with the laws in effect at the time.

Goodrich is not and cannot be held liable under California Water Code

Section 13304 enacted decades after its operations ended in Rialto. First,

Section 13304 is not retroactive and cannot be applied to actions that occurred during the alleged timeframe of Goodrich's operations from 1957 to 1964, which preceded its original operative date of January 1, 1970. Second, subsequent modifications to Section 13304, in 1980, established, albeit inartfully, that no new liability was created for actions prior to the modification. Third, prior to the 1980 amendments, Section 13304 expressly required proof of intentional or negligent discharges, which has neither been

As a threshold matter, it is an open legal question whether the Regional Board or State Board can in fact legally prosecute Goodrich under *any* state statute. As discussed above (Section III), Goodrich's use of a burn pit at Rialto was mandated by numerous military Ordnance Manuals and Technical Orders that were issued pursuant to federal law by military commanders authorized to publish such regulations. As discussed below (Section XV), Goodrich's compliance with such military directives shields it from prosecution under state law.

¹⁰⁴ All statutory references in this section are to the California Water Code, unless otherwise stated.

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alleged nor proven in this matter. Fourth, the Regional Board has failed to prove Goodrich is liable even under the current version of the Water Code, as it has failed to demonstrate that Goodrich has caused or permitted, or threatens to cause or permit, any waste to be discharged or deposited where it is, or probably will be discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance. Water Code Section 13304(a).

The Advocacy Team Has Violated The Hearing Notice And Cannot Deviate From Its Charging Papers

The Notice of Public Hearing issued February 23, 2007, required the Advocacy Team to notify the State Board and the parties by February 27, 2007, as to whether the 2006 Draft CAO constituted the pleadings on which the Advocacy Team intended to base its case-in-chief or whether it intended to rely on a different document as its pleading. On February 27, 2007, the Advocacy Team provided notice confirming that it intended to use the 2006 Draft CAO as its pleading.

Nowhere in the 2006 Draft CAO does it allege that Goodrich, which it alleges operated from 1957 to 1964, is liable under any statutes other than the present versions of Water Code Sections 13304 and 13267. Only in its Points and Authorities, in a section addressing another party, does the Advocacy Team first allege that "discharges [which] occurred long before the present version of the Water Code was adopted" are actionable, claiming "discharges that were in violation of the Dickey Act, continue to be a violation of California law." Ad. Team P&As, page 10. Yet despite, these passing allegations, the Advocacy Staff's charging papers never allege a violation of the Dickey Act, never articulate the elements of liability under the Dickey Act, never proffer any evidence that demonstrates Goodrich is liable under the Dickey Act, and never explain how it authorizes the Regional Board to issue a CAO under the existing provisions of Water Code against Goodrich.

The Advocacy Staff cannot now go outside of its pleading and seek to prove a violation of the Dickey Act. The Advocacy Team had ample opportunity to amend its

allegations and did not do so. Accordingly, any attempt by the Advocacy Team to either prove a violation of the Dickey Act or enforce it, should be disregarded and stricken. See FPI Development, Inc. v. Nakashima, 231 Cal. App. 3d 367, 382 (1991). 105 As explained below, the Draft CAO cannot be adopted as the State Board is not authorized as a matter of law to issue orders under Water Code Sections 13304 and 13267 concerning discharges that predate the Porter-Cologne Act.

2. The Original Section 13304 and Its Successive Amendments Are Not Retroactive and Goodrich's Acts Were Legal At The **Time They Occurred**

California Water Code Section 13304 expressly provides that it is not retroactive and was not initially, nor ever subsequently, written or intended to have application to any acts before it was passed. This interpretation is consistent with decades of case law from the United States' and California's highest courts, and buttressed by ample evidence of the Legislature's—and even the State Board's—intent. The Advocacy Team tellingly fails to allege or brief this issue.

Even if the State Board were to improperly permit such a claim and erroneously interpret the statute as having retroactive application, the burden is still on the Advocacy Team to prove that Goodrich's actions were contrary to law at the time they occurred. The Advocacy Team has not met and cannot meet this burden because Goodrich's actions complied with applicable law at the time of its operations.

Section 13304 is Not Retroactive a.

Neither the Advocacy Team nor the State Water Board have jurisdiction to prosecute or adjudge Goodrich in this matter because the statute sought to be enforced. California Water Code Section 13304, does not retroactively apply to actions or discharges that occurred prior to its enactment. Water Code Section 13304 became

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Authorities.

In FPI Development, Inc. v. Nakashima, the Court of Appeal chastised the parties for

admission." 231 Cal. App. 3d at 382. Similarly, the Advocacy Team does not appear

confined by its pleading, as it raises new allegations of legal violations in its Points and

using its pleadings "as a ticket to the courtroom which may be discarded after

operative on January 1, 1970. 106 "[T]he first rule of statutory construction is that legislation must be considered as addressed to the future, not to the past...."

Evangelatos v. Superior Court, 44 Cal. 3d 1188, 1207 (1988). Statutes are not to be given retroactive effect absent a very clear indication that the legislature intended otherwise. Evangelatos v. Superior Court, 44 Cal. 3d at 1207; See also Californians for Disability Rights v. Mervyn's, LLC, 39 Cal. 4th 223, 230 (2006); Elsner v. Uveges, 34 Cal. 4th 915, 936 (2004) (Elsner); Myers v. Philip Morris Companies, Inc., 28 Cal. 4th 828, 840 (2002) (Myers); Tapia v. Superior Court, 53 Cal. 3d 282, 287 (1991) (Tapia); Aetna Cas. & Surety Co. v. Ind. Acc. Com., 30 Cal. 2d 388, 393 (1947) (Aetna); Jones v. Union Oil Co., 218 Cal. 775, 777 (1933); In re Cate, 207 Cal. 443, 448 (1929); Pignaz v. Burnett, 119 Cal. 157, 168 (1897).

The presumption that a statute is not retroactive is one of the strongest, oldest, and most unbending principles of statutory construction that exist, and has survived since this country's very first statutes were enacted. See, e.g., United States Fidelity & Guaranty Co. v. Struthers Wells Co., 209 U.S. 306, 314 (1908) ("The presumption is

Ann. Cal. Water Code § 13304 (West 2007).

¹⁰⁶ When originally enacted, Section 13304 read as follows:

⁽a) Any person who discharges waste into the waters of this state in violation of any waste discharge requirement or other order issued by a regional board, or who intentionally or negligently causes or permits any waste to be deposited where it is discharged into the waters of the state and creates a condition of pollution or nuisance, shall upon order of the regional board clean up such waste or abate the effects thereof. Upon failure of any person to comply with such cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring such person to comply therewith. In any such suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

⁽b) If such waste is cleaned up or the effects thereof abated by any governmental agency after issuance of a regional board cleanup or abatement order, such person shall be liable to that governmental agency to the extent of the reasonable costs actually incurred in cleaning up such waste or abating the effects thereof. The amount of such costs shall be recoverable in a civil action by, and paid to, such governmental agency and the state board to the extent of the latter's contribution to the cleanup costs from the State Water Pollution Cleanup and Abatement Account.

very strong that a statute was not meant to act retrospectively, and it ought never to receive such a construction if it is susceptible of any other."); *United States v. The Peggy*, 5 U.S. (1 Cranch) 103, 110 (1801). Beyond judge-made law, this principle has been codified in various California statutes for over a hundred years. *See*, *e.g.*, Cal. Code Civ. Proc., §3; Cal. Pen. Code §3; Cal. Civ. Code §3. California courts apply the same principles concerning retroactivity as the U.S. Supreme Court. *Evangelatos*, 44 Cal. 3d at 1209. As the U.S. Supreme Court has held:

The principle that statutes operate only prospectively, while judicial decisions operate retrospectively, is familiar to every law student. [Citations] This Court has often pointed out that the first rule of construction is that legislation must be considered as addressed to the future, not to the past.... The rule has been expressed in varying degrees of strength but always of one import, that a retrospective operation will not be given to a statute which interferes with antecedent rights ... unless such be "the unequivocal and inflexible import of the terms, and the manifest intention of the legislature." [Citations.]

United States v. Security Industrial Bank (1982), 459 U.S. 70, 79.

In fact, "a statute that is ambiguous with respect to retroactive application is construed...to be unambiguously prospective." *Myers*, 28 Cal. 4th at 841, citing *INS v. St. Cyr*, 533 U.S. 320-321, fn. 45 (2001) and *Lindh v Murphy*, 521 U.S. 320, 328, fn. 4 (1997). *Thus, if the statute has any ambiguities as to its retroactive application, it must be construed as prospective only*. ¹⁰⁷

"In a free, dynamic society, creativity in both commercial and artistic endeavors is fostered by a rule of law that gives people confidence about the legal consequences of their actions. [¶] It is therefore not surprising that the antiretroactivity principle finds expression in several provisions of our Constitution. The *Ex Post Facto* Clause flatly prohibits retroactive application of penal legislation.... The Fifth Amendment's Takings Clause[, and] [t]he Due Process Clause also protect[] the interests in fair notice and repose that may be compromised by retroactive legislation; a justification sufficient to validate a statute's *prospective* application under the [Due Process] Clause 'may not suffice' to warrant its *retroactive* application."

Myers, 28 Cal. 4th at 841, citing Landgraf v. USI Film Products, 511 U.S. 244, 265-266 (1994) and St. Cyr, 533 U.S. at 316 (emphasis added). When retroactive application of a statute would impose huge costs, as is the case here, these constitutional concerns speak even more forcefully. Myers, 28 Cal. 4th 828, 845-846. In Myers v. Philip Morris,

This high standard is justified because the presumption against retroactive application is grounded in constitutional concerns:

In California, a prerequisite to retroactive application is assessing whether such application would "change the legal consequences of past conduct by imposing *new* or *different* liabilities based on such conduct[.]" *Californians for Disability Rights*, 39 Cal. 4th at 231 (emphasis added), quoting *Tapia*, *supra*, 53 Cal. 3d at 291. If there are no changed legal consequences, the statute can be applied fairly. However, if there are changed legal consequences, retroactive application "*is forbidden*, *absent an express legislative intent to permit such retroactive application*." *Id.* at 231, quoting *Elsner*, *supra*, 34 Cal. 4th at 936-937 (emphasis added). ¹⁰⁸

Section 13304 cannot be retroactively applied because there would be changed legal consequences for pre-1969 conduct and the Legislature did not unambiguously intend (either explicitly or implicitly) the section is to have retroactive application. For instance, the cleanup and abatement provision of Porter-Cologne was a much ballyhooed new addition to water quality control law. Prior to its enactment, the Regional Board did not have authority to issue cleanup and abatement orders.

the California Supreme Court cited the constitutional implications of imposing huge monetary damages on a party for conduct that occurred when the party was immune from liability under a prior statutory regime. 28 Cal. 4th 828, citing *Eastern Enterprises v. Apfel*, 524 U.S. 498 (1998) (plurality opinion invalidating a law retroactively imposing substantial financial obligations based on due process and takings concerns and interests of government in protecting expectations and stability in law) and *Landgraf*, 511 U.S. 244.

¹⁰⁸ The core principle behind this doctrine is the basic right of parties to "have liability-creating conduct evaluated under the liability rules in effect at the time the conduct occurred." *Californians for Disability Rights*, 39 Cal. 4th at 233, citing *Elsner*, *Tapia*, and *Aetna*, *supra*). Because retroactive application of a statute abrogates this important right, it is critical that the statutory language speaks with exceptional clarity.

There are numerous examples where the courts have found a "changed legal consequence," prompting the court to reject retroactive application of the statute in question. See, e.g., Elsner, supra, 34 Cal. 4th at 937-938 (changed legal consequences in expanded contractors' tort liability for past conduct); Myers, supra, 28 Cal. 4th at 840 (changed legal consequences in broader tort liability imposed on formerly immune tobacco sellers); Tapia, supra, 53 Cal. 3d 282, 297-299 (changed legal consequences in increased punishment for past criminal conduct); Aetna, supra, 30 Cal. 2d at 393 (changed legal consequences where statute allowed increased damage awards to be imposed by administrative agency).

¹¹⁰ See Final Report of the Study Panel to the California State Resources Control Board, Study Project—Water Quality Control Program, p. 22 and App. A, pp. 67-68. (March, 1969) ("1969 Report") Ex. 20345; Ronald B. Robie, *Water Pollution: An Affirmative Response by the California Legislature*, 1 Pac. L. J. 1, 22-23 (1970). Ex. 20335.

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Moreover, as explained further below, the regional board could not bring an enforcement action against past discharges let alone order water replacement. No provision existed before Porter-Cologne that empowered the regional boards to cleanup pollution, recover costs or order water replacement.

Turning to legislative intent, enacted originally in 1969, Section 13304 was entirely silent on the question of retroactivity. 111 Ann. Cal. Water Code § 13304 (West. 2007). At the time of its initial consideration, the Legislature did not address the question of retroactivity. Thus, neither the text nor legislative intent even hint that the statute was meant to apply retroactively, much less unambiguously indicating so. Thus, the statute necessarily fails to meet the high bar set by the courts for retroactive application. Construction of the statute as retroactive would run afoul of the U.S. Constitution's Fifth Amendment's Takings and Due Process Clauses because of the substantial costs to be imposed on Goodrich, and would ignore the established canon of statutory construction that requires avoiding "constitutional infirmities." *U.S. Const.* amend. V; *Myers*, 28 Cal. 4th at 846-847. Although Section 13304 cannot be given retroactive effect as a matter of law, the Regional Board now seeks to enforce it against Goodrich for operations that occurred prior to its enactment thereby changing the legal consequences of its conduct after the fact.

b. Subsequent Amendments to Cal. Water Code Section 13304 Have Not Made it Retroactive, But Rather Confirm that It Was Not Intended to Apply to Acts Before Its Passage

The express language of Section 13304(j), as well as its legislative history, makes clear that the amendments made to Section 13304 in 1980 has no retroactive effect. In 1980, through A.B. 2700, the Legislature amended Section 13304(a) as follows:

In contrast, when it desires, the Legislature knows how to specify retroactive application. See, e.g., Civil Code § 1646.5 ("This section applies to contracts, agreements, and undertakings entered into before, on, or after its effective date; it shall be fully retroactive"); Govt. Code § 9355.8 ("This section shall have retroactive application..."); Probate Code § 2640.1(d) ("It is the intent of the Legislature for this section to have retroactive effect").

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Any person who has discharged or discharges discharges waste into the waters of this state in violation of any waste discharge requirement or other order or prohibition issued by a regional board or the state board, or who has caused or permitted, causes or permits, or threatens to cause or permit intentionally or negligently causes or permits any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance, shall upon order of the regional board clean up such waste or abate the effects thereof or, in the case of threatened pollution or nuisance, take other necessary remedial action. Upon failure of any person to comply with such cleanup or abatement order, the Attorney General, at the request of the board, shall petition the superior court for that county for the issuance of an injunction requiring such person to comply therewith. In any such suit, the court shall have jurisdiction to grant a prohibitory or mandatory injunction, either preliminary or permanent, as the facts may warrant.

Ex. 20330. This amendment, which added the past tense and omitted language concerning intentional or negligent behavior, *did not, as a matter of law, make the section retroactive*. As explained above, the mere use of the past tense does not overcome the presumption against retroactive application. *See, e.g., Myers*, 28 Cal. 4th at 842-843 (rejecting retroactive application of Civ. Code § 1714.45 as to parties who "have suffered or incurred injuries" and to claims which "were" brought). Moreover, the legislative history and lack of clarity in Section 13304(j) make it clear that the statute was not intended to and cannot have retroactive effect as a matter of law.

The legislative history¹¹² of A.B. 2700 demonstrates that the effect of the amendment adding the past tense was simply to allow the Regional Boards to issue cleanup and abatement orders concerning discharges which had ceased prior to discovery, but had occurred after enactment of the statute's amendment. Ex. 20343. The intent was *not* to reach activities that occurred years, or even decades, before its enactment. In fact this very concern was raised at the time of the bill's consideration. On June 4, 1980, at the time A.B. 2700 was under consideration, the California Manufacturers Association ("CMA") expressed such a concern. Robert Monogan of

¹¹² Goodrich respectfully requests that the Hearing Officer take judicial/official notice of the legislative history of the Porter-Cologne Act and specifically of A.B. 2700, Stats. 1980, c. 808, p. 2538, § 3. Evid. Code, §§ 452(c), 459.

This section does not impose any new liability for acts occurring before January 1, 1981, if the acts were not in violation of existing laws or regulations at the time they occurred. [116]

Ex. 20330. The bill was ultimately enacted with this language and the subdivision has not been amended since, other than being redesignated as subdivision "j." This subdivision expressly precludes retroactive application.

Any argument that subdivision (j) somehow permits retroactive application is contrary to its express terms and is clearly an insufficient expression of intent given its ambiguity. For instance, the universe of laws or regulations that can be alleged to have been violated for an entity to be brought within the scope of Section 13304 is entirely undefined. Would a speeding ticket suffice? If not, what are the logical confines of this clause? Moreover, what exactly does "new liability" mean in this context? Rather than encouraging a frolic and detour down the historical lane of possible legal violations, the clause is best read (again, *only if* one demands that the provision actually creates new liability) to preserve the right of the agency personnel (who were endorsing the changes in the law) to continue to prosecute the cases on their desks under the laws that existed when A.B. 2700 was passed.

Accordingly, subdivision (j) expressly precludes retroactive application of Section 13304. Any attempt to read retroactivity into the language of subdivision (j) must fail given it is not the unambiguous pronouncement of the Legislature's intent that necessary to impose retroactive liability, and such application is clearly contrary to the legislative history.

c. Even if the State Board Erroneously Interprets
Section 13304(j) as providing Retroactive Effect, the
Advocacy Team Bears the Burden of Proving that Acts
Occurring Before 1981 Were Contrary to Laws or
Regulations "At the Time They Occurred."

Even if the State Board was to erroneously render Section 13304(j) as permitting retroactivity, the Advocacy Team has not proven (and nor are there contemporary

¹¹⁶ Similar clauses appear in Health and Safety Code Sections 25187.6(e) and 25366(a), but that statutory language has also not yet been interpreted by courts.

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enforcement proceedings to suggest) that Goodrich's acts were contrary to law at the time they occurred. The Advocacy Team bears the burden of proving by a preponderance of the evidence that Goodrich violated laws or regulations applicable during its tenure at the site. The Advocacy Team must do more than simply point to, without further explanation or even pinpoint citation, recent State Board decisions, as it has done in its Points and Authorities. The Advocacy Team has not proven this and cannot do so, as there is no evidence to suggest that Goodrich's acts violated any such laws or regulations at the time they occurred.

To start with, past State Board decisions with respect to the interpretation of subdivision (j) inadequately address its application and are simply wrong in certain respects. In particular, the Advocacy Team cites to *County of San Diego*, WQ 96-2 (1996); *Lindsay Oliver Growers*, WQ 93-17 (1993), and *Aluminum Co. of America*, WQ 93-9 (1993), for the proposition "that discharges that were in violation of the Dickey Act, continue to be a violation of California law." *Tellingly, the Advocacy Team does not cite any provision or the elements of the Dickey Act*. Moreover, the Advocacy Team has provided no evidence, much less evidence that meets their` burden of proof, to prove that Goodrich's acts between 1957 and 1964, the time of its alleged actions, were indeed in violation of the Dickey Act at the time they occurred.

¹¹⁷ A basic yet important part of due process in this state is for an accused party to be notified of the laws it has been accused of violating. Thus, Goodrich reserves the right to respond to such charges outside of the mandated page limit the Hearing Office has provided in the rebuttal phase of this proceeding.

¹¹⁸ It is a rare legal exercise that requires the trying of a case concerning actions that occurred more than forty years ago with law that existed at the time. This is further evidence against a retroactive interpretation of Section 13304(j).

Implicit in the Advocacy Team's argument on this topic is that the reforms ushered in by the Porter-Cologne Act with much pomp and circumstance were illusory, and the statutes of the day would have applied to Goodrich's alleged discharge in the identical fashion as contemporary law. Obviously, this was not the case. The Advocacy Team would benefit from review of the controlling laws at the time and secondary sources. Resources might include *Water Pollution: An Affirmative Response by the California Legislature*, 1 Pac. L. J. 1, 22-23 (1970); *State Control of Water Pollution*, 1 U.C. Davis L. Rev. 1 (1969); *Quality Control and Re-use of Water in California*, 45 Cal. L. Rev. 586 (1957); and *California's Water Pollution Problem*, 3 Stan. L. Rev. 649 (1950-51). Ex. 20335.

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(1) Goodrich is Not Liable For Continuous or Passive Migration

The Advocacy Team is wrong in its claim that Goodrich is liable under Section 13304 "since the discharged material continues to migrate in the soil and groundwater toward further wells, the discharge constitutes a continuing violation subject to the Porter Cologne Act." Ad. Team P&As. Instead, the Advocacy Team must demonstrate, and it has not, that Goodrich's "acts," such as its alleged handling or disposal of perchlorate and TCE, were in violation of existing laws or regulations at the time they occurred between 1957 and 1964. As described below, it cannot do so.

The Advocacy Team's reliance on *Zeocon Corporation* contradicts the Dickey Act and is contrary to the existing language of Subsection (j), which at best might be argued to impose liability for "acts occurring before January 1, 1981, *if the acts were in violation of existing laws or regulations at the time they occurred.*" WQ 86-2 (emphasis added.) The Regional Board and State Board cannot so conveniently skirt the express provisions set forth by the Legislature in the Water Code by claiming that passive migration of contamination constitutes an "act" by Goodrich and reach back four decades later to impose liability that clearly did not exist at the time. Following the Advocacy Team's assertion that the mere migration of discharged material is actionable against a party, then virtually any discharge of waste prior to the enactment and amendments of Water Code Section 13304 would be actionable under Water Code Section 13304(a), completely eviscerating Water Code Section 13304(j) and at odds with the legislative history.

Rather, *Zeocon* at best is off point as it pertained to liability of an existing landowner for discharges that had occurred prior to its ownership of the property at issue. In fact, the authority relied upon by the State Board in *Zeocon* only lends further support that there is no authority, and never has been, to issue a cleanup and abatement order to the operator of a facility during the era of the Dickey Act, where a regulated discharge is discovered after the cessation of operations. Instead, as *Zeocon*

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points out, the responsibility for continuing migration would be on the "persons who presently have legal control over the property from which the harmful materials arises." Notably, all of the property owners of the 160-acre area, including Ken Thompson, Inc. who owns the McLaughlin pit, are inexplicably absent from the proposed CAO. See Section XVI.

The alleged "acts" in question involve an alleged discharge or disposal of waste by Goodrich in violation of existing laws or regulations at the time they occurred (i.e., 1957 to 1964), not the mere passive migration of contamination decades later from the alleged act of discharge or disposal. Both federal and state appellate courts have found passive migration to not be a "discharge." Sitting en banc, the Ninth Circuit held that passive migration was not a "discharge" or "deposit" under CERCLA. Carson Harbor Village Ltd. v. Unocal Corp., 270 F.3d 863, 879-80 (9th Cir. 2001) (en banc), citing 42 U.S.C. § 6903(3) and 42 U.S.C. § 9607(a)(2). In interpreting the term "discharge" in the context of a Proposition 65 claim, Cal. Health & Safety Code Section 25249.5, et seq., that passive migration constituted discharge, the California Court of Appeal in Consumer Advocacy Group, Inc. v. Exxon Mobil Corp. dismissed the claim stating that "discharge or release' as used in [Health and Safety Code Section 25249.5] refers to a movement of chemicals from a confined space into the land or the water. The subsequent passive migration of chemicals through the soil or water after having been so discharged or released by a party does not constitute another discharge or release within the meaning of section 25249.5." 104 Cal. App. 4th 438, 449 (2002).

(2) Goodrich Did Not Violate the Dickey Water Pollution Act

As the Advocacy Team points out, the Dickey Water Pollution Act (Stats. 1949, ch. 1549, p. 2782) was in force during the entire period in which Goodrich operated on the site. Neither the Advocacy Team's Points and Authorities, however, nor the cited State Board decisions, explain that the Dickey Act did not prohibit discharges outside of a waste discharge requirement and did not contain any authority for the Regional Board

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to order cleanup or abatement or water replacement. Rather, the Dickey Act, under limited conditions, authorized the regional water pollution control boards to regulate existing discharges by prescribing waste discharge requirements, which it did not do with respect to Goodrich's operations. For "discharges" involving industrial waste not into community sewer systems, the Regional Board initially had to determine that a "discharge" existed and then would have had to request that the discharger file a report of discharge. Cal. Water Code § 13054 (Deerings 1961); Ex. 20398. Thereafter, the Regional Board, after a hearing, would have had to prescribe waste discharge requirements. Only then, could the discharger be in violation of the law at the time if they failed to comply with the prescribed waste discharge requirements. With respect to the Goodrich operations, the Regional Board never made the initial request and never issued waste discharge requirements to Goodrich. Clearly, from 1957 to 1964, no one would have considered Goodrich's operations to be either regulated by or in violation of the Dickey Act.

> (a) There is No Evidence of a Discharge to Waters at the Time of Goodrich's Operations

There is no evidence that the alleged activities conducted by Goodrich would have been understood to have caused a discharge or resulted in a "discharge" as defined by the Dickey Act at the time. Under the Dickey Act, discharges were required to be constant and directly enter a water of the State:

> The tests which control whether a discharge of waste under the jurisdiction of a regional water pollution control board is occurring are these. First, there must be a present discharge, that is, a present flowing or issuing out, of harmful material from the site of a particular operation into the waters of the State. 27 Ops. Cal. Atty. Gen. 183 (1956); Cal. Water Code § 13054.3 (Deerings 1961.); Ex. 20399.

The pertinent part of Section 13054 stated: "Upon request of the regional board, any person presently discharging sewage or industrial waste within any region, other than into a community sewer system, shall file with the regional board of that region a report of such discharge." (Deerings 1961). See Discussion regarding "Dixie's Plume," supra. 121 This view of existing law is buttressed by State Board Chief Counsel Attwater's view of the law at the time as recorded in his letter to the California Manufacturer's

In contrast, Goodrich's actions did not constitute discharges because any of Goodrich's alleged discharges were not a "present flowing or issuing out" into the waters of the State. 122 Under the Dickey Act, the Regional Board did not have authority to issue waste discharge requirements to past operators, even where their former operations were later discovered to be the cause of a discharge. Instead, where there was a "current drainage, flow or seepage from inactive, abandoned or completed operations into waters of the State" resulting in a pollution or nuisance, waste discharge requirements proscribed by the Regional Board were to be "imposed upon the persons who presently have legal control over the property from which the harmful material arises." 26 Ops. Cal. Atty. Gen. 88, 90 (1956); County of San Diego, WQ 96-2; Aluminum Co. of America, WQ 93-9; see § 13305(f). 123

Given the depth to groundwater being over 400 feet, as further addressed above in Section III, there is no evidence to support that even if waste containing perchlorate or TCE was deposited on the ground, that it ever would have reached groundwater during the time that Goodrich operated. In fact, the evidence shows that any discharge of

Association. Ex. 20329 (stating "[u]nder existing law, the Regional Boards could not issue an order directing the mine owner to take necessary remedial action to prevent this from occurring.").

This deficiency of the Dickey Act was known and considered in the months before adoption of the Porter-Cologne Act. A task force created at the behest of Assemblyman Porter echoed this interpretation in a study document that is acknowledged as the official legislative history of the Porter-Cologne Act. Final Report of the Study Panel to the California State Resources Control Board, Study Project—Water Quality Control Program, p. 55 (March, 1969) ("1969 Report") Ex. 20331, 20345. These recommended changes were endorsed by the State Board on March 20, 1969 before transmittal to the Legislature.

¹²³ This reasoning is also relied upon by the Advocacy Team in citations to SWRCB Orders 96-2 and 93-9. Ad. Team P&As, 30. The Legislature has established a clear liability policy regarding "nonoperating industrial or business location[s]" under Section 13305(f), which provides: "The owner of the property on which the condition exists, or is created, is liable for all reasonable costs incurred by the regional board or any city, county, or public agency in abating the condition." At the very least, these authorities further indicate, in addition to the factual adduced above concerning the current owner's obvious connection with the property and responsibility for the McLaughlin Pit, that the Advocacy Team and State Board should be pursuing the persons who have legal control over the 160-acre property. In fact, it is negligent and an abuse of discretion for the Water Boards to not prosecute the current owner.

waste by Goodrich still would not have reached the groundwater under the conditions of the site and its operations. Oxley Dec. ¶¶ 13, 14; Kresic Dec. ¶ 18, 54; Kavanaugh Dec. ¶ 35.

Moreover, there is no evidence that the Regional Board ever required, or ever would have required, the issuance of any waste discharge requirements for Goodrich's operations at the time. The evidence shows that Goodrich carefully burned its waste in compliance with the military standards of the day and that there was no reason to believe that waste would be discharged to the waters of the State. Oxley Dec. ¶¶ 13, 14; Merrill Dec. ¶¶ 15, 16, 19, 29; Kresic Dec. ¶¶ 18, 24-25, 52, 54. Instead, the evidence is to the contrary, that Goodrich's operations were intended to eliminate its waste material given safety concerns over potential explosions and fires and that the burning of the waste would never have been thought of at the time as leaving any residual mass of perchlorate capable of being discharged to groundwater at the 160-acre parcel, let alone at the time of Goodrich's operations. Merrill Dec. ¶¶ 15; Oxley Dec. ¶¶ 13, 14.

(b) There is No Evidence that a Discharge from Goodrich's Operations caused Pollution or a Nuisance at the time.

Even if a "discharge" to waters of the State did exist at the time of Goodrich's operations, it would have also had to had caused "pollution" or a "nuisance" as defined in the Dickey Act at the time, which it did not:

[T]he discharge of the sewage or industrial waste must, of course, cause a "pollution" or a "nuisance" as defined in the Act (Water code sec. 13005). That is, it must result in either (1) impairment of the quality of the waters of the State to a degree which adversely and *unreasonably* affects such waters for beneficial uses, *i.e.*, pollution; or (2) damage to any community by odors or unsightliness by virtue of the discharge being *unreasonable*, *i.e.*, nuisance. [¶] Whether harmful material is *currently* draining or seeping or flowing into the waters of the State and whether there is a resultant pollution or nuisance must be ascertained under the facts of each case.... (emphasis in original) 27 Ops. Cal. Atty. Gen. 184 (1956). See also Cal. Water Code § 13005 (Deerings 1961), Ex. 20398.

¹²⁴ In a 1970 law review article, an original State Board member stated that "The present definition of nuisance is considered to be practically unenforceable because of its requirements of proof of the vague terms "damages" and "unreasonable practices…"

In the case at hand, the Advocacy Team has not, and cannot, demonstrate that a discharge of perchlorate during the late 1950's and early 1960's would have been considered either pollution or a nuisance. In fact, in its Points and Authorities, the Advocacy Team asserts that decades later in 1987 "perchlorate was not known at the time to regulatory agencies, or others, as a threat to the beneficial uses of the groundwater." Ad. Team P&As, p. 90. Likewise, the Advocacy Team claims that in 1987 "perchlorate was not considered to be a groundwater contaminant of concern in the Santa Ana Region, or anywhere else. . . . There were no drinking water standards or drinking water advisory levels for perchlorate. Perchlorate was not known to exist in groundwater, since an analytical method capable of detecting perchlorate in groundwater was not developed until 1997." *Id.* As such, the Advocacy Staff cannot also claim that a discharge of perchlorate would have been recognized as being the cause of pollution or a nuisance at the time of Goodrich's operations decades earlier.

Further, the Advocacy Team has put forth no evidence as to what level of perchlorate contamination existed in the groundwater or would have constituted "pollution" or a "nuisance" during the time of Goodrich's operations. Even today, the evidence demonstrates that the levels of perchlorate detected in the groundwater in the Rialto-Colton Basin would not cause an adverse health effect. Borak Dec. ¶ 37-42. No one has come forward attesting to the fact that either a condition of pollution or a nuisance existed at the time of Goodrich's operations.

(3) Advocacy Team has Not Proven that Goodrich Negligently or Intentionally Discharged Waste

Even if the State Board erroneously seeks to apply Water Code Section 13304 to Goodrich's operations, the Advocacy Team would need to demonstrate that Goodrich would be liable under the initial version of the Water Code Section 13304(a), which was limited to intentional or negligent discharges. The State Board has previously

Ronald B. Robie, *Water Pollution: An Affirmative Response by the California Legislature*, 1 Pac. L. J. 1, 8 (1970). Ex. 20335.

acknowledged that strict liability is limited to only acts occurring after January 1, 1981. County of San Diego, City of National City, and City of National City Community

Development Commission, WQ 96-2 (1996); Lindsay Olive Growers, WQ 93-17 (1993).

Prior to 1981, Water Code Section 13304(a) only applied to persons "who intentionally or negligently causes or permits any wastes to be deposited where it is discharged into the waters of the state and creates a condition of pollution or nuisance." (emphasis added).

The Advocacy Team has demonstrated neither.

The evidence is that Goodrich was fastidious in the running of its operations. *See* Section III, *supra*; Merrill Dec. ¶¶ 12-14. Goodrich diligently abided by the safety procedures prescribed at the time by the United States military, which required Goodrich to burn its waste. *See* Section III, *supra*; Merrill Dec. ¶¶ 12-15. One cannot find that thirty years later, Goodrich intentionally or negligently discharged into the groundwater.

In the context of Section 13304, a finding of negligence would need to include, among other things, proof that Goodrich did not comply with the applicable standard of care of the day. The Advocacy Team has not adduced any evidence demonstrating that Goodrich violated any relevant standard of care at the time of its operations or any other element necessary to prove negligence. The standard of care analysis is an objective standard. When the standard of care is not fixed by statute, ordinance, regulation, safety order or company rule, the settled standard for determining what ordinary care would have required in particular circumstances is the hypothetical conduct of a person assumed to be reasonably prudent." Cal. Jur. 3d Negligence § 25.

Translated to the business context, the standard of care is that of a professional, skilled

See, e.g., Raymond v. Paradise Unified School Dist., 218 Cal. App. 2d 1, 6 (1963), citing McEvoy v. American Pool Corp., 32 Cal. 2d 295, 298 (1948) and Routh v. Quinn, 20 Cal. 2d 488, 491-492 (1942) (negligence requires the existence of a duty to use care as to the person bringing the negligence action; proof of a breach of such duty by the creation of an unreasonable risk of harm; proximate cause; and actual harm. "In California, harm or injury to the plaintiff is an essential element of a ripe cause of action in negligence or strict liability." Buttram v. Owens-Corning Fiberglas Corp., 16 Cal. 4th 520, 531, fn. 4 (1997), citing Sinai Temple v. Kaplan 54 Cal. App. 3d 1103, 1113 (1976). As stated above, the only evidence generally addressing harm proves that there was no such harm. Borak Dec. ¶ 37-42.

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company. See, e.g., Sea-Land Service, Inc. v. Matson Terminal Co., 253 Cal. App. 2d 885, 889 (1967). "Although custom does not fix the standard of care, evidence of custom is ordinarily admissible for its bearing on the issue of whether particular conduct was negligent. Such evidence is received . . . to aid the trier of fact in determining whether the particular conduct of a party did or did not measure up to the care required in the particular case." Cal. Jur. 3d Negligence § 31, citing Gyerman v. United States Lines Co., 7 Cal. 3d 488 (1972).

The Advocacy Team does not deny that the alleged actions of Goodrich were in line with the standard of the day. Goodrich diligently abided by the safety procedures prescribed at the time by the United States military, which required Goodrich to burn its waste. See Section III, *infra*; Merrill Dec. ¶ 13-15. For the same reasons, there is no evidence that Goodrich intentionally discharged any waste to waters of the state. Rather, as discussed above in Section III, the military procedures, which Goodrich abided by, were calculated to eliminate the waste. In addition, no one had the requisite knowledge at the time to form the necessary intent that Goodrich's operations would cause a discharge to the groundwater over 400 feet below the ground surface. See Section III, *supra*. Forty years later, one simply cannot find that Goodrich intentionally or negligently discharged into the groundwater.

(4) There is No Evidence that Goodrich Violated Any Other Laws at the Time

The Advocacy Team does not alleges that Goodrich violated any other laws at the time of its operations. The State Board decisions concerning pre-1981 liability under Water Code Section 13304 relied upon by the Advocacy Team reference certain other laws that it holds can potential form the basis of liability, including the Health and Safety Code Sections 5410-5462, Fish and Game Code Section 5650, and nuisance. *County*

¹²⁶ See, also, Cal. Civ. Code Section 1714.6, infra.

of San Diego, WQ 96-2 (1996); Lindsay Oliver Growers, WQ 93-17 (1993); Aluminum Co. of America, WQ 93-9 (1993). The Advocacy Staff has failed to demonstrate that Goodrich is liable under any of these laws, nor can it.

(a) Goodrich did not violate Health and Safety Code Sections 5410-5462

When enacted in 1949, the Dickey Act and related provisions in the Health and Safety Code defined the terms "contamination" and "pollution" to delineate the mutually exclusive regulatory responsibilities of the State Water Pollution Control Board and the State Department of Public Health. 26 Ops. Cal. Atty. Gen. 254. The Regional Boards had no authority to address contamination. *Id.; Quality Control and Re-use of Water in California*, 45 Cal. L. Rev. 586, 587-88. Instead, the State Department of Public Health and local health officers enforced provisions related to public health under the Health and Safety Code. See Cal. Health & Safety Code § 5410-5462 (Deerings 1961).

"Contamination" was defined as an "impairment of the quality of the waters of the State by sewage or industrial waste to a degree which creates an actual hazard to the public health through poisoning or through the spread of disease." § 13005 (Deerings 1961); Cal. Health & Safety Code § 5410 (Deerings 1961). (emphasis added.) The Advocacy Team has not demonstrated that any impairment of the quality of the groundwater occurred during Goodrich's operations or from Goodrich's alleged discharge, let alone that Goodrich created an actual hazard to public health. As the definition clearly states, contamination must create an actual hazard to the public health through poisoning or spread of disease. The Advocacy Staff has presented no evidence to demonstrate that "contamination" existed at the time of Goodrich's operations, or as explained below, that any alleged discharge caused by Goodrich was of such a degree that it created an actual hazard to public health. See Section III, infra. On the other hand, the only evidence advanced in this proceeding weighs against a finding of actual harm to any person's health, either forty years ago or today. See Section III, infra.;

Borak Dec. ¶ 37-42.

Further, there can be no contamination if the public is effectively excluded from any contaminant. 26 Ops. Cal. Atty. Gen. 256, Ex. 20399. The Advocacy Team has not adduced evidence to suggest that Goodrich created any such hazard that manifested at the time of its operations on the property. In addition, there is no evidence that an investigation or enforcement order was ever issued against Goodrich at the time of its operations. The Advocacy Team has not proven that Goodrich violated the Health and Safety Code at the time of its operations.

(b) Goodrich did not Violate Fish and Game Code Section 5650

To no surprise, the Advocacy has not attempted to demonstrate that Goodrich violated the Fish and Game Code, nor can it. In fact, the Fish and Game Code clearly could not even have applied to the allegations at hand.

Enacted roughly at the time when Goodrich began operating on the property, Section 5650 remained unchanged for almost forty years. Over the duration that Goodrich inhabited the property, Section 5650 provided:

It is unlawful to deposit in, permit to pass into, or place where it can pass into the *waters of this State* any of the following:

- (a) Any petroleum, acid, coal or oil tar, lampblack, aniline, asphalt, bitumen, or residuary product of petroleum, or carbonaceous material or substance.
- (b) Any refuse, liquid or solid, from any refinery, gas house, tannery, distillery, chemical works, mill or factory of any kind.
- (c) Any sawdust, shavings, slabs, or edgings.
- (d) Any factory refuse, lime, or slag.
- (e) Any cocculus indicus.
- (f) Any substance or materials deleterious to fish, plant life, or bird life. Stats. 1957, c. 456, p. 1394 § 5650 (emphasis added).

The Advocacy Team has not proven that Goodrich "deposited" or "permitted to

This Opinion of the Attorney General cited a 1949 Assembly Interim Fact-Finding Committee on Water Pollution for further support of this proposition.

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pass" any of the substances in subdivisions (a) through (f) into "waters of this State." Equally important, under the Fish and Game Code, "waters of this State" does not include groundwater.

Section 5650 was enacted to protect fish and any interpretation must remain true to that purpose. The Attorney General, in a 1966 opinion, interpreted Section 5650 in the context of pesticide deposition to artificially constructed irrigation canals. The opinion concluded that "in constructed channels where fish would not occur naturally, there would be no violation of section 5650 if fish have been excluded from the sections where the deleterious material or substances retain their harmful effects." 48 Ops. Atty. Gen. 23, 24, 30 (1966) (emphasis added). To comport with the purpose of the statute, to protect fish life, "waters of this state" must be defined as waters that contain fish. Because the Attorney General did not conceive of the statute as protecting groundwater, it would not have been enforced against Goodrich. 128 It follows that because the groundwater at issue in this matter have no "fish therein," such waters are not "waters of this state" for purposes of the Fish and Game Code and would have been considered by the State to be "waters of this state" at the time of Goodrich's operations. Thus, Goodrich could not have violated Section 5650 during its operations on the property.

(5) Goodrich Did Not Commit A Public Nuisance

As explained above, given the Advocacy Team's own allegations as to the state of knowledge with respect to perchlorate in not only the 1950's and 1960's but decades later, they cannot legitimately claim that Goodrich would have been found to have

See, also, People v. Miles, 143 Cal. 636, 641-42 (1904) (Addressing Penal Code § 636, a companion statute to Penal Code Section 635, which was the predecessor of Section 5650, and holding: "The dominion of the state for the purpose of protecting its sovereign rights to the fish within its waters, and their preservation . . . extends to all waters within the state, public or private, wherein these animals are habited or accustomed to resort for spawning or other purposes, and through which they have freedom of passage to and from the public fishing-grounds of the state. To the extent that the waters are the common passageway for fish . . . they are deemed for such purposes public waters, and subject to all laws of the state regulating the right of fishing.") (emphasis added) (quoting People v. Truckee Lumber Co., 116 Cal. 397 (1897)).

caused a public nuisance during the time of its operations in Rialto. Moreover, to prove a public nuisance claim, the Advocacy Team has to (1) identify a public right (2) where Goodrich's actions were unprivileged and substantially interfered with that right and that (3) Goodrich's conduct was negligent. *Lussier v. San Lorenzo Water District*, 206 Cal. App. 3d 92, 104-106 (1988). The Advocacy Team cannot meet this legal standard.

Civil Code section 3479 codifies the acts constituting nuisance as

"[a]nything which is injurious to health [...] or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property, or unlawfully obstructs the free passage or use, in the customary manner, of any navigable lake, or river, bay, stream, canal, or basin, or any public park, square, street, or highway[.]"

A public nuisance differs from a private nuisance in that it affects "at the same time an entire community or neighborhood, or any considerable number of person..." Civ. Code § 3480. There is no record and the Advocacy Team has provided no evidence to demonstrate that Goodrich did anything injurious to health or caused an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property at the time of its operations, let alone an entire community. If fact, as demonstrated in aerial photographs, Goodrich's operations back in the 1950's and early 1960's, were separated and far from the public. Plus, the evidence suggests that the existing perchlorate concentrations are not "injurious to health." Borak Dec. ¶¶ 37-42.

Further, nuisance actions are designed to redress a substantial and unreasonable invasion of one's interest in the free use and enjoyment of property. *Lussier v. San Lorenzo Water District*, 206 Cal. App. 3d at 100. While the central focus is the alleged unreasonable invasion, liability depends on conduct that directly and unreasonably interferes with the interest or creates a condition that does so. *Ibid* (citing numerous treatises). Liability may result from an invasion that is intentional and unreasonable, unintentional but caused by negligent or reckless conduct, or result from an abnormally dangerous activity for which there is strict liability. *Ibid*. Liability will not arise when the invasion is intentional but reasonable, entirely accidental, or not within the categories

listed above. *Ibid*. Citing cases from the era when Goodrich operated on the site, the court concluded that the law in California required negligent conduct for the imposition of nuisance liability. *Ibid*. (citing *Spaulding v. Cameron*, 38 Cal. 2d 265, 266 (1952); *Granone v. County of Los Angeles*, 231 Cal. App. 2d 629, 649-651 (1965); citing also *Sturges v. Charles L. Harney, Inc.*, 165 Cal. App. 2d 306, 317-318 (1958); *Calder v. City etc. of San Francisco*, 50 Cal. App. 2d 837, 839-840 (1942)). 129

Because Goodrich's operations did not interfere with any public (or even private) right, Goodrich could not have committed a nuisance. There is no evidence that there was any interference of anyone's right at the time of Goodrich's operations. At the time the alleged acts occurred in the late 1950's to the early 1960's, perchlorate was not recognized as a health issue. See discussion, infra. Moreover, as further addressed below, Goodrich's actions were not negligent. Its acts, if anything, were on a par with or exceeded the standards of the day, as required by its contracts with the military. See Section XV, supra.

3. Goodrich Is Not Liable Under Section 13304 Even If Existing Standards Apply

Even if Section 13304 is erroneously applied to Goodrich, the Advocacy Team has failed to meet its burden of proof with respect to Goodrich under the required elements of the statute. In particular, Section 13304(a) requires that the Advocacy Team prove that Goodrich (1) caused or permitted, causes or permits, or threatens to cause or permit any waste to be discharged or deposited; (2) where it is, or probably will be discharged into the waters of the state; and (3) creates or threatens to create, a

Lussier distinguished early holdings where a rule of strict liability prevailed, stating that "[i]n course of time the law came to take into consideration not only the harm inflicted but also the type of conduct that caused it, in determining liability. This change came later in the law of private nuisance than in other fields. Private nuisance was remediable by an action on the case irrespective of the type of conduct involved. Thus the form of action did not call attention to the change from strict liability to liability based on conduct. But the change has occurred, and an actor is no longer liable for accidental interferences with the use and enjoyment of land but only for such interferences as are intentional and unreasonable or result from negligent, reckless or abnormally dangerous conduct." Lussier, 206 Cal. App. 3d at 101 (emphasis added).

condition of pollution or nuisance.

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Goodrich Did Not Cause or Permit Waste to be a. Discharged or Deposited Into Waters of the State

The Advocacy Team has not proven the first two elements of Water Code Section 13304(a). It has not demonstrated that Goodrich "caused or permitted . . . or threatens to cause or permit any waste to be discharged or deposited where it is, or probably will be discharged into the waters of the state." Section 13304(a). While the charging papers (the Draft CAO) and the Advocacy Team's Points and Authorities allege that Goodrich used perchlorate and TCE, both documents conspicuously lack any actual evidence that any waste allegedly discharged or deposited by Goodrich either reached waters of the state, or that there is any probability of such. In fact, under oath in deposition the Advocacy Team readily admitted that they do not have any evidence to demonstrate that any discharge by Goodrich reached the groundwater or that it probably will. Saremi Dep., 656:19-24; Sturdivant Dep., 717:15-24; Holub Dep., 933:8-23, 934:10-20, 935:2-5, 93:10-15, 984:25-985:4, 985:18-21, 988:20-23. Rather, the Advocacy Team concedes that the only confirmed discharges to groundwater in the Rialto area are from the McLaughlin pit on the 160-acre parcel, which was constructed years after Goodrich operated on the property and from the Robertson Ready Mix water operations. Saremi Dep., 264:3-7, 391:12-17; Thibeault Dep., 378:19-379:5.

Nor has the Advocacy Team demonstrated that Goodrich is a person that threatens to cause or permit any waste to be discharged or deposited to the waters of the state. Goodrich's operations ended decades ago. It cannot be construed to be threatening to permit any waste to be discharged or deposited to the waters of the state.

There is No Proof that Any Discharge by Goodrich Has b. Caused or Threatens to Create "Nuisance" or "Pollution"

The Advocacy Team must further demonstrate that Goodrich "has caused . . . waste to be discharged or deposited where it is, or probably will be discharged or deposited into the waters of the state and creates, or threatens to create, a condition of pollution or nuisance." Section 13304(c). (emphasis added). The Advocacy Team has not proven that any discharge by Goodrich that reached waters of the state created or threatens to create a condition of "nuisance" or "pollution." Any and each alleged discharge from Goodrich's operations must be of a sufficient magnitude to create or threaten to create a condition of "pollution" or "nuisance."

"Pollution" is defined in section 13350(I) as "an alteration of the quality of the waters of the state by waste to a degree which unreasonably affects . . . [t]he waters for beneficial uses." Section 13050(m) defines "nuisance" to mean anything which meets *all* of the following requirements: (1) is injurious to health, or is indecent or offensive to the senses, or an obstruction to the free use of property, so as to interfere with the comfortable enjoyment of life or property; (2) affects at the same time an entire community or neighborhood, or any considerable number of persons, although the extent of the annoyance or damage inflicted upon individuals may be unequal; (3) occurs during, or as a result of, the treatment or disposal of wastes.

To support its allegations, the Advocacy Team attempts to string together a daisy chain of facts by citing to certain levels of shallow soil contamination and potentially down gradient groundwater data, but utterly fails to sustain its burden of proof that there was any amount of waste actually discharged to the groundwater by Goodrich that would constitute either pollution or a nuisance. It is clearly insufficient to allege that contamination as a whole can be found in the groundwater that would be considered as pollution or a nuisance. The Advocacy Team must demonstrate that *Goodrich* discharged waste in an amount that would constitute pollution or a nuisance. It has not done so.

Moreover, the Advocacy Team has not proven that any of the alleged Goodrich discharges were in amounts that caused "pollution" that altered the quality of the waters of the state to a degree which unreasonably affects its beneficial uses. Kresic Dec. ¶¶ 24-25, 52-53. An impairment of a water's beneficial uses must be determined by reference to an exceedance of an applicable water quality objective. Water Code

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Section 13241. The Advocacy Team has not even specified which water quality objectives in the Santa Ana River Basin Plan have been exceeded, nor by how much the objectives have been exceeded.

Regarding nuisance, the Advocacy Team has not proven that Goodrich's alleged discharge caused, or threatens to cause, a condition that is injurious to health or any other elements of nuisance as defined by Section 13050(m). The Advocacy Team has not presented any evidence of the particular levels of perchlorate or TCE caused by any alleged discharge by Goodrich to the groundwater, nor has presented any evidence that that such particular levels are injurious to health, are is indecent or offensive to the senses, are obstructed the free use of property, so as to interfere with the comfortable enjoyment of life or property. See, e.g., Borak Dec. ¶ 37-42.

The Advocacy Team has also not shown that any waste allegedly disposed of by Goodrich threatens to be discharged to the groundwater and it cannot. Section 13304(e) defines "threaten" in the context of cleanup and abatement orders as "a condition creating a substantial probability of harm, when the probability and potential extent of harm make it reasonably necessary to take immediate action to prevent, reduce, or mitigate damages to persons, property, or natural resources." The alleged areas of disposal are now capped under vast areas of concrete at the Rialto Concrete plant. Bennett Dec. ¶ 16. This barrier has formed an effective cap since the late 1980's. Kavanaugh Dec. ¶ 28. With this cap, there is no evidence that any contaminants can be mobilized and that no immediate action is necessary to prevent, reduce or mitigate damages to anyone. Kavanaugh Dec. ¶ 29, 91.

Accordingly, the Advocacy Team has not met its burden. It has proven that Goodrich discharged waste directly into waters of the state or in a manner where the discharge would have a probability of entering waters of the state. Critically, the Advocacy Team has not proven that Goodrich's discharge actually migrated to the groundwater in amounts that indeed caused pollution or nuisance or to a location and in an amount where there is a substantial probability of pollution or nuisance.

1. Water Code Section 13304(c)(1) only permits recovery of Government Agency Cleanup Costs Pursuant to a Civil Action

Water Code Section 13304(c)(1) only permits the recovery of cleanup costs by government agencies pursuant to a "civil action", not through the issuance of a cleanup and abatement order as sought by the Advocacy Team. The Advocacy Team is barred from seeking such costs in the subject proceedings.

In the Draft CAO, the Advocacy Team seeks to order Goodrich to "reimburse [the water purveyors] for past and ongoing reasonable costs incurred in cleaning up the waste, abating the effects of the waste, supervising cleanup or abatement activities, or taking other remedial action, in accordance with Section 13304(c)(1) of the California Water Code." Draft CAO, ¶13. It goes on to provide that the Executive Officer will be the arbiter of awarding the costs. *Id.* Remarkably, the Advocacy Team's points and authorities as to this issue are even more vague than the proposed CAO and lacks any support for the Draft CAO.

Regardless, the proposed order is clearly outside the authority of Water Code Section 13304(c)(1), which provides that "the amount of the costs is recoverable in a *civil action* by, and paid to, the government agency and the state board . . ." (emphasis added.) Accordingly, neither the Regional Board, its Executive Officer, nor the State Board are authorized to award such costs.

Not only does the Advocacy Team's assertion run contrary to the express language of Section 13304(c)(1), but the Advocacy Team has put forth no evidence of demonstrating that any costs were actually incurred by "government agencies" to cleanup or abate the effects of Goodrich's waste or that any such costs were "reasonable." There is absolutely no evidence submitted documenting either the amount of the "costs actually incurred," what was done, who incurred the costs, who was paid, that the costs were incurred by "government agencies," or how the costs were

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"reasonable." Nor is there any support that these phantom costs pertained to cleaning up or abating the effects of Goodrich's alleged discharges.

Rather, in a clear instance of the "fox guarding the hen house," the Draft 2006 CAO astonishingly seeks to authorize the Executive Officer, the lead prosecutor in this matter, to be the arbitrator for awarding such costs in the future. Certainly, no court would ever provide the prosecutor or the plaintiff with the authority to determine the amount of such an award.

Section 13304 Impermissibly Affords Water Replacement

The State Board cannot issue water replacement orders pursuant to Water Code Section 13304. The water replacement provisions do not retroactively apply to Goodrich and are federally preempted.

The Water Replacement and Reimbursement Provisions a. **Are Not Retroactive**

The amendments from 2003 to Section 13304 regarding water replacement did not make the law retroactive. As explained above, Goodrich's actions occurred many years prior to the amendments and there is no clear legislative intent to make the provisions retroactive. Although the Legislature has had many opportunities to make Section 13304 retroactive, it has repeatedly not done so.

Further, subdivision (I), at best, can be interpreted to provide authority for water replacement back to the effective date of the Porter-Cologne in 1970, but certainly not prior to its existence:

> The Legislature declares that the amendments made to subdivision (a) of this section by Senate Bill 1004 of the 2003-04 Regular Session [regarding water replacement] do not constitute a change in, but are declaratory of, existing law.

Section 13304(I). Moreover, there is no support that Section 13304 actually did authorize the Regional Board to issue orders for water replacement prior to the 2003 amendments. The evidence and the law is actually to the contrary and cannot be so easily whitewashed.

The legislative intent is clear that Water Code Section 13304 did not previously authorize the Regional Board to issue cleanup and abatement orders requiring water replacement or reimbursement prior to the 2003 amendments. "The evolution of a proposed statute after its original introduction in the Senate or Assembly can offer considerable enlightenment as to legislative intent . . . Generally the Legislature's rejection of a specific provision which appeared in the original version of an act supports the conclusion that the act should not be construed to include the omitted provision."

People v. Hunt, 74 Cal. App. 4th 939, 947-948 (1999), citing People v. Gooloe, 37 Cal. App. 4th 485, 491 (1995) (citations omitted); Central Delta Water Agency v. State Water Resources Control Bd., 17 Cal. App. 4th 621, 634-635 (1993) (citations omitted).

"Accordingly, '[t]he sweep of [a] statute should not be enlarged by insertion of language which the Legislature has overtly left out." Id., citing People v. Brannon, 32 Cal. App. 3d 971, 977 (1973); Traverso v. People ex rel. Department of Transportation 46 Cal. App. 4th 1197, 1207 (1996).

In the California Legislative session of 2000, Assembly Member Calderon introduced Assembly Bill 2646 ("AB 2646"), sponsored by the California Water Association, to make certain amendments to Water Code § 13304. Ex. 20339, 20340. The legislative history of AB 2646 makes it clear that, at that time, the Legislature specifically contemplated and decided against granting the Regional Board authority to mandate replacement water or reimbursement for water treatment. In particular, on August 7, 2000, AB 2646, was amended in the Senate proposing to modify Water Code § 13304(a) as depicted in the following underlined text:

Any person who has discharged or discharges waste into the waters of this state . . . shall upon order of the regional board, clean up the waste or abate the effects of the waste, including, but not limited to, the provision of replacement water or reimbursement for water treatment facilities for public water systems whose wells have been contaminated by the waste, rending the wells otherwise unavailable for use by the public water system . . .

Ex. 20341. On August 30, 2000, the Senate specifically removed this proposed provision while the bill remained pending. Ex. 20342. Accordingly, the Legislature

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consciously chose not to grant the Regional Board authority to require water replacement and/or reimbursement to water purveyors for water treatment.

Moreover, similar attempts by the Legislature to "declare what the law was", as with the 2003 amendments to Section 13304, have been met with doubt by the judiciary. For example, the California Supreme Court in *McClung v. Employment Development Dept.*, recently rejected such a statutory declaration as a legislative invasion of the judiciary:

The legislative power rests with the Legislature. Subject to constitutional constraints, the Legislature may enact legislation. But the judicial branch interprets that legislation. Ultimately, the interpretation of a statute is an exercise of the judicial power the Constitution assigns to the courts. Accordingly, it is the duty of this court, when ... a question of law is properly presented, to state the true meaning of the statute finally and conclusively.... It is true that if the courts have not yet finally and conclusively interpreted a statute and are in the process of doing so, a declaration of a later Legislature as to what an earlier Legislature intended is entitled to consideration. But even then, a legislative declaration of an existing statute's meaning is but a factor for a court to consider and is neither binding nor conclusive in construing the statute. This is because the "Legislature has no authority to interpret a statute. That is a judicial task. The Legislature may define the meaning of statutory language by a present legislative enactment which, subject to constitutional restraints, it may deem retroactive. But it has no legislative authority simply to say what it did mean.

34 Cal. 4th 467, 472-73 (2004) (citations and quotation marks omitted).

What is undisputable is that the 2003 amendments and Section 13304(I) do not provide for retroactive application back to Goodrich's operations in the 1950's and 1960's, before which Section 13304 was first enacted. As the California judicial decisions were explicated above, any application of the water replacement provisions to Goodrich in this matter would clearly "change the legal consequences of past conduct by imposing *new or different* liabilities based on such conduct.]" *Californians for Disability Rights*, 39 Cal. 4th at 230. At the time of Goodrich's conduct, the Water Code did not provide authority to the Regional Board, or any other right, for water replacement. With such a change in legal consequences, the Legislature would need to speak in certain terms for the statute to be retroactively applied.

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The Water Replacement and Reimbursement Provisions Are Preempted by CERCLA and the City of Rialto Is Collaterally Estopped from Advancing Related Claims

The U.S. Comprehensive Environmental Response, Compensation, and Liability Act of 1980 ("CERCLA"), 42 U.S.C. § 101, et seq., preempts the water replacement provisions of Section 13304. In addition, the City of Rialto is collaterally estopped from seeking relief under these provisions as a result of the U.S. District Court's Order finding that its state law claims were preempted and their subsequent dismissal. Order Granting In Part and Denving In Part Defendants' Motion to Strike, City of Rialto, et al. v. U.S. Department of Defense, et al., Case No. ED CV 04-00079 VAP (SGLx) (filed April 15, 2004) ("Rialto Dismissal"). Ex. 20332.

> Water Code Section 13304's Water Replacement (1) Provisions Conflict with the NCP and are Preempted by CERCLA

The 2003 amendments providing for water replacement are distinctly different and unlike other authority set forth in Section 13304. While the Regional Board's authority for the cleanup and abatement of waste pertain to cleaning up and abating the effects of discharges to the "waters of the state," the water replacement provisions inserted into Section 13304 oddly leap into new and different territory for the Regional Board by purporting to authorize it to order an alleged discharger to replace another party's well water. In essence, the 2003 amendments purport to make the Regional Board the arbiter of a dispute as between other parties, rather than being responsible for the safequarding of the state's groundwater. This is the function of courts, which are wellsituated to make such determinations, not the Regional Board. The task of proving up damages before a court, in matters similar to this one, proceeds under the full rigor of the Evidence Code and due process afforded.

The National Contingency Plan ("NCP"), 40 C.F.R. Part 300, et seq., is a detailed set of regulations promulgated by the U.S. Environmental Protection Agency ("U.S. EPA") that set forth standards under which contaminated properties are to be characterized and cleaned up. See, e.g., Carson Harbor Village Ltd. v. Unocal Corp.,

287 F. Supp. 2d 1118, 1152 (C.D. Cal. 2003). Totaling approximately 275 pages of regulatory text, the NCP extensively details the roles of federal, state, and local governments in responding to contaminated sites, and establishes the procedures for making cleanup decisions. 40 C.F.R. Part 300; See U.S. v. City of Denver, 100 F.3d 1509, 1511 (10th Cir. 1996).

The chief goal of the NCP is to achieve a "CERCLA-quality cleanup." 40 C.F.R. § 300.700(c)(3)(i). The basic elements of CERCLA require that a remedy be protective of human health and the environment, utilize permanent solutions and alternative treatment technologies to the maximum extent practicable, and be cost effective. 42 U.S.C. § 9621(b)(1). An important component of the NCP is requiring community involvement and public comment. 40 C.F.R. § 300.415(n).

"Under the Supremacy Clause of the United States Constitution, state laws that "interfere with, or are contrary to the laws of Congress" are preempted and are therefore invalid." Fireman's Fund Ins. Co. v. City of Lodi, 302 F. 3d 928, 941 (9th Cir. 2002) ("Fireman's Fund"), citing Gibbons v. Ogden, 22 U.S. (9 Wheat) 1, 211 (1824).

"Congressional intent governs our determination of whether federal law preempts state law. If Congress so intends, '[p]re-emption ... is compelled whether Congress' command is explicitly stated in the statute's language or implicitly contained in its structure and purpose. [Citations]" Fireman's Fund, 302 F. 3d at 941. When a state law stands as "an obstacle to the accomplishment and execution of the full purposes and objectives of Congress," the state law is preempted. Fireman's Fund, 302 F. 3d at 943, citing California Fed. Sav. and Loan Ass'n v. Guerra, 479 U.S. 272, 281 (1987). In finding that CERCLA preempted certain nonfederal legal provisions, the Ninth Circuit in Fireman's Fund warned plaintiffs that, while state statutes may provide an apparent "escape route" from the constraints of the NCP, "litigants may not invoke state statutes in order to escape the application of CERCLA's provisions in the midst of hazardous waste

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A remedy afforded by state law that is not consistent with the NCP necessarily constitutes an obstacle to the accomplishment and execution of the full purposes and objectives of Congress. Obligations sought to be imposed on parties that are not consistent with, or necessary under, the requirements of the NCP impermissibly conflict with CERCLA. Without NCP consistency, the state provisions conflict with the goal of timely and cost-effective cleanup of hazardous waste sites because of additional cost, complication, and interference with congressional priorities and order of operations established by statute and extensive regulation. See Stanton Road Assoc, v. Lohrey Enter., 984 F.2d 1015, 1019 (9th Cir. 1993). The requirements also run afoul of constituting an "overly strict regulatory demand," which is disfavored in this federal circuit. Fireman's Fund, 302 F.3d at 947-48 (citing reports by the U.S. Senate, U.S. EPA, National Governors Association, and the U.S. Conference of Mayors). 132

CERCLA does not preempt the field of hazardous waste cleanup), the basic rules of

conflict preemption still remain. See Fireman's Fund Ins. Co. v. City of Lodi, 302 F.3d

¹³⁰ The Ninth Circuit's holding is consistent with cases from the Second, Third, Seventh, and Tenth Circuits and numerous District Court rulings. Twice, the Second Circuit has held CERCLA to preempt state law claims that would have allowed recovery without NCP compliance. In Bedford Affiliates v. Sills, the court found the state law remedies of restitution and indemnification to potentially interfere with a CERCLA policy. 156 F. 3d 416 (2d Cir 1998). This holding was later reaffirmed in Goldman, Sachs & Co. v. Esso Virgin Is., Inc. (In re Duplan Corp.). 212 F. 3d 144, 150 fn. 7 (2d Cir. 2000). In deciding In re Reading Company, the Third Circuit found a conflict between CERCLA's settlement scheme and the state law remedies of contribution and restitution. 115 F. 3d 1111 (3d Cir 1997). The court reasoned that "[p]ermitting independent common law remedies would create a path around the statutory settlement scheme, raising an obstacle to the intent of Congress." *Id.* at 1117. In *PMC*, *Inc.* v. *Sherwin Williams Company*, the Seventh Circuit refused to allow a claim under Illinois law that could have allowed a contribution claim inconsistent with the NCP. 151 F.3d 610, 618 (7th Cir. 1998). The court found that, unlike the state law causes, the federal law encourages CERCLAquality cleanups through consistency with the NCP. Ibid. Several years earlier, the Tenth Circuit noted that it "would be incongruous for federal law to bar private recovery unless there has been substantial compliance with the NCP, but then permit recovery under a contribution theory through mere compliance with less demanding state regulations." County Line Investment Co. v. Tinney, 933 F. 2d 1508, 1517, fn. 13 (10th Cir. 1991). Together, these cases constitute a significant body of law discouraging state law claims except in compliance with the NCP. 131 While CERCLA's savings clauses allow some room for state regulation (and thus

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(2) The federal District Court has twice ruled that the Water Purveyors may not evade the NCP

In adjudicating the City of Rialto's lawsuit, the court dismissed the City's state law claims finding that they were preempted by CERCLA and the NCP. *Rialto Dismissal*, 24. The court reasoned, "[i]f Plaintiffs' are allowed to pursue their state law tort claims, they may be allowed to recover damages without compliance with the National Contingency Plan." *Id.* (emphasis added.) Citing *Fireman's Fund*, the court concluded that the state law claims stood as an obstacle to the accomplishment and the execution of the full purposes and objectives of Congress. *Id.* Whether this ruling is applied to reimbursement for water already provided, reimbursement for groundwater investigation, or an order to provide water or wellhead treatment, the outcome is the same. All three types of relief constitute the same kind of cost recovery that concerned the court in the City of Rialto's federal case; if the State Board accords such relief, it would frustrate the goal of the NCP to achieve a timely and effective cleanup. Thus, the Advocacy Team's claims concerning water replacement must similarly be dismissed.

The federal district court also dismissed a lawsuit brought by the City of Colton finding the city had not complied with the NCP. Order Granting Defendants' Motion for Summary Judgment, or in the Alternative, for Partial Summary Judgment, *City of Colton v. American Promotional Events, Inc. – West, et al.*, Case No. CV 05-1479-JFW (SSx) (filed October 31, 2006) ("*Colton Dismissal*") Ex. 20333. In that case, the court dismissed the claims for water replacement because the City had not performed a number of actions that were required by the NCP. *Id.* at 1-10. The City should have (1) properly initiated a removal site evaluation, (2) reviewed the removal site evaluation, (3) properly determined a threat to public health or welfare as a result of actual or potential contamination of drinking water supplies, (4) conducted an engineering evaluation/ cost analysis, (5) developed a sampling and analysis plan, (6) conducted

CERCLA to preempt other laws where settlements would be prejudiced by application of state law. See, e.g., In re Reading Company, 115 F.3d 1111, 1117 (3d Cir. 1997).

community relations planning, (7) determined the adequacy of community relations through outreach to specified persons, (8) formulated a formal community relations plan, and (9) solicited comments from the public concerning the engineering evaluation/ cost analysis, among other requirements. Colton Dismissal, 7-9 (citing various provisions at 40 C.F.R. § 300.415). Id. The court also noted that an additional precondition to valid claim for water replacement under the NCP was proof of the legal requirement to stop serving water from the impacted wells. Colton Dismissal, 9, fn. 12. Again, there is no evidentiary basis for making that finding in this proceeding.

> (3)The City of Rialto is Collaterally Estopped from Advancing Claims Related to Water Replacement and Reimbursement

The City of Rialto, a designated party to these proceedings, is precluded by the doctrine of collateral estoppel from seeking the same claims that were defeated in the federal litigation. City of Rialto v. U.S. Department of Defense, supra. The City of Rialto cannot now attempt to avoid the NCP and "back door" its recovery for alleged water replacement costs under state law in direct contravention of the District Court's ruling dismissing its state claims. In other words, the City is not allowed a second bite at the apple, and the Hearing Officer should not endorse the City's transparent forum shopping.

The City makes no secret of its attempt get relief through the State Board proceedings for which it have been unsuccessful in federal district court. The City of Rialto and the Advocacy Staff have confirmed that they have a joint prosecution agreement. See, e.g., Transcript of Proceedings, March 15, 2007, City of Rialto, et al., v. United States Department of Defense, et al., No. CV-00079 PSG (SSx), 24:17-25:3. Ex. 20357. Utilizing the State Board proceedings to get relief is a key element of the City of Rialto's strategy:

> The second prong of Rialto's plan is to provide evidence gathered from discovery in the litigation to the Santa Ana Regional Water Quality Control Board for its use in Administrative Proceedings against the potentially responsible parties to compel them to investigate and clean up the perchlorate in the Rialto Basin. Rialto

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is working cooperatively with the Water Quality Board to support its issuance of "Clean Up and Abatement Orders" or CAOs. . . the benefits of the lawsuit have just begun. The City is currently cooperating with the Regional Water Quality Control Board in its upcoming proceedings to issue Clean Up and Abatement Orders against other corporate polluters, including Black & Decker, Inc., Emhart Industries, Inc., B.F. Goodrich and Pyro Spectaculars, Inc. On October 13, 2006, the Regional Water Quality Control Board adopted a resolution appointing a hearing officer, and ordering the commencement of the proceedings against these very parties. The City of Rialto has joined the proceeding to assist in the prosecution of the polluters. "The City's Perchlorate Clean-Up Plan," City of Rialto Website, http://www.rialtoca.gov/perchlorate/water_rialto-perchlorate-plan.php

However, "Collateral estoppel precludes a party to an action from re-litigating in a second proceeding matters litigated and determined in a prior proceeding." *People v. Sims*, 32 Cal. 3d 468, 477 (1982). The first judgment operates as a conclusive adjudication as to such issues in the second action as were actually litigated and determined in the first action. *Clark v. Lesher*, 46 Cal. 2d 874, 880 (1956). When an issue was decided in prior litigation, collateral estoppel applies to conclusively determine those issues against the party in a subsequent lawsuit on a *different* cause of action. *Vandenberg v. Superior Court*, 21 Cal. 4th 815 (1999), citing *Teitelbaum Furs v. Dominion Insurance Co.*, 58 Cal. 2d 601,604. Because the City of Rialto is bound by the federal determination, it necessarily is bound by that determination in this forum. *See Vandenberg*, 21 Cal. 4th at 828, citing *Lucido v. Superior Court*, 51 Cal. 3d 335, 341 (1990). Collateral estoppel may be applied nonmutually, and thus it is not necessary for this proceeding to include parties identical to the federal action for the City of Rialto to be precluded from raising these issues before the State Board. *See Vandenberg*, 21 Cal. 4th at 828. ¹³³

and protect litigants from harassment by vexatious litigation. *Vandenberg*, 21 Cal. 4th at 829. Allowing the City of Rialto to relitigate their claims in this forum is contrary to this policy.

The Advocacy Team Has Not Proven That Wells are "Affected" by Goodrich

Section 13304(a) provides that a "cleanup and abatement order issued by the state board or a regional board may require the provision of, or payment for, uninterrupted replacement water service, which may include wellhead treatment, to each affected public water supplier or private well owner." In the proposed CAO and in their Points and Authorities, the Advocacy Team has not proven that any well owner has been "affected" by a discharge caused by Goodrich.

The Advocacy Team nebulously claims that a condition of pollution or nuisance exists because there has been an interference with municipal and beneficial uses ("MUN") of the groundwater. Ad. Team P&As, p. 12. However, not only must the Advocacy Team prove the elements of a Cleanup and Abatement Order, as discussed above, but it must (and has not) further demonstrated that *Goodrich's discharge* has affected the drinking water well(s), including that Goodrich's discharge has contaminated the well to a degree constituting "pollution" or "nuisance."

Nor does the Advocacy Team point to any violation of the Basin Plan. While the Advocacy Team points to the bounds of Regional Board regulatory authority as the reasonable protection of beneficial uses through establishment and enforcement of water quality objectives adopted in regional water quality control plans (Water Code §§ 13240-13247, 13263), it fails to specify which applicable water quality objectives have been violated Goodrich, or how the asserted beneficial use has been specifically impaired by Goodrich. 134

d. Water Replacement Cannot be Ordered Where No Water Standards Are Exceeded

Citing Olin Corp. and Standard Fusee Corp. WQ 05-07 (2005), the Advocacy

The MUN beneficial use dictates that groundwater in the Rialto and Colton subbasins meet certain narrative and numeric objectives. *Santa Ana River Basin Water Quality Control Plan*, pp. 4-13, 4-14, 4-39, *available at* http://www.waterboards.ca.gov/santaana/html/basin_plan.html ("Basin Plan").

ELPS & Team seeks to order Goodrich to provide water replacement for water that contains perchlorate above the unenforceable Public Health Goal (PHG) of 6 ppb established by the California Office of Environmental Health Hazard Assessment (OEHHA). Ad. Team P&A's, 106; Draft CAO, ¶ 65 and 66. However, both the Olin Order and the Advocacy Team are wrong as a matter of law. No water replacement order may be issued for perchlorate without an enforceable standard (i.e., an MCL). The Advocacy Team further concedes that only one well subject to the Proposed CAO contains TCE above its MCL. Draft CAO, ¶ 56. Until an MCL is issued for perchlorate, there is no authority for water replacement orders under Water Code Section 13304.

As the State Board recognized in *Olin*, "there is currently no enforceable state or federal standard for perchlorate in drinking water for use in determining when a well is affected such that the use should be entitled to replacement water service." *Olin Corp. and Standard Fusee Corp.* WQ 05-07 (2005) at 3. To date, no MCL for perchlorate has been developed by either DHS or the U.S. EPA. DHS is responsible for adopting these legally binding and enforceable standards and has been specifically charged with developing an MCL for perchlorate. Health & Safety Code § 116293(b). An MCL is defined as the "primary drinking water standard for contaminants in drinking water." While the MCL is to be set at a "level that is as close as feasible to the corresponding PHG, placing primary emphasis on the protection of public health," it by no means will necessarily be at the same level of the PHG. *Id.* § 116365(a). The MCL constitutes "the level of contaminants that, in the judgment of the department, may have an adverse effect on the health of persons" and is the maximum permissible level of a contaminant

¹³⁵ A reviewing court would not accord deference to the State Board because it is exercising regulatory control out of its jurisdiction. *Chevron U.S.A., Inc. v. Natural Resources Defense Council, Inc.*, 467 U.S. 837, 844 (1984) (establishing that deference is given to an agency construing a statute that *it administers*).

However, in January 2006, EPA promulgated guidance for the assessment of perchlorate as part of NCP activities that identified the "to be considered" level as the drinking water equivalent level of 24.5 micrograms per liter (24.5 parts per billion or "ppb"). "Memorandum: Assessment Guidance for Perchlorate," U.S. EPA, January 26, 2006.

in water. Id. § 116275 subd. (c), (f).

Reliance on the PHG instead of an MCL, which is not a standard, runs contrary to Water Code Section 13304(f) and Health & Safety Code § 116365(c)(2), which prohibits both OEHHA and the California Department of Health Services (DHS) from imposing a mandate on a public water system based on a PHG. In fact, the State Board, the Regional Board, and OEHHA are not authorized to regulate drinking water, which is the exclusive realm of DHS. Health and Safety Code Section 116350(a) mandates that DHS "shall administer the provisions of this chapter and *all other provisions relating to the regulation of drinking water to protect public health*" (emphasis added).

Additionally, the use of the PHG runs contrary to the express guidance of OEHHA, which provides:

A PHG represents a health-protective level for a contaminant that DHS and California's public water systems should strive to achieve if it is feasible to do so. However, a PHG is not a boundary line between a "safe" and "dangerous" level of a contaminant, and drinking water can still be considered acceptable for public consumption even if it contains contaminants at levels exceeding the PHG. As long as drinking water complies with all MCLs, it is considered safe to drink, even if some contaminants exceed PHG levels. Frequently Asked Questions (FAQs) About the Public Health Goal for Perchlorate, OEHHA, March 11, 2004.

Likewise, the DHS "notification level" for perchlorate of 6 ug/L in drinking water cannot be relied upon as a standard for issuance of water replacement order. DHS' own recommendations with respect to its notification levels runs contrary to using the equivalent notification level for perchlorate as the "standard" for water replacement. When exceeded, notification levels only require a drinking water system to notify the governing body of the local agency in which users of the drinking water reside. Health and Safety Code § 11 6455. Notification levels are advisory levels and not enforceable standards. ¹³⁷

137 See, e.g.,

http://www.dhs.ca.gov/ps/ddwem/chemicals/al/default.htm#REQUIREMENTS%20AND%20RECOMMENDATIONS.

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Borak Dec. ¶ 37-42.

Rather, DHS recommends that if a chemical is present in drinking water that is provided to consumers at concentrations considerably greater than the notification level, that the drinking water system take the source out of service depending upon the toxicological endpoint that is the basis for the notification level, ranging from 10 to 100 times the notification level. This DHS response level for perchlorate is ten times the notification level, or 60 micrograms (µg) per liter. *Drinking Water Notification Levels and Response Levels: An Overview*, California Department of Health Services—Drinking Water Program, p. 2, *available at*http://www.dhs.ca.gov/ps/ddwem/chemicals/AL/PDFs/notificationoverview.pdf. Further, neither the Advocacy Team nor the State Board have proffered any evidence to demonstrate that 6 ug/L is an appropriate standard. The evidence is to the contrary.

Finally, none of the parties have adduced evidence concerning the background condition of the drinking water prior to the alleged discharges. Water Code § 13304(f). The Advocacy Team has failed to demonstrate whether any of the levels of perchlorate found in the wells at issue are over and above the background levels for the basin or what levels existed prior to the time of the alleged discharges.

D. An Order Pursuant To Water Code Section 13267 Is Inappropriate

The Advocacy has neither properly plead nor demonstrated that an order pursuant to Water Code Section 13267 is appropriate. After years of voluntary investigation and expending millions of dollars, Goodrich has exceeded any conceivable obligation it could have as a suspected discharger in light of the associated burden.

Pursuant to Water Code Section 13267(a):

http://www.dhs.ca.gov/ps/ddwem/chemicals/al/default.htm#REQUIREMENTS%20AND% 20RECOMMENDATIONS (last visited April 10, 2007).

¹³⁸ For chemicals with a non-cancer toxicological endpoint, the recommendation occurs at 10 times the notification level. For chemicals considered to pose a cancer risk, the recommendation occurs at 100 times the notification level. Department of Health Services Website, *available at*

"the regional board may require that any person who has discharged, discharges, or is suspected of having discharged or discharging . . . to furnish, under penalty of perjury, technical or monitoring program reports which the regional board requires. The burden, including costs, of these reports shall bear a reasonable relationship to the need for the report and the benefits to be obtained from the reports. In requiring those reports, the regional board shall provide the person with a written explanation with regard to the need for the reports, and shall identify the evidence that supports requiring that person to provide the reports." Water Code § 13267(b)(1). (emphasis added.)

Before Section 13267 can never be applied to this matter, several statutory prerequisites must yet be satisfied. First, the Advocacy Team or State Board must overcome the presumption against retroactive application of the statute. For the same arguments advanced regarding the retroactive application of Section 13304 to Goodrich's acts, Section 13267 similarly does not, and cannot, operate retroactively. See Section XIV(B)(2), supra. Each of the parties to this proceeding have the right to "have liability-creating conduct evaluated under the liability rules in effect at the time the conduct occurred," unless the Legislature has specifically abrogated that right. Californians for Disability Rights, 39 Cal. 4th at 233, citing Elsner, Tapia, and Aetna, supra.

Section 13267 was enacted in 1969, whereas Goodrich operated on the subject property from 1957 to early 1964. In the absence of an express indication that Section 13267 was to have retroactive effect, the statute cannot survive the presumption against it. Similarly, any prior manifestations of Section 13267 do not authorize the Regional Board to order Goodrich to do anything decades after.

As with Section 13304, imposition of the statute retroactively implicates the same constitutional takings and due process concerns when huge financial burdens are imposed on entities that were in full compliance with the law actually in force at the time. *Myers*, 28 Cal. 4th 828, 845-846. Also similar to Section 13304, there is no indication in Section 13267 that it can be used jointly and severally in a manner that asks one discharger to investigate the discharges of others. *See* Section XIV(E). Concerning the same matter as this proceeding, when reviewing a prior challenge to the Water Boards'

Section 13267 authority by the Emhart Parties, where it rejected the Regional Board's order, the Riverside Superior Court stated:

The far more difficult question is whether or not the statute as applied in this particular case afforded Petitioner [Emhart] both substantive and procedural due process....the more onerous the burden created by the § 13267 order, the greater the procedural due process requirements.... The requirements of Due Process will depend on the circumstances of each case. (1) the size of the burden in producing the requested reports; (2) the scope of the danger to public health if the reports are not produced; (3) the immediacy of the danger to public health if the reports are not produced; whether the required testing is to be performed solely on the property owned by the entity being ordered to do the testing, or whether the § 13267 order seeks testing on other property. [139]

Statement of Decision, *Emhart Industries, Inc. vs. California Regional Water Quality Control Board*, Riverside County Superior Court, Case No. RIC 397528 (filed November 8, 2004).

In addition, the Advocacy Team must identify the "plan or requirement" to which the Advocacy Team is responding under Section 13267(a). There is also no authority that Section 13267 orders are appropriate in this context. The CAO does not pertain to a water quality control plan and waste discharge requirements as set forth in Section 13267(a). See, e.g., City of Arcadia v. State Water Resources Control Bd., 135 Cal. App. 4th 1392, 1413-14 (2006) (finding that Water Code Section 13267 did not apply to the Los Angeles Regional Board's adoption of a program designed to cleanup trash in the Los Angeles River and embodied in an amendment to the water quality control plan).

¹³⁹ The court noted in a footnote that "[a]n order that someone pay for testing on other people's property, however, can only be justified by a finding that the entity paying for the testing is somehow responsible for the need for the testing."

¹⁴⁰ In addition, any ultimate order relying on Section 13267 authority must be consistent with being a "technical or monitoring program report." § 13267(b)(1). The Advocacy Team's Points and Authorities appear to require the parties to conduct further *investigations*. Ad. Team P&As, pp. 106-108. Logically, "technical or monitoring program reports" are data that help inform an "investigation." Instead, the Advocacy Team seeks to have the parties conduct the entire investigation that is authorized by Section 13267(a), as opposed to providing simple reports that would aid the State in investigating. The term "technical or monitoring program report" more aptly refers to the compilation of already-existing data, rather than the task of place of the state.

The Advocacy Staff has also failed to meet, and cannot do so, the balancing test set forth in Section 13267. Significantly, the Advocacy Team has not performed any transparent balancing of burden and benefit as required under Section 13267(b)(1). Goodrich has conducted extensive soil and groundwater investigation on the 160-acre parcel and throughout the Rialto basin and has expended millions of dollars doing so. Yet, even after these extensive studies pursuant to work plans reviewed and approved by the Regional Board and the U.S. EPA, the Advocacy Team admits that (1) there is still no proof of a discharge to water from Goodrich (Saremi Dep., 656:19-24; Sturdivant Dep., 717:15-24; Holub Dep., 933:8-23, 934:10-20, 935:2-5, 93:10-15, 984:25-985:4. 985:18-21, 988:20-23), and (2) the Advocacy Team does not know what future steps to take to identify the causes or sources. See Holub Dep., 933:8-23, 934:10-20, 935:2-5, 93:10-15, 984:25-985:4, 985:18-21, 988:20-23.

Goodrich's efforts to date far exceed what the Boards can reasonably request of it. The burden imposed upon Goodrich has already vastly exceeded that permitted under any reading of Section 13267. As a "suspected discharger" only, Goodrich has already more than met any and all purported obligations under Section 13267 and there is no authority to order it to do anything more pursuant to Section 13267.

E. Goodrich Is Not Subject To Joint And Several Liability

On the second to last page of their written submission, and without citation to legal authority, the Advocacy Team suggests that any potential order should impose a joint and several obligation on the alleged dischargers. Ad. Team P&As, 108-109. There is no authority for this proposition. To start with, the text itself of Section 13304 imposes a several obligation. Second, "severable" liability is appropriate when any injury is divisible, as is the case here if there are violations of Section 13304. Finally, as entities that contributed the perchlorate contamination, the Regional Boards is estopped from imposing joint and several liability.

1. Section 13304 Imposes a Several Obligation Only

California law provides for three types of legal obligations: joint, several, and joint

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and several. Civ. Code § 1430. California law imposes a general presumption against ioint and several obligations unless there are express words to the contrary. Civ. Code § 1431. The interpretation of a several obligation, rather than a joint and several one, is consistent with the policy adopted by the People of California, as codified at Civil Code § 1431.1, viewing the imposition of joint and several liability as frequently inequitable and unjust.

Section 13304 imposes only a several obligation. The text of Section 13304 clearly requires the Regional Board to demonstrate that each discharge of waste causes or permits, or threatens to cause of permit, the waste to be discharged or deposited where it is, or probably will be, discharged into waters of the state and creates, or threatens to create, a condition of pollution or nuisance. Section 13304(a) further provides that such person "shall upon order of the regional board, clean up the waste or abate the effects of the waste . . ." The language of the statute does not state that each proven discharger shall be responsible for cleaning up and abating the waste caused by all other discharges that ever occurred on the site.

The creation of a several obligation is further evidenced by the conspicuous lack of text in section 13304 making reference to or intention to impose a "joint and several" obligation. In fact, the statute is devoid of any mention of a joint and several obligation which would be an obvious and necessary requirement for the imposition of such liability.

2. Severable Liability Is Further Appropriate Because the Injury Imposed is Divisible

The evidence demonstrates, and Regional Board staff concede, that the appearance of perchlorate in the Rialto area's groundwater is likely to have come from a number of separate actions taken over decades by operators of various industries in different places in the greater Rialto area.

Traditional Tort Principles Dictate that Liability Is a. Severable In This Proceeding

Where an injury is distinct or divisible, the liability of a defendant is severable and

the defendant is responsible for remedying only that portion of the injury. Restatement (Second) of Torts § 433A. 141 "Comment b" of section 433A of the Restatement addresses "distinct harms":

There are other results which, by their nature, are more capable of apportionment. If two defendants independently shoot the plaintiff at

There are other results which, by their nature, are more capable of apportionment. If two defendants independently shoot the plaintiff at the same time, and one wounds him in the arm and the other in the leg, the ultimate result may be a badly damaged plaintiff in the hospital, but it is still possible, as a logical, reasonable, and practical matter, to regard the two wounds as separate injuries, and as distinct wrongs. The mere coincidence in time does not make the two wounds a single harm, or the conduct of the two defendants one tort. There may be difficulty in the apportionment of some elements of damages, such as the pain and suffering resulting from the two wounds, or the medical expenses, but this does not mean that one defendant must be liable for the distinct harm inflicted by the other.

"Comment d" of section 433A of the Restatement addresses "divisible harms:"

There are other kinds of harm which, while not so clearly marked out as severable into distinct parts, are still capable of division upon a reasonable and rational basis, and of fair apportionment among the causes responsible. Thus where the cattle of two or more owners trespass upon the plaintiff's land and destroy his crop, the aggregate harm is a lost crop, but it may nevertheless be apportioned among the owners of the cattle, on the basis of the number owned by each, and the reasonable assumption that the respective harm done is proportionate to that number. Where such apportionment can be made without injustice to any of the parties, the court may require it to be made.

The Advocacy Staff has not put forth any evidence in this proceeding demonstrating the Goodrich has caused an indivisible harm in the first place. Moreover, the facts show that any perchlorate contamination that could be conceivably attributed to Goodrich's operations would be at best limited to shallow soil contamination and easily capable of apportionment under the rationales of the Restatement, and thus that liability is

¹⁴¹ It is well-documented that courts during the era when Goodrich operated relied on the Restatement (Second) of Torts. *Carlotto, Ltd. v. County of Ventura,* 47 Cal. App. 3d 931 (1975) (embracing the Restatement (Second)'s Section 433A and stating that it is in accord with the law as enunciated in *Fibreboard Paper Products Corp. v. East Bay Union of Machinists,* 227 Cal. App. 2d 675 (1964)); *Cronin v. J.B.E. Olson Corp.,* 8 Cal. 3d 121 (1972) (embracing Restatement (Second) of Torts Section 402A regarding product liability); *Van Arsdale v. Hollinger,* 68 Cal. 2d 245 (1968) (finding support in the Restatement (Second) for ruling on nonliability of independent contractors). While the Restatement (Second) was not published until 1965, it would have accounted for the developments in law during the period in which Goodrich operated in Rialto.

severable from liability for other areas on the 160-acre site or for the groundwater.

b. Liability Under California's Principal Hazardous Waste Remediation Law is Apportioned According to Fault

The policy of the State is clearly set forth by the Legislature in the Carpenter-Presley-Tanner Hazardous Substance Account Act ("HSAA"), California's principal law for the remediation of hazardous waste sites. Health and Safety Code §§ 25300-25395.45. Liability under the HSAA is apportioned according to fault:

- (a) Except as provided in subdivision (f), any party found liable for any costs or expenditures recoverable under this chapter who establishes by a preponderance of the evidence that only a portion of those costs or expenditures are attributable to that party's actions, shall be required to pay only for that portion.
- b) Except as provided in subdivision (f), if the trier of fact finds the evidence insufficient to establish each party's portion of costs or expenditures under subdivision (a), the court shall apportion those costs or expenditures, to the extent practicable, according to equitable principles, among the defendants.

(f) Notwithstanding this chapter, any response action contractor who is found liable for any costs or expenditures recoverable under this chapter and who establishes by a preponderance of the evidence that only a portion of those costs or expenditures are attributable to the response action contractor's actions, shall be required to pay only that portion of the costs or expenditures attributable to the response action contractor's actions.

Health and Safety Code § 25363 (emphasis added). There is no valid reason for the State Board to diverge from the State's approach to hazardous waste sites that are remediated under the Health and Safety Code.

3. The State Board Is Estopped from Imposing Joint and Several Liability

The State is estopped from imposing joint and several liability on the parties in this matter because of its contribution to perchlorate in the groundwater. See also Section XVI, supra. Both the doctrine of unclean hands and the principles behind joint and several liability compel this conclusion. The State's actions in exacerbating perchlorate contamination preclude it from seeking full payment from other entities. The

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parties to this proceeding cannot be found to be subject to Section 13304, without the State also being found to be subject the section and having liability.

a. The State's Actions Concerning the McLaughlin Pit and Robertson's Ready-Mix

As further discussed below (See Section XV, infra), the evidence demonstrates that the Regional Board permitted discharges to occur from the McLaughlin Pit and was instrumental in permitting a gravel washing operation ("Robertson's Ready-Mix") involving unlined settling ponds located directly over historical bunkers known to contain perchlorate.

(1) McLaughlin Pit

The evidence brought forth in this proceeding demonstrates that the McLaughlin Pit is the only confirmed source to reach groundwater on the 160-acre parcel. See Section IV, *supra*. As further addressed below, the McLaughlin Pit was a Class I hazardous waste disposal pit located on the 160-Acre Site, into which Regional Board staff negligently permitted fireworks manufacturers to dump many thousands of pounds of perchlorate waste flooded with tens of thousands of gallons of water annually for 16 years (approximately 1971-1987) in violation of Regional Board's own waste discharge requirements. *Id.* In or about 1987, the Regional Board failed to ensure that the McLaughlin Pit was closed in accordance with the law. *Id.*

On November 14, 1971, the Regional Board issued Waste Discharge Requirements ("WDRs"), which authorized the construction and operation of the proposed waste disposal pit. The disposal pit, constructed by a swimming pool contractor, was 20' x 20' x 4' and had a 12,000 gallon capacity. Although the WDRs required it to have an impervious lining, the "pit" installed was simply a plastered gunite swimming pool without any liner. *Id.*, Exs. 3543, 3545. The WDRs expressly prohibited "all discharge of waste to surface waters, surface water drainage courses or areas which would allow percolation of waste" and also required the owner to file quarterly monitoring reports which were to contain monthly daily averages of waste flows to the pit and to

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record of the depth of the waste in the pit. The WDRs were initially issued with the understanding that 150 gallons of manufacturing waste would be discharged to the pit per day. *Id.* By 1978, however, Apollo reported that its discharge had increased to 3,000 gallons per day, which the Regional Board approved when it reissued the WDR. Ex. 10365.

During their depositions, neither Mr. Thibeault nor Mr. Berchtold could explain where all the waste water, laden with perchlorate, went, given that in 1978 Apollo had reported and staff confirmed that 3,000 gallons of waste materials per day were being discharged to the 12,000 gallon swimming pool pit. Thibeault Dep., 138:22-139:3; Berchtold Dep. 143:9:147:7. The Regional Board's records reveal numerous, repeated monitoring report violations. Ex. 20006; Ex. 20007; Ex. 20018; Ex. 20019; Ex. 20020. The records also contain a number of reported Regional Board staff observations of violation of the freeboard requirement. *Id.*, Ex. 20020. Despite these facts, *the Regional Board files on the McLaughlin Pit contain no record of any enforcement action taken as a result of any of the numerous violations of the WDRs.* The WDRs were rescinded without any action in 1991.

Perhaps most egregious, in a further act of gross negligence, the Regional Board did not require the Pit to be properly closed as mandated by Subchapter 15 of the State Water Board's regulations, which required testing of groundwater for potassium perchlorate prior to closure. See Section IVC3, supra. The Regional Board also permitted the Pit to operate illegally for two years after the then-owner claimed the pit was closed. See Section IVC3, supra.

(2) Robertson's Ready-Mix

The second confirmed source of perchlorate contamination in Rialto, is the Robertson's Read-Mix operations. In 1999, two years after the discovery of perchlorate in the Rialto-Colton Groundwater Basin, the Regional Board staff approved a soil washing operation proposed by the County of San Bernardino and its contractor Robertson's in connection with its expansion of the County's landfill, which permitted

millions of gallons of water to mobilize perchlorate and to be discharged to the groundwater. The County, through Robertson's, proposed a massive excavation project which included soil washing and the installation of four unlined settling ponds, each 200' x 250' to 350' x 10' with a capacity of 13 million gallons. Ex. 20083. The direct causal connection between the mobilization of massive release of perchlorate to the groundwater by the millions of gallons of water discharged to the settling ponds was confirmed by Advocacy Team member Thibeault during his March 16, 2007 deposition. Thibeault Dep., 53 ("I believe that the wash water from the aggregate operation mobilized perchlorate in the sub surface and pushed it down towards the groundwater."). On March 16, 2001, less than two years after Regional Board staff authorized the construction of four unlined settling ponds, and four years after discovery of perchlorate in the Basin, the County wrote the Regional Board a letter which advised that perchlorate was being detected in increasing numbers in a monitoring well immediately down gradient of the ponds. Ex. 20349. In that letter, the county reported increasing perchlorate concentrations, starting with 1.9 ppb in April 2000 and ending with 250 ppb in January 2001. One month later, on April 17, 2001, the County again wrote the Regional Board a letter which restated its concern about the rising perchlorate concentrations. This letter added the following critical information: the rising perchlorate concentrations had been detected in a monitoring well down gradient of Robertson's settling ponds and urged prompt action. Ex. 20101. Mr. Thibeault finally ordered the County to investigate releases of perchlorate to the groundwater (then at a concentration of 800 ppb) mobilized by Robertson's settling ponds. By January 2003, the monitoring well down gradient of the settling ponds reported a concentration of 1,000 ppb of perchlorate. Ex. 20325, CAO R8-2003-0013, Finding 9.

b. The State Has Violated Section 13304 and Must Share Liability

Under Section 13304, the State must share liability with all found to be responsible in this proceeding. Water Code Section 13304(a) provides in pertinent part,

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that "[a]ny person who . . . has caused or permitted . . . any waste to be discharged or deposited where it is, or probably will be, discharged into the waters of the state and creates, or threatens to create, a condition of pollution or huisance, shall upon order of the regional board, clean up the waste or abate the effects of the waste. . . . " The word "person" is defined at Section 13050(c) to include "the state." The words "permit" or "permitted" are not defined in the statute. Thus, they must be given their ordinary dictionary meaning. Black's Law Dictionary defines "permit" in its verb form to mean: "To suffer, allow, consent, let; to give leave or license; to acquiesce, by failure to prevent, or to expressly assent or agree to the doing of an act." Black's Law Dictionary, p. 789 (Abridged 6th ed. 1991). Separately, Government Code § 815.6 provides:

Where a public entity is under a mandatory duty imposed by an enactment that is designed to protect against the risk of a particular kind of injury, the public entity is liable for an injury of that kind proximately caused by its failure to discharge the duty unless the public entity establishes that it exercised reasonable diligence to discharge the duty. Thus, because the State is a "person" under Section 13304, and can "permit" discharges within the meaning of the statue, the State too must be held liable if the other parties to this proceeding are found to have violated the statute.

The State Is Now Estopped from Seeking and Imposing Joint and Several Liability

The doctrine of unclean hands is invoked when a plaintiff or prosecutor "has violated conscience, or good faith, or other equitable principle, in his prior conduct." General Electric Co. v. Superior Court of Alameda County, 45 Cal. 2d 897 (1955), citing DeGarmo v. Goldman, 19 Cal. 2d 755, 765 (1942), quoting from Pomeroy's Equity Jurisprudence, § 397. The doctrine can only be invoked when the prosecutor's misconduct relates directly to the subject of the complaint. Lynn v. Duckel, 46 Cal. 2d 845 (1956). Here, one of the prosecutors in these proceedings, the Advocacy Team, has contributed to the very same wrong it now accuses Goodrich and others of having performed. The wrongs committed by the Advocacy Team must be imputed to the State.

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Goodrich under joint and several liability. Adopting similar principles, in Fireman's Fund, the Ninth Circuit held that the City of Lodi could not imposed joint and several liability on parties found liable under it's municipal hazardous waste ordinance (i.e., MERLO). The Court of Appeals held that, if the City could be considered a potentially responsible party, it was prohibited from bringing a cost recovery action that would impose joint and several liability on other parties pursued by the City. Fireman's Fund, 302 F. 3d at 947, citing Pinal Creek Group v. Newmont Mining Corp., 118 F. 3d 1298, 1301 (9th Cir. 1997). The court reasoned that allowing a party responsible for part of the contamination to impose joint and several liability on others would result in unfair cost shifting, inefficiency, and prolonged litigation. Id. Under these principles, the State must also be prohibited from imposing joint and several liability. Like the City of Lodi, the State should be prohibited from imposing joint and several liability where such enforcement results in unfair cost shifting and prolonged litigation. Because the State is responsible for the well-documented discharges to groundwater from the McLaughlin Pit, as well as the discharges from Robertson's Ready-Mix, the State must shoulder its fair share of responsibility and not be allowed to shift all costs in this proceeding.

The doctrine of unclean hands thus applies to limit the ability of the State to prosecute

F. The Statute Of Limitations Precludes This Action And The Equitable Doctrine Of Laches Estops The State Board From Issuing A Cleanup **And Abatement Order**

The applicable statute of limitations and the doctrine of laches bar the State Board from enforcing Sections 13304 and 13267 against Goodrich. Of course, the Regional Board has known about Goodrich's operations in Rialto for over three years – its "star witness," Mr. Polzien, was first deposed in 2003. The State Board's actions in this proceeding have begun nearly a decade after discovery of this information. Moreover, information received since initial discovery only tends to exculpate Goodrich from liability.

California Code of Civil Procedure Section 338(i) provides a three-year statute of limitations for:

An action commenced under the Porter-Cologne Water Quality Control Act (Division 7 (commencing with Section 13000) of the Water Code). The cause of action in that case shall not be deemed to have accrued until the discovery by the State Water Resources Control Board or a regional water quality control board of the facts constituting grounds for commencing actions under their jurisdiction. 142

By its own admission, the Regional Board and Advocacy Team became aware in 1997 of the perchlorate contamination and discovered in 1998 that Goodrich had operated a solid propellant facility on the Site. Thibeault Dep., 11:1-14:25; Holub Dep., 16:23-17:8; Saremi Dep., 393:6-10, 488:6-24. Yet, nearly a decade later, the Regional Board now seeks to take action against Goodrich. 143

Further, the Regional Board is barred from acting by the doctrine of laches.

Fountain Valley Regional Hospital and Medical Center v. Bonta, 75 Cal. App. 4th 316, 323-325 (1999) (In cases in which a party asserts doctrine of laches as a bar to a claim by a public agency, and no statute of limitations directly applies but there is a statute of

At least one of the State Board's previous interpretations of this provision claims that Code of Civil Procedure Section 338 does not apply to cleanup and abatement orders because subdivision (i) only applies to "civil actions" which there is no statute of limitations applicable to State and Regional Board enforcement orders. *In the Matter of the Petition of Trans-Tech Resources, Inc.*, Order No. WQ 89-14 (1989). The interpretation of "action" in Section 338 to be a "civil action" is unsatisfactory for a number of reasons, including that it is inconsistent with the use of the term "action" under the Porter-Cologne Water Quality Control Act, such must petition the State Board to review a "regional board's action." Water Code § 13320. As importantly, the State Board's interpretation ignores the Legislature's purpose and intent in enacting statutes of limitation (for example, encouraging diligent and timely prosecution and providing finality and predictability in legal affairs). *See also* Footnote 141. The State Board's interpretation is nonsensical in that it would subject entities to agency power and process in cases where the agency would be powerless to enforce the order in court.

¹⁴³ See, e.g., Wilshire Westwood Assoc. v. Atl. Richfield Co, 20 Cal. App. 4th 732, 740 (1993) ("A plaintiff is charged with 'presumptive' knowledge so as to commence the running of the statute once he or she has notice or information of circumstances to put a reasonable person on inquiry, or has the opportunity to obtain knowledge from sources open to his investigation." [Citations omitted.]) See, also, Kaiser Foundation Hospitals v. Workers' Compensation Appeals Board, 39 Cal. 3d 57, 62 (1985) ("The purpose of any limitations statute is to require diligent prosecution of known claims thereby providing necessary finality and predictability in legal affairs"); Douglas v. Douglas (1951) 103 Cal. App. 2d 29, 34 35 (The policy of the law is to prevent stale claims from springing up after the lapse of long periods of time and pursuant to this policy, statutes of limitations are enacted on the presumption that one having a well-founded claim will not delay enforcing it beyond a reasonable time. [citations omitted])

measure of the outer limit of reasonable delay in determining laches; whether or not such a borrowing should occur depends upon the strength of the analogy.) At this time, now almost a decade after discovery of perchlorate, the Water Boards have unreasonably delayed in issuing an order.

limitations governing an analogous action at law, the period may be borrowed as a

G. Res Judicata And Collateral Estoppel Preclude The State Board From Issuing A New Cleanup And Abatement Order

The Advocacy Team and State Board are barred by the doctrines of res judicata and collateral estoppel from imposing a new Cleanup and Abatement Order in this proceeding. On June 6, 2002, the Regional Board *issued* a Cleanup and Abatement order to Goodrich. CAO No. R8-2002-0051. The 2002 CAO alleged perchlorate discharges from Goodrich and required investigation and cleanup. On September 13, 2002, the matter was heard before the Regional Board. Prior to the hearing, the parties submitted hearing briefs and advance written testimony. At the hearing, the Regional Board presented its case, primarily through the testimony of its Executive Officer, Assistant Executive Officer, and two staff members. The staff members were crossexamined. Goodrich also presented the testimony of expert witnesses. After presentation of the evidence was concluded, the Regional Board rescinded the CAO.

It has long been settled that the doctrine of *res judicata* can be applied in the administrative context provided certain elements are met. *U.S. v. Utah Construction Mining Co.*, 384 U.S. 394, 421-22 (1966); *Brosterhous v. State Bar*, 12 Cal. 4th 315, 325 (1995); *People v. Sims*, 32 Cal. 3d 468, 485 (1982). First, the administrative agency must be acting in a judicial capacity. *Id.* Next, the agency must resolve disputed issues before it and render a final decision. *Id.* Finally, the parties must have had an adequate opportunity to litigate the matter. *U.S. v. Utah Construction Mining Co.*, 384 U.S. 394, 421-22 (1966); *Brosterhous v. State Bar*, 12 Cal. 4th 315, 325 (1995); *People v. Sims*, 32 Cal. 3d 468, 479 (1982).

For purposes of these administrative proceedings, res judicata effect must be

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given to the 2002 cleanup and abatement proceeding as against the Regional Board and State Board sitting in its stead. The Regional Board and now State Board are obviously pursuing the very same claim today under the Water Code as in 2002. The formal nature of the proceeding in 2002 provided a forum where the issue was "litigated," as that term is recognized in California's doctrine of res judicata and collateral estoppel. The Regional Board's decision to rescind the 2002 CAO was a judgment on the merits. Today, the Regional Board is asserting the same claims against Goodrich. Finally, all parties were given a fair opportunity to be heard on this issue in 2002. Thus, res judicata effect must be given to the Regional Board's 2002 decision.

XV. GOODRICH WAS COMPLYING WITH FEDERAL GOVERNMENT REQUIREMENTS AND IS NOT LIABLE UNDER CONFLICTING STATE LAWS

The Advocacy Team's allegations against Goodrich must also be rejected because, as a former contractor with the United States military, Goodrich's actions were governed by applicable federal standards and obligations that controlled the disposal of ammonium perchlorate and solvents contaminated with solid-rocket propellant. The evidence conclusively shows that Goodrich was required to incinerate waste PERCHLORATE and solvents contaminated with explosive propellants in a burn pit. And to the extent releases of PERCHLORATE and solvents occurred at Rialto, they resulted from Goodrich's compliance with these requirements that were imposed upon it by the federal government. Goodrich therefore cannot be held liable now under the conflicting state laws upon which the Advocacy Team relies, as both the Supremacy Clause of the United States Constitution and the modern-day government contractor defense shield Goodrich from liability in these proceedings.

First, because military disposal regulations were issued under federal statutes, they carry the force of law. In the event of a direct conflict between state law and federal regulations, the Supremacy Clause of the United States Constitution directs that state law must recede. Courts have long recognized that federal military manuals and regulations promulgated under federal law must trump conflicting state laws. Second,

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the modern-day government contractor defense permits government contractors who have complied with government specifications to cloak themselves with the government's immunity from state liability. Because Goodrich simply complied with federal government disposal regulations, it has a valid defense to the Advocacy Team's allegations by virtue of its status as a government contractor.

Goodrich's use and disposal of perchlorate and solvent contaminated with propellant were carried out in strict compliance with government specifications. As such, the Supremacy Clause acts to pre-empt state law when, as here, it interferes directly with federally regulated activities. Moreover, Goodrich is shielded from liability in this case under the express provisions of the California Civil Code and the government contractor defense.

A. Goodrich Was Required to Burn Waste in Accordance with Federally Imposed Standards

The primary allegation asserted by the Advocacy Team is that Goodrich's use of a burn pit to dispose of waste perchlorate resulted in its release into the groundwater. The Draft CAO states that ammonium perchlorate was "dried and ground at the Property, before it was mixed with a polymer fuel-binder. . . ." Draft CAO at 12. As part of the production process, washout waste, including perchlorate and solvent contaminated with perchlorate and propellant, "was disposed of in Goodrich's on-site burn pits." *Id.* at 13. The Draft CAO identifies several process wastes that were burned in the on-site pit, including residual (unburned) scrap propellant from various rocket types and from Sidewinder salvage operations, *see Id.* at 13-15, "[a]II [of which] was disposed of in Goodrich's burn pits located on the property." *Id.* at 15. 144 Likewise, the Advocacy Team's Memorandum of Points and Authorities identifies several additional process wastes that were allegedly incinerated in the on-site burn pit: perchlorate powder swept

Although the Advocacy Team refers to "Goodrich's burn *pits*" in the Draft CAO and its Memorandum of Points and Authorities, the evidence plainly demonstrates that Goodrich only operated a single burn pit at Rialto. *See* Section III, *supra*.

up after grinding, Ad. Team P&A at 65; "TCE" and propellant slurry from mixing operations, *Id.* at 66;¹⁴⁵ test propellant that "*likely* contained perchlorate," *Id.* at 67 (emphasis added); excess propellant trimmed from the rocket motors, *Id.* at 68; and residual (unburned) scrap propellant resulting from failure of rocket motors, *Id.* at 75.

At paragraph 33(j), the Draft CAO provides some explanation of how the Advocacy Team believes the burn pit pathway caused groundwater contamination:

Burns usually occurred at least once a week and sometimes three to four times per week. The ammonium perchlorate and TCE dumped into the pit was sometimes left for two or more days before it was ignited and burned Ash and residue were left in the open pits, exposed to precipitation. Because the pits were earthen and open to the elements, rain that fell into these pits would necessarily mix with the chemical residue and infiltrate into the gravelly soils and to the groundwater table.

Id. at 15 (emphasis added). The Advocacy Team's Memorandum of Points and Authorities also purports to describe the process by which materials were disposed of in

The Advocacy Team alleges that Goodrich used the solvent trichloroethylene ("TCE") to clean equipment contaminated with AP and propellants during the production process at Rialto. But the evidence does not support this conclusion. Although Goodrich did use some solvents in its production processes, including acetone and cyclohexanone, it did not use TCE. See Section III, *supra*. Even if Goodrich had used TCE at Rialto – and, again, the evidence proves that it did not – it is protected from any liability because the federal government required that any solvent contaminated with AP or explosive materials be incinerated in a burn pit.

The allegations in the Draft CAO also suggest that very small quantities of propellant residue might have been rinsed onto bare ground. See Id at 13 ¶ 33 (b) ("Small quantities of the washout waste were also disposed of directly to the bare ground outside of the mixer buildings."); Id. ¶ 33(m) ("On some occasions, the residue and unburned propellant were rinsed from the concrete test bay with a water hose, onto the bare ground.") (emphasis added). The Advocacy Team's Memorandum of Points and Authorities echoes these allegations. See Ad. Team P&A at 65 ("After sweeping, some amount of perchlorate remained on the grinding room floor."); Id. at 75-76 ("On some occasions, residue and unburned propellant was rinsed from the concrete test bay onto the bare ground using a water hose.") (emphasis added). Goodrich disputes these unsubstantiated allegations as there is no admissible evidence submitted to the Hearing Officer to support them. But even if there was some de minimis releases to the ground at the 160-Acre parcel as a result of Goodrich's former operations, those releases have not impacted groundwater nor do they threaten groundwater. The unrefuted evidence is that small quantities of perchlorate and solvent discharged to the ground will not migrate to a depth anywhere near the groundwater at the site (over 400 feet below ground surface) unless large quantities of free water are placed on top for extended periods of time. Therefore, Goodrich will focus this discussion on the mechanism of release on which the Draft CAO and the Advocacy Team's Memorandum of Points and Authorities primarily focus – the Goodrich burn pit.

the burn pit, see Ad. Team P&A, 76-77, claiming only in generalized terms that "[b]ased on the physical characteristics of the burn pits and the manner in which the burn pits were operated, the discharge of wastes containing perchlorate to Goodrich's burn pits would have resulted in the discharge of perchlorate and TCE to groundwater." *Id.* at 78.

Even if releases somehow did occur through the burn pit, Goodrich cannot be held liable under state law because it was required to utilize a burn pit pursuant to validly promulgated federal regulations that carry the force of law. For instance, the Draft CAO and the Advocacy Team's Memorandum of Points and Authorities condemn Goodrich for burning excess propellant in a pit that was earthen and open to the environment – yet burning on bare ground was explicitly required by applicable government ordnance regulations. The government mandated disposal specifications in an exercise of discretion that reflected the balancing of military effectiveness and safety, in effect establishing the standard of care to which Goodrich must be held. Goodrich is therefore protected from the Advocacy Team's claims because there is no evidence that releases of ammonium perchlorate and any solvent used in the production process occurred as a result of Goodrich's failure to follow the standard of care imposed upon it by federal law.

1. Goodrich Was Required to Burn Waste Ammonium Perchlorate

a. Goodrich Was Drafted Into the Cold-War Effort to Produce Solid-Rocket Boosters to Compete with the Soviet Union

The construction of solid-rocket motors for the military received heightened attention from the government during the Cold War because they were considered vital to the national defense strategy. In the late 1950s, the United States embarked on a massive development effort to advance the state of rocket and missile technology. This initiative received the highest priority among all national efforts, civilian as well as military, to close the perceived "missile gap" with the Soviet Union and to beat the Soviets to the moon. See Merrill Dec. ¶ 12. As part of this national effort, the government encouraged Goodrich to enter into the field to assist in the design, testing, and production of rocket motor propulsion systems at the Rialto site. See Wever Dec.

¶ 4 (stating that the Goodrich participation in the solid-rocket business began as a part of President Eisenhower's missile initiative). Goodrich contracted with the United States military to construct specific, smaller, solid-rocket motors from 1957 through 1964. See, e.g., Ustan Dec. ¶ 14; Sachara Dec. ¶ 14. These solid-rocket motors included LOKI, ASP, and Sidewinder missiles. See Willis Dec. ¶¶ 14-16, Exs. 1, 2, & 24.

b. Ammonium Perchlorate Is a Vital Ingredient in Solid-Rocket Propellant

All solid-rocket motors use an oxidizer, which is a critical component of the propellant formulation because it provides the oxygen for combustion of the fuel. Wever Dec. ¶ 17. Ammonium perchlorate quickly gained acceptance as the best and most reliable oxidizer – a critical component of any solid-rocket propellant – to achieve the breakthroughs necessary to defeat the Soviets. See Merrill Dec. ¶ 12. In 1958, the U.S. Industry and Government Ad Hoc Panel convened and offered recommendations on developing solid-rocket technology using ammonium perchlorate and utilizing central coordination of the nationwide development effort, stating that propellants containing ammonium perchlorate "are now in the final stages of development and are suitable for long-range missiles." See Ex. 38 (stating that "[t]he high percentage of ammonium perchlorate is necessary to provide enough oxygen for high performance"). Some, but not all, of the propellant formulations produced by Goodrich at Rialto used ammonium perchlorate as the primary oxidizer. See Sachara Dec. ¶ 4; Wever Dec. ¶ 17.

The method of how ammonium perchlorate is ground and how it is handled during the production process has a significant impact on how a rocket motor will perform during flight. See Wever Dec. ¶ 22 (discussing how particle size impacts burn rate and rocket performance). Ammonium perchlorate made up approximately 70% of some rocket propellants produced by Goodrich. See Ex. 106. The solid-rocket propellants, and the details of how they were formulated, were considered classified information, and the contractor was required to take steps to protect this material and information. See Ex. 120. In this Cold War environment, the government certainly took a hard look at

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activities that could affect the success of these vital weapon programs, such as the use of a "high percentage" of ammonium perchlorate in solid-rocket motors and the proper disposal of waste ammonium perchlorate generated as part of these activities.

The United States Military Carefully Controlled How Ammonium Perchlorate Was Handled and Destroyed

Because ammonium perchlorate was a central ingredient in the rocket propellant produced by Goodrich, both the military and Goodrich carefully monitored how it was handled and how it was destroyed. Military manuals and ordnance regulations instructed Goodrich to incinerate waste ammonium perchlorate at Rialto, and Goodrich complied with these federally mandated disposal standards.

Witness testimony confirms that ammonium perchlorate was handled very carefully during the grinding and mixing process because of the danger of explosions and fire. See Wever Dec. ¶¶ 21, 31 (discussing the use of non-sparking materials and conductive-soled shoes and flame-retardant overalls as safety precautions). Since ammonium perchlorate is an explosive, the military regulated ammonium perchlorate handling and disposal practices of its contractors through several manuals — with which Goodrich, as one of those contractors, was required to comply. See Merrill Dec. at ¶¶ 12, 14. These manuals included the Department of the Army Ordnance Corps, Ordnance Safety Manual — ORD-M 7-224, § 27 (1951), Ex. 118 ("Ordnance Manual"); the Departments of the Army & Air Force, Military Explosives Technical Manual — TM 9-1910/TO 11A-1-34 (Apr. 1955), Ex. 117 ("Explosives Manual"); the Department of the Army, Care, Handling, Preservation, and Destruction of Ammunition Technical Manual — TM9-1903 (Oct. 1956), Ex. 50 ("Destruction Manual"); and the Department of the Air Force, General Safety Procedures for Chemical Guided Missile Propellants — TO 11C-1-6 (Dec. 1956), Ex. 110 ("Safety Procedures").

In addition, the government could control the disposition of waste propellant and scrap because it owned these materials under the terms of its contracts with Goodrich.

The contracts that Goodrich performed were typically cost-reimbursement contracts,

meaning that the government paid the contractor for all of its reasonable costs of performance - including the costs of purchasing ammonium perchlorate, solvents, or other raw materials necessary for the production of rocket propellant. For example, Contract NOrd-18966 was a cost-reimbursement contract for the production of Loki I propulsion units that was executed on June 4, 1959. See Ex. 119. In contract negotiations, Goodrich estimated that it would purchase up to 7,850 lbs of ammonium perchlorate to perform this contract. See Id.

Under the terms of the Allowable Cost, Fixed Fee and Payment clause, the government took ownership of any materials or products for which it paid the contractor - therefore, any ammonium perchlorate purchased or probellant made during the contract became government property as soon as it paid Goodrich for its costs in procuring them. Under the terms of the Government Property clause, the contract provided that:

> Julpon completion of this contract, or at such earlier dates as may be fixed by the Contracting Officer, the Contractor shall submit to the Contracting Officer in a form acceptable to him, inventory schedules covering all items of Government Property not consumed in the performance of this contract, or not theretofore delivered to the Government, and shall deliver to make such other disposal of such Government Property as may be directed or authorized by the Contracting Officer. . . . The foregoing provisions shall apply to scrap from Government Property provided, however, that the Contracting Officer may authorize or direct the Contractor to omit from such inventory schedules any scrap consisting of cutting and processing waste, such as chips, cuttings, borings, turnings, short ends, circles, trimmings, clippings, and remnants, and to dispose of such scrap in accordance with the Contractor's normal practice.

Id. The government therefore maintained the right to direct the disposal of scrap propellant because it actually owned the material in question. Any disposal of scrap propellant under these contracts that was directed by the government would have been conducted in compliance with government explosive and ordnance manuals.

Military Manuals Directed Contractors to Burn Waste (1) Propellant

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The Army Ordnance Manual specifically covers management and disposal of

"fuels and oxidizers" that are used in testing and production of "long range rockets and guided missiles." See Ordnance Manual at 15-1. The Manual describes the proper operation of "static test stands," such as those used at Rialto to test solid-rocket motors, stating that they "should be located at a minimum of intraline distance, not only from ready storage facilities but also at such distance from other test stands and the observation building." Id. at 15-6. The Manual specifies, in great detail, how the military and its contractors should dispose of excess explosives – including oxidizers and propellants. After discussing where to locate the destruction site, it instructs that:

Dry leaves, and other extraneous combustible material shall be removed within a radius of 200 feet from the point of destruction. The grounds should be of well packed earth and shall be free from large stones and deep cracks in which explosives might lodge. Explosive materials shall not be burned or detonated on concrete mats.

Id. at 27-9 (emphasis added). The Manual also provides details on how to handle material awaiting destruction, personnel protection, training in running burn pits, and how to transport waste explosives. *See Id.* at 27-10 to 27-13.

The Army's Destruction Manual similarly directs contractors to incinerate excess propellant on bare ground in burn pits. Section 126(c) of the Manual specifies:

Solid Propellant: Quantities of solid propellant may be destroyed safely if the propellant is removed from the containers and spread out on *bare ground* in a train 1 to 2 feet wide and not more than 3 inches thick.

Destruction Manual at 179-80, Ex 50 (emphasis added).

The Army and Air Force Explosives Manual directs that "[e]xplosives and propellants are burned in layers not more than 3 inches thick, . . . Loose, dry explosives may be burned in layers in direct contact with the ground. . . . " Explosives Manual at 315, Ex. 117. It further specifies that the:

destruction of explosives by detonation should be carried out in a pit not less than 4 feet deep, the explosive being covered with not less than 2 feet of earth. Where space permits, the use of a pit may be dispensed with.... The destruction of explosives and propellants by burning or detonation is an operation to be carried out only with extreme care, because of the hazards involved in preparing the material for burning or detonation as well as the actual destruction.

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Id. at 316-317. The Explosives Manual also instructs that burning should be initiated by "blasting caps," Id., the exact method used by Lou Staton at the Goodrich burn pit. See Staton Dep., 22:5-25:11.

Lastly, the Secretary of the Air Force promulgated "safety measures, safety standards, procedures, instructions, and precautions" with respect to the use of "highly reactive chemicals and products currently in use or that may be put in use for the propulsion of guided missiles or similar applications." Safety Procedures at 1, Ex. 110. The Safety Procedures require that "waste propellants shall be transferred at least daily to the waste propellant disposal area for destruction." *Id.* at 23. The Safety Procedures set forth requirements for burning of waste propellant, stating explicitly that burn areas must be "dug into the surface of the ground to contain the liquids to be disposed of by burning." *Id.* 147 These government manuals governed Goodrich's production of solid-rocket propellant at Rialto, mandating that it burn excess and waste ammonium perchlorate and propellant made with ammonium perchlorate as an oxidizer in its on-site burn pit.

(2) Goodrich Complied with These Manuals

It is also clear from testimony in this matter that Goodrich complied with these military manuals, and operated its burn pit in accordance with them. Goodrich monitored its own processes to ensure that it complied with the government's production and disposal requirements. See Willis Dec. ¶ 17 ("As the quality control inspector, I inspected the Loki and Sidewinder rockets in the finishing room to ensure that the

In 1968, the Department of Defense restated many of these requirements in an omnibus manual directed solely at government contractors, entitled DoD Contractors' Safety Manual for Ammunition, Explosives and Related Dangerous Materials, DOD 4145.26M (Oct. 1968). See Ex. 91. This manual again required contractors to burn excess and waste propellants on "well packed earth . . . free from large stones and deep cracks in which explosives might lodge. Explosive materials *shall not* be burned or detonated on concrete mats." *Id.* at 15-5 (emphasis added).

rockets met *government-approved specifications*.") (emphasis added); Beach Dec. ¶ 7 (testifying that as an employee in quality control, he verified that "the mixed solid rocket fuel met specifications"). Moreover, Goodrich's performance and its compliance with applicable government specifications were subject to inspection by the military. *See* Willis Dec. ¶ 17 ("After I was finished, government inspectors would come to the Rialto facility to verify that Goodrich complied with those specifications."); Beach Dec. ¶ 10 (stating that "government inspectors would come to the Goodrich facility to approve the rockets for delivery").

Goodrich's compliance with these disposal regulations also is confirmed by Lou Staton, the Goodrich employee who oversaw operation of the facility's burn pit. Mr. Staton testified that the Goodrich burn pit was located about 150 feet from the Rialto facilities, and that it was at least six feet deep. See Staton Dep., 22:3-23:3 (describing the location of the burn pit, the procedures for burning, and the frequency of burning of waste propellant); see also Wever Dec. ¶¶ 53-60 (addressing burn pit procedures and stating that the burn pit complied with the "industry standard and government standards for disposing of such waste"); Ustan Dec. ¶ 8 (confirming that "I never saw a buildup of waste-like material in the burn pit"). Indeed, even the allegations in the Draft CAO, if taken as true, support the notion that Goodrich complied with relevant military requirements to burn excess ammonium perchlorate and propellant on bare ground.

2. Goodrich Was Required to Burn Waste Solvent That Had Been Contaminated with Ammonium Perchlorate and Propellants

Pursuant to the se regulations, Goodrich also was required to burn any solvent contaminated with explosives such as ammonium perchlorate or propellant. As alleged by the Draft CAO, any solvent used by Goodrich was incinerated in the burn pit *only* after it had been used to clean ammonium perchlorate or propellant, and was therefore contaminated with the explosive substance. See Draft CAO at ¶ 33(b) (washout waste containing solvent and residue ammonium perchlorate placed in the burn pit); *Id.* at 33(k) (solvent used to salvage Sidewinder casing placed into the burn pit). Because solvents

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used to clean explosives residues become highly unstable. Goodrich was required to incinerate any such mixture as an explosive. Indeed, subsequent government manuals explicitly recognized that solvents used in propellant cleahing activities needed to be discarded as an explosive. See Air Force Manual AFM 161-30, Solid Rockets/Propellants (Apr. 10, 1973), Ex. 102. The 1973 manual provides that:

> Waste [solvent], contaminated with propellant residue either in solution or suspension, is generated at mix stations, degreasers, mold cleaning stations, or any facility where propellant is cleaned from metal parts. Accident history has shown that spillage and evaporation of these residues can result in extremely sensitive material, more so than the parent propellant. . . . Destruction should be accomplished in the collection container, preferably a nonmetallic one. . . . At the destruction site, the Inon-metallic containers] are burned, pallet and all, by means of added waste propellant. Ignition of the propellant is accomplished by means of a black powder squib.

ld. at 7-3.3. Although the explicit requirement to treat contaminated solvent as an explosive did not appear until 1973, it is clear from this manual that Goodrich's decision to burn any solvent used in the production process to clean equipment containing propellant or ammonium perchlorate was correct and in full compliance with thenapplicable military manuals. Once the solvent was contaminated with perchlorate or propellant residue, it took on the characteristics of the propellant. Goodrich therefore was required to dispose of it accordingly - by burning it on bare ground.

Goodrich Was Complying With Valid Legal Regulations Created B. Pursuant to Federal Law: Conflicting State Laws Are Preempted

As discussed above, Section XIV(B), supra, the Board's authority to determine liability for groundwater contamination is based primarily upon California Water Code Section 13304(a), which the Draft CAO cites as its primary basis for jurisdiction. See Draft CAO at 1-2. As discussed above, even if Water Code Section 13304(a) is erroneously applied, since the Goodrich activities in question occurred prior to the law's enactment, the Advocacy Team must prove a violation of preexisting state law requirements, which were in effect at the time, for Goodrich to be found responsible for

the alleged discharges. 148 Goodrich, though, cannot be found to be in violation of any existing law or regulation during its operation of Rialto because it was in full compliance with applicable technical manuals and requirements issued by the U.S. military that directed it to undertake the very activities about which the Advocacy Team is complaining.

1. The Military Has Statutory Authority to Promulgate Regulations Applicable to Its Procurement Activities

In 1831, the Supreme Court confirmed that the federal government has inherent power to contract. See United States v. Tingey, 30 U.S. 115 (1831). The head of the Department of Defense, as an executive department of the United States, and the separate heads of the Department of the Army, the Department of the Navy, and the Department of the Air Force, have been granted plenary authority by Congress to prescribe regulations governing the conduct of their various organizations, including the power to contract for goods and services. See 5 U.S.C. § 301 (2000) ("The head of an Executive department or military department may prescribe regulations for the government of his department, the conduct of its employees, the distribution and performance of its business "). The Secretary of Defense also has been provided broad authority by Congress to "prescribe regulations governing the performance within the Department of Defense of the procurement, production, warehousing, and supply distribution functions, and related functions, of the Department of Defense." 10 U.S.C. § 2202 (2000). Congress also provided the heads of the various military departments with the power to issue regulations to regulate their various functions, including procurement. See Id. |§ 3013(g) (providing that "[t]he Secretary of the Army . . . may prescribe regulations to carry out his functions, powers, and duties under this title"); see also Id. § 6011 (Navy); Id. § 8013(g) (Air Force). Faced with a host of methods of

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¹⁴⁸ See, Section XIV; Calif. Water Code § 13304(j) (stating that the "section does not impose any new liability for acts occurring before [its passage], if the acts were not in violation of existing laws or regulations at the time they occurred") (emphasis added).

Under the authority granted by these laws and regulations, the various military departments are empowered to promulgate specifications, technical manuals, orders, and directives to govern how they conduct business, including the power to impose these requirements upon their government contractors. The Supreme Court has confirmed that these military department regulations "have the force of law." *See Pub. Util. Comm'n of Cal. v. United States*, 355 U.S. 534, 542-43 (1958) (citing to the general statutory power to issue regulations and finding that various military manuals, guides, and regulations trumped California's right to impose any restraint or control on federal transportation procurements).

2. Under the Supremacy Clause, Conflicting California Laws and Regulations Are Preempted by Valid Federal Regulations Governing the Operation of the Burn Pit

Even if the California state laws and regulations that were in place from 1957 through 1964 are found applicable to Goodrich's operation of its burn pit – again, a conclusion that Goodrich disputes – Goodrich cannot be found to be in violation of these

The ASPR was designed to be modified on a regular basis as contracting practices were identified requiring uniform application across the military departments. See 32 C.F.R. § 1.106(b) (1963). In 1968, the ASPR was revised to include a provision that required the insertion of a specific clause in all military contracts that mandated compliance with the newly promulgated "DOD Contractor's Safety Manual for Ammunition, Explosives and Related Dangerous Material." 32 C.F.R. § 7.104-79(a) (1968). The DoD Contractor's Safety Manual, Ex. 91, was drafted by the Department of Defense to combine all requirements and standards regarding explosive handling that had been previously found in numerous technical orders and manuals issued by the various military departments into a single document that would be imposed upon every government contractor. See Id. §§ 100, 106.

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state obligations because it complied with valid and contrary federal specifications that carry the force of federal law. Based on the Supremacy Clause, U.S. CONST. Art. VI, cl. 2, the Supreme Court has held that in the face of any conflict between federal law and state law, federal law prevails under the principle of "congressional pre-emption." See North Dakota v. United States, 495 U.S. 423, 435 (1990).

In Public Utilities Commission of California, the Supreme Court invalidated California's state policy regulating negotiated rates because it conflicted with federal government procurement regulations that also governed the use of negotiated rates. 355 U.S. 534. The government regulations at issue were found in military manuals and regulations similar to the disposal manuals here. See Id. at 542. The Court explained that:

> [t]he conflict is as plain as it was in Arizona v. California, 283 U.S. 423, 451, where a State sought authority over plans and specifications for a federal dam, in Leslie Miller, Inc. v. Arkansas, supra, where state standards regulating contractors conflicted with federal standards for those contractors, and in Johnson v. Maryland, 254 U.S. 51, where a State sought to exact a license requirement from a federal employee driving a mail truck. The conflict seems to us to be as clear as any that the Supremacy Clause, Art. VI, cl. 2, of the Constitution was designed to resolve.

Id. at 544.

In Leslie Miller, Inc. v. Arkansas, for example, the Court considered whether a state regulation that required a state license to do business conflicted with the ASPR regulation that governed which contractors were sufficiently "responsible" to bid on federal contracts. 352 U.S. 187, 188 (1956). The Court invalidated the state regulation because "[m]ere enumeration of the similar grounds for licensing under the state statute and for finding 'responsibility' under the federal statute and regulations is sufficient to indicate conflict between this license requirement which Arkansas places on a federal contractor and the action which Congress and the Department of Defense have taken to insure the reliability of persons and companies contracting with the Federal Government." Id. at 189-90. Citing Johnson v. Maryland, the Court concluded that the imposition of additional requirements by the state:

does not merely touch the Government servants remotely by a general rule of conduct; it lays hold of them in their specific attempt to obey orders and requires qualifications in addition to those that the Government has pronounced sufficient. It is the duty of the Department to employ persons competent for their work and that duty it must be presumed has been performed

Id. at 190 (quoting Johnson, 254 U.S. 51, 57 (1920)) (emphasis added).

Here, the conflict is as clear as it was in *Leslie Miller* and the other cases cited above. The federal government promulgated regulations governing the disposal of explosives that the military considered sufficient. The Board is now attempting to impose additional state law requirements by holding Goodrich in violation of state law for compliance with these very regulations. The Supremacy Clause, and the Supreme Court's application of that clause's principles to cases like Goodrich's, require the state to yield to the federal government's regulations regarding the burn pit at the Rialto site.

3. California Civil Code Section 1714.6 Prohibits Enforcement Against Goodrich

In fact, California law recognizes this basic principle of federal preemption by expressly granting immunity from state statutes for persons who are obeying military orders:

[n]o person shall be prosecuted for a violation of any statute or ordinance when violation of such statute or ordinance is required in order to comply with an order or proclamation of any military commander who is authorized to issue such orders or proclamations; nor shall any person be prosecuted for a violation of any statute or ordinance when violation of such statute or ordinance is required in order to comply with any regulation, directive, or order of the Governor promulgated under the California Emergency Services Act. The provisions of this section shall apply to such acts or omissions whether occurring prior to or after the effective date of this section

Calif. Civil Code § 1714.6 (2007).

Accordingly, under this California statute, no person can be held liable under any statute or ordinance when it is merely following authorized military orders. As discussed above, Goodrich's use of a burn pit at Rialto was mandated by numerous military

ordnance manuals and technical orders that were issued pursuant to federal law by military commanders authorized to publish such regulations. These valid regulations directed Goodrich to dispose of explosive wastes – such as scrap ammonium perchlorate – by incineration in a burn pit. The State Board therefore cannot prosecute Goodrich for these very same disposal practices, nor find Goodrich in violation of any applicable statute or ordinance that conflicts with Goodrich's obligation to obey such orders.

C. The Government Contractor Defense Operates to Shield Goodrich from Liability Under Competing State Law Requirements

In a similar application of federal supremacy, the potential conflict here between state law and federal contract specifications demands the invocation of the government contractor defense, which operates to extend the government's own sovereign immunity to private contractors who operate at the behest of the government. The defense requires a contractor to prove that: 1) the government approved reasonably precise specifications: 2) the product or services conformed to the specifications; and, 3) the contractor warned the United States about the dangers that were known to the contractor but not known to the government. See Boyle v. United Techs. Corp., 487 U.S. 500, 512 (1988). Goodrich is entitled to dismissal of the Draft CAO because the undisputed facts show: 1) that Goodrich was subject to various government regulations and specifications that governed its use and disposal of ammonium perchlorate and contaminated solvents at its Rialto facility; 2) that it followed these specifications; and, 3) that neither Goodrich hor the government knew that the use or disposal of ammonium perchlorate or solvents containing explosive materials could potentially result in the alleged groundwater dontamination that lies at the heart of the Advocacy Team's allegations.

1. The Government Contractor Defense Applies Whenever a Conflict Exists Between Federal Law and State Law With Regard to a Government Contractor's Activities

Although the defense generally has been applied in product liability and

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procurement cases, it is applicable in all government contract situations involving a significant conflict between an identifiable federal policy and the operation of state law. Such a conflict exists when, as here, the federal government exercised its discretion and imposed requirements on a contractor, the contractor acted pursuant to that discretion, and state law conflicted with the federal policy.

In *Boyle*, the Supreme Court first explained that there are certain areas of law that involve "uniquely federal interests." *Id.* at 504-05. It concluded that "the imposition of liability on Government contractors will directly affect the terms of Government contracts: either the contractor will decline to manufacture the design specified by the Government, or it will raise its price. Either way, the interests of the United States will be directly affected." *Id.* at 507; *Id.* at 511 (noting that military procurement "often involves not merely engineering analysis but judgment as to the balancing of many technical, military, and even social considerations, including specifically the trade-off between greater safety and greater combat effectiveness"). The Court, however, felt that extending sovereign immunity to government contractors *in every situation* was unwarranted. *Id.* at 510. It decided instead that pre-emption of state law would be permitted only in circumstances in which a "significant conflict exists between an identifiable federal policy or interest and the operation of state law." *Id.* at 507 (internal quotations omitted).

In trying to determine when a conflict would be sufficiently "significant" to justify

The United States has not waived its sovereign immunity with respect to state laws that would subject it to liability for investigation and clean up of past contamination at sites that it no longer owns. The waiver of sovereign immunity in the Comprehensive Environmental Response, Compensation and Liability Act ("CERCLA"), 42 U.S.C. § 9620(a)(4), waives immunity with respect to state law only for facilities currently owned or operated by the United States. "[T]he CERCLA waiver of sovereign immunity does not allow state law claims against the government for liability based on past ownership or operation of facilities involved in releasing or depositing hazardous wastes." Gen. Motors Corp. v. Hirschfield Steel Serv. Ctr., 402 F. Supp. 2d 800, 804 (E.D. Mich. 2005). Similarly, the limited waiver of sovereign immunity in the Resources Conservation and Recovery Act, 42 U.S.C. § 6961(a), does not subject the United States to actions that "seek contribution for the costs of responding to past pollution at sites that are not currently owned or operated by a federal agency." Id. at 807 (reasoning that "[i]t would be unusual indeed for Congress to embed a waiver of governmental immunity for a species of damages in legislation that does not even allow those same damages as a remedy against non-governmental defendants").

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extending preemption to contractors, the Court adopted the discretionary function exemption from the Federal Tort Claims Act ("FTCA"). Id. at 510. The Court emphasized that while Congress had waived sovereign immunity for the wrongful behavior of Government employees, it had exempted from this waiver claims involving the performance of a discretionary function. Id. In borrowing from the FTCA, the Supreme Court was not limiting the application of the government contractor defense to particular claims. It was, instead, highlighting the importance that Congress ascribes to federal discretion in any context. And it was using the notion of the discretionary function as a limiting principle "to ensure that the defense would not interfere unduly with the operation of state law." Hudgens v. Bell Helicopters/Textron, 328 F.3d 1329, 1333-34 (11th Cir. 2003). Therefore, because Congress places such a high value on federal discretion, government contractors who act according to federal discretion should share in the federal immunity available to government agents. See Boyle, 487 U.S. at 511; Hudgens, 328 F.3d at 1334. To hold otherwise would diminish the value of federal discretion and would dreate a significant conflict between the will of the federal government and the will of the state.

The government contractor defense "protects a government contractor from liability for acts done by him while complying with government specifications during execution of performance of a contract with the United States." McKay v. Rockwell Int'l Corp., 704 F.2d 444, 448 (9th Cir. 1983). 151 Courts have explained that the availability

¹⁵¹ California courts follow the government contractor defense as set forth in *Boyle*. See Jackson v. Deft, Inc., 223 Cal. App. 3d 1305, 1313-1319 (Cal. Ct. App. 1990). The Ninth Circuit has characterized the government contractor defense as the "military contractor defense," so termed because the Ninth Circuit has interpreted Boyle as applying exclusively to military contractors. See In re Haw. Fed. Asbestos Cases, 960 F.2d 806, 810-11 (9th Cir. 1992). The circuits are split on whether the government contractor defense applies to military as well as non-military contractors, although the prevailing view is that Boyle's rationale extends to non-military contractors as well. See, e.g., Carley v. Wheeled Coach, 991 F.2d 1117, 1119-23 (3d Cir. 1993); Yeroshefsky v. Unisys Corp., 962 F. Supp. 710, 715-17 (D. Md. 1997). The State of California appears to have implicitly adopted the Ninth Circuit's "military contractor defense." Jackson, 223 Cal. App. 3d 1305. But see 6 Witkin, Torts § 1313A (Supp. 2002) (adopting the "government contractor defense"). The denomination of the defense is not an issue here, however, since Goodrich was clearly a military contractor at its Rialto facility.

of the government contractor defense "cannot be determined by the label attached to the claim. Strict adherence to the three *Boyle* conditions specifically tailored for the purpose will ensure that the defense is limited to appropriate claims." *Snell v. Bell Helicopter Textron*, Inc., 107 F.3d 744, 749 (9th Cir. 1997) (quotations omitted) (holding that the government contractor defense can apply to a manufacturing defect). "[T]he question is" not whether the defense is asserted against a claim with a particular label but "whether subjecting a contractor to liability under state tort law would create a significant conflict with a unique federal interest." *Hudgens*, 328 F.3d at 1334 (applying the defense to a military maintenance contract because the *Boyle* analysis was not designed to create allor-nothing rules regarding the type of contract to which the government contractor defense might apply); *see also McMahon v. Presidential Airways*, 410 F. Supp. 2d 1189, 1197-98 (M.D. Fla. 2006) (holding that the defendant had a colorable federal defense when it claimed the government contractor defense for its transportation of servicemen and ammunition).

The factors articulated by the Court in *Boyle* ensure that such a conflict with state law exists by requiring that federal discretion was employed and followed. The first two prongs ensure that "the suit is within the area where the policy of the discretionary function would be frustrated." *Boyle*, 48 U.S. at 512. The last prong is necessary to eliminate any incentive the contractor might have to withhold from the government information regarding risks. *Id.* at 512-13. Although the prongs in *Boyle* were created in terms applicable to a products liability case, they are equally applicable to the conflict created here by the Advocacy Team's attempt to impose liability on Goodrich for its operation of the burn pit at Rialto.

2. The Government Contractor Defense Protects Contractors When Hazardous Materials Are Released as the Result of the Federal Government's Discretionary Decisions

The government contractor defense specifically applies in circumstances of environmental contamination. In *Miller v. Diamond Shamrock Co.*, 275 F.3d 414 (5th Cir. 2001), the appeals court affirmed summary judgment based on the government

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contractor defense in a large tort action brought by civilian employees against seven chemical companies involved in the manufacture of Agent Orange during the Vietnam War. The chemical companies were not liable for claims based on exposure to dioxin in Agent Orange because dioxin was specified by the government as a necessary component of the final product, just as the proper disposal of ammonium perchlorate and solvents contaminated with explosives were specified as necessary here. *Id.* at 419-21.

The government contractor defense unquestionably applies when, as here, the military directs and controls the exact methods of disposal. Federal courts have dismissed similar claims by third parties directly against the United States, finding that military decisions regarding waste disposal involve an element of judgment or choice. and, therefore, are subject to the discretionary function exception to the FTCA. See. e.g., OSI, Inc. v. United States, 285 F.3d 947, 953 (11th Cir. 2002) (finding that the Air Force was immune from suit for soil and groundwater contamination caused by landfills both on and near, Maxwell Air Force Base and holding that disposal of waste on a military base "involves policy choices of the most basic kind . . . [and] requires that [the military] be free to weigh environmental policies against security and military concerns") (internal quotations omitted); Aragon v. United States, 146 F.3d 819, 826 (10th Cir. 1998) (finding that the Air Force's decisions with respect to the treatment of solvent waste water were "operational decisions . . . subject to defense and security considerations" that fell within the discretionary function exception). Boyle requires the same outcome when the military has directed the manner in which a government contractor must dispose of certain wastes, because "it makes little sense" to protect the government against financial liability for waste disposal decisions when the government performs the disposal itself but not when it contracts for that disposal with private parties. Boyle, 487 U.S. at 512.

The United States District Court for the Central District of California has in fact addressed the applicability of the government contactor defense to waste disposal in the context of a removal proceeding. *See Armess v. Boeing N. Am., Inc.*, 997 F. Supp. 1268,

The element that was missing in Arness - government direction - is certainly present in this case with respect to ammonium perchlorate, making the defense fully applicable to this highly-regulated material that was vital to the United States' Cold War efforts. As discussed above, the government imposed detailed requirements that directed Goodrich to incinerate ammonium perchlorate in a burn pit. Moreover, there is ample evidence that these military specifications required Goodrich to burn any solvents contaminated with explosives like ammonium perchlorate. Goodrich has demonstrated that it complied with the government-issued regulations - which governed disposal of the ammonium perchlorate at Rialto - and the Draft CAO contains no evidence to the contrary. 152 Accordingly, the government contractor defense applies to the facts before

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¹⁵² The third prong of the government contractor defense, that the contractor "warned the United States about the dangers in the use of the [product] that were known to the [contractor] but not to the United States," Boyle, 487 U.S. at 512 (emphasis added), is also met here because the government supplied the specifications directing disposal. Moreover, as the Fifth Circuit found in Miller, there was no duty to inform the government

the Board.

Further, the Advocacy Team cannot defeat the defense by arguing that additional precautions at the burn pit should have been taken beyond those required by the government. See Yearsley v. W.A. Ross Constr. Co., 309 U.S. 18, 21 (1940) (holding that a claim by landowners for water damage caused by a private contractor while widening the Missouri River for the United States Government was barred because "there is no liability on the part of the contractor for executing [the government's] will"). The principle announced in Yearsley was applied in Dolphin Gardens, Inc. v. United States, 243 F. Supp. 824 (D. Conn. 1965), where a Navy contractor hired to dredge and improve a river was sued by a neighboring landowner for property damage allegedly caused by fumes that escaped as a result of the dredging. The decision to deposit the dredging in the vicinity of the plaintiff's property was made by the government based on time constraints and "the high priority given to the project by the Secretary of the Navy." Id. at 826. The court granted summary judgment for the contractor, holding that

[t]he question of foreseeability of harm and the possible need to protect against it arose when the Government framed its terms. There is no charge that what the contractor did was not what it was required to do. Rather, it is that it was negligent in failing to provide some safeguard against the subsequent escape of the fumes. Yet, as stated above, this was a decision which rested with the Government. The Government did not provide for such additional precautions in the plans, and [the contractor] is not to be held liable for this omission.

Id. at 827 (citations omitted).

Goodrich thus cannot be liable for the performance of its contracts at the Rialto

of the potential hazards of AP because of "the paucity of scientific evidence" that it "was in fact hazardous." 275 F.3d at 421. Neither party in this case was aware that the disposal practices at Rialto could lead to the groundwater contamination at issue today. As with the dioxin in Agent Orange, and perhaps more so, no party knew during the time of Goodrich's operations at Rialto that AP was a groundwater contaminant of concern. See Holub Dep. 16:23-17:8 (testifying that nobody suspected that perchlorate had contaminated the groundwater until 1997) and 685:8-14 (stating that there was no requirement under state law in 1987 to test for perchlorate). See also Thibeault Dep. 482:16-483:17 (testifying that perchlorate was not a pollutant of concern in 1987). To the extent that there were known risks surrounding AP, the government's knowledge of these risks was equal to, if not greater than, Goodrich's knowledge.

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facility. It was merely complying with government-imposed directives, which reflected the government's own balancing of various factors such as safety, national security, and cost to the taxpayer. Under the reasoning of *Yearsley* and *Dolphin Gardens*, Goodrich is further shielded by the government's sovereign immunity against any claim by Plaintiffs that it should have done more than what was required by the government to prevent the contamination. *See OSI, Inc.*, 285 F.3d at 947 (finding the government immune from liability because chemical waste disposal "involves policy choices of the most basic kind"). Accordingly, unless the Board receives supportable evidence that the ammonium perchlorate contamination occurred because Goodrich failed to comply with government specifications, it should dismiss the Advocacy Team's claims.

The undisputed evidence in this case demonstrates that the federal government validly promulgated specific directions for Goodrich's use, handling, and disposal of ammonium perchlorate and any solvent contaminated with ammonium perchlorate or propellant at the Rialto site and that Goodrich followed those directions to the letter in its role as a government contractor. Both the Supremacy Clause, which dictates that federal regulations trump conflicting state laws in cases such as this, and the government contractor defense, which has shielded contractors in cases where – as here – the three *Boyle* factors were satisfied, preclude the Board from imposing liability upon Goodrich for cleanup of the Rialto site. Goodrich is therefore entitled to a dismissal of all allegations levied by the Advocacy Team relating to the releases alleged in the Draft CAO.

XVI. OTHER POTENTIALLY LIABLE PARTIES WERE NOT NAMED IN THE CAO AND HAVE BEEN BLATANTLY IGNORED

The only alleged dischargers named in the CAO by the Advocacy Team, and joined in by their co-prosecutor, the City of Rialto, are Goodrich, the Emhart parties, and Pyro Spectaculars. But this, at best, is a gross error of prosecutorial discretion, and, at worst, a clear demonstration of prosecutorial bias and conflict of interest combined with a "rush to judgment." As discussed above, a wealth of evidence overwhelmingly

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demonstrates that Pyrotronics Corporation (aka "Apollo Manufacturing"), and Ken Thompson are responsible for the confirmed discharge of perchlorate to the groundwater. The record also demonstrates that the State of California, through the Regional Board, the City of Rialto, through its planning and fire departments, and the County of San Bernardino, through the operation and expansion of its Mid-Valley Landfill, bear culpability for the perchlorate contamination in Rialto that is the subject of the instant proceedings.

Given Water Code Section 13304(a) specifically contemplates that governmental entities can be liable "persons" and the credible evidence of their culpability, these parties cannot be ignored in these proceedings. The fact that they have been makes clear that the Advocacy Team and the City have deliberately abused this process to blame others for the perchlorate contamination that clearly has resulted from their own acts and omissions.

A. Pyrotronics' Operations Cannot be Overlooked

Amazingly, the Advocacy Staff inexplicably leaves out Pyrotronics Corporation and its two decades of operations from this matter — even though evidence against Goodrich amounts to nothing when compared to that against Pyrotronics. The Advocacy Staff does not dispute that Pyrotronic's operations resulted in the only confirmed perchlorate discharge on the 160-acre parcel.

As detailed above, Pyrotronics handled significant quantities of raw perchlorate as part of its manufacturing operations. Floor sweepings, which contained perchlorate, were collected from the mixing and press rooms and transported for disposal to the Fireworks Burn Pit located on Pyrotronics' property. Damaged or defective fireworks and other production waste were also disposed of in the burn pit and later on a concrete pad where burns were also conducted at the facility. The mixing and press rooms were hosed down with water at the end of each day, and the wash water flowed into sumps outside the rooms and occasionally overflowed onto the bare ground.

Notably, Pyrotronics also built the McLaughlin Pit at the direction and with the

approval of various public agencies including the Regional Board, which it operated for nearly sixteen years and used to dispose of the floor sweepings mentioned above and damaged or defective fireworks. The McLaughlin Pit was intentionally flooded with thousands of gallons of water on a regular basis in order to prevent the perchlorate and other chemicals in the pit from auto-igniting. Pyrotronics routinely and repeatedly violated the WDRs governing the operation of the McLaughlin Pit – failing to prepare monitoring reports or adhere to the freeboard requirements – and overflows onto the bare ground were reported by witnesses including Mr. Berchtold. In addition to overflows, perchlorate-laced water penetrated the exterior gunite of the pool and escaped into the surrounding soil materials due to a combination of factors that diminished the integrity of the plaster membrane that coated the gunite reservoir of the pit. 153 English Dec. ¶¶ 37-54. Almost completely absent from the record is documentation of where liquid waste from the McLaughlin Pit was transported for ultimate disposal leaving open the possibility that it was merely dumped on the property.

Pyrotronics' display fireworks division, California Fireworks Display Company, routinely tested aerial fireworks on the property, resulting in duds, "stars", and other debris specifically containing perchlorate falling back down to the bare ground at the facility. Pyrotronics' sloppy operations also led to numerous fires and explosions (some involving fatalities and serious injuries), including major explosions in mixing and press rooms where fireworks composition was handled, causing still further perchlorate releases across large portions of the property.

Based on these and other well-documented releases caused by Pyrotronics over its twenty years as an owner/operator on the 160-acre parcel, Pyrotronics cannot be taken out of the equation in these proceedings. The fact that Pyrotronics declared

These factors included exposure to high temperatures, the lack of fluid contact at certain points in time, the chemical composition of the material disposed in the pool, lack of filtration or circulation within the pool structure, hydrostatic pressure changes, earth or ground movements and/or contacts with solid objects and the level of abrasion and/or degradation from such objects. English Dec. ¶¶ 18-25, 37-54.

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bankruptcy provides no excuse for the Regional Board. The Regional Board had knowledge of Pyrotronics' bankruptcy filing by at least July 1986, well before the "closure" of the McLaughlin Pit, yet simply chose not to make a claim in bankruptcy against Pyrotronics. Goodrich Ex. 10376; Berchtold Dep., 233:17-234:22; 234:24-235:2; 235:4-237:3; 250:14-19. The Regional Board has made no effort to determine if Pyrotronics Corporation can respond to the Section 13304 order, nor if any of its successors, like APE or Ken Thompson, are now legally responsible for Pyrotronics' liabilities.

Ken Thompson is Liable For Groundwater Contamination Because He B. Accepted Responsibility to Close the McLaughlin Pit; Improperly Closed the Pit; and Still Owns the Pit Today

As explained above, Ken Thompson purchased the southern portion of the 160acre parcel (where the McLaughlin Pit was located and before it was closed) from Pyrotronics in May 1987 for use in a concrete pipe manufacturing business. He has owned that property, and the McLaughlin Pit site, ever since. As a condition of the property sale, Mr. Thompson agreed to fully close the McLaughlin Pit and perform any necessary, related cleanup and to release Pyrotronics from any liability for the McLaughlin Pit and its closure. Ex. 11116, 11215. Mr. Thompson hired Mr. McLaughlin to close the pit, although Mr. McLaughlin was neither a registered civil engineer or a certified engineering deologist, and despite the fact that Subchapter 15 required an individual with such credentials to supervise the McLaughlin Pit's closure. See Adelson Dep., 111:2-112:20 (This requirement was to be satisfied by the discharger; the Regional Board did not provide somebody with the requisite credentials from the Regional Board signing off on the closure). And as detailed extensively above, Mr. McLaughlin's plan to burn the approximately 54,000 pounds of waste material that remained in the McLaughlin Pit was carried out without necessary public agency approval, and the pit's "closure" was in plain violation of Subchapter 15's detailed requirements (including monitoring for perchlorate), which were just ignored. Further, Mr. Thompson also failed to submit a report to the City Engineer certifying that the McLaughlin Pit had been

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cleaned up in a satisfactory manner with the approvals of all necessary public agencies as he was required to do under the mitigated negative declaration adopted by the City pursuant to CEQA that allowed him to develop the land.

As such, Mr. Thompson is directly responsible for the perchlorate discharges emanating from the McLaughlin Pit and should be named in the CAO. Cal. Wat. Code § 13304(a). It is simply inexplicable (and inexcusable) that the person who agreed to close the McLaughlin Pit and clean-up any releases (and released and indemnified Pyrotronics Corporation from any such liability) has never been required to do any investigation in Rialto and is mysteriously missing from these proceedings. Indeed, the Regional Board's inexplicable decision to stop the enforcement of its Section 13267 order issued to Mr. Thompson in 2004 leaves no doubt about the inequitable treatment that Mr. Thompson, the owner of the McLaughlin Pit, has been given when compared to the alleged "dischargers" whom the Regional Board has chosen to prosecute here.

Mr. Thompson is also a liable person under Section 13304(a) because he is the current owner of the property where the McLaughlin Pit (the only confirmed source of perchlorate releases from the 160-acre parcel) is located. See Harvey Spitzer, et al., Order No. WQ 89-8. Likewise, as "[t]he owner of the property [of a nonoperating industrial or business location] on which the condition exists, or is created," Mr. Thompson is liable. Water Code 13305(f). Therefore, Mr. Thompson "must share in the responsibility for the cleanup" with the State and the City of Rialto. Zoecon Corporation, Order No. WQ 86-2 (SWRCB 1986)¹⁵⁴ (emphasis added).

The Regional Board's failure to pursue and excusal from its directive of Mr. Thompson is highly unusual and contrary to precedent, as the owner of the property subject to a cleanup order is typically named under "[a] long line of State Board orders [that] have upheld Regional Board orders holding landowners responsible for cleanup of

the petitioner characterizes itself as the 'mere landowner' in this situation. Yet it is this very role that puts [the landowner] in the position of being well suited to carrying out the needed onsite cleanup. The petitioner has exclusive control over access to the property. As such, it must share in responsibility for the cleanup."

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pollution on their property regardless of their involvement in the activities that caused the pollution." *Spitzer; see also, Zoecon*. Here, of course, the case for naming Mr. Thompson is all the more compelling because he bears direct responsibility for the inadequate closure of the McLaughlin Pit and the ensuing contamination.

- C. The State of California Is Responsible For The Contamination Generated By Pyrotronics
 - 1. The Regional Board "Permitted" Discharges to Occur from the McLaughlin Pit and Robertson Ready Mix Under Water Code Section 13304(a)

Under Water Code Section 13304(a), any "person," can be held liable if the conditions of the statute are met. Because it is undefined in the statute, the word "permit" is given its ordinary dictionary meaning, and "to permit" is defined to mean "to . . . allow, consent, let; to give leave or license; to acquiesce, by failure to prevent, or to expressly assent or agree to the doing of an act." *Black's Law Dictionary*, p. 1298, col. 1 (Rev. 4th ed. 1968). The definition of "person" "includes any *city*, county, district, the *state*, and the United States, to the extent authorized by federal law." Water Code Section 13050(c). (emphasis added.)

Here, the facts establish that the Regional Board's staff (including key members of the Advocacy Team here), and by extension the State, allowed, consented to, acquiesced in, failed to prevent and expressly assented and agreed to: (1) the operation of the McLaughlin Pit in violation of its WDRs for over sixteen years, and, after 1984, operation and closure of the Pit without any serious effort to compel compliance with the Subchapter 15 requirements for waste disposal units, and (2) the installation of four unlined settling ponds directly over areas of known perchlorate storage and use without any soil investigation for perchlorate, causing significant amounts of perchlorate to discharge to the groundwater. The State is thus a liable person under Water Code Section 13304(a) and should be ordered to investigate and cleanup the contamination it permitted to be discharged from the McLaughlin Pit. Had the Regional Board carried out its Subchapter 15 obligations, the perchlorate contamination caused by the McLaughlin

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Pit would have been detected in 1987 and remediation efforts initiated immediately until completion. Instead, the McLaughlin Pit discharge has continued unabated for some twenty years after its botched closure, and remains unaddressed today.

Further, had the Regional Board properly executed its mandatory duties, it would have protected the State in the Pyrotronics bankruptcy proceeding and obtained a standard preference for environmental compliance obligations of the debtor with the preference allocation of Pyrotronics' assets toward the obligations imposed under Subchapter 15, including the monitoring and leak detection requirements, closure, postclosure, corrective action requirements and financial assurances.

Finally, the Regional Board's issuance of the Water Code Section 13267 letter to Mr. Ken Thompson in 2004 to investigate the perchlorate contamination emanating from the improperly closed McLaughlin Pit, and their inexplicable failure to require Mr. Thompson to do anything other than cooperate in providing access to his property so that other parties, also compelled by the Regional Board, could bear the burden of the investigation of the Pit that Mr. Thompson had taken responsibility for, makes clear that the Advocacy Team here is biased and is attempting to deflect attention away from their own responsibility for failing to properly address the McLaughlin Pit.

> The Regional Board is Liable Under Government Code Section 2. 815.6 as it Failed to Discharge its Subchapter 15 Duties

Government Code Section 815.6 provides:

Where a public entity is under a mandatory duty imposed by an enactment that is designed to protect against the risk of a particular kind of injury, the public entity is liable for an injury of that kind proximately caused by its failure to discharge the duty unless the public entity establishes reasonable diligence to discharge the duty.

(emphasis added). For purposes of Government Code Section 815.6, an "enactment" includes regulations like Subchapter 15. See Gov. Code § 810.6 ("enactment' means a constitutional provision, statute, charter provision, ordinance or regulation."). A public entity is under a "mandatory duty" for purposes of Section 815.6 if it is obligated to take a particular action:

[A]pplication of section 815.6 requires that the enactment at issue be obligatory, rather than merely discretionary or permissive, in its directions to the public entity; it must require, rather than merely authorize or permit, that a particular action be taken or not taken.

Walt Rankin & Assocs., Inc. v. City of Murietta, 84 Cal. App. 4th 605, 613 (2000). The language of an enactment is useful in determining whether or not it is mandatory: "the usual rule . . . is that 'shall' is mandatory and 'may' is permissive unless the context requires otherwise." *Id.* at 614.

From the time Subchapter 15 was adopted in 1984, and through the rescission of Apollo's WDRs for the McLaughlin Pit in 1991, Subchapter 15 imposed on the Regional Board a mandatory duty to enforce the operation and closure requirements of Subchapter 15 with respect to the McLaughlin Pit, a Class I hazardous waste unit:

The regulations in this subchapter establish waste and site classifications and waste management requirements for water treatment, storage, disposal in landfills, surface impoundments, waste piles, and land treatment facilities. Requirements in this subchapter are minimum standards for proper management of each waste category.

23 Cal. Code Reg. § 2510(a) (emphasis added). In connection with the enforcement of these minimum standards, Subchapter 15 mandated that "[r]egional boards *shall* implement the regulations in this subchapter through the issuance of waste discharge requirements for waste management units." *Id.* at § 2510(f) (emphasis added).

Subchapter 15 further mandated that regional boards issue WDRs requiring all dischargers:

to establish a detection monitoring program . . . designed to detect the presence of waste constituents in surface water or ground water outside of waste management units and in the unsaturated zone beneath and adjacent to a waste management unit . . ., [including] . . [the] install[ation] [of] groundwater monitoring systems and unsaturated zone monitoring systems at the compliance points . . [,and] . . monitor ground and surface water for indicator parameters or waste constituents that provide a reliable indication of leakage from a waste management unit. The regional board shall specify in water discharge requirements the indicator parameters or waste constituents to be monitored after considering [three specific factors].

With regard to the "closure" of hazardous waste units, Title 23, California Code of Regulations Section 2510(d) mandated that the McLaughlin Pit "be closed and maintained after closure according to Article 8 of this subchapter." And Article 8 required compliance with "the monitoring program requirements in Article 5 of this subchapter, throughout the closure and post-closure maintenance period. The post-closure maintenance period shall extend as long as the wastes pose a threat to water quality." (Emphasis supplied.) In turn, Article 5 required that if a discharger found that a waste management unit had leaked then:

For Class I waste management units, dischargers <u>shall</u> analyze samples from all monitoring points for all constituents identified in <u>Appendix III</u> of this subchapter. Such analyses <u>shall</u> be performed at least annually to determine whether additional hazardous waste constituents are present in ground water.

23 Cal. Code Reg. § 2557(e) (emphasis added).

Appendix III (Table B) in Subchapter 15 listed *potassium perchlorate* as one of the toxic chemicals for which monitoring was required if a leak was detected. In other words, the Regional Board had a duty to classify the McLaughlin Pit as a Class I hazardous waste impoundment and require Pyrotronics to monitor and detect any leaks from the McLaughlin Pit, which they failed to exercise. Further, had Pyrotronics implemented the proper detection monitoring program it would have found the massive leak in the pit that has been confirmed by recent sampling and Pyrotronics would have been required to sample for potassium perchlorate in the groundwater. All of this should have occurred between 1984 and 1986, long before Pyrotronics' bankruptcy had ever began and long before Ken Thompson had purchased the property, but for the failures of the Regional Board in exercising their mandatory duties.

Finally, Subchapter 15 also mandated that "regional board[s] shall require the discharger to establish an irrevocable closure fund or provide other means to ensure closure and post-closure maintenance of each classified waste management unit in accordance with an approved plan." *Id.* at § 2580(f).

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Pyrotronics or Ken Thompson to comply with any of these mandatory closure requirements of Subchapter 15. Had these explicit regulatory obligations been implemented and enforced by the Regional Board, perchlorate contamination emanating from the McLaughlin Pit would have been detected in 1987 at the latest, and remediation could have gotten underway. But unfortunately, they were not. As such, the State of California is liable under Government Code Section 815.6 for the injuries to Rialto's groundwater proximately caused by the Regional Board's acts and omissions in connection with the McLaughlin Pit.

3. The Regional Board's Perchlorate "Investigation" Was Designed to Avoid Scrutiny of the Board's Own Misconduct

When the Regional Board staff began to investigate the perchlorate contamination in the Rialto/Colton Basin, its files were filled with information that Pyrotronics manufactured fireworks on the 160-acre parcel and disposed of massive quantities of perchlorate-laden waste into the McLaughlin Pit. Indeed, current Advocacy Team member Mr. Berchtold even inspected the McLaughlin Pit while it was operating, observed its overflow and reported other violations of its WDRs. Regional Board files also contained information leaving no doubt that the County's gravel washing operations incident to its Mid-Valley Landfill expansion released substantial quantities of perchlorate into the groundwater.

The Regional Board staff bears direct responsibility for these releases, because it failed to enforce the McLaughlin Pit's WDRs and disregarded its duty to enforce the Subchapter 15 regulations regarding monitoring and leak detection and closure of the pit. Regional Board staff also approved the use of unlined settling ponds by the County for soil washing operations. As such, it is simply inappropriate for a clearly culpable party such as the Regional Board through its staff to be responsible for prosecuting the perchlorate contamination investigation.

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D. City of Rialto is a Responsible Party

1. The City Did Not Enforce a Mitigation Measure Requiring Proper Cleanup of the McLaughlin Pit

It is black-letter CEQA law that "[a]gencies adopting mitigated negative declarations must take affirmative steps to ensure that approved mitigation measures are in fact implemented subsequent to project approval." Remy, Thomas, Moose & Manley, Guide to the Cal. Env. Quality Act (10th Ed. 1999), at 247. This makes sense – mitigation measures that aren't enforced provide no mitigation at all. And an agency's obligation to enforce mitigation is a continuing one: "until mitigation measures have been completed the lead agency remains responsible for ensuring that implementation of the mitigation measures occurs . . ." 14 Cal. Code Reg. § 15097(a).

The mitigated negative declaration that was approved by the City and which allowed Mr. Thompson to redevelop Pyrotronics' former property included a very specific condition regarding the cleanup and closure of the McLaughlin Pit:

Prior to any grading, construction or installation of equipment on Parcel 11, the applicant shall have completed a satisfactory cleanup program of the fireworks residual pit on Parcel 11 and shall have certified the satisfactory completion of that program in a report to the City Engineer. As part of that cleanup program, the applicant shall obtain all necessary permits or approvals from local, state and/or federal agencies as required. (emphasis added.)

Ex. 11162.

Thus, it was absolutely clear that before Mr. Thompson could start to develop the property, indeed before he could even grade the site, he needed to submit a report to the City Engineer demonstrating that the McLaughlin Pit had been completely cleaned up in a satisfactory manner, and he needed to obtain all necessary public agency permits/approvals to carry out the cleanup. The record is devoid of evidence showing that he did either.

First, the City has not produced any written documentation that Mr. Thompson submitted any kind of a certification report to the City Engineer. Second, it is clear that Mr. Thompson did not obtain "all necessary permits or approvals from local, state and/or

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28 Ps & federal agencies as required" to effectuate the cleanup. To the contrary, and as detailed above, the McLaughlin Pit was closed by Mr. Thompson's agents without any approval from the County, SCAQMD, USEPA, Regional Board, or DTSC. Mr. McLaughlin, who closed the pit on behalf of Mr. Thompson, testified that a December 15, 1987 letter from Mr. Van Stockum of the County qualified as the County's approval of his decision to burn the 54,000 pounds of berchlorate-containing waste that remained in the pit and to consider it closed. Bult Mr. Van Stockum testified clearly that this letter was not intended as the County's sign off on the burn and approval to proceed with development of the property. (Van Stockum Dep., 152:14-153:3), and Mr. Van Stockum was also very clear that the County did not have authority to authorize closure of a hazardous waste facility. Van Stockum Dep., 46:3-7; 85:13-86:15; 90:5-20; Roberts Dep., 48: 18-23; 109:2-21; 119:23-25; 120:1-11. Further, a December 3, 1987 letter (dated the day before the burn) from Mr. Van Stockum to State DTSC asked DTSC to respond to Mr. McLaughlin's closure plan because the County simply did not have the authority to approve it – further evidence that Mr. Van Stockum did not and could not approve Mr. McLaughlin's pit closure¹⁵⁵. Goodrich Ex. 10141.

Had the City enforced the condition requiring Mr. Thompson to "obtain all necessary permits or approvals" for proper closure of the McLaughlin Pit prior to any grading, Mr. Thompson would have needed to receive approval that the pit was closed in compliance with the Subchapter 15 Regulations, as well as any associated approvals for the closure of the Class I hazardous waste site from U.S. EPA, California, and he would have had to obtain a permit from SCAQMD. As previously explained, had the Subchapter 15 requirements been followed, the perchlorate contamination caused by the McLaughlin Pit would have been detected in 1987, and remediation steps could have been undertaken. Instead, the City allowed Mr. Thompson to simply bury the pit and

Further, the mitigation measure required that all necessary approvals be obtained *prior to grading*, but Mr. McLaughlin's purported satisfaction of this condition was a December 15, 1987 letter, while grading had begun in June or July of 1987.

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build on top of it, leaving it unabated. Thus, through its failure to enforce the McLaughlin Pit-closure mitigation measure mandated by CEQA, the City has permitted the discharge of perchlorate in Rialto, and should be named in the CAO pursuant to Water Code Section 13304. For the same reason, the City is also liable under Government Code Section 815.6 for injuries to the Rialto groundwater because the City failed in its mandatory duty under CEQA to enforce the mitigation.

Given that the City's obligation to enforce its CEQA mitigation measure is ongoing, it is inconceivable that the City still hasn't directed Mr. Thompson to comply and cleanup the McLaughlin Pit after the perchlorate contamination was detected in 1997. Instead of doing so, and thereby obligating the responsible party to engage in clean up activities, the City has chosen to pursue an investigation of Goodrich and others and actually dismiss any claims against Thompson, even though it is undisputed that Goodrich had absolutely no involvement with the McLaughlin Pit release.

2. The City Was, and Is, Well Aware of the Perchlorate Usage at the Rialto Fireworks Facilities

The City of Rialto through its Fire Department was familiar with the facilities, inventory and operations of the Rialto fireworks companies going back to the 1960s because it regularly visited these facilities in the performance of its duties. The Rialto Fire Department was responsible for preparing "Pre-Fire Planning Inspections", in which it examined each facility and diagramed its buildings so that the Rialto Fire Department would be prepared in the event that it was called to respond to an emergency at that facility. McVeitty Dep., 60:10-61:1. During these inspections, the Rialto Fire Department also took note of each facility's hazardous materials inventory and recorded the manufacturing processes that the fireworks companies were involved with at the 160-acre site. The County eventually assumed jurisdiction over enforcement of hazardous materials statutes in the mid-1980s, and provided leadership and assistance with these duties to the City of Rialto Fire Department, but the City of Rialto Fire Department remained involved. See McVeitty Dep., 135:15-21; 306:5-21; 307:10-308:10; 265:22-

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In 1987, when the SCAQMD refused to allow the burning of fireworks waste material, the City of Rialto Fire Department knew that such waste was being stockpiled at dangerous levels but refused to record these violations because it was sympathetic to the fact that the fireworks companies had no means to dispose of their waste. Finally, the City of Rialto Fire Department sought to invoke AQMD Rule 444, which provided an exception to the AQMD burning restrictions in cases where there was a fire hazard to life and property. McVeitty Dep., 150:10-21; 151:4-22; 152:4-153:20; 154:11-23; 156:8-22; 238:15-239:15; 240:12-15; 240:19-241:6; Thrash Dep., 21:19-25:11; Ex. 11229.

The City of Ria to Fire Department also inspected locations where materials were to be burned, including the Fireworks Burn Pit and Burn Pipe, and City of Rialto Fire Department employees observed aerial fireworks tests in Rialto. Incident reports and other written records prepared by the City of Rialto Fire Department demonstrate that it has responded to fires and explosions at the various fireworks companies beginning in 1968 and continuing through the present, and that these fires have often involved powder and other fireworks materials. In addition, the City, through its police and fire departments, brought confiscated fireworks to the Pyrotronics facility to be burned in the Fireworks Burn Pit and the Burn Pipe.

XVII. CCAEJ AND ENVIRONMENT CALIFORNIA WILL NOT PROVIDE ANY ADDITIONAL INFORMATION RELEVANT TO THE PRESENT PROCEEDINGS

The Designated Parties, Center for Community Action and Environmental Justice (CCAEJ) and Environment California, have no relevant evidence to present in these proceedings. The purpose of the public hearing is to receive "relevant testimony and evidence" on four issues: "[1] legal responsibility for site investigation and remediation; [2] the technical evidence justifying site investigation and cleanup; [3] the feasibility and propriety of cleanup and remediation requirements; and [4] appropriate cleanup standards for protection of public health and beneficial uses of waters of the state." Ex. 20257 (Second Amended Notice of Public Hearing).

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On February 13, 2007, Environment California and CCAEJ requested "joint Designated Party status in any meetings and hearings regarding how to proceed with cleanup of [the] Rialto Perchlorate Contamination." Ex. 20290. This request was summarily granted and they were listed as parties in the February 23, 2007 Notice of Public Hearing. Ex. 20257. As a result, they have been allocated a total of 5 and ½ hours time at the hearing – the same as Goodrich and each of the other parties accused of liability, and significantly more than the maximum time of three to five minutes allotted to other "interested persons" who wish to make "policy statements". Ex. 20400.

One would expect that Environment California and CCAEJ have been granted the status of parties in these proceedings because they have something material to say or present. However, that is not the case at all. As fully discussed below, the deposition testimony of representatives of Environment California and CCAEJ reveals that, with just a short time before submissions were due, they had not even figured out what subjects they intended to address, what witnesses will testify, or what evidence they will present. Underlying this disorganization is the plain fact that these organizations and their representatives have no firsthand or expert evidence to offer on any of the relevant subjects. Thus, it is appropriate that Environment California and CCAEJ's joint submission admits in the first two paragraphs that they will only present "policy" arguments", unsupported by any witness or admissible evidence. 156 Accordingly, Goodrich fully expects that their presentation will not be permitted to address, in any way, the relevant evidentiary subjects of these proceedings. Such a presentation would amount to nothing more than baseless accusations and politicking, which will accomplish nothing other than wasting the time, resources, and energy of the proper parties and the State Board.

Environment California

Ms. Sujatha Jahagirdar appeared for deposition on March 26, 2007 as the

The legal issues raised by Environment California and CCAEJ are addressed in the "Legal Arguments" section herein. See Section III, supra.

Federal Rule of Civil Procedure, Rule 30(b)(6) representative for Environment California on several subjects, including "any evidence" it intends to rely in these proceedings.

Ex. 20060 (Topic 2). 157

Environment California has not hired any consultants or experts to present <u>any</u> testimony on its behalf. Jahagirdar Dep., 55:16-19. It has not hired any experts <u>at all</u>. *Id.*, 68:13-14. It has not retained counsel to represent it at the hearing. *Id.*, 68:19-69:4. And it has not identified any potential witnesses, with one exception – Ms. Jahagirdar herself. *Id.*, 221:18-21.

Environment California intends to present testimony from Ms. Jahagirdar, who is "the point person on perchlorate at Environment California". *Id.*, 169:17-19, 227:3-4. As of her deposition, Ms. Jahagirdar did not even know what subject she will testify about.

- Q. You're going to testify. [¶] Are you preparing a declaration?
- A. We plan to we haven't prepared it yet for the August for the April 12th deadline.
- Q. And whose declaration is that going to be?
- A. Myself.
- Q. You're going to testify in a declaration. [¶] What are you going to say in your declaration?
- A. I don't know yet at all. I'm not a lawyer, and I'm very unfamiliar with the process, and I I haven't even begun –

deposition of a corporation or other entity, which is accomplished by deposing one or more representatives selected by the organization with knowledge of whatever topics are identified in the subpoena and/or deposition notice. Specifically, Rule 30(b)(6) provides: "A party may in the party's notice and in a subpoena name as the deponent a public or private corporation or a partnership or association or governmental agency and describe with reasonable particularity the matters on which examination is requested. In that event, the organization so named shall designate one or more officers, directors, or managing agents, or other persons who consent to testify on its behalf, and may set forth, for each person designated, the matters on which the person will testify. A subpoena shall advise a non-party organization of its duty to make such a designation. The persons so designated shall testify as to matters known or reasonably available to the organization."

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1 2	Q.	And to your knowledge, you're [not] getting up in this hearing and going to be sworn as a witness to testify personally as to any of the facts that are established —	
3	A.	Correct.	
4	Q.	That's very helpful. And we can put this aside, and that	
5		makes a lot of work that we would have to do otherwise, okay?	
6	Α.	Okay.	
7	Q.	Now, let me ask you this: [¶] I understand the subject matters that you and Mr. Diaz are talking about presenting on, okay. [¶] But I want to know what documents at present	
9		do you intend to put into the record?	
10	A.	At present, we only plan to submit our – the materials that we submit on August 12th, so our kind of outline of our arguments and –	
11	Q.	You mean like a brief?	
12	Α.	I don't know the legal term for it.	
13	Q.	Like a white paper?	
14	Α.	I don't know what we're going to call it.	
15	Q.	Well, whatever you call it, you're going to write something?	
16 17	A	We're going to present the out as specifically as we need to the arguments that we'll be presenting at the	
18	Q.	But you haven't started writing that yet?	
19	A.	No.	
20	Q.	And to your knowledge, Mr. Diaz hasn't either?	
21	Α.	To my knowledge, no.	
22	Q.	What about supporting documentation?	
23	Α.	We haven't thought through that at this point. [¶] But at this point, no intention of submitting anything that	
24		relates to firsthand knowledge of anything in the order.	
25	Id., 313:19-315:11 (emphasis added). 158 The state of Public Hearing, Ms. Jahagirdar also testified she does not have any knowledge concerning "how citizens of Rialto are feeling about the perchlorate in their water", and therefore, she cannot present on that subject either. Jahagirdar Dep., 118:1-119:12.		
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	28	She is not an expert in toxicology. <i>Id.</i> , 43:8-16.
	27	She is not an expert in epidemiology. <i>Id.</i> , 42:24-43:6.
	26	She is not an expert in vadose zone modeling. <i>Id.</i> , 70:3-4.
	25	 She is not an expert in the movement of chemicals dissolved in water through soil. <i>Id.</i>, 69:25-70:1.
	24	• She is not an expert in the fate and transport of water. <i>Id.</i> , 69:22-24.
	23	She is not an expert in hydrogeology or geology. <i>Id.</i> , 69:19-20.
	22	She is not an expert in groundwater modeling. <i>Id.</i> , 69:17-18.
	21	• She is not an expert in water distribution. <i>Id.</i> , 69:15-16.
	20	She is not an expert in civil engineering. <i>Id.</i> , 69:13-14.
	19	geology). Id., 19:20-20:7.
	18	She is not professionally licensed in any field (e.g., engineering or
	17	 Ms. Jahagirdar holds an undergraduate Bachelor of Science degree in "biology and history" from Yale University in 1988. <i>Id.</i>, 13:9-16.
	16	expert in any relevant scientific or medical field.
	15	In addition to knowing none of the relevant facts, Ms. Jahagirdar is also not an
	14	issue
	13	2. Ms. Jahagirdar possesses no expert knowledge on any relevant
	12	Id., 181:6-15, 268:15-269:16.
	11	A. Yes.
	10	Q. Answer "yes" or "no" verbally, please.
	9	A. Uh-huh.
	8	Q. Hold on a second. [¶] And they did that; right?
	7	A. Yeah. [¶] And then also EAD [sic]
	6	Q. The regional board has issued a draft, unsigned order; right?
	5	water board's
	4	A. I did not do primary research, but I am relying on the regional
	3	aware of that says that their stuff is in the groundwater, is there?
	1	Q. Okay. But hold on a second. [¶] You said they've been a potentially responsible party. [¶] [That] [d]oesn't mean they are a responsible party; right? [¶] There's no evidence you're
		Details and MI Versitation in the second

1	its health effects in	any population, its safe levels, or any appropriate cleanup standard:
2 3	Q.	On this Internet website here, in your bio, you say you have expertise And that's the magic word there we've been talking about; right?
4 5 6	Α.	Yeah. I mean Okay. So the basic thing with this whole expert thing is that I, in most forums, know more about perchlorate than everybody else there and have spent a lot of time thinking about it. [¶] If you're asking if I'm going to testify as an expert at the water board proceeding, it's
7		unlikely because I think in that forum, it's not appropriate. [¶] So does that answer your question?
8		* * *
9	Q.	In scientific circles, are you an expert
10	A.	No.
11	Q.	So you're not an expert in perchlorate in scientific circles; right?
12	Α.	Correct.
13	,	* * *
14 15	Q.	So you're not going to testify as an expert on State and federal policies related to safe drinking water, as an expert?
16	Α.	I'm not going to characterize myself as an expert, correct.
17	Q.	And the same thing is true of clean water and water quality?
18	A.	Correct.
19	Q.	And the same thing
20	Α.	Correct, correct.
21 22	Q.	Hold on. I get to ask the question. [¶] And you will not be holding yourself out as an expert in cleanup standards for toxic pollution?
23	Α.	At the State water board proceedings, correct.
24	Α.	* * *
25	Q.	You're not going to be providing any documentation on
26		cleanup levels, I take it; right?
27	Α.	What do you mean by that?
28	Q.	Well, you know, the order talks about what is safe for the residents, okay. [¶] And in order to offer an opinion or
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3. Ms. Jahagirdar also may not present the publications of Environment California or any other hearsay

Goodrich anticipates that Ms. Jahagirdar may attempt to "rely on" – *i.e.*, simply read or submit into the record – documents including the publications of Environment California on perchlorate. In addition to being inadmissible hearsay (*see* Cal. Evid. Code § 1200 *et seq.*), such commentaries are not reliable, expert analyses that deserve any weight in these proceedings. They do not contain original research, nor are they opinions of a qualified expert. In fact, Environment California's publications were not even written or reviewed by anyone with scientific expertise. They were written by a non-scientist, Travis Madsen, who is with an organization called "the Frontier Group", and then reviewed by Ms. Jahagirdar. *Id.*, 124:9-20. Mr. Madsen is paid to write these pieces for Environment California. For one report, he was paid "around the ballpark" of \$10,000. *Id.*, 125:5-14.

Mr. Madsen is also not an expert in any relevant subject. All Ms. Jahagirdar knows of Mr. Madsen's background is that he does not have a Ph.D. degree in any field (she also knows nothing of the experience of anyone else at the Frontier Group). *Id.*, 150:4-151:7. According to his biography, Mr. Madsen is simply a "Policy Analyst" with a Bachelor of Arts degree from the University of California. U.S. PIRG website *available at* http://www.pirg.org/media/staff/travismadsen.html. California Environment's "reports", which include accusations about health risks from perchlorate, were not even reviewed by any expert in endocrinology, epidemiology, or toxicology. *Id.*, 151:24-152:3. In summary, these documents are advocacy pieces, not evidence, and therefore have no place in these proceedings. 159

B. CCAEJ

Ms. Penny Newman appeared for deposition on April 3, 2007 as the Federal Rule

Even Ms. Penny Newman from CCAEJ acknowledges these are not peer-reviewed, scientific publications and should not be used to draw any health effects from perchlorate exposure. Newman Dep., 155:14-156:1.

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of Civil Procedure, Rule 30(b)(6) representative for CCAEJ on several subjects, including "any evidence" it intends to rely in these proceedings. Ex. 20060 (Topic 2). Ms. Newman founded CCAEJ in 1993 and has been its Executive Director since that time. Newman Dep., 21:19-22:3. Mr. Davin Diaz, CCAEJ's "campaign director", was also deposed on April 5, 2007. *Id.*, 37:19-21, Diaz Dep., 191:5-7. Ms. Newman and/or Mr. Diaz may present testimony on behalf of CCAEJ. Newman Dep., 37:6-24.

CCAEJ is in no position to present evidence on any issue relevant to these proceedings. Ms. Newman and Mr. Diaz are political advocates, not witnesses with firsthand knowledge or expertise in any relevant subject.

Ms. Newman freely admits that CCAEJ is not prepared to present any relevant evidence, and its submission does not offer any suggestion to the contrary. Indeed, as of the depositions of Ms. Newman and Mr. Diaz, CCAEJ had not retained counsel to represent it in these proceedings, nor had it begun preparing any documents or visual presentation to submit or present, nor had it even decided what evidence it intends to present. Id., 37:25-38:4, 38:13-15, 39:13-16, 51:8-14; see also Diaz Dep., 106:14-107:13. CCAEJ had not even decided if it would make any submission. Newman Dep., 38:21-23.

This indecision likely reflects the fact that CCAEJ has no relevant expert information to present at these proceedings. Ms. Newman 160 is not an expert in any relevant subject – e.g., hydrogeology, geology, fate and transport of chemicals in the environment, groundwater modeling, civil engineering, inorganic chemistry, the use of perchlorate in rocket fuel manufacturing, resulting wastes, waste management, medicine, endocrinology, the effects of perchlorate on the human thyroid, the effect of endocrine disruptors in general, epidemiology, toxicology, metabolism, molecular biology, and law. Id., \$2:4-14, 82:15-20, 85:15-17, 87:17-88:1, 95:13-96:11, 205:10-16,

¹⁶⁰ Ms. Newman holds an undergraduate Bachelor of Arts degree in "speech and language pathology" from California State University Fullerton in the "late '80s", along with some related graduate coursework. Newman Dep., 79:25-80:18, 81:12-16.

206:8-15, 209:10-12, 215:1-5, 215:22-217:19. Mr. Diaz¹⁶ likewise concedes his lack of expertise in the subjects relevant to these proceedings – e.g., medicine, biology, toxicology, epidemiology, molecular biology, endocrinology, chemistry, biochemistry, geology, hydrogeology, risk assessment, water quality, public health, and perchlorate and its potential health effects in any population. Diaz Dep., 24:12-17, 25:13-26:20, 121:15-122:1, 176:25-177:3, 264:13-265:9, 266:25-270:21, 273:6-274:5. CCAEJ does not have experts in any relevant subject on its staff either. Newman Dep., 140:17-19, 217:20-218:21. In fact, in Mr. Diaz's two-plus years working on perchlorate for CCAEJ, his "research" consisted of reviewing the Environment California's publications and he "tried reading" one original study, which he admits not understanding. Diaz Dep., 261:7-262:4, 275:6-276:9, 284:12-18.

CCAEJ also has not retained any experts or consultants on issues related to the perchlorate contamination in Rialto, including any medical or hydrogeology experts.

Newman Dep., 94:12-17, 95:1-12, 218:22-219:3. 163 Ms. Newman's reasoning is that

Mr. Diaz holds an undergraduate Bachelor of Arts degree in "history" from California State University San Bernardino in 2004. Diaz Dep., 21:1-8. The only college-level science courses he took were "astronomy and astronomy lab". *Id.*, 23:20-22.

Aside from these relevant subjects, Ms. Newman indicated that Mr. Diaz may present evidence that \$7.2 million in water bill surcharges should be "reimbursed" to residents. Newman Dep., 52:15-56:3. This issue is briefly raised in CCAEJ's submission (see p. 7 and Ex. K). Even if this was one of the subjects relevant to these proceedings (and it is not), CCAEJ is in no position to raise this issue either. Mr. Diaz explained this is actually the County of San Bernardino's calculation, not his, and he does not know how that number was calculated. Diaz Dep., 189:16-190:20. CCAEJ also has not retained an expert in accounting or, in particular, forensic accounting, Mr. Diaz is not such an expert, and CCAEJ does not have an accountant or economist or staff. Newman Dep., 228:16-21, 239:20-23.

¹⁶³ Mr. Diaz testified that he has spoken with several lawyers about possibly serving as an unpaid, legal expert on "the California Water Code", but he has not identified any qualified and willing candidate for that role. Diaz Dep., 149:12-150:13, 158:17-161:4, 163:24-167:21.

Otherwise, Mr. Diaz's only contact with experts of any kind are an unnamed person from a company named "Simion" and Dr. Brett Stanley, a chemistry professor at California State University San Bernardino, about potential perchlorate remediation using "ion exchange systems", but neither will testify. *Id.*, 111:21-113:19, 144:15-24. Dr. Stanley also told Mr. Diaz that he accepts U.S. EPA's level of "24 parts per billion" as a cleanup standard for perchlorate, but Mr. Diaz was not interested in learning why. *Id.*, 114:17-

- Q. So I want to make sure I'm clear. CCAEJ's position today is that the level of perchlorate that should be allowed in drinking water is zero and definitely below a level that can be detected by current technology; correct?
- A. Our position is that public policy shall be set on no contaminant in the drinking water, and that's the goal, that you use the best available technology to get as far down to that as possible.
- Q. But your best available technology is any effort, no matter how much it costs; right?
- A. Correct.
- Q. So like I say, isn't it always provide water that has zero or at least nondetect of any contaminant that you're worried about?
- A. Perchlorate specifically, yes.
- Q. I mean, we went over this this morning. I don't want to plow old ground. We did it before. But the fact is, CCAEJ's position is what the polluters should be doing is giving the residents of Rialto water that has not one molecule of perchlorate in it; correct?
- A. Correct.

Id., 73:18-74:21, 84:14-85:11. Indeed, the opening paragraph of Environment California and CCAEJ's joint submission confirms that they will only present "policy arguments".

Consistent with Ms. Newman's "political" plan for these proceedings, CCAEJ has not actually investigated whether Goodrich or any other company is responsible for the perchlorate contamination, notwithstanding the public accusations it has made against Goodrich and other companies. *Id.*, 223:4-11; Diaz Dep., 249:8-250:1, 251:1-20. All that CCAEJ knows about potentially responsible parties are what is found in the "records" from the Regional Board and "the EPA order from 2003". Newman Dep., 43:23-44:5. CCAEJ's review did not include transcripts of any depositions of former Goodrich employees (*id.*, 45:20-24), records of Goodrich's (or any other company's) historic operations (*id.*, 47:3-25, 48:25-49:6), or any investigation of potential polluters beyond those identified by the Regional Board or EPA (*id.*, 50:15-51:7).

Ms. Newman readily concedes that CCAEJ has conducted no investigation into which companies and entities may be responsible for the perchlorate contamination;

1	CCAEJ simply	is unco	ncerned with that issue.
2	Q	C	ave you ever seen any information involving the State of alifornia's participation in causing any of the contamination ere?
4	A		ust in some recent briefs that were submitted.
5	Q		nd have you formed an opinion as to whether the state has
6	tar	aı	ny responsibility for Rialto's groundwater?
7	A	. N	o, I haven't.
8	Q	. Is	that something you're looking into?
9	Α	. Pr	n sure it will come out in the hearing.
10	Q	. Is	that something you're looking into?
11	Α	. N	o.
12	Q) V	/hy not?
13	Α	. · · · · · · · · · · · · · · · · · · ·	/e don't investigate polluters.
14	Q		ou have done no investigation into the polluters; is that ght?
15	A	. В	eyond public record, no.
16	Q		/hat public record is that, just what the regional board rites?
17	_		s any records we went through including the County of San
18	A		ernardino.
19	Q	. B	ut if the regional board or County of San Bernardino didn't ay someone is a polluter, CCAEJ would not investigate
20			em; correct?
21	A A	. С	orrect.
22	Q		o you're relying on whatever the regional board or the ounty tells you in terms of who the polluter is?
23			
24	A		/e're relying on public record.
25	Q		ut the public record you're relying on is whoever the county nd the regional board tells you is a polluter?
26	А		o. [¶] I think I stated earlier it's the EPA. There's quite a
27		re	cord on that.
28	p "		
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	Q.	But if EPA, the regional board, and the county do not identify an entity as a polluter, CCAEJ is not going to go do their own investigation of that entity; isn't that right?
	A.	If it is not in public record from any agency, then I'm not going to limit ourselves to those particular agencies. We do not do our own investigation.
, and a second	Q.	But when you say "if it's not in public record," what you mean is if the agency itself in some public statement hasn't
		identified someone as a polluter, CCAEJ isn't going to do an independent investigation of any other entity; right?
	Α.	As I've said previously, we are not doing our own independent investigation. We would rely on what's in public record which includes what other parties submit.
		* * *
	0	Did CCAEJ go out and look at the public records, building
	φ.	permits, air permits, water permits, for the different companies that operated on the 160-acre parcel in an effort
		to determine who all the polluters were from that parcel?
	A.	I didn't, but I can't say that one of my staff didn't.
3 1	Q.	Did anybody do it at your direction?
*	A.	No.
-	Q.	Never told anybody go do that, did you?
2	Α.	No.
	Q.	And you didn't personally do it; right?
*	Α.,	Correct.
	Q.	Did Mr. Diaz go do that?
	Α.	He might have.
	Q.	Do you know if he did?
	A.	I don't.
	Q.	Do you know if anybody at CCAEJ did that kind of investigative work to determine who the different polluters
		were on the 160-acre parcel?
1	A.	l don't.
	Q.	Let me ask you this: If you didn't do it, why not?
2		
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		A. Q. A.

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1	, /= 1, 1 8	Α.	I wouldn't do it because it's not my area of responsibility. [¶] Davin [Diaz] may have.
2		Q.	But you don't know he did?
3	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	A.	I don't know.
4	e e	Q.	Does CCAEJ view one of its responsibilities here to go dig
5	# P		through all of the public records, building permits, air permits, water permits, and make its own independent assessment of who a polluter is on the 160-acre parcel?
7	,	A.	No.
8			* * *
9		Q.	Finding the precise source of how the perchlorate got into the groundwater in Rialto is not your area of responsibility; right?
10		A.	Correct.
11		Q.	Is that anyone's area of responsibility at CCAEJ?
12		Α.	No.
13			Am I right, then, in the state board proceeding it's coming
14 15			up in about a month – CCAEJ is not planning on putting on a presentation about the evidence that identifies the specific polluters that it believes caused perchlorate contamination in
			Rialto?
16		A.	That's not the focus of our efforts.
17			* * *
18			The sentence here in the press release says, "CCAEJ will
19			now provide evidence on why the polluters should clean up the perchlorate contamination they created."
20		A.	Correct.
21		Q.	What evidence does CCAEJ intend to present on why the
22			polluters should do all those things you just said?
23			I think it goes back to the principle if the polluters created the contamination, they should be responsible for cleaning it all
24			up. It doesn't go to who. [¶] We, quite frankly, don't care
25			who the polluters are, just want to make sure the polluters bear the cost of the cleanup and not the taxpayers.
26			Thanks, I think I got it. [¶] So who the polluters are is an
27	(A)		area that at least at this point you don't intend to put on evidence as to who they are; right?
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- A. No. [¶] I mean, I don't know what evidence that's not already in the public record.
- Q. You're going to make policy arguments about why someone who's already been identified by the regional board or EPA as a polluter, why they should pay; right?
- A. Our focus is on public policy establishing basis for the polluters to pay for the cleanup of what they created.

Id., 120:6-122:7, 124:2-125:10, 126:13-25, 200:20-201:22.

Likewise, CCAEJ does not intend to present any evidence that the levels of perchlorate in Rialto or Colton have caused any adverse health effect, despite its numerous publications and quotes on the subject. Ms. Newman admits knowing no evidence of any increase in thyroid disease or any other injury caused by perchlorate in the drinking water. *Id.*, 160:12-161:9, 179:20-180:6. All Ms. Newman points to, again, is her political view of a "threat" to human health and that, on that basis alone, there should be cleanup to a "zero" level of perchlorate.

- Q. And there's never been one study done that one person even got sick in Rialto for consuming perchlorate-contaminated water; isn't that right?
- A. I think there's sufficient evidence to show that perchlorate poses a threat to public health, and as such, should be taken out of drinking water.
- Q. That basis alone, at whatever the cost, every molecule of perchlorate should be taken out of the drinking water in Rialto; right?
- A. We believe corporations don't have a right to contaminate a public common water resource, and that if you create the problem, whoever that polluter is, you need to take it out of that water.
- Q. And therefore, every molecule of perdhlorate contamination needs to be taken out of the water in the city of Rialto; right?
- A. If at all technically able to do so.
- Q. And if it's not technically able to do so, at whatever expense, water without a molecule of perchlorate in it should be provided to all residents of Colton and Rialto; isn't that right, Ms. Newman?
- A. That's right.

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C. This Testimony Demonstrates That Environment California and CCAEJ Have No Relevant Evidence To Add To These Proceedings

Despite requesting party status, this testimony reveals that Environment California and CCAEJ have no "relevant testimony and evidence" to offer on any of the four relevant subjects of these proceedings – "[1] legal responsibility for site investigation and remediation; [2] the technical evidence justifying site investigation and cleanup; [3] the feasibility and propriety of cleanup and remediation requirements; and [4] appropriate cleanup standards for protection of public health and beneficial uses of waters of the state." Second Amended Notice of Public Hearing.

Whatever other subject these "parties" intend to address will amount to nothing more than a substantial waste of time, resources, and energy of those accused of responsibility, the other proper parties in this proceeding, and the State Board.

XVIII. A REVIEW OF THE REGIONAL BOARD'S ACTIONS REVEALS STARTLING MOTIVATIONS THAT SHOULD BE ADDRESSED BY THE STATE BOARD

From the beginning of their investigation, certain staff members of the Regional Board have a clear motive: identify evidence, no matter how implausible, that supports claims against Goodrich (and a few others) and ignore facts that point to the real culprits of the perchlorate contamination in the Rialto-Colton area. When it initiates an investigation, the Regional Board must proceed cautiously, diligently, and fairly against all potential sources of the contamination. In this matter, however, these staff members have failed to follow the Regional Board's mandate. Each staff member of the Regional Board who has worked on or supervised this investigation, Gerald Thibeault, Kurt Berchtold, Robert Holub, Ann Sturdivant, and Kamron Saremi, has misrepresented the facts and ignored critical evidence. The frequency of these lapses suggests more than mere coincidence, ignorance, or harmless error but rather that these staff members of the Regional Board, from the beginning of its investigation, deliberately intended to craft a case against Goodrich (and just a few others) and to deflect inquiry into their own

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culpability. As a result of these apparent biases, the Regional Board staff who will testify in this State Board proceeding will not provide complete and accurate testimony. Their testimony, largely based on hearsay and influenced by ulterior motives, is not credible.

A. Gerald Thibeault and Kurt Berchtold

The proper mandate for the Regional Board in this administrative proceeding is not victory against Goodrich, but to establish the actual facts and reach a just resolution, even if those facts show that Goodrich is not liable for the perchlorate contamination.

Under the leadership of Gerald Thibeault and Kurt Berchtold, the Board's Executive Officer and the Assistant Executive Officer, the Regional Board staff pursued this action against Goodrich despite fact and scientific evidence that exonerates Goodrich. And the Regional Board's staff limited its investigation into one of the most significant source of perchlorate contamination in the entire Basin because Thibeault, Berchtold, Holub, and other members of the staff of the Regional Board were themselves directly responsible for regulating fireworks companies that handled and dumped perchlorate on the 160-acre site. Consequently, their efforts to deliberately overlook key evidence has undermined the credibility of the staff's investigation and tainted the Advocacy Team's ability to mete out justice in a dispassionate manner.

As a public official leading a governmental agency with significant authority, Thibeault admitted that the Regional Board's staff has a responsibility to be fair. According to Thibeault, the Regional Board's staff must be unbiased, and it must not have a stake in the outcome. Thibeault Dep., 256:16-257:13. In fact, if the Regional Board's staff learns of exculpatory evidence that helps the defendant, Thibeault believes that the staff has an obligation to disclose it. *Id.*, 258:5-259:5. Of course, Thibeault stated that he believes that when exculpatory evidence undermines a particular allegation against the defendant, the Regional Board's staff should not make that allegation. *Id.*, 490:15-491:2.

Yet, despite his rhetoric, Thibeault deliberately avoided determining whether exculpatory evidence existed against Goodrich. Thibeault never asked his staff if

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exculpatory evidence undermined the allegations contained in the CAO. Id., 491:9-12. And to the extent he relied on Kurt Berchtold to challenge the staff's investigative findings. Thibeault admitted that he never asked him whether exculpatory evidence existed, and he was not aware whether Berchtold questioned the staff about the possibility that sources other than Goodrich caused the perchlorate contamination in the Rialto-Colton basin. Id., 491:13-492:12.

Throughout this investigation, Thibeault was more concerned about his own selfinterest than the public's interest. On June 7, 2002, Thibeault and his staff met with then-State Senator Nell Soto and Barry Groveman, counsel to various water purveyors in the Inland Empire, about the Regional Board's investigation. Thibeault admitted that Senator Soto and Mr. Groveman were very aggressive at the meeting. Id., 270:21-271:5. Kamron Saremi who also attended the meeting, testified that Senator Soto threatened to have the Governor fire Thibeault because of his, and his staff's, failure to move more quickly to identify the responsible parties for perchlorate contamination. Saremi Dep. 110:25-113:9. See Ex. 20074, p. 1. Obviously affected by even the prospect of meeting with Senator Soto, Thibeault had the day before signed the Regional Board's CAO against Goodrich and Kwikset Corporation.

Even then, Thibeault had no factual basis upon which to issue the CAO against Goodrich. In an email to the Members of the Regional Board written four days after the meeting with Senator \$oto, Thibeault misrepresented critical facts. The email claimed that fireworks companies that operated on the same land that Goodrich occupied "were just fireworks assembly companies, and that no actualy [sic] manufacturing took place where perchlorate-containing liquids would be have been present." Ex. 20074, p. 2. This statement is simply false. Thibeault testified at deposition that his staff knew a month earlier about the McLaughlin Pit where fireworks companies (which had been engaged in one of the largest fireworks manufacturing empires on the West Coast for more than 20 years) dumped thousands of pounds pyrotechnic waste that had been generated from the companies' manufacturing process. Thibeault Dep., 99:6-100:21.

In addition to providing false information to state officials, Thibeault also misrepresented the Regional Board's investigation to Senator Soto. In a letter drafted on the same day as the June 7, 2002 meeting, Thibeault wrote to Senator Soto that the Regional Board was unaware that other companies handled or used perchlorate. *Id.*, 181:13-20. Given that the Regional Board staff knew from its own files that pyrotechnic manufacturing waste containing perchlorate had been dumped in the McLaughlin Pit since 1971, Thibeault's statement to Soto was at best reckless. *Id.*, 181:21-24. Thibeault included inaccurate information in the letter by claiming that pyrotechnic companies that operated on the site were not involved in the "manufacturing of fireworks, which is the type of activity that likely would have resulted in a release of perchlorate." This statement is controverted by the Regional Board's own files – files that neither Thibeault nor his staff apparently had bothered to review when the letter was written. *Id.*, 184:2-185:2.

Thibeault provided these false statements to the Regional Board Members and to an elected official out of a concern for his job. Thibeault knew from his meeting with Senator Soto that the Regional Board had to initiate a proceeding against somebody, in this case Goodrich (and a few others), right away – even if that meant ignoring the real sources of contamination – in order to spare his own career. In his email to the Regional Board Members, Thibeault stated that further investigation of the real sources would "muddy the waters and possibly give Goodrich or Kwikset a reason to delay...." Ex. 20074, p. 2. Because of Senator Soto's threats, Thibeault deliberately ignored any further investigation into the true source of perchlorate contamination in the Basin, losing another opportunity to discovery the companies responsible for the McLaughlin Pit, the only confirmed source of perchlorate at the 160-Acre Parcel.

Not only was Thibeault most interested in maintaining his job, he and his chief assistant, Kurt Berchtold, focused the Regional Board staff's investigation on Goodrich and Kwikset out of a concern that their and the staff's negligent oversight of the McLaughlin Pit would be revealed. The Regional Board staff, including Berchtold and

Thibeault, was aware that Pyrotronics dumped explosive powder that it had manufactured in a swimming pool that had a 12,000 gallon capacity. Berchtold Dep., 106:9-14. In fact, Berchtold personally witnessed fireworks companies using that pool as a disposal pit for fireworks manufacturing waste and had written an on-site inspection report about it in 1983. Id., 176:3-179:17. According to the Regional Board's own reports, Pyrotronics tried to keep the pyrotechnic waste covered with water up to one inch from the top of the pool. Id., 106:22-107:5. These types of hazardous wastes compromised the swimming pool's plastic membrane and consequently, the liquid in the pool seeped through the swimming pool's porous gunite construction and into the surrounding soil below. See English Dec., ¶ 49-53.

Pyrotronics' practice to have water so close to the top of the McLaughlin Pit caused perchlorate-contaminated water to spill over the top of the pool after any significant rainfall. Berchtold himself admitted that he personally witnessed an overflow of perchlorate-contaminated water from the McLaughlin Pit, and documented it in a Regional Board report. Berchtold Dep., 179:4-17. Despite the seriousness of this offense, the Regional Board staff did nothing about the violation. Id., 180:22-23.

Like the overflow violation that the Regional Board ignored, it also overlooked and failed to investigate other critical and harmful errors in managing the McLaughlin Pit. For instance.

- According to the December 1973 letter from the Regional Board to Pyrotronics, quarterly monitoring reports were due from Pyrotronics in 1973 but were not received. Id., 113:20-115:25. Berchtold is not aware if the Regional Board investigated whether Pyrotronics failed to submit quarterly monitoring reports between 1971 and 1987; although the Water Board's files demonstrate repeated reporting violations. Id., 116:2-9. Berchtold never investigated why the Regional Board staff refrained from citing Pyrotronics for these violations. Id., 118:23-119:3.
- The Regional Board staff knew that 3,000 gallons of industrial wastes were being discharged per day into a pool that had a capacity to only hold a total of 12,000 gallons. Id., 142:25-144:14. Berchtold offered no explanation whether he or other Regional Board staff inquired about where that excess water went. Id., 147:2-7.

Despite evidence that suggests Pyrotronics illegally dumped their hazardous waste. Berchtold does not know whether he or the Regional Board investigated whether Pyrotronics complied with its WDR, requiring that waste be hauled by a certified waste hauler. Id., 163:18-164:5.

When Pyrotronics could not dispose of the hazardous and explosive sludge that remained after the pool closed, the Regional Board staff knew that sludge remained in the pool filled with water. Id., 213:11-21. And, of course, the Regional Board staff never brought an enforcement action against Pyrotronics. *Id.*, 216:11-16; see also *Id.*, 216:25-217:13.

Berchtold and Thibeault knew, or should have known, about the significant problems with the McLaughlin Pit, because either the Regional Board's own files pointed to the McLaughlin Pit as the source of contamination in the Basin and they, Berchtold and Thibeault, along with other senior staff, were personally involved in its oversight during its 16 years of operations. For example:

- According to the December 1973 letter from John Zasadzinski to Pyrotronics, quarterly monitoring reports were due from Pyrotronics on July 1973, but were not received. Id., 113:20-115:25. This constituted a clear violation of the requirements imposed by the Regional Board in connection with Pyrotronics' waste disposal operations.
- An October 27, 1976 letter from Mr. \$ilva to Pyrotronics notes that monitoring reports were due in July and October, and a report had not been received since April 9, 1976. Id., 116:21-117:17. This constitutes another violation of the Regional Board's requirements.
- A September 13, 1978 memo from former Regional Board member, Steve Herrera, indicates that Pyrotronics is in violation of their waste discharge requirements. Id., 158:4-159:17, 160:8-11. Mr. Berchtold does not recall asking anyone to follow up on this violation. | Id., 160:15-17.
- According to a May 6, 1980 inspection report, Pyrotronics failed to submit three quarterly monitoring reports by that time. *Id.*, 164:10-165:4, 165:24-166:12. The report also notes that the freeboard of the swimming pool is 9 inches, which would have been a violation of the Waste Discharge Requirements. Id., 167:23-168: 14. Mr. Berchtold does not know of any penalty that was assessed against Pyrotronics for that violation. *Id.*, 168:15-169:1.
- A November 1981 report illustrates additional reporting violations by Pyrotronics, including a failure to submit the July

and October reports due to the Regional Board. *Id.*, 170:24-171:25.

• A report by Mr. Berchtold of a March 3, 1983 inspection of the Pyrotronics Manufacturing facility reports that the pool had no freeboard. *Id.* 176:3-177:14, 179:4-13. The report also states that rainfall had caused an overflow, which Mr. Berchtold estimated to be about 5 gallons, after three days of intense precipitation. *Id.* 179:4-17. Although this was a serious violation, Mr. Berchtold does not know what, if anything, was done by the Regional Board to remedy the violation. *Id.* 180:9-23. Mr. Berchtold's recommendation, as noted on the report, was to send a letter confirming inspection. *Id.* 181:3-180:23. And when asked at his deposition, Berchtold, did not recall why he failed to take any action stop this from occurring. *Id.* 183:4-6.

Despite the evidence pointing to the real culprits, neither Thibeault nor Berchtold ever once directed the Regional Board's investigative team to take action to stop the repeated violations of the WDRs; violations that resulted in gross contamination of the groundwater. Thibeault's and Berchtold's silence speaks volumes about their concern over the Regional Board staff's complicity in the perchlorate contamination that resulted from the McLaughlin Pit.

B. Robert Holub

The April 6, 2007 submission of the Advocacy Team identifies six topics on which Mr. Holub intends to testify:

- "Chilean nitrate does not appear to be a source of perchlorate at the 160-acre site";
- The perchlorate plume emanating from the property adjacent to the Mid-Valley Landfill is distinct from the plume emanating from the Property";
- "The general characteristics of perchlorate";
- "The Regional Board's regulatory history regarding the 'McLaughlin Pit';";
- "Data and findings from investigations of perchlorate and TCE discharges at and from the Property"; and
- "Impacts of perchlorate and TCE on the municipal water supply".

Mr. Holub is not an expert in any of these subjects. Likewise, Mr. Holub lacks

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personal knowledge of all but one of these issues. The notable exception is the history of the Regional Board's "regulation" of the McLaughlin Pit. As discussed below and elsewhere in this Brief, the Regional Board has substantially contributed to the perchlorate contamination in Rialto due to its violations of California and federal law, and general mismanagement and disregard for the McLaughlin Pit as a source of perchlorate contamination.

Each of the topics on which Mr. Holub is anticipated to testify is addressed below.

1. Chilean Nitrate as a Source of Perchlorate Contamination

Mr. Holub has no percipient knowledge of the historic use of Chilean fertilizer in Rialto. Holub Dep., 809:21-810:4. Mr. Holub is not an expert on this subject either. Without any reservation, Mr. Holub admits he is not "an expert" on "Chilean nitrate fertilizers" in general, or the issue of whether Chilean nitrate is a source of perchlorate on the 160-acre site. *Id.* 809:16-20; 816:16-20.

Mr. Holub's concession is appropriate. His deposition testimony confirms his lack of expertise.

- Mr. Holub is not an expert in agriculture. Id. 810:22-23.
- He is not an expert in the distribution of fertilizers in agriculture. *Id.*, 810:24-811:1.
- He does not know whether any citrus groves or other agriculture existed above the 160-acre parcel that used Chilean nitrate with perchlorate going back to the 1920s. *Id.*, 810:10-14.
- He has not talked with anyone who lived in Rialto going back to the 1920s to try to determine where Chilean fertilizers were used. *Id.* 811:2-6.
- He has not talked with any farmers in Rialto about whether they have any information about where Chilean fertilizers were used. *Id.* 811:7-10.
- He has not talked with any farmers in Rialto about the location of farms in the Rialto-Colton basin. *Id.* 811:11-13.
- He does not know whether Chilean fertilizer was used with any crops other than citrus in the Rial to area, and he has done no investigation of that subject. Id. 811:20-812:5.

- He cannot identify any specific report or document that identifies the concentrations of perchlorate in Chilean nitrate or that supports any conclusion on this subject. *Id.*, 812:12-813:21, 816:6-817:4.
- He does not know how much Chilean nitrate was brought into California generally, or Rialto specifically, since the 1920s. Id. 817:5-13.
- He does not know the amount of acreage in the Rialto-Colton basin over which Chilean fertilizer was used. *Id.* 822:22-823:5.
- He does not know about historic agricultural wells in Rialto, including how many there were, how they were constructed, or how they were closed, although he admits such wells can be a source of groundwater contamination. *Id.* 823:15-824:9.
- He has not researched the uses of Chilean fertilizer in agricultural areas outside of the Inland Empire, including uses that led to perchlorate contamination above a hundred parts per billion. For example, he has not reviewed studies by the Environmental Protection Agency at the Apache Powder Superfund site that found measured groundwater contamination as high as 670 parts per billion as a result of historic use of Chilean fertilizer. *Id.* 824:23-828:20.
- His knowledge of whether citrus groves existed at or hydrogeologically upgradient from the property is limited to his review of two photographs, one from 1930 and one from 1938. *Id.* 828:21-830:1, 834:10-16. And only the 1930 photograph was included in the Advocacy Team's record submission on March 27, 2007. *Id.* 830:2-12.
- He does not know when the use of Chilean fertilizer ceased in Rialto, or if is still being used as of today. *Id.* 938:23-939:4

In summary, Mr. Holub cannot address the extent to which Chilean fertilizer is a source of the perchlorate contamination in Rialto. This includes the Advocacy Team's apparent contention that this source is only responsible for only "low concentrations" of contamination. Mr. Holub lacks the expertise to support that or any other conclusion on this subject.

2. The Physical Distinction of the Perchlorate Plume Emanating from the Property Adjacent to the Mid-Valley Landfill and from the 160-acre site

This topic requires little attention. After detailed examination, Mr. Holub conceded that, contrary to the statement in the Advocacy Team's April 6th submission, he would

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chemistry or its fate and transport in any environment.

- Mr. Holub does not know how perchlorate is chemically formed. *Id.* 835:22-836:2.
- He does not know how perchlorate salts are manufactured.
 Id. 836:23-837:4.
- He does not know the solubility rate of perchlorate. *Id.* 837:6-7.
- He does not know the absorption rate of perchlorate in soil or silty materials such as the conditions found on the 160-acre parcel. *Id.* 837:8-10, 943:16-23.
- He is not "sure" that perchlorate is a negatively charged ion (it is). *Id.* 837:16-21.
- He does not know the degradation rate of perchlorate in groundwater in anaerobic or aerobic environments, or how it compares with volatile organic substances such as trichloroethylene. *Id.* 838:1-11.

Mr. Holub is simply in no position to offer expert testimony about these or any related subjects.

4. The Regional Board's Regulatory History regarding the McLaughlin Pit

In contrast to the other designated subjects, Mr. Holub knows about the so-called "regulatory history" of the McLaughlin Pit. In 1987, he was a senior engineer and the "head of groundwater investigations" at the Regional Board, and had lead responsibility for application of the "Subchapter 15" regulations at the time the Regional Board was dealing with the McLaughlin Pit. *Id.*, 1033:17-1035:25.

As of his deposition on April 9, 2007, Mr. Holub had not yet determined what information he will present on this subject (despite the fact that the Regional Board's evidentiary submission was due on March 27, almost two weeks earlier). *Id.* 838:13-839:7. Mr. Holub had not even begun putting his presentation together and did not know what will be included. *Id.* 840:7-15. For example, Mr. Holub had not yet decided whether to present evidence of the following facts:

• The waste discharge requirements for Pyrotronics were repeatedly violated. *Id.* 839:8-15.

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- Mr. Berchtold, who was at the Pyrotronics site in 1983, wrote a report noting a serious overflow violation. *Id.* 839:16-22.
- Records filed by Pyrotronics with the that it was using over 25,000 pounds of potassium perchlorate on a monthly basis. *Id.* 839:23-840:6.
- The closure of the McLaughlin Pit violated numerous Subchapter 15 regulatory requirements, without any enforcement action by the Regional Board. *Id.* 897:15-898:15.

Even so, certain conclusions are evident from his deposition testimony: (1) Mr. Holub knows that the Regional Board staff and the State of California's treatment of the McLaughlin Pit violated California and federal law; (2) he knows those actions contributed to the perchlorate contamination in Rialto; and (3) in spite of those facts, he knows there are no plans to fully investigate this contamination source or the fault of the individual members of Regional Board staff, including members of the Advocacy Team who nevertheless are serving as prosecutors in this proceeding.

Mr. Holub admits he does not know the extent to which the McLaughlin Pit and the misconduct of the Regional Board is exculpatory evidence of Goodrich and the other parties' alleged liability.

- Q. Mr. Holub, isn't it true that the regional board's failure to require compliance with the WDRs, the monitoring program under the Subchapter 15 regulations, and a proper closure is in part responsible for the leakage of material out of the McLaughlin Pit into the groundwater below?
- A. I don't know what was left in the pond when it was closed. It may be, may not be. I don't know.
- Q. So since you don't know, as you've testified just a moment ago, what the regional board's responsibility is for leakage of the McLaughlin Pit into the groundwater below -- in other words, had it enforced the regulations that were in place -- how come you're not raising that with the State Board to that's exculpatory of my client and Black & Decker?

MS. NOVAK: Same objections.

THE WITNESS: I don't know the relevance in determining whether the three parties named in the draft amended order discharged waste that impacts the state.

the Regional Board even though, again, this fell under its legal responsibility. Mr. Holub either confirmed these facts or did not know whether compliance occurred. *Id.*, 884:14-888:25, 891:5-895:5.

Since becoming aware of these violations, the Regional Board has taken no action to require the proper closure of the McLaughlin Pit, despite not knowing whether it remains a source of perchlorate contamination to the ground surface below it. Id., 895:12-897:14.

Mr. Holub's testimony and other evidence of the liability of the Regional Board, and the personal involvement of Mr. Holub and other members of the Advocacy Team, calls into significant question their motives and prosecutorial conduct in these proceedings. The integrity of these proceedings requires a full exploration of these issues, especially if Mr. Holub and the rest of the Advocacy Team elect not to discuss them voluntarily, before any conclusion can be made about Goodrich or any other party's alleged responsibility for any contamination.

5. Data and Findings regarding TCE and Perchlorate discharges at and from the Property, and Impacts of Perchlorate and TCE on the Municipal Water Supply

Mr. Holub testified that all he intends to present on these subjects are data, including principally the analytical results from soil and groundwater sampling results, but he does not intend to offer a scientific conclusion or opinion as to the sources of any of the contamination (except for the McLaughlin Pit because that is a confirmed source) or the migration of any contamination. *Id.*, 989:17-1008:23, 1009:25-1024:19. This further supports the conclusion that the available evidence does not establish that Goodrich is responsible for any of the perchlorate or TCE contamination.

Mr. Holub's testimony will not include any evidence concerning "waste discharged by Goodrich", or the other parties named in the Order. Mr. Holub is not addressing those issues, despite previous representations to the contrary. *Id.* 803:16-804:1, 804:2-17, 809:1-10. This change in course is appropriate because, in fact, Mr. Holub lacks the necessary expertise and knowledge to address these subjects.

For example, Mr. Holub lacks expertise in the fate and transport issues necessary

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to identify sources of the contamination. He is not an expert in the vadose zone or vadose zone modeling, and neither is anyone else on the Advocacy Team. Id., 939:6-22. He does not know the absorption rate of perchlorate or TCE¹⁶⁴ in the silty materials found on the 160-acre parcel. Id., 943:16-944:2. And he does not know the transmissivity rate, permeability rate, or porosity for the soils on the 160-acre parcel. Id., 944:3-11.

Mr. Holub also lacks knowledge of Goodrich's operations. 165 He does not know how much perchlorate reached the ground surface from Goodrich's operations; he cannot even provide an estimate to an order of magnitude in pounds. Id., 945:8-19. He also does not know how much waste propellant from Goddrich's operations was burned in the burn pit or how much would remain after the burn (and he knows of no evidence of any other potential source of perchlorate from Goodrich's operations). Id., 948:4-22.166 Mr. Holub concedes that such information is necessary to make any assessment of how much perchlorate came from Goodrich's operations (i.e., do determine a "source term"). yet the Regional Board has never made those calculations. Id., 949:8-950:13.

Mr. Holub's lack of knowledge also extends to other potential sources of the contamination. In addition to the failures related to the McLaughlin Pit discussed previously. Mr. Holub admits that the Regional Board has not investigated, and apparently does not plan to investigate, several other potential sources.

> Mr. Holub has not done any investigation into how much perchlorate found in the Rialto-Colton basin was formed spontaneously, despite acknowledging that this occurs. (Id., 836:11-15.)

¹⁶⁴ Mr. Holub is not an expert in TCE at all. Holub Dep., 909:23-25.

¹⁶⁵ Mr. Holub does not know about the other defendants' operations either. See, e.g., Holub Dep., 1072:13-18.

¹⁶⁶ Mr. Holub does know that the one burn pit identified at the Goodrich facility was covered with concrete and a building in 1987, which means that the amount of water percolating and potentially carrying any remnant waste into the groundwater is "basically zero" for vertical migration and the conditions are not conducive to significant horizontal migration. Holub Dep., 957:8-960:11.

• He is aware of but has not investigated the Rialto Ammunition Backup Storage Point (the "RASP") as a potential source of contamination. *Id.*, 902:14-24, 987:11-15. He knows that the RASP area covers the 160-acre parcel (and more areas). *Id.*, 911:2-7. But his limited knowledge does not include, for example, what kind of munitions were used, how much perchlorate-containing materials passed through the RASP area, the operation of a sludge pond at the facility, what was done with munitions damaged on route to the RASP (including how much was burned throughout the RASP area, deposited in the sludge bed, or discharged to the ground surface in ditches), or how much TCE was brought to the RASP area (e.g., from nearby Camp Anza) for various uses including repairs and degreasing. *Id.*, 903:5-909:10, 911:9-914:14.

He is aware of government facilities that have discharged TCE and contaminated groundwater (e.g., Norton Air Force base), but has not fully investigated such potential sources in Rialto. *Id.*, 914:15-917:16. Mr. Holub conceded, "[w]e have not undertaken any additional investigation other than this pending inadequate response [from the Department of Defense] that we're trying to get more information on." *Id.*, 917:23-918:4. In fact, no action has been taken since the Regional Board received the "inadequate response" at least "a couple of years" ago. *Id.*, 917:6-16. As a result, he cannot determine whether any positive sample for TCE at the 160-acre parcel, either in soil or water, was the result of the United States government's activities at the RASP. *Id.*, 920:14-921:5.

He knows of many other companies that operated in the area of the 160-acre parcel that used unidentified hazardous materials, but have not been fully investigated for their potential use or disposal of TCE or perchlorate, or their potential contribution to the groundwater contamination. *Id.*, 922:2-930:24. For example, there has been no investigation into Pyrotronics' use and disposal of TCE or perchlorate, or how those activities contributed to the contamination. *Id.*, 963:3-968:1, 971:11-983:3, 985:7-986:12, 987:17-20.

For all of these reasons, Mr. Holub admits having no basis to conclude that Goodrich, the Emhart Entities, or Pyro Spectaculars is a source of <u>any</u> of the perchlorate or TCE contamination:

Q. With respect to all of these wells that have shown at any time concentrations of trichloroethylene, you cannot tell me on any particular sample that's been taken what the source is of that trichloroethylene from the various operations over time that we've talked about that overlay the basin; is that correct?

A. Correct.

	1		Q.	And the same thing would be true with respect to perchlorate; isn't that right, sir?
	2		Α.	There's no direct evidence, yes, I'm sorry.
	3			* * *
	4 5		Q.	You can't tell me with respect to any well that's located in the Rialto-Colton basin anywhere on this map that has shown
	6			concentrations of perchlorate, positive concentrations, whether that perchlorate comes from any particular operation; is that correct?
	7	e a - j, e	Α.	Yes.
	8	9 9 9 9 9		* * *
	9		0	With respect to DW 5, along the well right in the middle of the
	10	133.5	Q.	With respect to PW-5, okay, the well right in the middle of the basin; right?
	11		A.	Yes.
	12		Q.	You can't tell me whether PW-5, if it has perchlorate in it at
	13	9,		any particular time, whether that perchlorate came from Goodrich or some other operation; correct?
	14		A.	Correct.
	15		Q.	And the same thing is true with respect to Black and Decker
	16	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		or its alleged predecessor West Coast Loading, you can't tell me whether or not perchlorate that's in PW-5 came from that operation; isn't that right?
	17		Α.	Correct.
	18		Q.	And the same true is Pyro Spectaculars, you cannot tell me
	19 20		eatha_	whether or not perchlorate that's found in PW-5 at any time was as a result of Pyro Spectaculars' operations; is that right?
	21		Α.	Correct.
		RA Frank		
	22		Q.	And if I was to ask you that question with respect to each of those operations for each of the wells located on this Exhibit
	23	y ₆ ∃ , F =		4256, you would agree you cannot tell me, could you?
	24		Α.	I could not link the perchlorate in PW-5 to any specific operations.
	25		Q.	No. [¶] I'm saying with respect to any of the wells on this
	26			map, you can't link it to any particular operation, can you, sir?
	27		A.	Not conclusively.
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	1	Q.	I mean, you can't tell me whether or not soil samples taken from the 160-acre parcel come from the McLaughlin burn, can you?
	3	Α.	No.
	4	Q.	No. [¶] And from Pyrotronics' washouts, you can't tell me that either, can you?
	5	A.	No.
	6	9 1	* * *
	7	Q.	With respect to trichloroethylene or perchlorate in soil or
	8		groundwater anywhere in this basin, you cannot tell me what the source of either of those constituents is in soil or
	9		groundwater anywhere in this basin, can you?
	10	Α.	No.
	11		* * *
	12	Q.	You can't testify, can you, sir, that Goodrich's perchlorate discharge at the site as you allege in your CAO, draft CAO,
	13		ever made it to groundwater, can you?
	14	Α.	I don't have evidence that shows that.
	15	Q.	Well, that's what we're here about. We're here about the
	16	· (a)	evidence. [¶] And the same thing would be true West Coast Loading, you don't have any evidence that anything they
	17	a	discharged onto the ground vis a vis perchlorate got into the groundwater, do you?
	18	A.	No.
	19	Q. 1	And you don't have any evidence that anything that Pyro
9	20	- 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1	Spectaculars handled vis a vis perchlorate ever got into the groundwater either, do you?
	21	Α.	No.
	22	Q.	In fact, with respect to all three of alleged dischargers, you
	23	P	don't even know as you sit here whether or not perchlorate from any of their operations is within a hundred feet of groundwater, do you?
	24	Δ.	
	25	Α.	I don't know.
	26	Q.	There's no evidence that Goodrich's discharge at that site is anywhere within a hundred feet of the groundwater; right?
	27	Α.	Correct.
	28	Q.	And the same thing is true of West Coast Loading?
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A. Correct.

Q. And the same thing is true of Pyro Spectaculars?

A. Correct.

Id., 932:20-937:13, 955:8-956:16 *also id.*, 951:13-955:7, 983:5-985:2, 988:20-989:2.

Moreover, Mr. Holub does not point to any additional investigation that is necessary for Goodrich to establish that any remaining waste perchlorate (i.e., any perchlorate ash from the burning of the propellant) or TCE is not in the groundwater or even within a hundred feet of groundwater. *Id.*, 960:14-21, 961:24-962:10. 167

In summary, whatever "data and findings" related to perchlorate and TCE Mr. Holub intends to discuss at the hearing does not provide a basis for assigning any liability to Goodrich or the other accused parties.

C. Ann Sturdivant

Showing her obvious biases against Goodrich, Sturdivant selected testimony from a single former Goodrich employee while ignoring contradictory testimony provided by this same witness. In drafting the section on Goodrich in the Memorandum of Points and Authorities, Sturdivant relied "upon Mr. Ronald Polzien's deposition testimony [more] than any other witness that you have presented with respect to Goodrich" *Id.*, 289:22-290:1. In general, citing to a particular witness numerous times is not problematic so long as the witness provides consistent testimony and testifies on issues on which he has personal knowledge. But this was not true with respect to Mr. Polzien. Sturdivant liberally cited to Mr. Polzien despite the internal inconsistencies in Mr. Polzien's testimony, the lack of Mr. Polzien's personal knowledge on the subjects to which he was testifying, and the numerous other witnesses who contradict Mr. Polzien's testimony.

Although Polzien directly contradicted himself on numerous occasions, Sturdivant relied on the contradicted testimony that supported the Regional Board staff's case against Goodrich. For instance, Mr. Polzien signed a declaration and provided

The same is true with regard to the Emhart Entities' use and disposal of perchlorate and TCE, and Pyro Spectaculars' use and disposal of perchlorate. *Id.*, 960:23-962:10.

Q. All right. Now let's look at what happened in crossexamination a little bit later on after we had a little discussion about the chemical trichloroethane. Turn the page to page 619, line 13. "Question: Do you know whether or not the cleaning solvent that they used in the mixers and the other places where they had this solvent was trichloroethane or trichloroethylene? "I don't." Continuing on line 1, page 620, "Do you know whether the solvent that made part of the slurry was trichloroethylene or trichloroethane? "Answer: In light of what you just told me and my ignorance between the two, I don't know." Now, you see, Ms. Sturdivant, Mr. Polzien has just admitted in his deposition that he gave false testimony previously concerning whether or not trichloroethylene was used at the facility because he doesn't know whether it was trichloroethylene or it was another chemical called trichloroethane. You see that?

THE WITNESS: I see the text of the deposition, yes.

MR. DINTZER:

Q. You see what I just said is true; right?

MS. NOVAK: Objection -- Same objections.

THE WITNESS: I read the same text that you do.

MR. DINTZER:

- Q. Now, you think that it's responsible, Ms. Sturdivant, to be relying upon the deposition of a person who over and over and over again testifies to one thing and then says something different? Do you think that that's responsible?
- A. I think it's responsible to take the testimony that the man gave under oath.
- Q. Well, he says under oath here at the end of his deposition, when he's under cross-examination, that he doesn't know which chemical it was. That's what he says. But yet he testified over and over again in his depositions and in his declaration that trichloroethylene was utilized. But when it came to cross-examination, it was a different matter altogether. And my question to you is, you've seen contradictions in this man's testimony. Do you think it was responsible for you to rely so heavily upon the deposition testimony of an individual who can't keep his story straight?

MS. NOVAK: Objection. Argumentative. You may answer.

THE WITNESS: I think it's responsible to review these and do the best we can to summarize what's here.

MAN..., PHELPS & PHILLIPS, LLP ATTORNEYS AT LAW LOS ANGELES Ms. Sturdivant is wrong – a responsible prosecutor does not pick and choose evidence that supports a prosecutive theory while ignoring other testimony that undermines that same theory.

Sturdivant disregards the testimony of all former Goodrich employees, even that of Mr. Polzien, when it undermined a particular contention against Goodrich. For example,

- Sturdivant admitted that every single former Goodrich employee, including Mr. Polzien, testified that Goodrich operated a single burn pit. *Id.* 333:7-22, 692:24-693:25. Yet, the Regional Board alleges that there were two burn pits.
- Sturdivant did not recall a single witness that testified that water was routed to the burn pit. *Id.* 739:11-740:25. Yet, the Regional Board alleges that there was water routed to the burn pit.

In addition to misrepresenting the facts in this State Board proceeding, Sturdivant misrepresented the facts and misled Senator Soto about the status of the staff's investigation. Beginning in April 2002, the Regional Board staff members who were investigating the source of the perchlorate contamination in the Basin knew the exact location of a waste pit where certain fireworks manufacturers dumped their perchlorate-contaminated pyrotechnic waste and where a large burn had occurred. *Id.*, 533:10-534:4. Notwithstanding this evidence, Sturdivant drafted a letter in June 2002 to Senator Soto that stated that the staff is "not aware of any other facilities in the vicinity of the site that have been identified as having used perchlorate." Ex. 3944. Sturdivant testified that she did not remember reviewing this critical evidence before the letter was mailed. *Id.*, 536:22-537:6. And even now, Sturdivant is not troubled that the letter contained material misrepresentations:

Q. Do you think it's troubling that the regional board staff issues an order to Kwikset and Goodrich Corporation based upon a one-and-a-half-page document that you can't even verify the source of from the Rialto Historical Society -- this is a Cleanup and Abatement Order -- and at the same time the executive officer, same person who signs that order, is telling a senator, who's making inquiry about other potential

sources, that he's not aware of any other information when he's got in his staff's files a report that shows that for years and years and years there was fireworks manufacturing going on and that they burned the waste up there?

The June 2002 letter, initially drafted by Sturdivant, contained other material

- In response to question number 6, the Regional Board staff's letter states, "This is because the preliminary information we have indicates that these facilities may not likely be sources." Ex. 20058. But this statement is categorically false and contradicted by material in the Regional Board's own files.
- In response to guestion number 6, the Regional Board staff's letter states that "pyrotechnic tenants that operated It appears that the pyrotechnic tenants that operated at the site were involved primarily with the import, assembly, storage and shipping of fireworks, and not necessarily the manufacture of fireworks, which is the type of activity that likely would have resulted in a release of perchlorate." Ex. 20058. But this statement is categorically false and contradicted by material in the Regional Board's own files. Id. 539:13-540:21.

When confronted with these obvious inconsistencies, Sturdivant defended the letter by claiming, "I don't think that the executive officer provided false information intentionally." Even if the Regional Board staff investigating the perchlorate contamination did not deliberately misrepresent the evidence in its possession - and the amount and frequency of the misrepresentations suggest more than mere coincidence or harmless error – the volume of "false information" provided by the Regional Board staff, and Ms. Sturdivant particularly, tarnishes its reputation and undermines the credibility of the Advocacy's Team's witnesses, including Ms. Sturdivant.

Ms. Sturdivant's deposition testimony reveals that she has no expert knowledge on all of the technical issues, including perchlorate and its fate and transport, about which she is scheduled to testify. The April 6, 2007 Advocacy Team's submission states

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that Ms. Sturdivant plans to testify on the (1) solubility and mobility of potassium perchlorate and (2) infiltration of contaminants, including perchlorate salts, into the soil and groundwater. At deposition, Sturdivant testified that she lacks expertise in perchlorate, fate and transport of contamination in groundwater, groundwater modeling, and vadose zone modeling. *Id.*, 261:8-262:3, 271:14-272:3. Sturdivant has never testified before as an expert in hydrogeology in a judicial proceeding, as she has no peer-reviewed publications related to hydrogeology, has never presented on the subject of hydrogeology in a conference amongst experts, and has never qualified as an associate professor or professor at a university, college, or junior college. *Id.* 274:3-276:1. Without the technical expertise on issues, such as perchlorate and fate and transport, Sturdivant lacks the requisite expertise to provide testimony to the State Board on these same issues.

In addition to not being an expert witness, Sturdivant lacks any personal knowledge to testify about the mobility of perchlorate.

- Q. Would you need to know the sorption rate of perchlorate in silty material in order to understand how quickly the material would move from the surface to the groundwater at the 160-acre parcel?
- A. The sorption rate --
- Q. Yes.
- A. -- or solubility?
- Q. Sorption rate of perchlorate to soil.
- A. I don't know.
- Q. You don't know one way or another?
- A. Right.

Id., 627:1-11.

Q. You've made no calculations whatsoever with respect to the transport rate of perchlorate from the surface down to the

1	groundwater at the 160-acre parcel as a result of natural recharge, rain; right?	
2	A. Correct.	
3	Q. How long does it take for perchlorate to move through the unsaturated zone at the 160-acre parcel as a result of rainfall?	
5	MS. NOVAK: Calls for speculation, may call for expert	
6	opinion. You may answer.	
7	THE WITNESS: I don't know specifically.	
8	MR. DINTZER:	
9	Q. So you don't know the rate by which perchlorate would move through the unsaturated zone at the 160-acre parcel as a	
10	result of rainfall solely; is that correct?	
11	A. As a result of what?	
12	Q. Rainfall solely.	
13	A. Right.	
14	<i>Id.</i> , 629:23-630:18	
15	Sturdivant lacks the personal knowledge to testify on the solubility of	
16	contaminants, such as ammonium perchlorate. Without the personal knowledge or	the
17	technical expertise, Sturdivant's testimony, is purely hearsay and is not credible.	
18	Consistent with her lack of knowledge and expertise, Ms. Sturdivant concede	S
19	she cannot establish that <u>any</u> groundwater contamination originated from Goodrich.	
20	Q. So on any given day, at any sample that's taken from this	
21	basin, when you actually take the sample and you look at the data, and if you see perchlorate or you see trichloroethylene,	
22	you can't say under oath that that TCE or perchlorate came from any particular operation versus another one, can you?	
23	A. In the water?	
24	Q. Yes.	
25	A. Probably not.	
26	<i>Id.</i> , 627:1-11.	
27	Likewise, Ms. Sturdivant concedes she cannot connect any measurement of	
28	perchlorate or TCE in soil to any particular operation.	
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Id., 646:20-647:4, 649:2-22, 651:17-652:9

A. Yes.

Ms. Sturdivant's failure to voluntarily bring this exonerating information to the State Board's attention demonstrates that she has failed to serve as a responsible and objective prosecutor in these proceedings.

Kamron Saremi D.

Kamron Saremi is not an expert in any sense of the word. As a Water Resources Control Engineer, Saremi admits that he could not qualify to testify as an expert witness about perchlorate infiltration or plume boundaries, but he intends to testify in this administrative proceeding on both of these subjects anyway. Based on the paucity of evidence that he discovered from 1997 to 2002, Saremi lacks any expertise in conducting investigations. Although Saremi was tasked by the Regional Board to investigate the causes of perchlorate contamination in the Rialto-Colton basin, Saremi failed to uncover meaningful evidence about the historical use of the 160-acre site, and he misrepresented a critical 2002 audit report that identified the companies responsible for the only confirmed source of perchlorate contamination in North Rialto. Adding insult to injury, Saremi plans to testify in this proceeding about an investigation tarnished by his faulty assumptions and critical errors in judgment. Sarem is not a credible witness, and his conclusory judgments about Goodrich and the companies that are truly responsible for the perchlorate contamination raise doubts about whether his testimony is motivated more by a company's ability to pay, rather than the truth about who actually caused the perchlorate contamination in the Basin.

At the outset of his investigation, Kamron Saremi identified Goodrich as a potential source of perchlorate and ignored all others. In 1997, Regional Board tasked Saremi to initiate an investigation concerning perchlorate contamination in the groundwater in the Rialto-Colton area. Saremi Dep., 72:6-20. For the first five years,

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Saremi did not obtain a single document from the Regional Board's files, and he never once drove to the 160-acre site. *Id.*, 85:8-87:5, 101:9-14. Until 2002, the fruits of Saremi's investigation consisted of a single document from the Rialto Historical Society, only a page and a half of which identified Goodrich as operating a rocket manufacturing facility in North Rialto. Id., 475:9-21. Nevertheless, this document, the contents of which were never verified, became the basis for the Regional Board naming Goodrich in its CAO in 2002.

Based on the document from the Rialto Historical Society, Saremi incorrectly assumed that Goodrich contaminated the groundwater just as other rocket manufactures in southern California were accused of doing. Saremi knew that Lockheed Martin, which operated a rocket manufacturing facility in Mentone, California, was cited for causing perchlorate contamination in the groundwater in and around Redlands. Because both facilities manufactured rockets, Saremi believed that Goodrich's facility was the likely cause for perchlorate contamination in the Rialto-Colton basin. But Saremi lacked a basic understanding of either the Lockheed Martin facility in Redlands or the Goodrich facility in Rialto in order to draw a comparison. In his deposition, Saremi testified that he did not know:

- the amount of rockets manufactured at the Lockheed Martin facility. Id., 235:2-6.
- the volume of perchlorate handled at the Lockheed Martin facility. *Id.*, 235:7-9.
- the percentage of rockets manufactured at the Lockheed Martin facility with ammonium perchlorate. Id., 237:11-238:1
- whether Lockheed Martin and Goodrich had a similar protocol related to the grinding, blending, and drying of oxidizers. *Id.*, 236:10-21.
- whether Lockheed Martin and Goodrich handled the movement of soft propellant throughout the facility. *Id.*, 247:22-248:4
- whether Lockheed Martin and Goodrich utilized similar methods and tools to clean mixers. *Id.*, 248:7-249:4.

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In response to a guestion about whether he knew in June 2002 anything about the similarities and dissimilarities between the two facilities, Saremi answered, "I didn't. Not to the detail that you're thinking." Id., 249:14-17. Without that level of detail, Saremi cannot credibly draw any comparisons between the two different rocket manufacturing facilities.

With the misguided belief that Goodrich caused the perchlorate contamination in the Rialto-Colton basin, Saremi ignored evidence that exquerated Goodrich and that pointed to other companies as the source of the problem. In April 2002 the West San Bernardino County Waster District produced an environmental audit that documented all of the various operators that handled perchlorate in the North Rialto area. The audit reported that numerous fireworks companies, while operating on the same land that Goodrich occupied years earlier, handled perchlorate, had explosions, and responded to emergencies and fatal accidents, that obviously involved the mismanagement of oxidizers, such as perchlorate, and the release and discharge of those compounds into the groundwater. The audit also identified a waste pit where certain fireworks manufacturers dumped their pyrotechnic waste and recommended further investigation of the potential source. Saremi testified that he read the audit, and he spoke with Ann Sturdivant and Gerald Thibeault about its contents. Id., 102:20-103:12, 106:14-107:6. Based on his conversations with Saremi, Gerald Thibeault drafted an email to the Regional Board Members on June 11 which stated that "Kamron believed that the information in the audit added very little to what he already knew." Ex. 20074, p. 2. Thibeault's email continues: "information to date indicates that these were just fireworks assembly companies, and that no actualy [sic] manufacturing took place where perchlorate-containing liquids would have been present." | Id. Both sentences in Thibeault's email to the Regional Board are false – as the Regional Board's own files clearly demonstrate. Upon questioning, Saremi testified that at the time Thibeault wrote the email, Saremi knew that information in the audit contradicted Thibeault's summary to the Board Members. Id., 117:12-123:12. If Saremi's deposition testimony is to be

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believed, Saremi misrepresented critical evidence that exonerates Goodrich and supports the company's claims that it was not the cause of perchlorate contamination in the Basin. Saremi's testimony implies that the Regional Board's staff steered the Regional Board away from evidence in their own files that pointed directly at the McLaughlin Pit as the key source of the contamination and the staff's embarrassing role in mismanaging the source over two decades.

Although the West San Bernardino County Water District's environmental audit report provided Saremi with a crucial lead in his investigation into the source of perchlorate contamination, Saremi failed to conduct any follow-up. The audit report identified that Pyrotronics, a fireworks manufacturer, operated a Class I hazardous waste surface impoundment on the 160-acre site. Despite this critical evidence, Saremi testified that he never even went to the Regional Board's catalogue to see if the Board issued Pyrotronics a Waste Discharge Requirement ("WDR"). Id., 268:21-269:7. Because he failed to look for the WDR, Saremi did not recognize that it allowed Pyrotronics to dump up to 3,000 gallons of water a day into a pool that could not possibly hold that much waste. Id., 310:1-312:12. Saremi never sought out other records from the San Bernardino Valley Municipal Water District, as Goodrich has done, that documented that Pyrotronics used over 10,000 gallons of water a day, an amount, after excluding the water used for manufacturing and sanitation, that was far in excess of what the pit could hold. Id. 316:12-318:1. Saremi does not know how often, if at all, Pyrotronics violated the reporting requirements as mandated by the WDR. Id., 382:17-383:6. And to this day, Saremi does not know whether the closure of the McLaughlin Pit complied with the law. *Id.*, 389:1-390:6.

In addition to knowing none of the relevant facts because of his ineffectual investigation, Saremi is also not a technical expert on a subject matter about which he plans to provide testimony. Saremi is not an expert in: (1) geology; (2) hydrogeology; (3) chemistry; (4) groundwater modeling; (5) industrial practices of flare or munitions loading facilities; (6) industrial practices of solid rocket manufacturing facilities; (7)

industrial practices of firework manufacturing operations; (8) industrial practices of firework operations; (9) toxicology; (10) epidemiology; (11) medical sciences; (12) the effect that perchlorate or trichloroethylene on the human function; (13) vadose zone transport; and (14) fate and transport of contaminants in the subsurface. *Id.*, 48:14-49:21, 51:17-24. Without the technical expertise on issues, such as plume boundaries, perchlorate infiltration, and rocket manufacturing, Saremi lacks any credibility to provide testimony to the State Board on these same issues.

These facts establish that Mr. Saremi decided Goodrich's fault without objectively reviewing all of the relevant evidence. Likewise, he and the rest of the Advocacy Team have overzealously prosecuted Goodrich, with full knowledge that the evidence does not prove that Goodrich is responsible for <u>any</u> contamination found in <u>any</u> groundwater well. As shown below, Mr. Saremi concedes this critical truth only after detailed crossexamination. His unwillingness to freely offer this admission is further evidence of his bias.

- Q. These wells that are down here that I've mentioned, PW-9, PW-7, PW-6, PW-5, PW-8, these wells that are in this basin, you don't know where the perchlorate that's being seen in those wells originated from, do you, sir?
- A. I'll make a correction. We do know it's from the 160-acre site.
- Q. You don't know what industrial operation is responsible for the contamination in those wells; is that true, sir?
- A. Not specifically.
- Q. I mean, in other words, you can't tell me whether or not the perchlorate in PW-5 belongs to West Coast Loading or Pyro Spectaculars or Goodrich or Pyrotronics, can you?
- A. With respect to perchlorate, no.
- Q. No. [¶] Trichloroethylene either?
- A. Well, that -- that -- I have a different take on that.
- Q. Okay. Well, let me ask you something: Here you see all of these users of the properties in the area in this basin?
- A. Yes.

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rest of the "Advocacy Team", plainly has a different and improper agenda.

XIX. ADDITIONAL SUBMISSIONS OF EVIDENCE IN REBUTTAL WILL BE NECESSARY

The Second Revised Notice of Public Hearing allows for a rebuttal submission, but the Hearing Officer has placed certain restrictions on any rebuttal, such as:

> Rebuttal submissions must be limited to forty pages, single sided, double spaced, in Arial 12-point font. Rebuttal submissions must be received by Tuesday, May, 1, 2007 at 5:00 p.m. If any additional documents are submitted as part of the rebuttal, they must accompanied by an explanation as to why their need could not have been foreseen; that explanation shall be part of the forty-page argument, although the document(s) will not be considered part of the forty-page limit.

The ability to submit this limited rebuttal does not cure the injustice created by (1) the Hearing Officer's sua sponte Orders granting the Advocady Team additional time to submit its evidence, without any corresponding extension of time for the alleged dischargers, (2) the Advocacy Team's continued failure to comply with the Hearing Officer's Orders, and (3) and the City of Rialto's submission of 25 boxes and a 135 page brief just two business days before Goodrich must submit lits case. 168

It is simply impossible for Goodrich to respond to the sheer volume of information produced by the City of Rialto just two business days before its submittal is due, let alone within the 19 days before Goodrich must submit its rebuttal. Due process and fairness dictates that after Goodrich has had an opportunity to review and respond to the

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As the Hearing Officer is aware, Goodrich and the other alleged dischargers have filed several objections to both the Advocacy Team and the City of Rialto's submissions. These objections provide further details regarding the extent of the Advocacy Team's past and current violations and the City of Rialto's submission of 25 boxes and 135 page brief on April 12, 2007 (just two business days before Goodrich's submission was due). See March 29, 2007 Objection to Advocacy Team Submission submitted by of Goodrich Corporation, the Emhart Entities, and Pyro Spectaculars, Inc. ("Objecting Parties"); April 2, 2007 Objections to Advocacy Team submission submitted by Objecting Parties; April 3, 2007 Objections submitted by Objecting Parties; April 4, 2007 Objections submitted by the Objecting Parties; April 5, 2007 Objections submitted by the Objecting Parties; April 10, 2007 Objections submitted by Pyro Spectaculars and joined by Goodrich; April 10, 2007 Objections submitted by Goodrich; April 11, 2007 Objection submitted on behalf of the Objecting Parties; April 13, 2007 Objection to City of Rialto submissions submitted on behalf of Objecting Parties. Goodrich hereby incorporates by reference these prior objections.

additional evidence responding to this evidence. *See Mathews v. Eldridge*, 424 U.S. 319, 333 (1976) ("The fundamental requirement of [administrative] due process is the opportunity to be heard at a meaningful time and in a meaningful manner.") (emphasis added); Memphis Light, Gas & Water Div. v. Craft, 436 U.S. 1, 14 (1978) (The notice in an administrative adjudicatory hearing must "apprise the affected individual of, and permit adequate preparation for, an impending 'hearing.'") (emphasis added); *Nightlife Partners, Ltd. v. City of Beverly Hills*, 108 Cal. App. 4th 81, 90 (2003) (Due process "always requires . . . [the] 'constitutional floor' of a 'fair trial in a fair tribunal,' in other words, a fair hearing before a neutral or unbiased decision-maker"), quoting *Bracy v. Gramley*, 520 U.S. 899, 904-905 (1997), and *Withrow v. Larkin* 421 U.S. 35, 43 (1975). Because Goodrich has no time to review this evidence before its submission is due on April 17, 2007, this evidence necessarily must be submitted in its rebuttal. Goodrich cannot and should not be expected to "guess" what information the City of Rialto submitted in order to submit this purely "rebuttal" evidence in its initial submission.

sheer volume of this information presented against it, Goodrich be permitted to submit

Moreover, Goodrich cannot be expected to respond to evidence relied upon by the Advocacy Team, but never produced to Goodrich in compliance with the Notice of Public Hearing. Goodrich cannot be expected to be clairvoyant and respond to evidence the Advocacy Team is relying upon, but never produced to Goodrich.

In light of this, Goodrich's rebuttal submission will necessarily include additional evidence (both documentary and testimonial) addressing those allegations raised by the City of Rialto and the Advocacy Team.

XX. CONCLUSION

As demonstrated in the preceding brief, the Advocacy Team has not only failed to carry its burden to prove by the weight of the evidence that Goodrich had a discharge to the waters of the state, but the factual and technical evidence overwhelmingly demonstrates that Goodrich has not caused the perchlorate or TCE contamination in the Rialto-Colton Basin. Likewise, there is no legal authority under the Porter-Cologne Act

for the State Board to issue Goodrich any order, to say the least given its years of operation predating the statute and work done at the direction of the U.S. government. Rather, the facts which have unfolded through discovery in these proceedings disturbingly reveal that the Advocacy Team and the City of Rialto not only played integral roles in the events leading to contamination from the only proven sources, but did everything in their power to skirt responsibility and take unfair advantage of Goodrich's five years of good faith cooperation. The Draft CAO must be dismissed. Dated: April 16, 2007 Respectfully sulpmitted MANATT PHELPS PHILLIPS, LLP GIBSON, DUNN & CRUTCHER, LLP By: Peter R. Duchesneau Attorneys for Designated Party, GOODRICH CORPORATION

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