

ERRATA SHEET

TENTATIVE ORDER NO R9-2008-0082 NPDES NO. CA0109193

WASTE DISCHARGE REQUIREMENTS FOR GENENTECH, INC.

The following changes have been made to tentative Order No. R9-2008-0082. Some changes/corrections below are shown in **bold and underline**/~~strikeout~~ format to indicate added and removed language, respectively.

Errata #	SECTION	REVISION
1.	Section II.B of tentative Order	The following text will be revised as follows: The Facility discharges up to 0.155 million gallons per day (MGD) of combined discharges from water softening and purification processes and other non-biologics maintenance activities (including cooling tower, boiler, and vapor compression stills blowdowns) at the Facility.
2.	Section II.K of tentative Order	The following text will be revised as follows: This Order contains both technology-based effluent limitations and WQBELs for individual pollutants. The technology-based effluent limitations applied in the Order consist of restrictions on oil and grease, settleable solids, turbidity, and pH as specified in Table A of the Ocean Plan; total suspended solids based on BPJ; and a restriction on flow. These restrictions and requirements are discussed in section IV.A.2 <u>IV.B.2</u> of the Fact Sheet.
3.	Section II.S of tentative Order	The following text will be revised as follows: The provisions/requirements in section VI.A.2.† of this Order are included to implement State law only.
4.	Section IV.A.1.b of tentative Order	Table 8 will be revised as follows: Table 8. Effluent Limitations Based on the Ocean Plan

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		Parameter	Unit	6-Month Median	Maximum Daily	Instantaneous Maximum	30-Day Average
		Water Quality-Based Effluent Limitations					
		BASED ON OBJECTIVES FOR PROTECTION OF MARINE AQUATIC LIFE					
		Chronic Toxicity ¹	TUc	--	81 88	--	--
		¹ Chronic toxicity expressed as Chronic Toxicity Units (TUc) = 100/NOEL, where NOEL (No Observed Effect Level) is expressed as the maximum percent effluent or receiving water that causes no observable effect on a test organism.					
5.	Section VI.A.2.c of tentative Order	The following text will be deleted: c. The Discharger shall comply with all requirements and conditions of this Order. Any permit noncompliance constitutes a violation of the CWA and/or the CWC and is grounds for enforcement action, permit termination, revocation and reissuance, or modification, or for denial of an application for permit renewal, modification, or reissuance.					
6.	Section VI.A.2.c of tentative Order	The following text will be deleted: d. The Discharger shall comply with all applicable federal, State, and local laws and regulations that pertain to sewage sludge handling, treatment, use and disposal, including CWA Section 405 and USEPA regulations at 40 CFR Part 257.					
7.	Section VI.A.2.e of tentative Order	The following text will be deleted: e. The Discharger's wastewater treatment facilities shall be supervised and operated by persons possessing certificates of appropriate grade pursuant to Title 23, Division 3, Chapter 26 of the California Code of Regulations (CCRs).					
8.	Section VI.A.2.l of tentative Order	The following text will be deleted: l. The Discharger shall comply with effluent standards and prohibitions for toxic pollutants established pursuant to section 307(a) of the CWA within the time frame set forth by the regulations that establish those standards and prohibitions, even if this Order has not been modified to incorporate the requirements. If an applicable effluent standard or prohibition, including any schedule of compliance, is promulgated pursuant to section 307 (d) of the CWA for a toxic pollutant, and that standard or prohibition is more stringent than a limitation contained in this Order, the Executive Officer may institute proceedings to modify or revoke and reissue the Order to conform to the effluent standard or prohibition.					
9.	Section VI.C.1.c of	The following text will be deleted: c.If any applicable toxic effluent standard or prohibition (including any schedule of compliance specified in such					

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	tentative Order	effluent standard or prohibition) is promulgated under section 307(a) of the CWA for a toxic pollutant and that standard or prohibition is more stringent than any limitation on the pollutant in this Order, the Regional Water Board may institute proceedings under these regulations to modify or revoke and reissue the Order to conform to the toxic effluent standard or prohibition.						
10.	Section VI.C.1.e of tentative Order	The following text will be modified as follows: e.This Order may be reopened and modified, in accordance with the provisions set forth in 40 CFR Parts 122 and 124, to include new Minimum Levels (MLs) which are established in the Ocean Plan.						
11.	Section VI.C.1.i of tentative Order	The following text will be modified as follows: i.This Order may also be re-opened and modified, revoked and, reissued or terminated in accordance with the provisions of 40 CFR sections 122.44, 122.62 to 122.64, and 125.62, and 125.62.						
12.	Attachment A-6	The following text will be modified as follows: Shellfish Organisms identified by the California Department of Health Services State of California Department of Public Health as shellfish for public health purposes (i.e., mussels, clams and oysters).						
13.	Monitoring and Reporting Program Section IX.A	The following text will be revised as follows: The intensive monitoring specified below is required during the 12-month period beginning July 1, 2008 through June 30, 2009, and must be submitted by August 31, 2009.						
14.	Monitoring and Reporting Program Section IX.B	Table E-11 will be modified as follows: Table E-11. Demersal Fish and Macroinvertebrates Monitoring Requirements <table border="1" data-bbox="541 1117 1503 1214"> <thead> <tr> <th data-bbox="541 1117 831 1149">Determination</th> <th data-bbox="831 1117 1163 1149">Units</th> <th data-bbox="1163 1117 1503 1149">Minimum Frequency</th> </tr> </thead> <tbody> <tr> <td data-bbox="541 1149 831 1214">Biological Transects</td> <td data-bbox="831 1149 1163 1214">Identification and enumeration</td> <td data-bbox="1163 1149 1503 1214">Year 4 Annual</td> </tr> </tbody> </table>	Determination	Units	Minimum Frequency	Biological Transects	Identification and enumeration	Year 4 Annual
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15.	Monitoring and Reporting Program	The following text will be revised as follows: f. Annual reports will be due July 1st and will include a Detailed statistical analyses of all data.						

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	Section X.A.2.f																					
16.	Fact Sheet Section I.B	<p>The following text will be revised as follows:</p> <p>The Facility is currently regulated by Order No. R9-2003-0140, which was adopted on August 13, 2003 and expires d on August 13, 2008.</p>																				
17.	Fact Sheet Section I.C	<p>The following text will be revised as follows:</p> <p>C. The Discharger filed a report of waste discharge (ROWD) and submitted an application for renewal of its NPDES permit May 29, 2008 June 9, 2008.</p>																				
18.	Fact Sheet Section II.A	<p>The following text will be revised as follows:</p> <p>This Order regulates the discharge of 0.155 million gallons per day (MGD; maximum flow rate) of combined discharges from water softening and purification processes and other non-biologics maintenance activities (including cooling tower, boiler, and vapor compression stills blowdowns) at the Facility. The waste streams associated with these processes and activities and flow rates are listed below:</p>																				
19.	Fact Sheet Section II.A Table F-2	<p>Table F-2 will be replaced with the following:</p> <p>Table F-2. Brine/Wastewater Stream Descriptions and Flow Rates</p> <table border="1" data-bbox="541 883 1900 1419"> <thead> <tr> <th data-bbox="541 883 1478 959">Wastewater Stream Description</th> <th data-bbox="1478 883 1900 959">Flow Range (GPD)</th> </tr> </thead> <tbody> <tr> <td data-bbox="541 959 1478 1008"></td> <td data-bbox="1478 959 1900 1008"></td> </tr> <tr> <td data-bbox="541 1008 1478 1057">1. Primary City Water Treatment</td> <td data-bbox="1478 1008 1900 1057"></td> </tr> <tr> <td data-bbox="541 1057 1478 1105"> Multimedia Filter</td> <td data-bbox="1478 1057 1900 1105">4,500-10,000</td> </tr> <tr> <td data-bbox="541 1105 1478 1154"> Softeners</td> <td data-bbox="1478 1105 1900 1154">14,000-28,000</td> </tr> <tr> <td data-bbox="541 1154 1478 1203">2. Pretreatment of Water for Injection (WFI), Softeners/Filters:</td> <td data-bbox="1478 1154 1900 1203">10,000-24,000</td> </tr> <tr> <td data-bbox="541 1203 1478 1252">3. WFI process loop discharge</td> <td data-bbox="1478 1203 1900 1252">10,000-24,000</td> </tr> <tr> <td data-bbox="541 1252 1478 1300">4. WFI vapor compression stills</td> <td data-bbox="1478 1252 1900 1300">30,000-63,000</td> </tr> <tr> <td data-bbox="541 1300 1478 1349">Clean Steam Generators</td> <td data-bbox="1478 1300 1900 1349">1,400-6,000</td> </tr> <tr> <td data-bbox="541 1349 1478 1419" style="text-align: right;">Total</td> <td data-bbox="1478 1349 1900 1419">70,000-155,000</td> </tr> </tbody> </table>	Wastewater Stream Description	Flow Range (GPD)			1. Primary City Water Treatment		Multimedia Filter	4,500-10,000	Softeners	14,000-28,000	2. Pretreatment of Water for Injection (WFI), Softeners/Filters:	10,000-24,000	3. WFI process loop discharge	10,000-24,000	4. WFI vapor compression stills	30,000-63,000	Clean Steam Generators	1,400-6,000	Total	70,000-155,000
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20.	Fact Sheet Section II.A.2	<p>The following text will be revised as follows:</p> <p>2. 1. Primary City Water Treatment</p> <p>The sources of wastewater generated from the primary City water treatment include backwashing and rinsing of the triplex multimedia filter (MMF) and triplex softener unit serving the primary City water treatment train. A brine waste is also generated from the regeneration of the softener resin with a concentrated brine solution. A total of approximately 26,000 4,500-10,000 GPD of wastewater is generated from the backwashing and rinsing of the MMF. A total of approximately 27,000 14,000-28,000 GPD of brine and wastewater is generated from the triplex softener unit backwashing, softener regeneration, and rinsing processes. The total dissolved solids (TDS) found in the waste brine includes high levels of sodium, calcium, and magnesium, chlorides, and sulfates.</p>
21.	Fact Sheet Section II.A.3	<p>The following text will be revised as follows:</p> <p>3. 2. Pretreatment of Water for Injection</p> <p>The sources of wastewater generated from the Water for Injection (WFI) pretreatment system include backwashing and rinsing of the simplex carbon filter and softener units serving the WFI pretreatment train and from the regeneration of the softener resin with a concentrated brine solution. The wastewater flow from the WFI includes 9,500 gpd from the softening units and 2,250 gpd from the carbon filters. The total wastewater flow from the WFI pretreatment process is 10,000-24,000 GPD. The pollutants contained in the brine generated from the WFI pretreatment system are similar to those found in the brine from the primary City water treatment system. The pollutants include sodium, calcium, magnesium, and other salts. A small amount of sulfuric acid (20% solution) is added to one of the simplex softener units associated with the WFI. The acid is used to maintain the pH of the softener effluent in the 7 to 8.3 range. This range of pH will ensure proper functioning of the WFI vapor compression stills.</p>
22.	Fact Sheet Section II.A.4	<p>The following text will be revised as follows:</p> <p>4. 3. Pretreatment of Boiler Water WFI Process Loop Discharge</p> <p>The sources of wastewater generated from the pretreatment of boiler water include backwashing and rinsing of the duplex softener unit serving the boiler feed water and from the regeneration of the softener resin with a concentrated brine solution.</p> <p>Approximately 7,500 GPD of brine and wastewater is released from this process. The pollutants contained in the brine waste generated from the boiler feed water softening process are similar to those from the WFI pretreatment system (sodium, calcium, magnesium, and other salts).</p> <p>The WFI Storage tank has a process loop that discharges 10,000-24,000 GPD.</p>

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23.	Fact Sheet Section II.A.4	<p>The following text will be revised as follows:</p> <p>5. 4. Cooling Towers, Boilers, and Vapor Compression Stills-Blowdowns</p> <p>The steam boilers, vapor compression stills, and cooling towers WFI vapor compression stills at the Facility are subject to daily blowdowns for maintenance purposes. A total of approximately 82,200 GPD of blowdown water is released from the boilers (5,700 GPD), vapor compression stills (21,500 GPD), and cooling towers (55,000 GPD). Isothiazolone (a biocide) is introduced into the cooling water prior to each blowdown. The cooling tower flow is stopped for a few minutes, allowing the microbes to fully consume the biocide. The cooling water tower drains are then opened to allow the blowdown to proceed. A total of 30,000-63,000 GPD of blowdown water is released from the vapor compression stills. TDS in the blowdowns ranges from 2,000 to 3,000 mg/L, mainly consisting of calcium, magnesium, and sodium salts, chlorides, sulfates, carbonates, and silica.</p>																																																																																												
24.	Fact Sheet Section II.B	<p>The following text will be revised as follows:</p> <p>Effluent limitations contained in Order No. R9-2003-0140 for discharges from Discharge Point No. 001 (Monitoring Location EFF-001) and representative monitoring data from the term of Order No. R9-2003-0140 are as follows:</p>																																																																																												
25.	Fact Sheet Section II.C	<p>Table F-3 will be modified as follows:</p> <p>Table F-3. Historic Effluent Limitations and Monitoring Data</p> <table border="1" data-bbox="541 797 1900 1422"> <thead> <tr> <th rowspan="2">Effluent Constituent</th> <th rowspan="2">Units</th> <th colspan="3">Effluent Limitations</th> <th colspan="3">Monitoring Data (From January 2001 to December 2007)</th> </tr> <tr> <th>Monthly Average (30-day)</th> <th>Daily Maximum</th> <th>Instantaneous Maximum</th> <th>Highest Monthly Average</th> <th>Highest Daily Maximum</th> <th>Highest Instantaneous Maximum</th> </tr> </thead> <tbody> <tr> <td>Flow</td> <td>MGD</td> <td>--</td> <td>0.155</td> <td>--</td> <td>--</td> <td>0.086</td> <td>--</td> </tr> <tr> <td rowspan="2">Oil and Grease</td> <td>mg/L</td> <td>25</td> <td>75</td> <td>--</td> <td>22</td> <td>22</td> <td>--</td> </tr> <tr> <td>lbs/day</td> <td>33</td> <td>100</td> <td>--</td> <td>10.7</td> <td>10.7</td> <td>--</td> </tr> <tr> <td rowspan="2">Total Suspended Solids</td> <td>mg/L</td> <td>30</td> <td>50</td> <td>--</td> <td>66 37</td> <td>66 37</td> <td>--</td> </tr> <tr> <td>lbs/day</td> <td>40</td> <td>67</td> <td>--</td> <td>18</td> <td>18</td> <td>--</td> </tr> <tr> <td>Settleable Solids</td> <td>ml/L</td> <td>1.0</td> <td>3.0</td> <td>--</td> <td>0.2</td> <td>0.2</td> <td>--</td> </tr> <tr> <td>Turbidity</td> <td>NTU</td> <td>75</td> <td>225</td> <td>--</td> <td>1.5</td> <td>1.5</td> <td>--</td> </tr> <tr> <td>pH</td> <td>pH units</td> <td>--</td> <td>--</td> <td>6.0 – 9.0</td> <td>--</td> <td>--</td> <td>9.21</td> </tr> <tr> <td>Acute Toxicity</td> <td>TUa</td> <td>--</td> <td>2.7</td> <td>--</td> <td>--</td> <td>1.5</td> <td>--</td> </tr> <tr> <td>Chronic Toxicity</td> <td>TUc</td> <td>--</td> <td>81</td> <td>--</td> <td>--</td> <td>81</td> <td>--</td> </tr> </tbody> </table>	Effluent Constituent	Units	Effluent Limitations			Monitoring Data (From January 2001 to December 2007)			Monthly Average (30-day)	Daily Maximum	Instantaneous Maximum	Highest Monthly Average	Highest Daily Maximum	Highest Instantaneous Maximum	Flow	MGD	--	0.155	--	--	0.086	--	Oil and Grease	mg/L	25	75	--	22	22	--	lbs/day	33	100	--	10.7	10.7	--	Total Suspended Solids	mg/L	30	50	--	66 37	66 37	--	lbs/day	40	67	--	18	18	--	Settleable Solids	ml/L	1.0	3.0	--	0.2	0.2	--	Turbidity	NTU	75	225	--	1.5	1.5	--	pH	pH units	--	--	6.0 – 9.0	--	--	9.21	Acute Toxicity	TUa	--	2.7	--	--	1.5	--	Chronic Toxicity	TUc	--	81	--	--	81	--
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26.	Fact Sheet Section IV.A.1	<p>The following text will be revised as follows:</p> <p>1. Order No. R9-2003-0140 listed many of the Basin Plan and Ocean Plan prohibitions. The Basin Plan and Ocean Plan prohibitions are incorporated by reference in this Order. Prohibitions III.F III.D, and III.G III.E are retained from Order No. R9-2003-0140 and require the Discharger to comply with the Basin Plan prohibitions. Prohibitions III.B and III.C were included in Order No. R9-2003-0140 as effluent limitations, but have been changed to prohibitions in this Order.</p>																						
27.	Fact Sheet Section IV.B.2.a	<p>The following text will be revised as follows:</p> <p>The Because the Facility does not discharge process wastewater as defined by the federal regulations at 40 CFR 122.2 and 40 CFR 439.1(m)(2), it is not covered under the ELGs established at 40 CFR Part 439 (Pharmaceutical Manufacturing Point Source Category).</p>																						
28.	Fact Sheet Section VI.C.2.b	<p>The following text will be revised as follows:</p> <p>Representative monitoring of the Facility's discharge was conducted at Discharge Point No. 001 and submitted in semi-annual reports for years 2003, 2004, 2005, and 2006 and 2007 were used for a total of eight sampling events. An RPA was conducted for the Facility's discharges to the OOO using all the available data from December 2004-December 2007, for a total of eight sampling events.</p>																						
29.	Fact Sheet Section VI.C.4.g	<p>TableF-13 will be modified as follows:</p> <p>Table F-13. Performance Goals Based on the Ocean Plan.</p> <table border="1" data-bbox="627 984 1793 1182"> <thead> <tr> <th rowspan="2">Parameter</th> <th rowspan="2">Unit</th> <th colspan="4">Performance Goals¹</th> </tr> <tr> <th>6-Month Median</th> <th>Daily Maximum</th> <th>Instantaneous Maximum</th> <th>30-Day Average</th> </tr> </thead> <tbody> <tr> <td colspan="6" style="text-align: center;">BASED ON OBJECTIVES FOR PROTECTION OF MARINE AQUATIC LIFE</td> </tr> <tr> <td>Acute Toxicity</td> <td>TUa</td> <td>--</td> <td>2.9E+00</td> <td>--</td> <td>--</td> </tr> </tbody> </table>	Parameter	Unit	Performance Goals ¹				6-Month Median	Daily Maximum	Instantaneous Maximum	30-Day Average	BASED ON OBJECTIVES FOR PROTECTION OF MARINE AQUATIC LIFE						Acute Toxicity	TUa	--	2.9E+00	--	--
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30.	Fact Sheet Section VI.C	<p>The following text (in the 4th paragraph) will be revised as follows:</p> <p>A screening period for chronic toxicity shall be conducted every other year beginning with the calendar year 2009, using a minimum of three test species with approved test protocols, from the following list (from the Ocean Plan, 20012005).</p>																						

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31.	Fact Sheet Section VI.E	<p>The following text will be revised as follows:</p> <p>The Monitoring and Reporting Program (MRP) included as Attachment E requires extensive receiving water and sediment monitoring in the vicinity of the Oceanside Ocean Outfall (OOO). The MRP specifies that the receiving water and sediment monitoring program for the OOO may be conducted jointly by the Discharger with the City of Oceanside, and any other agencies/dischargers utilizing the OOO. <u>Joint monitoring results can be submitted by other participating agencies, such as the City of Oceanside, on behalf of the discharger if all of the monitoring conditions specified in this Order are met. Also, the discharger shall include a statement in the corresponding SMR that clearly identifies the agency submitting results for receiving water and sediment monitoring as well as the sampling event date(s).</u></p>
32.	Fact Sheet Section VIII	<p>The following text will be revised as follows:</p> <p>The Regional Water Board is considering the issuance of WDRs that will serve as a NPDES permit for the United States Department of the Navy, Naval Base San Diego <u>Genentech, Inc.</u></p>
33.	Fact Sheet Section VIII.C	<p>The following text will be revised as follows:</p> <p>Rancho California Water District District Board Room 42135 Winchester Road Temecula, CA 92590</p> <p><u>Regional Water Quality Control Board Regional Board Meeting Room 9174 Sky Park Court, Suite 100 San Diego, CA 92123</u></p>
34.	Tentative Order (global)	<p>Other typographical errors and other minor corrections to the wording in the tentative Order have been or will be made prior to sending out the final version.</p>