

**COMPLETION REPORT FOR TWO
EXPLORATORY BORINGS IN THE
VICINITY OF FORMER MONITORING
WELL DW-5**

**FMC Corporation
8787 Enterprise Drive
Newark, Alameda County, California**

December 14, 2005

PREPARED FOR



FMC Corporation
8787 Enterprise Drive
Newark, California 94560

PREPARED BY

PARSONS

2121 N. California Blvd., Suite 500
Walnut Creek, California 94596

FMC Corporation

FMC Corporation
1735 Market Street
Philadelphia, PA 19103

215.299.6000 phone
215.299.6947 fax

www.fmc.com

December 15, 2005

State of California
Regional Water Quality Control Board
San Francisco Bay Region
1515 Clay Street, Suite 1400
Oakland, CA 94612

To: Mr. Bruce H. Wolfe
Executive Officer

Attn: Ms. Cherie Mc Caulou
Engineering Geologist

Re: Completion Report for Two Exploratory Borings
in the Vicinity of Former Well DW-5
FMC Corporation
8787 Enterprise Drive
Newark, Alameda County, California
Final Site Cleanup Requirements Order No. R2-2002-0060

Dear Mr. Wolfe:

By the present letter and attachment, FMC Corporation (FMC) is submitting the "Completion Report for Two Exploratory Borings in the Vicinity of Former Well DW-5, FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California" dated December 2005 to the State of California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB).

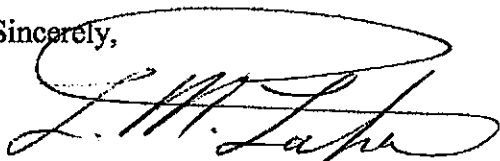
This report summarizes the field activities performed in the vicinity of former FMC well DW-5; and has been performed in accordance with the plan proposed in the "Newark Aquifer Well DW-5 Report, FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California" dated September 2005 and approved by the RWQCB in a letter dated October 25, 2005.

The logo for FMC Corporation, consisting of the letters "FMC" in a bold, stylized, sans-serif font.

Mr. Bruce H. Wolfe
December 15, 2005
Page 2

If you have any questions, or if you require further information, please call me at (408) 289-3141.

Sincerely,

A handwritten signature in cursive script, appearing to read "Z. M. Zahir", enclosed within a hand-drawn oval.

Zahra M. Zahiraleslamzadeh
Manager, Remediation Projects
FMC Corporation
Corporate Environmental Group

cc: Alameda County Water District – Steven Inn
Alameda County Health Agency – Thomas Peacock
Department of Toxic Substances Control – Mohinder Sandhu
Newark Fire Department – Holly Guier
Union Sanitary District – Vaughn Henrie

Bcc: Robert T. Forbes, FMC Corporation
Barbara Ritchie, FMC Corporation
David C. Landgraf, FMC Corporation
Zahra M Zahiraleslamzadeh, FMC Corporation
FMC Newark File (B)

Bcc: Mohsen Mehran, Rubicon Engeneering
Jennifer Abrahams, GeoTrans
Amy Gignac, Parsons

SHH,L.L.C.
5627 Starfish Court
Discovery Bay, CA 94514
ATT: Mr. Peter Schneider
Former Romac Property

Ashland Chemical Company
P.O. Box 2219
Dublin, OH 43216
ATTN: Mr. David Anderson

Jones-Hamilton Company
Environmental, Safety & Security
30354 Tracy Road
Walbridge, OH 43465-9792
ATTN: Mr. Ray Hahn

Honeywell International Inc.
Formerly Baron-Blakeslee Facility, Newark, California
2525 West 190th Street
M/S 23-1-62
Torrance, CA 90504-6099
ATTN: Mr. Benny DeHghi

*Cover letter only

**COMPLETION REPORT FOR TWO
EXPLORATORY BORINGS IN THE
VICINITY OF FORMER MONITORING
WELL DW-5**

**FMC Corporation
8787 Enterprise Drive
Newark, Alameda County, California**

Project No. 441599.19000

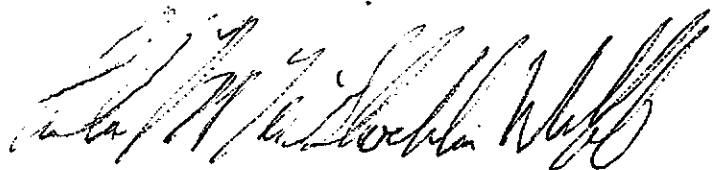
December 14, 2005

Respectfully submitted,

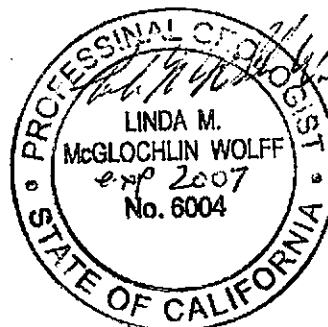
PARSONS.



Amy Gignac
Project Manager



Linda M. McGlochlin Wolff
Senior Hydrogeologist
(PG No.6004, CHG No. 324)



**COMPLETION REPORT FOR TWO
EXPLORATORY BORINGS IN THE
VICINITY OF FORMER MONITORING
WELL DW-5**

**FMC Corporation
8787 Enterprise Drive
Newark, Alameda County, California**

December 14, 2005

PREPARED FOR

FMC

FMC Corporation
8787 Enterprise Drive
Newark, California 94560

PREPARED BY

PARSONS
2121 N. California Blvd., Suite 500
Walnut Creek, California 94596

TABLE OF CONTENTS

	<u>Page</u>
LIST OF ABBREVIATIONS AND ACRONYMS	v
1.0 INTRODUCTION.....	1
1.1 BACKGROUND INFORMATION	1
1.2 OBJECTIVES	3
1.3 TECHNICAL APPROACH.....	3
2.0 FIELD ACTIVITIES AND CHEMICAL ANALYSES.....	5
2.1 DOCUMENT REVIEW AND FIELD RECONNAISSANCE.....	5
2.2 GEOPHYSICAL INVESTIGATIONS.....	6
2.2.1 Geophysical Investigation to Locate DW-5.....	6
2.2.2 Utility Clearance of CPT Boring Locations.....	6
2.3 SOIL BORINGS AND GROUNDWATER SAMPLING	7
2.3.1 Advancement of CPT Borings	7
2.3.2 Collection of Groundwater Samples.....	8
2.3.3 Abandonment of CPT Borings.....	8
2.3.4 Survey of CPT Boring Locations.....	8
2.4 CHEMICAL ANALYSES OF GROUNDWATER SAMPLES.....	8
3.0 DATA EVALUATION	9
3.1 RESULTS OF GROUNDWATER SAMPLING.....	9
3.2 EVALUATION OF ANALYTICAL DATA.....	9
3.3 QUALITY ASSURANCE/QUALITY CONTROL MEASURES	9
3.3.1 Blank Sample Analyses	9
3.3.2 Data Accuracy.....	10
3.3.3 Data Validity.....	10
4.0 SUMMARY AND RECOMMENDATIONS.....	11
REFERENCES.....	12
APPENDIX A: WORK PLAN AND REVISED WORK PLAN	
APPENDIX B: ALAMEDA COUNTY WATER DISTRICT DRILLING PERMIT AND REQUEST FOR AUTHORIZATION FOR SITE ACCESS	
APPENDIX C: CONSTRUCTION DETAILS FOR MONITORING WELL DW-5	
APPENDIX D: CPT DATA FOR SB-1 AND SB-2	
APPENDIX E: DAILY FIELD REPORTS	
APPENDIX F: LABORATORY ANALYTICAL RESULTS	
APPENDIX G: EXHIBIT FOR SOIL BORING LOCATIONS	

LIST OF TABLES

<u>Table No.</u>	<u>Title</u>
1	Comparative Summary of Groundwater Analytical Data for Monitoring Well DW-5 and Exploratory Borings SB-1 and SB-2

LIST OF FIGURES

<u>Figure No.</u>	<u>Title</u>
1	Site Location Map
2	Site Plan Showing Locations of Soil Borings SB-1 and SB-2

LIST OF PHOTOGRAPHS

<u>Photograph No.</u>	<u>Title</u>
1	Approximate Location of Monitoring Well DW-5
2	CPT drilling at SB-1.

LIST OF ABBREVIATIONS AND ACRONYMS

ACWD	Alameda County Water District
BGS	Below Ground Surface
1,2-DCA	1,2-dichloroethane, or ethylene dichloride
EDB	ethylene dibromide, or 1,2-dibromoethane
GAC	granular activated carbon
LCS	laboratory control samples
MB	Method Blank
ml	milliliter
MSL	mean sea level
QA/QC	quality assurance/quality control
RMP	Risk Management Plan
RWQCB	Regional Water Quality Control Board, San Francisco Bay Region
SMP	Self-Monitoring Program
$\mu\text{g}/\ell$	micrograms per liter
USD	Union Sanitary District
VOC	volatile organic compound

1.0 INTRODUCTION

1.1 BACKGROUND INFORMATION

FMC and predecessor companies manufactured chemicals at 8787 Enterprise Drive in Newark, California (the site) from 1929 through 1995. The site location is shown in Figure 1 and a plan of the site is shown in Figure 2. Ethylene dibromide (EDB), a soil fumigant, was among the chemicals manufactured in the western portion of the site. EDB production ceased and associated manufacturing and handling facilities were dismantled and removed in 1968. Currently, FMC's activities at the site consist of operation and maintenance of a soil and ground water remediation/ monitoring system.

Since 1980, a number of investigations have been performed to characterize soil/ground water quality and hydrogeologic conditions at the site and vicinity. In general, these investigations were designed to delineate the areal and vertical extent of certain volatile organic compounds (VOCs) in soil and the underlying water-bearing zones and to assess the ground water flow regime.

The investigations to date have identified two water-bearing zones within the upper 70 feet of the soil profile beneath the site. The "shallow zone" extends from about 5 to 20 feet below grade and consists of silty clay and clayey sand. The underlying Newark aquifer extends from about 50 to 70 feet below grade and consists primarily of sand. The two water-bearing zones are separated by the 30-foot thick Newark aquitard.

The principal compounds detected in soil and ground water beneath the site are EDB and 1,2-dichloroethane (1,2-DCA). These compounds are present in both the shallow zone and the Newark aquifer; however, the concentrations in the Newark aquifer are generally lower than those in the shallow zone. With the concurrence of the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) and California Environmental Protection Agency (Cal/EPA) Department of Toxic Substances Control, formerly part of the California Department of Health Services, most of the previous studies have focused on evaluating EDB in the subsurface environment beneath the site.

In accordance with the waste discharge requirements of RWQCB Order No. 85-113, FMC initiated remedial measures in the Newark aquifer in January 1986. The Newark aquifer remediation program currently involves the extraction of ground water from Wells DW-2 and DW-8 with treatment by granular activated carbon (GAC) to remove dissolved EDB and other organic constituents prior to discharge. The shallow zone containment system (to remediate shallow zone ground water conditions) includes 17 extraction wells. The extracted water is transferred to the existing GAC units for treatment. The shallow zone containment system has been operating since August 1989.

On July 15, 1998, the RWQCB adopted Order No. 98-066 with respect to the entire site, which rescinded Order No. 89-055. As part of the requirements of Order No. 98-066, the *Proposed Final Remedial Action and Cleanup Standards Report* was submitted to the RWQCB on

January 31, 2001 and accepted by the RWQCB in a letter dated September 13, 2001, contingent upon submission of a Risk Management Plan (RMP). In December 2001, FMC submitted the RMP to the RWQCB (England Geosystem, December 19, 2001) and the RWQCB accepted the RMP in a letter dated June 20, 2002.

On May 22, 2002, the RWQCB rescinded Order No. 98-066 and adopted Final Site Cleanup Requirements Order No. R2-2002-0060, again with respect to the entire site. Among other things, Order No. R2-2002-0060 requires FMC to conduct semi-annual ground water monitoring and reporting.

On May 5, 2004 FMC submitted a *Request to Revise Self-Monitoring Program, FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California*, to the California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB) as required under Task C.6. of the Site Cleanup Requirements Order Number R2-2002-0060. In a letter dated August 24, 2004 the RWQCB provided *Comments on the Proposal to Modify Frequency of Groundwater Monitoring and Sampling*, requesting FMC submit a work plan to locate and/or replace well DW-5, by October 1, 2004. In a letter dated September 15, 2004 FMC requested an extension to submit the work plan by December 15, 2004. FMC requested another extension on December 8, 2004 and proposed a submittal date of February 10, 2005.

On February 8, 2005 FMC submitted the *Work Plan to Locate DW-5, FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California* (Work Plan). The Work Plan was approved via electronic communication received from Ms. Cherie McCaulou on February 10, 2005.

On September 16, 2005, FMC submitted a report entitled "*Newark Aquifer Well DW-5 Report, FMC Corporation, 8787 Enterprise Drive, Newark, California*" (DW-5 Report) which detailed FMC's efforts to locate DW-5 through field reconnaissance, document review, and geophysical investigation. These efforts were unsuccessful in locating DW-5. The DW-5 Report included FMC's proposal to collect grab groundwater samples at a depth of approximately 75 feet using a direct push rig. By letter dated October 25, 2005, the RWQCB approved the DW-5 Report and the proposed Newark Aquifer grab groundwater sampling. The RWQCB also requested a technical report (detailing the field activities, analytical testing, and findings) be submitted to the RWQCB by December 15, 2005. This report has been prepared in response to the RWQCB's subject letter.

On October 24, 2005 FMC submitted a *Work Plan and Permit Application to Install Exploratory Borings, North of FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California* to the Alameda County Water District (ACWD). On November 8, 2005, via electronic communication, the ACWD requested FMC collect depth discreet samples and log geophysical information from two boring locations. On November 11, 2005 FMC submitted a *Revised Work Plan to Install Exploratory Borings, North of FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California* (Revised Work Plan). The Revised Work Plan was verbally approved on November 14, 2005.

1.2 OBJECTIVES

Groundwater chemistry data were collected from FMC's Newark Aquifer well DW-5 on a monthly basis from December 1985 through June 1989, and in October 1989. Groundwater sampling was performed on a quarterly basis from August 1991 through September 1992, then semi-annually from August 1993 through August 1994. Since February 1995 FMC's well DW-5 has been reported as lost.

Historic groundwater sampling analytical results show four detections of the primary volatile organic compound (VOC) of concern at the site, 1,2-DCA between December 1985 and August of 1994. The detections were 1.3 micrograms per liter (ug/L) in August 1986, 11 ug/L in December 1986, 2.9 ug/L in January 1999, and 1.4 ug/L in October 1991. 1,2-DCA was not detected at well DW-5 from October 1991 through the last sampling event performed in August 1994. Historic groundwater quality analytical results for DW-5 are provided in Table 1.

The objective of this technical report is to document the work associated with confirming the extent of VOC-impacted groundwater in the Newark Aquifer north of the FMC Corporation Facility located at 8787 Enterprise Drive, Newark, Alameda County, California. The requirement for exploratory borings by RWQCB is for the purpose of adequately defining the western lateral extent of the VOC plume in the Newark Aquifer.

Delineation of the plume is part of the objectives of the groundwater monitoring program and overall investigation and remediation of the site, pursuant to Orders No. 98-066, No. 89-055, No. 87-49, and No. 85-113 adopted by the RWQCB. On May 22, 2002, RWQCB Order No. 98-066 was rescinded and Order No. R2-2002-0060 was adopted. This report has been prepared in accordance with the requirements of the RWQCB letter dated October 25, 2005 (subject: Approval of Newark Aquifer Well DW-5 Report and Proposed Newark Aquifer Grab Groundwater Sampling for Plume Delineation, FMC Corporation, 8787 Enterprise Drive, Newark Alameda County) and RWQCB Order No. R2-2002-0060.

1.3 TECHNICAL APPROACH

The technical approach to achieving the above stated objectives is based on adherence to the Revised Work Plan; compliance with standardized environmental field investigation procedures designed to provide reliable, representative, and reproducible data; and a comprehensive evaluation of the analytical data in the context of historic monitoring results and regional ground water quality.

Section 2.0 of this report describes the field activities and laboratory analyses associated with the document review and field reconnaissance, geophysical investigation, installation of the two soil borings, collection of grab groundwater samples, and analytical testing of the groundwater samples for VOCs. Section 3.0 presents an evaluation of the CPT data, the laboratory analytical results, and the quality assurance/quality control (QA/QC) measures to provide qualitative and quantitative checks on the analytical. Section 4.0 provides a summary of findings and recommendations. The Work Plan and Revised Work Plan to Install Exploratory Borings North of FMC Corporation are provided in Appendix A. The approved Application for Drilling Permit issued by the ACWD and the request for access to the landowner to drill are presented in

Appendix B. Construction details for DW-5 is presented in Appendix C. CPT data for exploratory soil borings SB-1 and SB-2 are presented in Appendix D. Daily Field Reports are presented in Appendix E. Laboratory analytical results are presented in Appendix F. Survey data is presented in Appendix G.

2.0 FIELD ACTIVITIES AND CHEMICAL ANALYSES

Field activities associated with finding monitoring well DW-5 began with a document review. Multiple field reconnaissance of the area in the vicinity of DW-5 (based on information found in related documents) was performed in March 2005 by the ACWD, FMC, and Parsons personnel. As a result of not locating DW-5 during the field reconnaissance, a geophysical investigation of the area was performed on June 30, 2005. The geophysical investigation was also unsuccessful in locating DW-5. Work Plan approval was given by the RWQCB on October 25, 2005 to locate two exploratory borings in the known vicinity of DW-5 and collect groundwater samples. Field activities associated with the exploratory soil borings began on November 17, 2005 with a utility clearance of the proposed soil boring locations. Advancement of the two soil borings along with collection of water samples from the soil borings was performed on November 22 and 23, 2005. Water samples were submitted to the laboratory on November 23, 2005 and final laboratory results were provided to FMC on December 9, 2005. A land survey to determine the coordinates and elevation of the ground surface at the location of the two soil borings was performed on December 5, 2005.

2.1 DOCUMENT REVIEW AND FIELD RECONNAISSANCE

Prior to commencement of field activities, Parsons, FMC's consultant, acquired a 1999 Alameda County Water District (ACWD) Nearby Wells Report depicting registered wells within a one mile radius of the Site. The report cited FMC's well DW-5 (ACWD Well No. 5S/2W-02N005) as destroyed. Parsons contacted the ACWD and spoke with Selim Zeyrek of the Well Ordinance Program to confirm the well was destroyed. An ACWD inspector performed a field reconnaissance on March 19, 2005. The ACWD inspector was unsuccessful at locating well DW-5. It was determined by ACWD staff that a nearby production well identified as D-5 was destroyed; the ACWD database incorrectly identified FMC's well DW-5 as destroyed. Page 33 of the Nearby Wells Report shows DW-5 as destroyed.

Parsons further reviewed historical documents and drawings for comparison against known benchmarks and geo-coordinates to determine the approximate location of monitoring well DW-5. According to the geo-coordinates well DW-5 was located in the immediate vicinity of a paved access road leading to the Ohlone Humane Society Wildlife Rehabilitation Center from Hickory Street, south of the existing ProLogis property (see Photograph 1).

Once the approximate well location was identified, a hand held Global Positioning System (GPS) unit was used to further approximate the location of well DW-5. There were no wells with a total depth greater than 25 feet identified within a 100-foot by 100-foot area in the vicinity of the coordinates provided for well DW-5. A large portion of the investigation area is currently overlain with asphalt.



Photograph 1. Approximate location of former monitoring well DW-5

2.2 GEOPHYSICAL INVESTIGATIONS

2.2.1 Geophysical Investigation to Locate DW-5

As a final measure to find well DW-5 Parsons subcontracted with Subtronic Corporation (Subtronic) to assist in locating well DW-5 using geophysical techniques. FMC and Parsons staff familiar with the FMC Newark facility assisted Subtronic in locating benchmarks and the approximate area of well DW-5. Because well DW-5 was known to be enclosed in a metal well box, a magnetometer search was determined to be the most appropriate method to identify the well location. Subtronic used an electromagnetic field induction instrument capable of detecting buried covers or sleeves up to three feet deep to search for the monitoring well DW-5. An approximate 100-foot by 100-foot area was examined using this technique. The search did not detect the existence of a buried well box or sleeve in the vicinity of well DW-5.

Since the extensive document review and field effort to locate well DW-5 did not reveal any indication that the well still exists, no further attempt was made to locate DW-5.

2.2.2 Utility Clearance of CPT Boring Locations

To confirm the presence or absence of VOCs in the Newark Aquifer, FMC proposed to collect grab groundwater samples at two locations in the vicinity of DW-5, approximately 450 feet north of Newark Aquifer well DW-8. The grab groundwater samples would be collected through the interior of CPT borings.

Prior to advancing the CPT borings, Parsons contacted Underground Service Alert (USA) to notify utility providers of upcoming drilling activities. Additionally, Parsons performed a geophysical survey to identify underground utilities within the vicinity of proposed CPT borings SB-1 and SB-2. On November 17, 2005, Parsons' subcontractor, Foresight, performed the utility survey and cleared the proposed CPT boring locations of potential subsurface interferences.

2.3 SOIL BORINGS AND GROUNDWATER SAMPLING

2.3.1 Advancement of CPT Borings

Prior to performing the soil borings, Parsons performed hand augering at the soil boring locations to a depth of 5 feet to confirm the absence of underground utilities. On November 22, 2005, Parsons' subcontractor, Precision Inc., advanced the CPT boring at SB-1 until refusal occurred at 71.2 ft bgs. SB-2 was completed on November 23, 2005. See Photograph 2.

For both CPT borings, an instrumented piezocone system was used to provide an electronic borehole log for lithologic interpretation. Piezocone measurements were performed in accordance with ASTM D3441. The parameters recorded included tip resistance, sleeve friction, and pore water pressure. Copies of the electronic borehole log for SB-1 and SB-2 are provided in Appendix D. The electronic borehole log provides vertical graphs for Point Stress (Q_c), Pore



Photograph 2. CPT drilling at SB-1.

Pressure (U_t), A Factor (A_f), Local Friction (LF), and Friction Ratio (FR). A color soil behavior legend is also provided. The vertical location of the Newark Aquifer is best depicted in the Local Friction chart and Soil Behavior Legend which show the top of the Newark Aquifer beginning around 41 ft bgs and extending beyond 65 ft bgs (electronic borehole log stops at 65 ft bgs). The formation data in the two CPT electronic borehole logs is consistent with the formation data recorded in the construction log for DW-5 which indicates sand and gravel beginning at 41 ft bgs and continuing, with lesser amounts of clays and silts, to a depth of 76 ft bgs (bottom of boring DW-5).

2.3.2 Collection of Groundwater Samples

Per the request of the ACWD, three depth discrete grab groundwater samples were collected from each of the two CPT borings at depths consistent with the top, middle, and bottom of the screened interval in the former monitoring well DW-5. In SB-1 and SB-2, grab groundwater samples were collected at depths of 44, 62, and 71, ft bgs. Grab samples were collected using a 3/4-inch temporary poly-vinyl chloride (PVC) casing that was installed in the CPT borings. The temporary casings were each equipped with 5 feet of 0.01-inch slotted screen and a slip end cap. Grab groundwater samples were then collected using a disposable bailer. Samples were decanted directly into 40-milliliter vials, sealed, and transported under standard chain-of-custody protocols to Severn Trent Laboratories, Inc. for analysis by EPA Method 8260B for VOCs. Daily Field Reports and chain-of-custody records are provided in Appendix E.

2.3.3 Abandonment of CPT Borings

Following completion of the CPT borings, each boring was sealed with a neat cement consisting of one sack of Portland Type I/II Cement (94 lbs) to five gallons of clean water. Sealing of the soil borings was accomplished using a Tremie grout pipe under the supervision of an ACWD inspector.

2.3.4 Survey of CPT Boring Locations

On December 5, 2005, the ground surface elevation and coordinates of the soil borings was surveyed by Kier & Wright Civil Engineers and Surveyors, Inc. The elevation of SB-1 is 7.98 ft above mean sea level (msl) and SB-2 is 7.78 ft above msl. The location of SB-1 and SB-2 are shown on Figure 2. Survey data including northing and easting coordinates are provided in Appendix G.

2.4 CHEMICAL ANALYSES OF GROUNDWATER SAMPLES

The ground water samples were analyzed by Severn Trent Laboratories, Inc (STL) of Pleasanton, California, for VOCs using U.S. Environmental Protection Agency (U.S. EPA) Method 8260B. Analytical reports for the analyses performed for detectable concentrations of VOCs are provided in Appendix F. Results are also summarized in Table 1. STL is certified through the Environmental Laboratory Accreditation Program of the California Department of Health Services for the analyses performed.

3.0 DATA EVALUATION

This section presents an evaluation of the laboratory analytical results for the grab groundwater samples that were collected from the CPT borings. A summary of the Quality Assurance/Quality Control (QA/QC) measures employed during the collection of groundwater samples is also discussed.

3.1 RESULTS OF GROUNDWATER SAMPLING

Each of the six groundwater samples collected from the two exploratory borings (three samples from each boring) was "No Detection" (ND) at or below the reporting limit (RL) for VOCs. A complete set of the laboratory analytical results is provided in Appendix F. A summary of the analytical results for the groundwater samples by VOC analyte is presented in Table 1.

3.2 EVALUATION OF ANALYTICAL DATA

A comparative summary of water quality data for monitoring well DW-5 and for the two exploratory borings SB-1 and SB-2 is presented in Table 1. The historical VOC data for DW-5 shows that the last documented concentrations of VOCs above the reporting limit (16 µg/l Methylene chloride) was detected on August 25, 1993. During two subsequent groundwater sampling events at DW-5 (March 2, 1994 and August 16, 1994), VOCs were not detected above the reporting limit. The lack of VOCs in groundwater at this location is further supported by the results of the most recent grab groundwater sampling. Given the groundwater samples were taken at depths that coincide with the top, middle, and bottom of the Newark Aquifer as demonstrated by the data in the construction log of DW-5 and the electronic borehole logs of SB-1 and SB-2, it is reasonable to state that the plume of VOC-impacted groundwater north of FMC Corporation does not extend as far north as these soil borings.

3.3 QUALITY ASSURANCE/QUALITY CONTROL MEASURES

A total of six groundwater samples were collected from the exploratory borings. Field QA/QC measures included a trip blank sample, identified as "TB" submitted with the six groundwater samples. Laboratory QA/QC measures included two laboratory control samples (LCS) and two method blanks (MB). The results of these QA/QC measures are discussed below in terms of data precision, accuracy, and validity.

3.3.1 Blank Sample Analyses

Blank samples analyzed as part of the overall QA/QC program included one trip blank and two method blanks. The trip and method blank samples analyzed by STL using EPA Method 8260B did not contain detectable concentrations of VOCs. An equipment blank was not collected because only disposable bailers were used in the collection of groundwater samples.

3.3.2 Data Accuracy

Data accuracy may be defined as the degree of agreement of a measurement with an accepted reference or true value. Data accuracy is evaluated by the analysis of laboratory control samples and matrix QC samples. The calculated percentage recovery of the spiking compound is taken as a measure of the accuracy of the total analytical method. The tolerance limits for acceptable percent recovery vary according to the analytical method and the spike compound(s). The data indicate that the percent recovery calculated for various compounds were within laboratory control requirements. However, surrogate recovery was above the posted QC limits twice for surrogates 1,2-dichloroethane-d4. As the sample analyses were not rerun, and as the analytical data are generally consistent with historical data, it cannot be determined whether these exceedences indicate unrealistically elevated VOC concentration results.

3.3.3 Data Validity

Data validity is assessed by quantitatively evaluating data precision and accuracy and by qualitatively evaluating the results of blank sample analyses. The results of the QA/QC measures obtained from the trip blank sample and method blanks showed an acceptable degree of precision and accuracy. The groundwater quality data are generally consistent with the historical data and, thus, are considered valid. A summary of the sampling QA/QC results are presented on page 19 in Appendix F.

STL also reported that the cooler or the samples did not appear to have compromised or tampered with. The samples were received on ice and the cooler temperature was acceptable. The COC was present, filled out with all pertinent information; filled out in ink and legible. There were no discrepancies between the sample IDs on the containers and on the COC. Samples were received within the specified holding time. Sample containers were not leaking and had legible labels with sample collection times and dates. Sample bottles were completely filled and there was sufficient volume of sample to run the requested analyses. VOA sample vials did not have headspace or bubble less than ¼" in diameter.

4.0 SUMMARY AND RECOMMENDATIONS

FMC Corporation has performed the following activities in an effort to determine the northerly extent of the VOC-impacted groundwater in the Newark Aquifer in the vicinity of DW-5:

- Conducted a document review and field reconnaissance to locate monitoring well DW-5.
- Conducted a geophysical survey in the area suspected of containing DW-5.
- Installed exploratory borings in the vicinity of the former DW-5 and conducted electronic borehole logs at both borings.
- Collected groundwater samples from two exploratory borings in formation considered to be the top, middle, and bottom of the Newark Aquifer.
- Performed analytical testing of the groundwater samples collected in the exploratory borings for VOCs.
- Performed a comparative evaluation of analytical results for groundwater samples collected routinely from DW-5 with analytical results from groundwater samples collected from the exploratory borings.

It is the conclusion of this report that the VOC-impacted groundwater in the Newark Aquifer north of the FMC Corporation does not extend laterally as far north as the former location of monitoring well DW-5. Therefore, no further action is warranted.

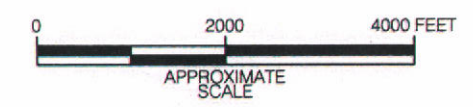
REFERENCES

- California Regional Water Quality Control Board, San Francisco Bay Region, September 18, 1985, *Waste Discharge Requirements for: FMC Corporation and Designed Building Systems, Inc., Remedial Action Program, Newark, Alameda County*, Order No. 85-113 issued to FMC Corporation.
- California Regional Water Quality Control Board, San Francisco Bay Region, May 20, 1987, *Amendment to Requirements, FMC Corporation and Designed Building Systems, Inc., Remedial Action Program, Newark, Alameda County*, Order No. 87-49 issued to FMC Corporation.
- California Regional Water Quality Control Board, San Francisco Bay Region, April 19, 1989, *Site Cleanup Requirements for: FMC Corporation Phosphorus Chemicals Division, 8787 Enterprise Drive, Newark, Alameda County*, Order No. 89-055 issued to FMC Corporation.
- California Regional Water Quality Control Board, San Francisco Bay Region, April 19, 1993, *Proposed Self-Monitoring Program*, Order No. 89-055 issued to FMC Corporation.
- California Regional Water Quality Control Board, San Francisco Bay Region, July 15, 1998, *Revision of Site Cleanup Requirements and Rescission of Order No. 89-055, FMC Corporation, 8787 Enterprise Drive, Newark, California*, Order No. 98-066 issued to FMC Corporation.
- California Regional Water Quality Control Board, San Francisco Bay Region (RWQCB), May 22, 2002, *Order No. R2-2002-0060, Final Site Cleanup Requirements and Rescission of Order No. 98-066, FMC Corporation, 8787 Enterprise Drive, Newark, California*, issued to FMC Corporation.
- FMC, January 30, 2001, *Proposed Final Remedial Actions and Cleanup Standards, FMC Corporation, 8787 Enterprise Drive, Newark, California*, report submitted to RWQCB.
- Parsons, February 8, 2005, *Work Plan to Locate Well DW-5, FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California*, Report submitted to FMC Corporation.
- . Parsons, October 24, 2005, *Work Plan and Permit Application to Install Exploratory Borings, North of FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California* Report submitted to FMC Corporation.
- Parsons, November 11, 2005, *Revised Work Plan to Install Exploratory Borings, North of FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California* Report submitted to FMC Corporation.

TABLE 1
Comparative Summary of Groundwater Analytical Data for Monitoring Well DW-5 and Exploratory Borings SB-1 and SB-2
 FMC Corporation, 8787 Enterprise Drive, Newark, California

Well No.	Date	Bromoform	1,2-Dichloroethane	Ethylene dibromide (EDB)	Trichloroethene	Dibromochloroethane	1,1-Dichloroethane	1,1,1-Trichloroethane	Tetrachloroethene	cis-1,3-Dichloropropene	1,1-Dichloroethene	Chloroform	Methylene chloride	Chlorobenzene	Chloroethane	Vinyl chloride	1,2-Dichloropropane	Total VOCs (1)
DW-5	12/16/1985	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	1.2	<1	<0.7	<0.5	<0.5	<0.5	1
DW-5	1/21/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	2/21/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	3/6/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	4/14/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	5/14/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	6/12/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	7/22/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	8/21/1986	<0.7	1.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	0
DW-5	9/15/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	<0.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	1
DW-5	10/16/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	9.2	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	9
DW-5	11/13/1986	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	1.2	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	1
DW-5	12/11/1986	<0.7	11	<0.5	<0.3	<0.6	<0.4	1.1	1.8	<0.5	<0.3	8.3	<1	<0.7	<0.5	<0.5	<0.5	22
DW-5	1/21/1987	<0.7	<0.3	<0.5	<0.3	<0.6	<0.4	2.4	<0.5	<0.5	<0.3	<0.5	<1	<0.7	<0.5	<0.5	<0.5	2
DW-5	2/19/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	3/2/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	4/16/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	5/15/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	6/4/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	7/15/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	8/12/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	9/8/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	10/5/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	11/5/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	ND	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	12/3/1987	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0.8	<0.5	ND	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	1
DW-5	1/11/1988	<0.5	2.9	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.2	2.4	<0.5	NA	<0.5	<0.5	<0.5	5
DW-5	2/10/1988	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	3/4/1988	<0.5	<0.5	<0.5	1.2	<0.5	<0.5	<0.5	<0.5	NA	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	1
DW-5	4/14/1988	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.2	<0.5	<0.5	NA	<0.5	<0.5	<0.5	0
DW-5	5/13/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	1.9	<1	<1	<1	<1	<1	2
DW-5	6/7/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	7/14/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	8/9/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	9/6/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	10/11/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	11/8/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	12/5/1988	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	1/17/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	270	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	270
DW-5	2/13/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	4.9	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	5
DW-5	3/6/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	5.3	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	5
DW-5	4/14/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	5/10/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	0
DW-5	6/22/1989	<1	<0.5	<0.5	<0.5	<0.5	<0.5	43	<0.5	NA	<1	<1	<1	<1	<1	<1	<1	43
DW-5	10/25/1989	<2	<2	<2	<2	<2	<2	<2.0	<2.0	NA	<2	<2.0	<2	<2	<2	<2	<2.0	0
DW-5	8/27/1991	<1	<0.5	<1	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<0.5	<1	<0.5	<1	<1	<0.5	0
DW-5	10/29/1991	<1	1.4	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<0.5	<1	<0.5	<1	<1	<0.5	1
DW-5	2/24/1992	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
DW-5	5/20/1992	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
DW-5	9/8/1992	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
DW-5	8/25/1993	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	16
DW-5	3/2/1994	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
DW-5	8/16/1994	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	0
SB1-DW5-44'	11/22/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0
SB1-DW5-62'	11/22/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0
SB1-DW5-71'	11/22/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0
SB2-DW5-44'	11/23/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0
SB2-DW5-62'	11/23/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0
SB2-DW5-71'	11/23/2005	<1	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	NA	<1	<1	<1	<1	<1	<1	<0.5	0

NOTE: (1) Total VOCs expressed as whole numbers. Compounds below detection limit are assumed zero. Total VOCs value may include detected concentrations for parameters not shown on this table. All units are µg/L - parts per billion

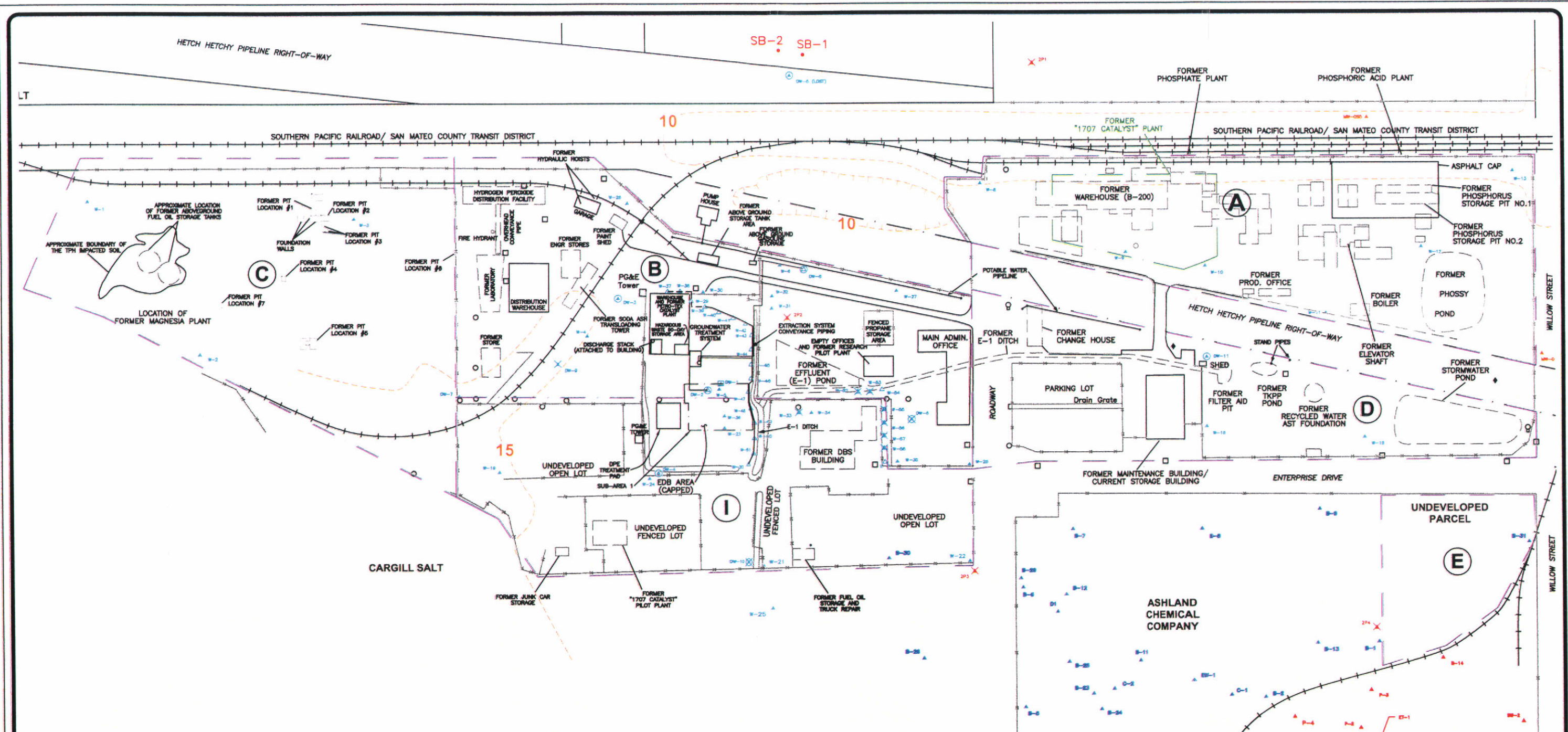


REFERENCE
 U.S.G.S. 7.5 MINUTE SERIES (TOPOGRAPHIC)
 MOUNTAIN VIEW, DATED 1961, (PHOTOREVISED 1981)
 AND NEWARK, DATED 1959 (PHOTOREVISED 1980)
 SCALE 1:24000

FIGURE 1
 SITE LOCATION MAP

FMC CORPORATION
 NEWARK, CALIFORNIA

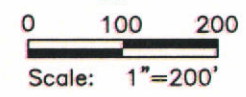
PARSONS



Explanation

- ▲ 2P3 ABANDONED MONITORING WELL (ALAMEDA COUNTY WATER DISTRICT)
- ▲ 154 MONITORING WELL (ALAMEDA COUNTY WATER DISTRICT)
- ▲ SHALLOW ZONE MONITORING WELL (GEOSYSTEM)
- × 2P4 ABANDONED SHALLOW ZONE MONITORING WELL (GEOSYSTEM)
- ⊙ 2P5 NEWARK AQUIFER MONITORING WELL (GEOSYSTEM)
- ⊙ 2P6 ABANDONED NEWARK AQUIFER MONITORING WELL (GEOSYSTEM)
- × 2P7 ABANDONED SHALLOW ZONE EXTRACTION WELL (GEOSYSTEM)
- ▲ 2P8 SHALLOW ZONE EXTRACTION WELL (GEOSYSTEM)
- ⊙ 2P9 NEWARK AQUIFER EXTRACTION WELL (GEOSYSTEM)
- 2P10 IRVINGTON AQUITARD MONITORING WELL (GEOSYSTEM)
- ▲ MONITORING WELL (ASHLAND CHEMICAL)
- ▲ MONITORING WELL (BARON-BLAKESLEE)
- × 2P11 ABANDONED MONITORING WELL (BARON-BLAKESLEE)
- ▲ MONITORING WELL (JONES-HAMILTON Co.)
- ▲ MONITORING WELL (ROMIC ENVIRONMENTAL TECHNOLOGIES)
- POWER/TELEPHONE POLE
- ⊙ POWER/TELEPHONE POLE W/POWER BOX
- STORM DRAIN
- SUMP
- ◆ VAULT
- SOIL BORING

- (A) PARCEL DESIGNATION
- ▭ FORMER STRUCTURE
- ▭ EXISTING STRUCTURE
- 10 APPROXIMATE LOCATION OF ELEVATION CONTOUR (USGS Topographic Map)
- PROPERTY LINE



TITLE: Site Plan		
LOCATION: FMC Corporation 8787 Enterprise Drive, Newark, California		
PARSONS	CHECKED: AG DRAFTED: MD DATE: 12-13-04	FIGURE: 2

PARSONS

2121 N. California Blvd. Suite 500 • Walnut Creek, California 94596 • (925) 941-3700 • Fax (925) 979-9781 • www.parsons.com

October 24, 2005

Mr. Steven Inn
Alameda County Water District
43885 South Grimmer Blvd.
P.O. Box 5110
Fremont, CA 94537

Re: Work Plan and Permit Application to Install Exploratory Borings, North of FMC Corporation, 8787 Enterprise Drive, Newark, Alameda County, California

Dear Mr. Inn:

This letter presents the scope of work and permit applications to confirm the extent of volatile organic compound (VOC)-impacted groundwater in the Newark aquifer north of FMC Corporation's (FMC) former ethylene dibromide (EDB) plant at 8787 Enterprise Drive, Newark, Alameda County, California (Figure 1) (Site). The permit fee of \$335.00 per proposed boring location is also enclosed.

To confirm the absence of VOCs at or above levels of concern in this area, Parsons, on behalf of FMC, proposes to install two borings and collect grab groundwater samples at the ProLogis Trust property located at 37137 Hickory Street in Newark, California, adjacent to the north of the Site. The boring will be located approximately 450 feet north of FMC's Newark aquifer extraction well DW-8 (Figure 2). Groundwater samples will be collected from the borings at a depth of approximately 75 feet by a cone penetrometer testing rig using a direct push methodology. Samples will be labeled and placed on ice in a cooler for shipment via courier to a California state-certified laboratory. All samples will be transported to the laboratory under proper chain-of-custody documentation. Samples will be analyzed for VOCs using USEPA Method 8260B. Historic groundwater quality data from FMC's nearby Newark Aquifer well DW-5 (reported as lost since 1994) is shown in Table 1.

After completion of groundwater sampling, the borings will be sealed with neat cement to the surface by Tremie method in which a grout pipe is placed at the bottom of the hole and moved gradually upward displacing water as the hole is filled with grout. The neat cement grout will be composed of one sack of Portland Type I/II Cement (94 lbs) to five gallons of clean water. The borings will be sealed under the supervision of an Alameda County Water District (ACWD) inspector. Decontamination water generated during the investigation will be placed into a drum, transported to the FMC Corporation property at 8787 Enterprise Drive, and treated at the existing groundwater extraction and treatment system.

Upon receipt of analytical data, a letter report documenting the results of the investigation will be forwarded to ACWD, the State of California Regional Water Quality Control Board, San Francisco Bay Region, and the City of Newark Fire Department.

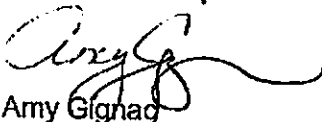
All work will be performed in accordance with parsons Site-Specific Health and Safety Plan, FMC Newark Facility and the ACWD Site Hazard Information Sheet (attached).

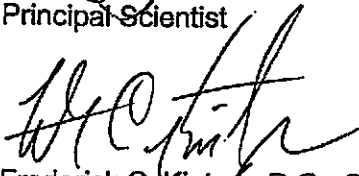
Mr. Inn
October 24, 2005
Page 2 of 2

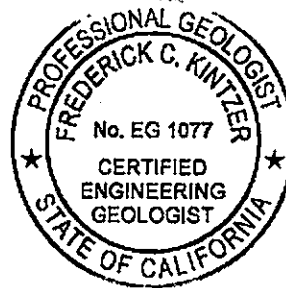
If you have any questions regarding this work plan or the permit application, please contact me directly at (925) 941-3722.

We appreciate your assistance in this matter.

Sincerely,
PARSONS


Amy Gignac
Principal Scientist


Frederick C. Kintzer, P.G., C.E.G.
Supervising Geologist



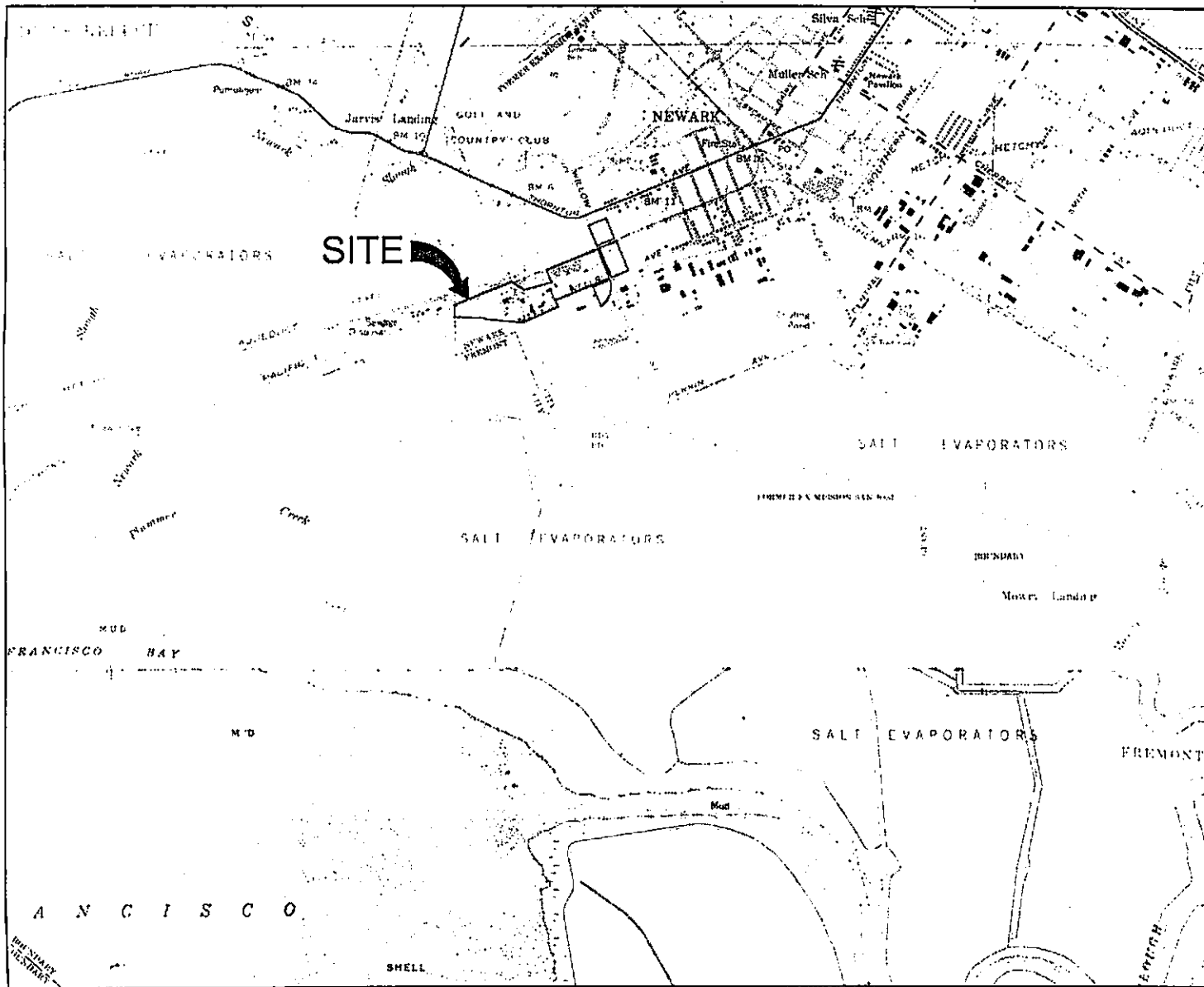
Attachment

cc: Zahra M. Zahiraleslamzede, FMC Corporation
Tim Anenson, Parsons

TABLE 1
 Historic Groundwater Quality - Volatile Organic Compounds
 FMC Corporation, 8787 Enterprise Drive, Newark, California

Well No.	Date	Bromoform	1,2-Dichloroethane	Ethylene dibromide (EDB)	Trichloroethene	Dibromochloromethane	1,1-Dichloroethane	2-Chloroethyl vinyl ether	1,1,1-Trichloroethane	Tetrachloroethene	cis-1,3-Dichloropropene	1,1-Dichloroethene	Chloroform	Methylene chloride	Chlorobenzene	Chloroethane	Vinyl chloride	1,2-Dichloropropane	Total VOCs (1)
DW-5	12/16/1985	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	1.2	<1	0.7	0.5	0.5	0.5	1
DW-5	1/21/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	2/21/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	3/6/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	4/14/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	5/14/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	6/12/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	7/22/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	8/21/1986	<0.7	1.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	0
DW-5	9/15/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	0.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	1
DW-5	10/16/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	9.2	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	9
DW-5	11/13/1986	<0.7	0.3	0.5	0.3	0.6	0.4	<1	1.2	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	1
DW-5	12/11/1986	<0.7	1.1	0.5	0.3	0.6	0.4	<1	1.1	1.8	0.5	0.3	8.3	<1	0.7	0.5	0.5	0.5	22
DW-5	1/21/1987	<0.7	0.3	0.5	0.3	0.6	0.4	<1	2.4	0.5	0.5	0.3	0.5	<1	0.7	0.5	0.5	0.5	2
DW-5	2/19/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	3/2/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	4/16/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	5/15/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	6/4/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	7/15/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	8/12/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	9/8/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	10/5/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	11/5/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	12/3/1987	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	ND	0.2	0.5	0.5	NA	0.5	0.5	0.5	1
DW-5	1/11/1988	0.5	2.9	0.5	0.5	0.5	0.5	0.5	0.5	0.5	NA	0.2	2.4	0.5	NA	0.5	0.5	0.5	5
DW-5	2/10/1988	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	NA	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	3/4/1988	0.5	0.5	0.5	1.2	0.5	0.5	0.5	0.5	0.5	NA	0.2	0.5	0.5	NA	0.5	0.5	0.5	1
DW-5	4/14/1988	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	NA	0.2	0.5	0.5	NA	0.5	0.5	0.5	0
DW-5	5/13/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.9	<1	0.5	0.5	0.5	0.5	2
DW-5	6/7/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	7/14/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	8/9/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	9/6/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	10/11/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	11/8/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	12/5/1988	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	1/17/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	270
DW-5	2/13/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	4.9	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	5
DW-5	3/6/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	5.3	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	5
DW-5	4/14/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	5/10/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0
DW-5	6/22/1989	<1	0.5	0.5	0.5	0.5	0.5	0.5	43	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	43
DW-5	10/25/1989	<2	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<2	0.5	0.5	0.5	0.5	0
DW-5	8/27/1991	<1	0.5	<1	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
DW-5	10/29/1991	<1	1.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1
DW-5	2/24/1992	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
DW-5	5/20/1992	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
DW-5	9/8/1992	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
DW-5	8/25/1993	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	16
DW-5	3/2/1994	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0
DW-5	8/16/1994	<1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0

NOTE: (1) Total VOCs expressed as whole numbers. Compounds below detection limit are assumed zero. Total VOCs value may include detected concentrations for parameters not shown on this table.
 All units are µg/l - parts per billion



N

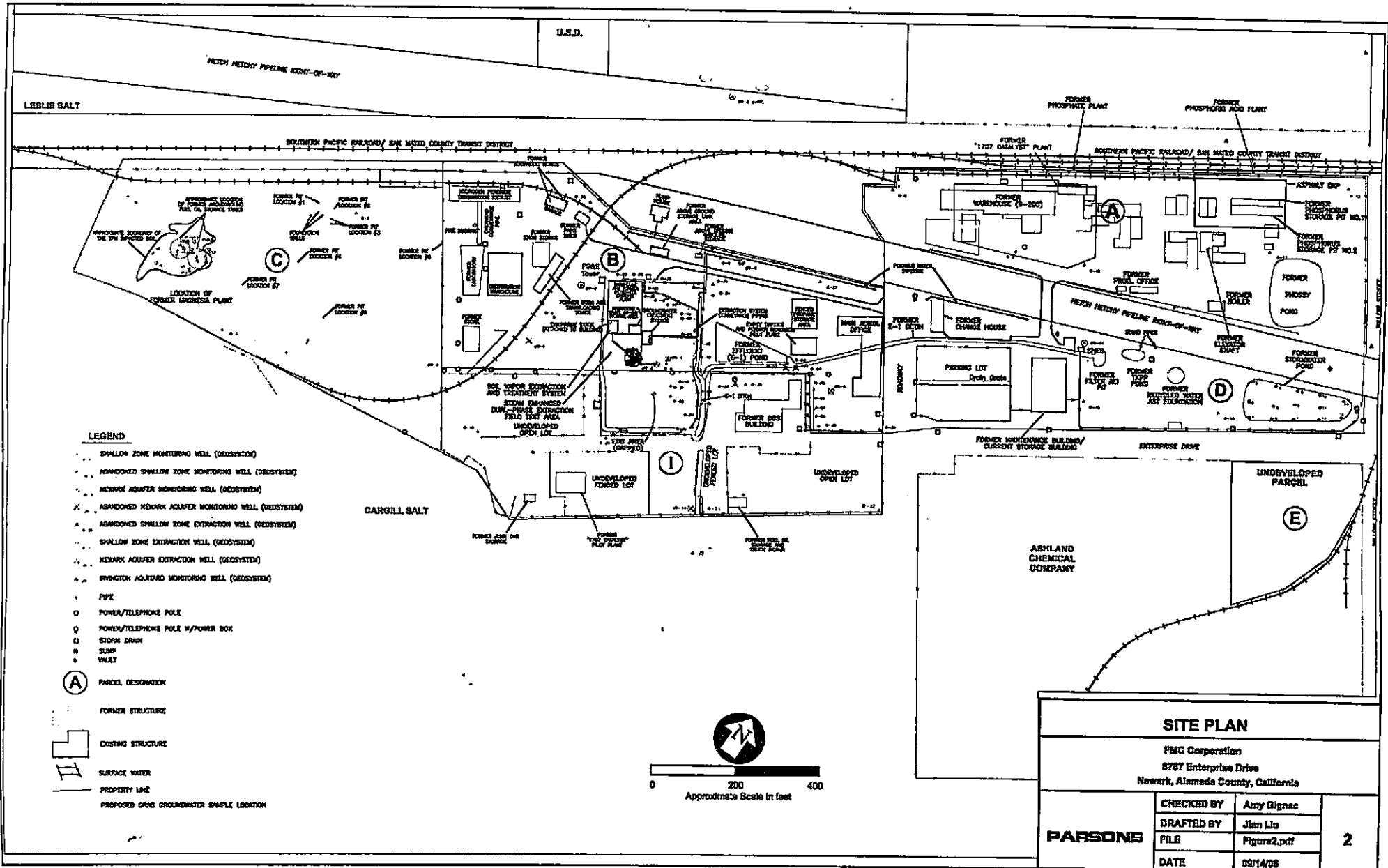
0 2000 4000 FEET
APPROXIMATE SCALE

REFERENCE
 U.S.G.S. 7.5 MINUTE SERIES (TOPOGRAPHIC)
 MOUNTAIN VIEW, DATED 1961, (PHOTOREVISED 1981)
 AND NEWARK, DATED 1959 (PHOTOREVISED 1980)
 SCALE 1:24000

FIGURE 1
 SITE LOCATION MAP

FMC CORPORATION
 NEWARK, CALIFORNIA

PARSONS



LEGEND

- SHALLOW ZONE MONITORING WELL (DEDSYSTEM)
- ABANDONED SHALLOW ZONE MONITORING WELL (DEDSYSTEM)
- NEWARK AQUIFER MONITORING WELL (DEDSYSTEM)
- ABANDONED NEWARK AQUIFER MONITORING WELL (DEDSYSTEM)
- ABANDONED SHALLOW ZONE EXTRACTION WELL (DEDSYSTEM)
- SHALLOW ZONE EXTRACTION WELL (DEDSYSTEM)
- NEWARK AQUIFER EXTRACTION WELL (DEDSYSTEM)
- BRVINGTON AQUIFER MONITORING WELL (DEDSYSTEM)
- PIPE
- POWER/TELEPHONE POLE
- POWER/TELEPHONE POLE W/POWER BOX
- STORM DRAIN
- SLUMP
- VAULT
- (A) PARCEL DESIGNATION
- FORMER STRUCTURE
- EXISTING STRUCTURE
- SURFACE WATER
- PROPERTY LINE
- PROPOSED ORG GROUNDWATER SAMPLE LOCATION



0 200 400
Approximate Scale in feet

SITE PLAN

FMG Corporation
8787 Enterprise Drive
Newark, Alameda County, California

PARSONS

CHECKED BY	Amy Gignac
DRAFTED BY	Jian Liu
FILE	Figure2.pdf
DATE	03/14/06

ALAMEDA COUNTY WATER DISTRICT
 43885 South Grimmer Blvd. • P.O. Box 5110
 Fremont, California 94537-5110
 Engineering Department 1 (510) 668-4460

**APPLICATION
 FOR
 DRILLING PERMIT**
 (APPLICATION TO BE TYPED)

WELL ORDINANCE
 _____ City of Fremont No. 963
 _____ City of Newark No. 136
 _____ City of Union City No. 109-73

Application Received Date: _____ By: _____ Permit Issued Date: _____ Permit Expiration Date: _____ Job No. _____ Permit No. Well No. _____

JOB ADDRESS 37137 HICKORY STREET
NEWARK, CA 94560

PROPERTY OWNER
 NAME: FMC CORPORATION
 ADDRESS: 1735 MARKET STREET
PHILADELPHIA, PA 19103
 TELEPHONE: (215) 299-6700

CONSULTING ENGINEER
 NAME: PARSONS
 ADDRESS: 2121 N. CALIFORNIA BLVD. #500
WALNUT CREEK, CA 94596
 TELEPHONE: 925-941-3700 RG/CFG/RCE NO. _____

WELL DRILLING CONTRACTOR
 NAME: PRECISION SAMPLING
 ADDRESS: 1081 ESSEX AVENUE
RICHMOND, CA 94801
 TELEPHONE: 510-237-4575 STATE LIC. NO. CS7 63-6387

When properly signed
**THIS APPLICATION
 IS A VALID PERMIT**

to perform only work described below at the given job address, in accordance with the City Ordinance checked above and all other applicable laws and regulations. Discontinuation of work may result in revocation of permit by Inspecting Officer. Permittee must schedule the work in advance with the Inspecting Officer, ACWD's approval of drawings, designs, specifications, reports and incidental work or materials shall not in any way relieve the applicant of responsibility for the technical adequacy of the work. Except for special circumstances, all work to be inspected must be performed within ACWD work hours - 7:30 a.m. to 4:30 p.m., Monday through Friday.

PLEASE CHECK TYPE OF PROPOSED WORK

WATER (Pumping) WELL	GEOTECHNICAL INVESTIGATION	CHEMICAL INVESTIGATION
Construction _____	Exploratory Holes _____	Exploratory Holes <u>(2)X</u>
Repair or Reconstruction _____	Monitoring Wells, Construction _____	Vapor Sampling Investigation _____
Destruction _____	Monitoring Wells, Destruction _____	Monitoring Well Const. (Chemical Leak) _____
Cathodic Protection Hole _____	Monitoring Wells, Construction _____	Monitoring Well Const. (Compliance Wells) _____
Dewatering _____	Monitoring Wells, Destruction _____	Monitoring Well Const. (Baseline Study) _____
	Air Sparging Well _____	Vapor Extraction Well _____

Description of Proposed Work Collect groundwater samples at ~75 feet below ground surface and analyze for VOCs using 8260 B.
See work plan attached.

TOTAL ESTIMATED COST \$ 335 X 2 = 770

PERMIT CONDITIONS

FEES:

E Private	_____
S Public (Governmental) Agency	_____
T Public Utility	_____
I Permit Issuance Fee	\$ _____
M Field Investigation and Inspection Fee	\$ _____
A ESTIMATE TOTAL	\$ _____
C Permit Issuance Fee	\$ _____
T Field Investigation and Inspection Fee	\$ _____
A TOTAL	\$ _____

DEPOSIT:

Date Received _____

P.O. NO. _____ Cash _____ Check No. _____

Estimated Amount \$ _____

Actual Amount \$ _____

Difference \$ _____

Refund \$ _____ Date _____

Billed 4 _____ Date _____

GUARANTEE OF PERFORMANCE

Cash Deposit _____ Bond _____

Amount \$ _____ Date _____

(NOT TO EXCEED TOTAL ESTIMATED COST)

Return Amount \$ _____ Date _____

ACWD SITE NO. _____

APPROVED FOR SCHEDULING BY: _____ DATE: _____

INSPECTING OFFICER APPROVAL _____ DATE: _____

I hereby agree to comply with all conditions of this permit in accordance with the City Well Ordinance checked above, and to furnish the Alameda County Water District a completed copy of D.W.R. water well Drillers Report (form 188) or acceptable facsimile as well as any chemical testing results within fifteen (15) days after completion.

Title: Supervising Geologist Signature: [Signature] Date: 10/24/05

Representing: PARSONS Name (printed): Frederick C. Kintzer P.G. 3630
C.E.G. 1077



43885 South Grimmer Blvd., P.O. Box 5110, Fremont, CA 94537 Tel. No. (510) 668-4460 Fax No. (510) 651-1760

SITE HAZARD INFORMATION

Please provide the following information for the site

Owner's Name: FUC CORPORATION
 Site Address: 37137 HICKORY STREET
NEWARK CA 94566
 Consultant on Site: PARSONS Phone No. (925) 941-3700
 Site Safety Officer: ERIC STARRS Phone No. (925) 683-2864
 Type of Facility: FORMER FUMIGANT PRODUCTION

Anticipated Hazardous Substances - (Attach Additional Sheets if Necessary)
 (Please include concentrations below. Note if free product historically on site)

Name	Expected Concentrations (ppm) (List medium - i.e. soil, water, air)	PEL (ppm)	Health Effects
<input type="checkbox"/> Gasoline			
<input type="checkbox"/> Diesel			
<input type="checkbox"/> Waste Oil			
	<u>TCE - Water</u>	<u>100ppm</u>	<u>skin irritant</u>
	<u>at <0.5 ppb</u>		

District Use Only
 Checked Against Reported Contaminants

Site Safety Meeting Date: Prior to commencing site work Time: _____

Level of Personal Protection Equipment A B C D

Personal Protective Equipment:

R = Required A = As Needed, with description of action concentrations)

- | | | | | | |
|---------------------------------------|---------------------------------------|--|----------------------------|---------------------------------------|-----------------------------------|
| <input checked="" type="checkbox"/> R | <input type="checkbox"/> A | <input type="checkbox"/> Hard Hat | <input type="checkbox"/> R | <input checked="" type="checkbox"/> A | Clothing (Type): <u>Tyvek</u> |
| <input checked="" type="checkbox"/> R | <input type="checkbox"/> A | <input type="checkbox"/> Safety Shoes | <input type="checkbox"/> R | <input checked="" type="checkbox"/> A | Respirator (Type): <u>Y2 face</u> |
| <input checked="" type="checkbox"/> R | <input type="checkbox"/> A | <input type="checkbox"/> Orange Traffic Vest | <input type="checkbox"/> R | <input checked="" type="checkbox"/> A | Cartridge (Type): <u>VOCs</u> |
| <input type="checkbox"/> R | <input checked="" type="checkbox"/> A | <input checked="" type="checkbox"/> Hearing Protection | <input type="checkbox"/> R | <input checked="" type="checkbox"/> A | Gloves (Type): <u>Nitrile</u> |
| <input checked="" type="checkbox"/> R | <input type="checkbox"/> A | <input type="checkbox"/> Safety Eyewear | <input type="checkbox"/> R | <input type="checkbox"/> A | Other: _____ |

Site Hazard Information Provided By: Amy Gignac Phone: (925) 941-3722
Print

Parsons Principal Scientist [Signature] Date: 10-24-05
Company name & title Signature

JPMorgan Chase Bank, N.A.
 DISBURSEMENT ACCOUNT
 SYRACUSE, NY

PARSONS
 4701 HEDGEMORE DRIVE
 CHARLOTTE, NC 28209

50-837
 213

VOID AFTER 90 DAYS

CHECK NUMBER	DATE
0046641	10/21/05

AMOUNT
\$335.00

PAY Three Hundred Thirty Five DOLLARS and Zero CENTS

TO
 THE
 ORDER
 OF

ALAMEDA COUNTY WATER DISTRICT
 P. O. BOX 5110
 FREMONT, CA 94537

JPMorgan Chase Bank, N.A.
 6040 YARBELL ROAD
 SYRACUSE, NY 13208

BY 
 AUTHORIZED SIGNATURE

⑈0046641⑈ ⑆021309379⑆ 601868458⑈

REMITTANCE ADVICE

INVOICE NO	DATE	VOUCHER NO	DESCRIPTION	AMOUNT	DISCOUNT	NET AMOUNT
1019051	10/19/05	100506108	ACT PARSONS	335.00		335.00
CHECK NO	DATE	VENDOR NO	VENDOR NAME			TOTAL AMOUNT
0046641	10/21/05	JF253	ALAMEDA COUNTY WATER DISTRICT			335.00

4701 HEDGEMORE DRIVE

PLEASE DETACH THIS VOUCHER BEFORE DEPOSITING CHECK

JPMorgan Chase Bank, N.A.
DISBURSEMENT ACCOUNT
SYRACUSE, NY

PARSONS
4701 HEDGEMORE DRIVE
CHARLOTTE, NC 28209

50-937
213

VOID AFTER 90 DAYS

CHECK NUMBER	DATE
0046642	10/21/05

AMOUNT
\$335.00

PAY Three Hundred Thirty Five DOLLARS and Zero CENTS

JPMorgan Chase Bank, N.A.
6000 TARBELL ROAD
SYRACUSE, NY 13206

TO
THE
ORDER
OF
ALAMEDA COUNTY WATER DISTRICT
P. O. BOX 5110
FREMONT, CA 94537

BY *Carly Bauer*
AUTHORIZED SIGNATURE

⑈0046642⑈ ⑆021309379⑆ 601868458⑈

REMITTANCE ADVICE

INVOICE NO	DATE	VOUCHER NO	DESCRIPTION	AMOUNT	DISCOUNT	NET AMOUNT
1019052	10/19/05	100506109	ACT PARSONS	335.00		335.00
CHECK NO	DATE	VENDOR NO	VENDOR NAME			TOTAL AMOUNT
0046642	10/21/05	JF253	ALAMEDA COUNTY WATER DISTRICT			335.00

4701 HEDGEMORE DRIVE

PLEASE DETACH THIS VOUCHER BEFORE DEPOSITING CHECK

PARSONS

2121 N. California Blvd. Suite 500 • Walnut Creek, California 94596 • (925) 941-3700 • Fax (925) 979-9781 • www.parsons.com

October 24, 2005

Mr. Steven Inn
Alameda County Water District
43885 South Grimmer Blvd.
P.O. Box 5110
Fremont, CA 94537

**Re: Revised Work Plan to Install Exploratory Borings
North of FMC Corporation
8787 Enterprise Drive
Newark, Alameda County, California**

Dear Mr. Inn:

This Revised Work Plan presents the proposed scope of work to confirm the extent of volatile organic compound (VOC)-impacted groundwater in the Newark aquifer north of FMC Corporation's (FMC) facility at 8787 Enterprise Drive, Newark, Alameda County, California (Site). This Work Plan also incorporates comments received November 7, 2005, via electronic mail, from Mr. Tom Berkins of the Alameda County Water District (ACWD), requesting depth discreet sampling and geotechnical logging. The permit application, permit fee, and relevant site maps and historical data were submitted to the ACWD with the Work Plan and Permit Application to Install Exploratory Borings, dated October 24, 2005.

To confirm the absence of VOCs at or above levels of concern in this area, Parsons, on behalf of FMC, proposes to install two borings, collect standard cone penetrometer testing (CPT) data (i.e., tip resistance, sleeve friction, and dynamic pore pressure), and collect grab groundwater samples at the ProLogis Trust property located at 37137 Hickory Street in Newark, California, adjacent to the north of the Site. The boring will be located approximately 450 feet north of FMC's Newark aquifer extraction well DW-8. The boreholes will be advanced, CPT data logged, and groundwater samples collected in the vicinity of monitoring well DW-5, which has not been located. Given the known thickness of the aquifer in the vicinity of well DW-5 is from approximately 40 feet below ground surface (bgs) to approximately 75 feet bgs, ACWD requested that three depth discrete groundwater samples be collected from each borehole. Collecting samples in relation to the top, middle, and bottom of the screened interval of well DW-5 was recommended. Parsons is proposing to collect the top sample within three feet of encountering groundwater, the middle sample from 55 feet bgs, and the lower sample within three feet of the bottom of the aquifer, or 75 feet bgs, whichever is encountered first. Samples will be collected using a cone penetrometer testing rig using a direct push methodology. Samples will be labeled and placed on ice in a cooler for shipment via courier to a California state-certified laboratory. All samples will be transported to the laboratory under proper chain-of-custody documentation. Samples will be analyzed for VOCs using USEPA Method 8260B.

After completion of groundwater sampling, the borings will be sealed with neat cement to the surface by Tremie method in which a grout pipe is placed at the bottom of the hole and moved gradually upward displacing water as the hole is filled with grout. The neat cement grout will be composed of one sack of Portland Type I/II Cement (94 lbs) to five gallons of

clean water. The borings will be sealed under the supervision of an ACWD inspector. Decontamination water generated during the investigation will be placed into a drum, transported to the FMC Corporation property at 8787 Enterprise Drive, and treated at the existing groundwater extraction and treatment system.

Upon receipt of analytical data, a letter report documenting the results of the investigation will be forwarded to ACWD, the State of California Regional Water Quality Control Board, San Francisco Bay Region, and the City of Newark Fire Department.

All work will be performed in accordance with Parsons Site-Specific Health and Safety Plan, FMC Newark Facility and the ACWD Site Hazard Information Sheet (attached).

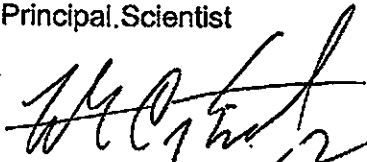
If you have any questions regarding this work plan or the permit application, please contact me directly at (925) 941-3722.

We appreciate your assistance in this matter.

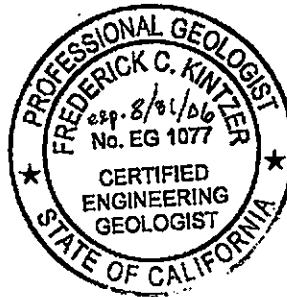
Sincerely,
PARSONS



Amy Gignac
Principal Scientist



Frederick C. Kintzer, P.G., C.E.G.
Supervising Geologist



Attachments

cc: Zahra M. Zahraleslamzedeh, FMC Corporation
Tim Anenson, Parsons

4/22-11/23 8am

ALAMEDA COUNTY WATER DISTRICT
43885 South Grimmer Blvd. • P.O. Box 5110
Fremont, California 94537-5110
Engineering Department 1 (510) 668-4460

APPLICATION
FOR
DRILLING PERMIT
(APPLICATION TO BE TYPED)

WELL ORDINANCE
 City of Fremont No. 963
 City of Newark No. 136
 City of Union City No. 108-73

Application Received Date: 10/27/05 By: TA/00 Permit Issued Date: 11/17/05 Permit Expiration Date: 11/17/06 Job No. 1025 Permit No. 2005-363 Well No. N/A

JOB ADDRESS: 37137 HICKORY STREET
NEWARK, CA 94560

PROPERTY OWNER
NAME: FMC CORPORATION
ADDRESS: 1335 MARKET STREET
PHILADELPHIA, PA 19103
TELEPHONE: (215) 299-6700

CONSULTING ENGINEER
NAME: PARSONS
ADDRESS: 2121 N. CALIFORNIA BLVD #400
WALNUT CREEK, CA 94596
TELEPHONE: 925-941-3700 RG/CFWRCE NO. 1077

WELL DRILLING CONTRACTOR
NAME: PRECISION SAMPLING
ADDRESS: 1081 ESSEX AVENUE
RICHMOND, CA 94801
TELEPHONE: 510-237-4575 STATE LIC. NO. CS7 63-6387

When properly signed
**THIS APPLICATION
IS A VALID PERMIT**

to perform only work described below at the given job address, in accordance with the City Ordinance checked above and all other applicable laws and regulations. Discontinuation of work may result in revocation of permit by Inspecting Officer. Permittee must schedule the work in advance with the Inspecting Officer. ACWD's approval of drawings, designs, specifications, reports and incidental work or materials shall not in any way relieve the applicant of responsibility for the technical adequacy of the work. Except for special circumstances, all work to be inspected must be performed within ACWD work hours - 7:30 a.m. to 4:30 p.m., Monday through Friday.

PLEASE CHECK TYPE OF PROPOSED WORK

WATER (Pumping) WELL	GEOTECHNICAL INVESTIGATION	CHEMICAL INVESTIGATION
Construction		
Repair or Reconstruction	Exploratory Holes	Exploratory Holes (2)X
Destruction	Monitoring Wells, Construction	Vapor Sampling Investigation
Cathodic Protection Hole	Monitoring Wells, Destruction	Monitoring Well Const. (Chemical Leak)
Dewatering	Monitoring Wells, Destruction	Monitoring Well Const. (Compliance Wells)
	depth discrete	Monitoring Well Const. (Baseline Study)
		Vapor Extraction Well

Description of Proposed Work: Collect groundwater samples at 40-75 feet below ground surface and analyze for VOCs using 8260 B.

See work plan attached. TOTAL ESTIMATED COST \$ 335 X 2 = 670

PERMIT CONDITIONS: Exploratory Benings to be backfilled from bottom of borehole to surface with neat cement.

FEES:

Private	<input checked="" type="checkbox"/>	
Public (Governmental) Agency	<input type="checkbox"/>	
Public Utility	<input type="checkbox"/>	
Permit Issuance Fee		\$ 335.
Field Investigation and Inspection Fee		\$
ESTIMATE TOTAL		\$ 335.
Permit Issuance Fee		\$ 335.
Field Investigation and Inspection Fee		\$
TOTAL		\$ 335.

DEPOSIT: Date Received 10/27/05
P.O. NO. Cash 604664 Check No. 604664
Estimated Amount \$ 335.
Actual Amount \$ 335.
Difference \$ 0
Return \$ _____ Date _____
Billed \$ _____ Date _____
GUARANTEE OF PERFORMANCE
Cash Deposit _____ Bond _____
Amount \$ _____ Date _____
(NOT TO EXCEED TOTAL ESTIMATED COST)
Return Amount \$ _____ Date _____

ACWD SITE NO. 49
APPROVED FOR SCHEDULING BY: T. Beckman DATE: 11/9/05 INSPECTING OFFICER APPROVAL: [Signature] DATE: 11/17/05
for R. Sampath

I hereby agree to comply with all conditions of this permit in accordance with the City Well Ordinance checked above, and to furnish the Alameda County Water District a completed copy of D.W.R. water well Drillers Report (form 188) or acceptable facsimile, with any chemical testing results within fifteen (15) days after completion.

Title: Soils Geologist Signature: [Signature] Date: 10/24/05
Representing: PARSONS Name (printed): Fredrick C. Kintzer P.G. 3630
C.E.G. 1077

PARSONS

2121 N. California Blvd. Suite 500 • Walnut Creek, California 94596 • (925) 941-3700 • Fax (925) 979-9781 • www.parsons.com

October 24, 2005

Ms. Michelle D. Judd
ProLogis
47775 Fremont Boulevard
Fremont, CA 94538

Re: Request to Perform Groundwater Sampling at ProLogis Trust Property, 37137
Hickory Street, Newark, Alameda County, California

Dear Ms. Judd:

On behalf of FMC Corporation (FMC), Parsons is requesting permission to perform groundwater sampling on ProLogis Trust property (37137 Hickory Street) located north of FMC's former ethylene dibromide (EDB) plant in Newark, California. Two soil borings will be advanced until encountering groundwater in a known deep aquifer (approximately 75 feet below grade) using a cone penetrometer testing rig using direct push methodology. Attached is a figure showing the location of the proposed soil borings. Groundwater samples will be collected from the borings and submitted to a California state-certified laboratory for analysis. Prior to leaving the property, the borings will be sealed with grout under the inspection of the Alameda County Water District. All steam-cleaning water will be removed from the site upon completion. No soil cuttings will be generated during the drilling.

To gain access to the proposed boring location, it may be necessary to cut the wire-fence at the southern property boundary. If this is the case, the fence will be repaired immediately following sampling.

As requested, the certificates of insurance for Parsons and our subcontractor, Precision Sampling, Inc., are attached.

If you have any questions, please feel free to call me at (925) 941-3722. We appreciate your assistance in this matter.

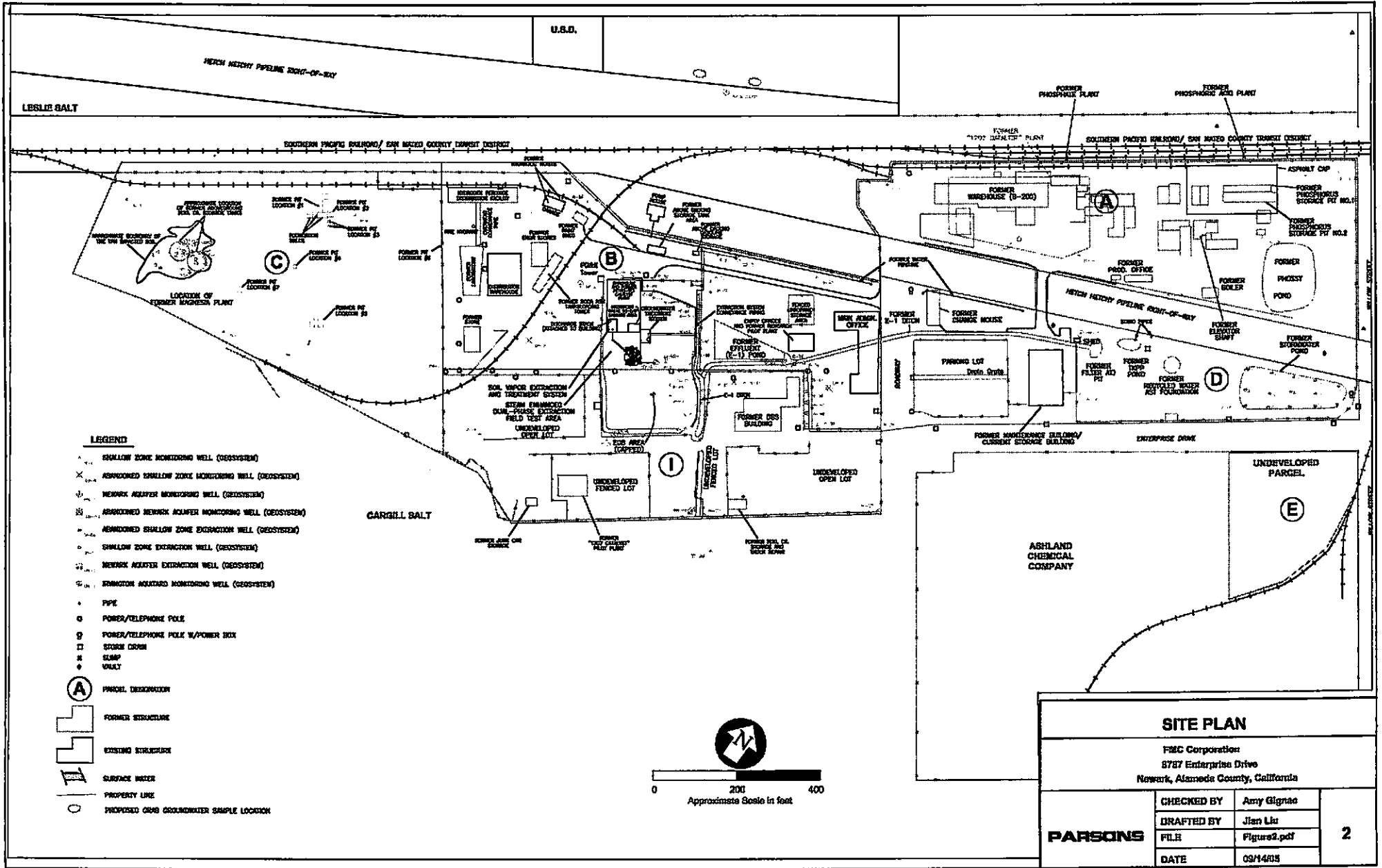
Sincerely,
PARSONS



Amy Gignac
Principal Scientist

Attachments

cc: Zahra M. Zahiraeslamzedeh, FMC Corporation
Tim Anenson, Parsons



ACORD**CERTIFICATE OF LIABILITY INSURANCE**

STEWARTS INSURANCE SERVICES LIMITED
 1111 West Hastings Street, Suite 1000
 Vancouver, BC, Canada V8E 2J3
 Phone: (604)689-8500

FAX: (604)883-9316

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW.

COMPANIES AFFORDING COVERAGE

INSURED: PRECISION SAMPLING INCORPORATED
 1081 ESSEX AVENUE, RICHMOND, CA 94801

Company A: AIG Environmental, a Division of American International Companies
 Company B: Commerce & Industry Insurance Company via Tanner Insurance Brokers, Inc.
 Company C: Liberty Mutual Fire Insurance Company
 Company D:

COVERAGES

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

CO LTR	TYPE OF INSURANCE	POLICY NUMBER	POLICY EFFECTIVE DATE (MM/DD/YY)	POLICY EXPIRY DATE (MM/DD/YY)	LIMITS
A	GENERAL LIABILITY <input checked="" type="checkbox"/> Commercial General Liability <input type="checkbox"/> Claims Made <input checked="" type="checkbox"/> Occur <input checked="" type="checkbox"/> Owner's & Cont. Prot. <input checked="" type="checkbox"/> Pollution Liability	PROP4178172	08/30/2005	08/30/2008	General Aggregate \$ 5,000,000 Prod-Com.Op/Agg \$ 5,000,000 Pers. & Adv. Injury \$ 5,000,000 Each Occurrence \$ 5,000,000 Fire Dmg.(Any one fire) \$ 50,000 Pollution Liability \$ 1,000,000 Med. Exp.(Any one person) \$ 5,000
B	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> Any Auto <input type="checkbox"/> All owned Autos <input type="checkbox"/> Scheduled Autos <input type="checkbox"/> Hired Autos <input type="checkbox"/> Non-owned Autos <input type="checkbox"/> <input type="checkbox"/> GARAGE LIABILITY <input type="checkbox"/> Any auto <input type="checkbox"/> <input type="checkbox"/> EXCESS LIABILITY <input type="checkbox"/> Umbrella form <input type="checkbox"/> Other than Umbrella form	CA7564104	08/30/2005	08/30/2008	Combined Single Limited \$ 1,000,000 Bodily Injury (per person) \$ Bodily Injury (per accident) \$ Property Damage \$ Auto only-ea. accident \$ Other than auto only \$ Each accident \$ Aggregate \$ Each Occurrence \$ Aggregate \$ \$
C	WORKERS COMPENSATION & EMPLOYERS' LIABILITY Proprietors/ Partners/ Executive officers: <input checked="" type="checkbox"/> Incl. <input type="checkbox"/> Excl.	WC2-871-072339-025	08/30/2005	08/30/2008	WC Statutory Limits \$ Yes Other \$ N/A EL Each Accident \$ 1,000,000 EL Disease-Policy Limit \$ 1,000,000 EL Disease-Ea.emp. \$ 1,000,000
	OTHER				

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES / SPECIAL ITEMS

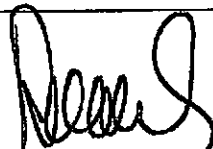
CERTIFICATE HOLDER

TO WHOM IT MAY CONCERN

CANCELLATION

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, THE ISSUING COMPANY WILL ENDEAVOUR TO MAIL WRITTEN NOTICE TO THE CERTIFICATE HOLDER NAMED TO THE LEFT, BUT FAILURE TO MAIL SUCH NOTICE SHALL IMPOSE NO OBLIGATION OR LIABILITY OF ANY KIND UPON THE COMPANY, ITS AGENTS OR REPRESENTATIVES.

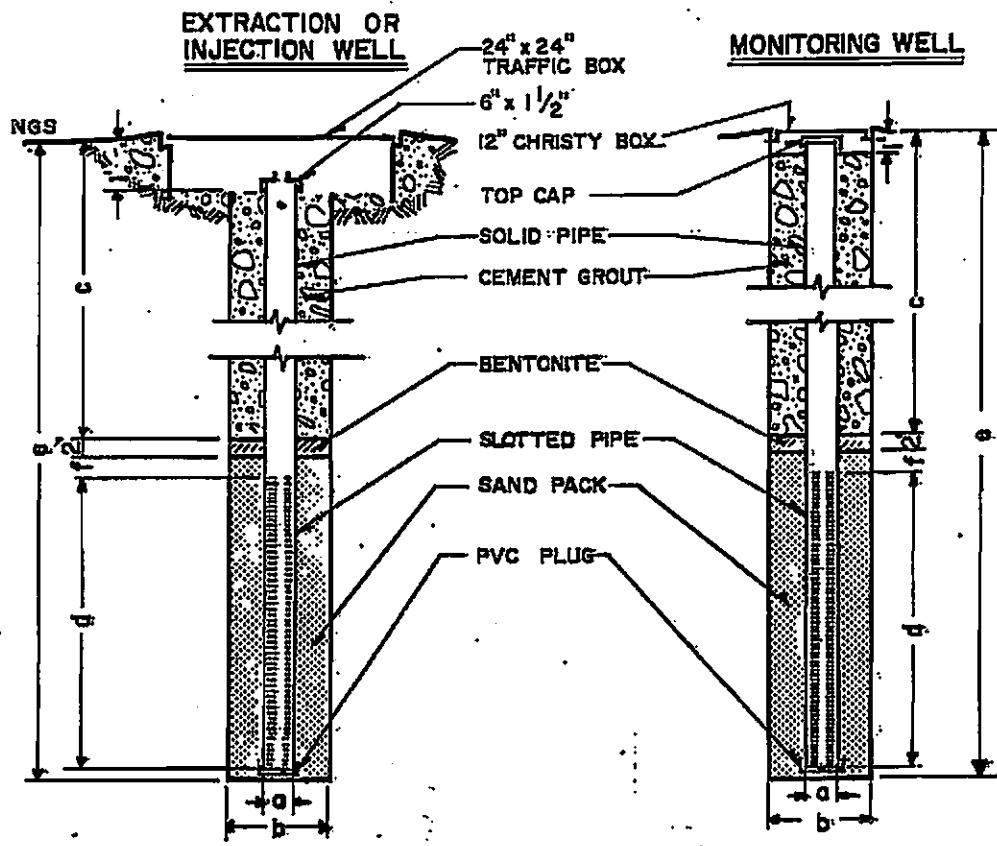
AUTHORIZED REPRESENTATIVE



ROMANA VOLNY

JULY 8, 2005

DRAWING NUMBER 850076-A4
 CHECKED BY J.M.
 APPROVED BY
 DRAWN BY



CONSTRUCTION DETAILS						
WELL NO.	a(in)	b(in)	c(ft)	d(ft)	e(ft)	f(ft)
DW-5	4	8	39	30	76	2
DW-6	4	8	45.6	14.8	73	2
DW-7	2	.8	7	20	46	2
DW-8	6	13	47	20	74	2
DW-9	6	13	47	20	71.5	2
DW-10	6	13	36	20	76	8.5

NOTE:
 DW 6 HAS OUTER 8" STEEL CASING TO THE DEPTH OF 21'.

FIGURE 2
CONSTRUCTION DETAILS OF THE NEW WELLS

PREPARED FOR
FMC CORPORATION
NEWARK, CALIFORNIA



DRILLING FOREMAN Roger Kastenko

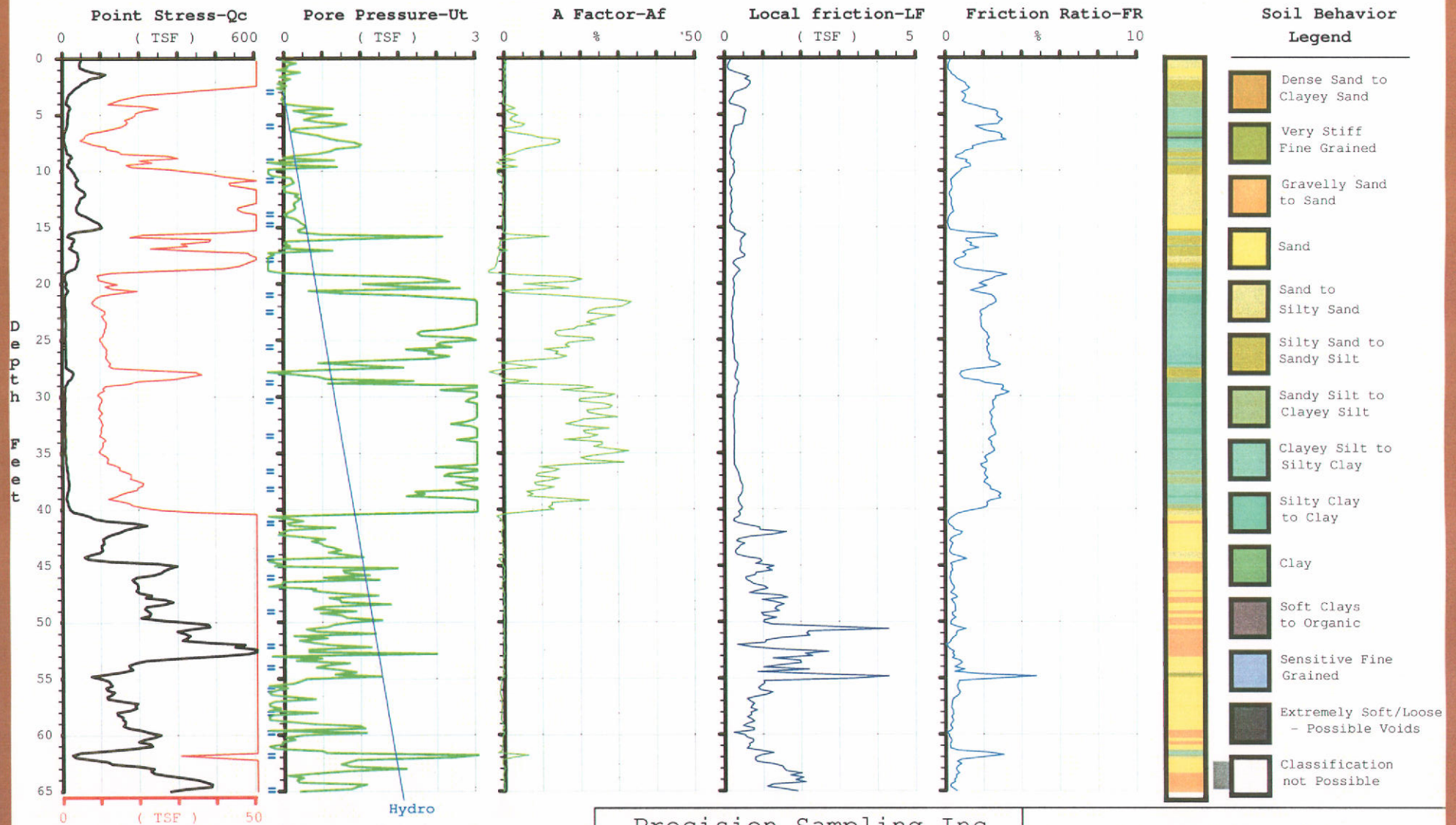
EDITED BY _____ DATE _____

LOCATION OF BORING				JOB NO. 850075	CLIENT MHC	LOCATION Newark																																																																																																																																																													
				DRILLING METHOD Mud Rotary		BORING NO. DW-5																																																																																																																																																													
				SAMPLING METHOD Cuttings		SHEET 1 of 3																																																																																																																																																													
DATUM				SURFACE ELEVATION		DRILLING																																																																																																																																																													
<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;">SAMPLER TYPE</th> <th style="width: 10%;">INCHES DRIVEN RECOVERED</th> <th style="width: 10%;">DEPTH OF CASING</th> <th style="width: 10%;">SAMPLE NO. DEPTH</th> <th style="width: 10%;">BLOWS/FT. SAMPLER</th> <th style="width: 10%;">NUMBER OF RINGS</th> <th style="width: 10%;">DEPTH IN FEET</th> <th style="width: 10%;">USCS DESIGNATION</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>0</td><td rowspan="10" style="writing-mode: vertical-rl; transform: rotate(180deg);"> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>1</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>2</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>3</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>4</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>5</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>6</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>7</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>8</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>9</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>10</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>11</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>12</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>13</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>14</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>15</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>16</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>17</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>18</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>19</td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td>20</td></tr> </tbody> </table>				SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO. DEPTH	BLOWS/FT. SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	USCS DESIGNATION							0								1							2							3							4							5							6							7							8							9							10							11							12							13							14							15							16							17							18							19							20	SURFACE ELEVATION		START TIME 11:45	
SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO. DEPTH	BLOWS/FT. SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	USCS DESIGNATION																																																																																																																																																												
						0																																																																																																																																																													
						1																																																																																																																																																													
						2																																																																																																																																																													
						3																																																																																																																																																													
						4																																																																																																																																																													
						5																																																																																																																																																													
						6																																																																																																																																																													
						7																																																																																																																																																													
						8																																																																																																																																																													
						9																																																																																																																																																													
						10																																																																																																																																																													
						11																																																																																																																																																													
						12																																																																																																																																																													
						13																																																																																																																																																													
						14																																																																																																																																																													
						15																																																																																																																																																													
						16																																																																																																																																																													
						17																																																																																																																																																													
						18																																																																																																																																																													
						19																																																																																																																																																													
						20																																																																																																																																																													
SURFACE ELEVATION		FINISH TIME 12:30		DATE 12, 12, 84		DATE 12, 13, 84																																																																																																																																																													
SURFACE CONDITIONS: Road Shoulder				WATER LEVEL		CASING DEPTH																																																																																																																																																													
COLOR		SOIL TYPE		SECONDARY CHARACTERISTICS, CONSISTENCY AND REMARKS ON SOIL AND DRILLING																																																																																																																																																															
Brown		Clay		no odor and no roots no sign of contamination																																																																																																																																																															
Gray		sand		medium textured, clean not much fine particles																																																																																																																																																															

SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO.	BLOWS / FT. SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	USCS DESIGNATION	PROJECT NO.	CLIENT	LOCATION
								850075	FMC	Newark
								SHEET	BORING NO.	
2 of 3	DW-5									
								COLOR	SOIL TYPE	SECONDARY CHARACTERISTICS, CONSISTENCY & REMARKS ON SOIL & DRILLING
						20		Gray	Bay mud	fine sandy clay to silty clay
						1				
						2				
						3				
						4				
						5				
						6				
						7				
						8				
						9				
						30				
						1				
						2				
						3				
						4				
						5				
						6				
						7				
						8				
						9				
						40		Gray	Sand & Gravel	River washed, coarse medium textured sand and gravel
						1				
						2				
						3				
						4				
						5				
						6				
						7				
						8				
						9				
						50				

SAMPLER TYPE	INCHES DRIVEN RECOVERED	DEPTH OF CASING	SAMPLE NO.	SAMPLE DEPTH	BLOWS / FT. SAMPLER	NUMBER OF RINGS	DEPTH IN FEET	USCS DESIGNATION	PROJECT NO.	CLIENT	LOCATION	
									850975	FMC	Newark	
								SHEET	BORING NO.			
								3 OF 3	DW-5			
								COLOR	SOIL TYPE	SECONDARY CHARACTERISTICS, CONSISTENCY & REMARKS ON SOIL & DRILLING		
							50					
							1					
							2					
							3					
							4					
							5		Brown clay		light clay with some silt	
							6					
							7					
							8					
							9					
							60		Gray clay		with some to few silt it doesn't look saturated	
							1					
							2					
							3		Gray Gravel		medium to coarse textured gravel	
							4					
							5					
							6					
							7					
							8					
							9					
							70					
							1					
							2					
							3					
							4					
							5					
							6					
							7					
							8					
							9					
							0					
											total hole depth 76'	
											4" PVC casing 71'	
											perf. interval 41-71'	
											sand to 39' then	
											2' of bentonite	

PIEZOCONE SOUNDING

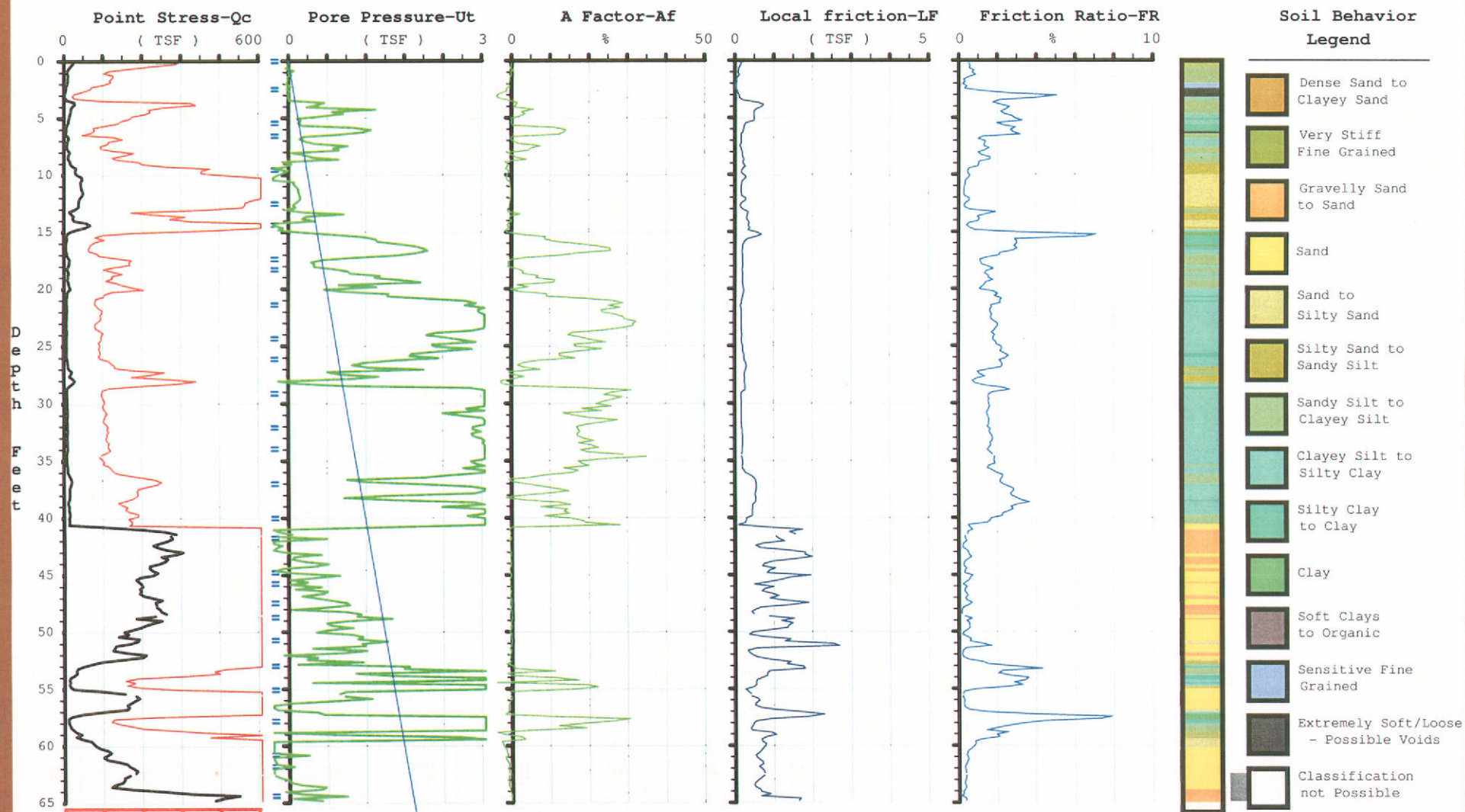


— Coarse Scale
— Fine Scale

'=' Push Interrupted To Add Rod, Pore Pressure Decay Data May Be Available

Precision Sampling Inc.
Parsons
Hickory St
Sounding # SB2-DW5.CSV
Test Date 11-23-2005 10:06:27

PIEZOCONE SOUNDING



— Coarse Scale
 — Fine Scale

'=' Push Interrupted To Add Rod, Pore Pressure Decay Data May Be Available

Precision Sampling Inc.

Parsons
 Hickory St
 Sounding # SB1-DW5.CSV
 Test Date 11-22-2005 08:58:05

PRECISION SAMPLING INC.

DAILY FIELD REPORT

1081 Essex Avenue
Richmond, CA 94801
800-671-4744

Nationwide Direct Push Contracting Services

DATE: 11/22/2005 CLIENT: Parsons OPERATOR: JZ
 LOCATION: Newark CA FIELD CONTACT: Andrew Crisp TECHNICIAN: CT
 SITE: Hatch Hokeby 37137 Hickey CLIENT JOB NUMBER: _____ RIG NUMBER: CP2

TIME	Mobiliza- tion To & From Jobsite	Mobiliza- tion Between Boreholes	Safety Meeting	Equipment Set Up or Take Down	Concrete Asphalt Coring	Hand Auger	Advance Rods Soil	Advance Rods GW SG or CPT	Water Sampling Time	Borehole Grouting	Advance Rods to Set Wells	De-Con Steam Cleaning	Install Well Covers	Well Develop or Sampling	Standby Delay Time	Non Billable Time	Other	Borehole Number(s)	Total Depth(s)
0645	0600															.25			
0600	0730	1.5																	
0730	0800		.25	.25															
0800	0915					1.25													
0915	1030						1.25												71
1030	1100	.25								.25									
1100	1145						.75		✓										44
1145	1230						.75		✓										62
1230	1330						1.0		✓										71
1330	1500									*1.5									
1500	1615					1.25													
1615	1630			.25															
1630	1800	1.5																	
TOTALS		3.0	.25	.25	.5	2.5	3.75	1.75								.25			218

CHARGEABLE HOURS 12.0 NON-BILLABLE HOURS .25 BEGINNING MILEAGE _____ ENDING MILEAGE _____ CREW SIZE 2 NUMBER OF PER DIEM _____

SUPPORT EQUIPMENT AND SERVICES	Quantity	Interval	SOIL CONDITIONS	Water Level	CONSUMABLE MATERIALS					
Steam Cleaner	1				Stainless Liners (ea.)		Disposable Baller	4	Locking Well Caps	
Concrete Coring, Inches Total _____ Cores Total _____					Butyrate Liners (Feet)		Pre-Pak Well, PVS (ft) .75"x1.25"		Expendable Tips/Collier	
Support Vehicle					Cement (47-lb. sack)	3	1.0"x2.0"		Profiler	
Waste Recycling Rinsate _____ Soil _____					Distilled water (gal)		Blank Casing, PVC (ft) .75"		1.0"	
Waterloo Profiling System					55-gallon Drum		1.0"		1.25"	
Soil Gas Sampler					5-gallon Pail		1.25"		1.75"	4
Technician (total hours worked)			Number of Borings	62	Bentonite: Blue Pellets, bucket		2.0"		EC-4	
Level C			Depths	44-71	Bentonite: 1/4" Pellets, bucket		Screen, PVC (ft) .75"	15	EC-5	
Tyvek Suits			Total Footage	218	Bentonite: Chips, sack		1.0"		Tubing (ft) TEF	HDPE
Respirator Cartridges			Grouting Completed	142	Sand (90-lb. Sack)		1.25"		Tedlar Bags	
Other			Water Samples Collected/Stops, (Number)	3	Well Box: Flush or Monument		2.0"		Core Boxes	
			Wells Installed							

COMMENTS: Drawings sands on final interval, 2500 PSI DP not clear, reentered rod, lowered again, but able to dislodge w/ interconnecting inner rods

CLIENT SIGNATURE _____ DATE 11/22/05 OPERATOR SIGNATURE _____ DATE 11/22/05

ANALYTICAL REPORT

Job Number: 720-617-1

Job Description: FMC-Newark

For:

Parsons Corporation
2121N. California Blvd., suite 500
Walnut Creek, CA 94596

Attention: Amy Gignac



Afsaneh Salimpour
Project Manager I
asalimpour@stl-inc.com
12/06/2005

Severn Trent Laboratories, Inc.

STL San Francisco 1220 Quarry Lane, Pleasanton, CA 94566
Tel 925-484-1919 Fax 925-484-1096 www.stl-inc.com

METHOD SUMMARY

Client: Parsons Corporation

Job Number: 720-617-1

Description	Lab Location	Method	Preparation Method
-------------	--------------	--------	--------------------

Matrix: Water

Volatile Organic Compounds by GC/MS (Low Level)
Purge-and-Trap

STL-SF
STL-SF

SW846 8260B

SW846 5030B

LAB REFERENCES:

STL-SF = STL-San Francisco

METHOD REFERENCES:

SW846 - "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986
And Its Updates.

METHOD / ANALYST SUMMARY

Client: Parsons Corporation

Job Number: 720-617-1

Method	Analyst	Analyst ID
SW846 8260B	Lew, Matthew	MLEW

SAMPLE SUMMARY

Client: Parsons Corporation

Job Number: 720-617-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
720-617-1	SB1-DW5-44'	Water	11/22/2005 1100	11/23/2005 1140
720-617-2	SB1-DW5-62'	Water	11/22/2005 1200	11/23/2005 1140
720-617-3	SB1-DW5-71'	Water	11/22/2005 1300	11/23/2005 1140
720-617-4TB	TB	Water	11/22/2005 0000	11/23/2005 1140
720-617-5	SB2-DW5-44	Water	11/23/2005 0753	11/23/2005 1140
720-617-6	SB2-DW5-62	Water	11/23/2005 0825	11/23/2005 1140
720-617-7	SB2-DW5-71	Water	11/23/2005 0904	11/23/2005 1140

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-44'

Lab Sample ID: 720-617-1

Date Sampled: 11/22/2005 1100

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120212.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1557		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1557		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-44'

Lab Sample ID: 720-617-1

Date Sampled: 11/22/2005 1100

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation: 5030B		Lab File ID: VA120212.D
Dilution: 1.0		Initial Weight/Volume: 40 mL
Date Analyzed: 12/02/2005 1557		Final Weight/Volume: 40 mL
Date Prepared: 12/02/2005 1557		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	79 - 118
1,2-Dichloroethane-d4	108	78 - 117
Toluene-d8	106	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-62'

Lab Sample ID: 720-617-2

Date Sampled: 11/22/2005 1200

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120213.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1632		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1632		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-62'

Lab Sample ID: 720-617-2

Date Sampled: 11/22/2005 1200

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120213.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1632		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1632		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	79 - 118
1,2-Dichloroethane-d4	113	78 - 117
Toluene-d8	105	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-71'

Lab Sample ID: 720-617-3

Date Sampled: 11/22/2005 1300

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120214.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1707		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1707		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB1-DW5-71'

Lab Sample ID: 720-617-3

Date Sampled: 11/22/2005 1300

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120214.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1707		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1707		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	109	79 - 118
1,2-Dichloroethane-d4	119	78 - 117
Toluene-d8	107	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: TB

Lab Sample ID: 720-617-4TB

Date Sampled: 11/22/2005 0000

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2493	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200512\120105\720-
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/01/2005 1217		Final Weight/Volume: 40 mL
Date Prepared:	12/01/2005 1217		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: TB

Lab Sample ID: 720-617-4TB

Date Sampled: 11/22/2005 0000

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2493	Instrument ID: Saturn 2K3
Preparation:	5030B		Lab File ID: d:\data\200512\120105\720-
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/01/2005 1217		Final Weight/Volume: 40 mL
Date Prepared:	12/01/2005 1217		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	105	79 - 118
1,2-Dichloroethane-d4	103	78 - 117
Toluene-d8	96	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-44

Lab Sample ID: 720-617-5

Date Sampled: 11/23/2005 0753

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120215.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1742		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1742		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-44

Lab Sample ID: 720-617-5

Date Sampled: 11/23/2005 0753

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120215.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1742		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1742		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	108	79 - 118
1,2-Dichloroethane-d4	109	78 - 117
Toluene-d8	104	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-62

Lab Sample ID: 720-617-6

Date Sampled: 11/23/2005 0825

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120216.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1817		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1817		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-62

Lab Sample ID: 720-617-6

Date Sampled: 11/23/2005 0825

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method: 8260B	Analysis Batch: 720-2538	Instrument ID: HP1	
Preparation: 5030B		Lab File ID: VA120216.D	
Dilution: 1.0		Initial Weight/Volume: 40 mL	
Date Analyzed: 12/02/2005 1817		Final Weight/Volume: 40 mL	
Date Prepared: 12/02/2005 1817			

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	106	79 - 118
1,2-Dichloroethane-d4	116	78 - 117
Toluene-d8	107	77 - 121

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-71

Lab Sample ID: 720-617-7

Date Sampled: 11/23/2005 0904

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120217.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1852		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1852		

Analyte	Result (ug/L)	Qualifier	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50
4-Isopropyltoluene	ND		1.0

Analytical Data

Client: Parsons Corporation

Job Number: 720-617-1

Client Sample ID: SB2-DW5-71

Lab Sample ID: 720-617-7

Date Sampled: 11/23/2005 0904

Client Matrix: Water

Date Received: 11/23/2005 1140

8260B Volatile Organic Compounds by GC/MS (Low Level)

Method:	8260B	Analysis Batch: 720-2538	Instrument ID: HP1
Preparation:	5030B		Lab File ID: VA120217.D
Dilution:	1.0		Initial Weight/Volume: 40 mL
Date Analyzed:	12/02/2005 1852		Final Weight/Volume: 40 mL
Date Prepared:	12/02/2005 1852		

Analyte	Result (ug/L)	Qualifier	RL
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	%Rec	Acceptance Limits
4-Bromofluorobenzene	107	79 - 118
1,2-Dichloroethane-d4	121	78 - 117
Toluene-d8	104	77 - 121

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Surrogate Recovery Report

8260B Volatile Organic Compounds by GC/MS (Low Level)

Client Matrix: Water

<u>Lab Sample ID</u>	<u>Client Sample</u>	<u>(BFB) (%Rec)</u>	<u>(TOL) (%Rec)</u>	<u>1,2-Dichl oroetha</u>
720-617-1	SB1-DW5-44'	108	106	108
720-617-2	SB1-DW5-62'	109	105	113
720-617-3	SB1-DW5-71'	109	107	119 *
720-617-4TB	TB	105	96	103
720-617-5	SB2-DW5-44	108	104	109
720-617-6	SB2-DW5-62	106	107	116
720-617-7	SB2-DW5-71	107	104	121 *
LCS 720-2493/17	LCS	97	97	106
LCS 720-2538/1	LCS	109	104	100
MB 720-2493/18	MB	106	97	99
MB 720-2538/2	MB	110	104	103

<u>Surrogate</u>	<u>Acceptance Limits</u>
(BFB) 4-Bromofluorobenzene	79 - 118
(TOL) Toluene-d8	77 - 121
1,2-Dichloroet 1,2-Dichloroethane-d4	78 - 117

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Method Blank - Batch: 720-2493

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2493/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2005 1111
Date Prepared: 12/01/2005 1111

Analysis Batch: 720-2493
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200512\120105\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Method Blank - Batch: 720-2493

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2493/18
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2005 1111
Date Prepared: 12/01/2005 1111

Analysis Batch: 720-2493
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200512\120105\MB
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	106	79 - 118
1,2-Dichloroethane-d4	99	78 - 117
Toluene-d8	97	77 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Laboratory Control Sample - Batch: 720-2493

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-2493/17
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/01/2005 1038
Date Prepared: 12/01/2005 1038

Analysis Batch: 720-2493
Prep Batch: N/A
Units: ug/L

Instrument ID: Saturn 2K3
Lab File ID: d:\data\200512\120105\LC:
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	16	79	69 - 129	
Chlorobenzene	20.0	18	89	61 - 121	
1,1-Dichloroethene	20.0	16	78	65 - 125	
Toluene	20.0	16	80	70 - 130	
Trichloroethene	20.0	15	75	74 - 134	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		97		79 - 118	
1,2-Dichloroethane-d4		106		78 - 117	
Toluene-d8		97		77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Method Blank - Batch: 720-2538

Method: 8260B
Preparation: 5030B

Lab Sample ID: MB 720-2538/2
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/02/2005 1042
Date Prepared: 12/02/2005 1042

Analysis Batch: 720-2538
Prep Batch: N/A
Units: ug/L

Instrument ID: HP1
Lab File ID: VA120203.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
Methyl tert-butyl ether	ND		5.0
Acetone	ND		50
Benzene	ND		0.50
Dichlorobromomethane	ND		0.50
Bromobenzene	ND		1.0
Chlorobromomethane	ND		1.0
Bromoform	ND		1.0
Bromomethane	ND		1.0
Methyl Ethyl Ketone	ND		50
n-Butylbenzene	ND		1.0
sec-Butylbenzene	ND		1.0
tert-Butylbenzene	ND		1.0
Carbon disulfide	ND		5.0
Carbon tetrachloride	ND		0.50
Chlorobenzene	ND		0.50
Chloroethane	ND		1.0
Chloroform	ND		1.0
Chloromethane	ND		1.0
2-Chlorotoluene	ND		0.50
4-Chlorotoluene	ND		0.50
Chlorodibromomethane	ND		0.50
1,2-Dichlorobenzene	ND		0.50
1,3-Dichlorobenzene	ND		0.50
1,4-Dichlorobenzene	ND		0.50
1,3-Dichloropropane	ND		1.0
1,1-Dichloropropene	ND		0.50
1,2-Dibromo-3-Chloropropane	ND		1.0
Ethylene Dibromide	ND		0.50
Dibromomethane	ND		0.50
Dichlorodifluoromethane	ND		0.50
1,1-Dichloroethane	ND		0.50
1,2-Dichloroethane	ND		0.50
1,1-Dichloroethene	ND		0.50
cis-1,2-Dichloroethene	ND		0.50
trans-1,2-Dichloroethene	ND		0.50
1,2-Dichloropropane	ND		0.50
cis-1,3-Dichloropropene	ND		0.50
trans-1,3-Dichloropropene	ND		0.50
Ethylbenzene	ND		0.50
Hexachlorobutadiene	ND		1.0
2-Hexanone	ND		50
Isopropylbenzene	ND		0.50

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Method Blank - Batch: 720-2538

**Method: 8260B
Preparation: 5030B**

Lab Sample ID: MB 720-2538/2
 Client Matrix: Water
 Dilution: 1.0
 Date Analyzed: 12/02/2005 1042
 Date Prepared: 12/02/2005 1042

Analysis Batch: 720-2538
 Prep Batch: N/A
 Units: ug/L

Instrument ID: HP1
 Lab File ID: VA120203.D
 Initial Weight/Volume: 40 mL
 Final Weight/Volume: 40 mL

Analyte	Result	Qual	RL
4-Isopropyltoluene	ND		1.0
Methylene Chloride	ND		5.0
methyl isobutyl ketone	ND		50
Naphthalene	ND		1.0
N-Propylbenzene	ND		1.0
Styrene	ND		0.50
1,1,1,2-Tetrachloroethane	ND		0.50
1,1,2,2-Tetrachloroethane	ND		0.50
Tetrachloroethene	ND		0.50
Toluene	ND		0.50
1,2,3-Trichlorobenzene	ND		1.0
1,2,4-Trichlorobenzene	ND		1.0
1,1,1-Trichloroethane	ND		0.50
1,1,2-Trichloroethane	ND		0.50
Trichloroethene	ND		0.50
Trichlorofluoromethane	ND		1.0
1,2,3-Trichloropropane	ND		0.50
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		0.50
1,2,4-Trimethylbenzene	ND		0.50
1,3,5-Trimethylbenzene	ND		0.50
Vinyl acetate	ND		25
Vinyl chloride	ND		0.50
Xylenes, Total	ND		1.0
2,2-Dichloropropane	ND		0.50

Surrogate	% Rec	Acceptance Limits
4-Bromofluorobenzene	110	79 - 118
1,2-Dichloroethane-d4	103	78 - 117
Toluene-d8	104	77 - 121

Calculations are performed before rounding to avoid round-off errors in calculated results.

Quality Control Results

Client: Parsons Corporation

Job Number: 720-617-1

Laboratory Control Sample - Batch: 720-2538

Method: 8260B
Preparation: 5030B

Lab Sample ID: LCS 720-2538/1
Client Matrix: Water
Dilution: 1.0
Date Analyzed: 12/02/2005 1006
Date Prepared: 12/02/2005 1006

Analysis Batch: 720-2538
Prep Batch: N/A
Units: ug/L

Instrument ID: HP1
Lab File ID: VA120202.D
Initial Weight/Volume: 40 mL
Final Weight/Volume: 40 mL

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
Benzene	20.0	18	88	69 - 129	
Chlorobenzene	20.0	18	88	61 - 121	
1,1-Dichloroethene	20.0	17	87	65 - 125	
Toluene	20.0	19	93	70 - 130	
Trichloroethene	20.0	18	89	74 - 134	
Surrogate		% Rec		Acceptance Limits	
4-Bromofluorobenzene		109		79 - 118	
1,2-Dichloroethane-d4		100		78 - 117	
Toluene-d8		104		77 - 121	

Calculations are performed before rounding to avoid round-off errors in calculated results.



2121 N. California Blvd., Suite 500
Walnut Creek, California 94596
Phone: (925) 941-3700
FAX: (925) 979-9781

720-617

CHAIN OF CUSTODY RECORD

114761

Project Information					NO. OF CONTAINERS	ANALYSIS REQUIRED/PRESERVATIVE							TURNAROUND TIME	Remarks
Project No.	Project Name/Location	Project Manager	Sampler(s): (Printed Name and Signature)											
441599	FMC - Newark - DW-5 Invest. ^{8187 EXTRE KPR 102}	Amy Gignoe	Andrew Criso ^{Tony Akmal} <i>[Signature]</i>		4	X	X						60	Metals include arsenic, Barium, Chromium, Nickel (and) Selenium
SB1-DWS-44'	SB1-DWS	11/22/05	1100	W										
SB1-DWS-62'	SB1-DWS	11/22/05	1200	W										
SB1-DWS-71'	SB1-DWS	11/22/05	1300	W										
TIB	-	11/22/05	-	W										
SB2-DWS-44	SB2-DWS	11/23/05	0753	W										
SB2-DWS-62	SB2-DWS	11/23/05	0825	W										
SB2-DWS-71	SB2-DWS	11/23/05	0904	W										
RELINQUISHED BY: (SIGNATURE)					DATE	TIME	RECEIVED BY: (SIGNATURE)					NOTES:		
<i>[Signature]</i>					11/23/05	10:45	<i>[Signature]</i>					Hold Metals containers - Do Not Analyze without direction from Amy Gignoe		
RELINQUISHED BY: (SIGNATURE)					DATE	TIME	RECEIVED FOR LAB BY: (SIGNATURE)					DATE	TIME	REMARKS/COMMENTS:
<i>[Signature]</i>					11/23	11:40	<i>[Signature]</i>							

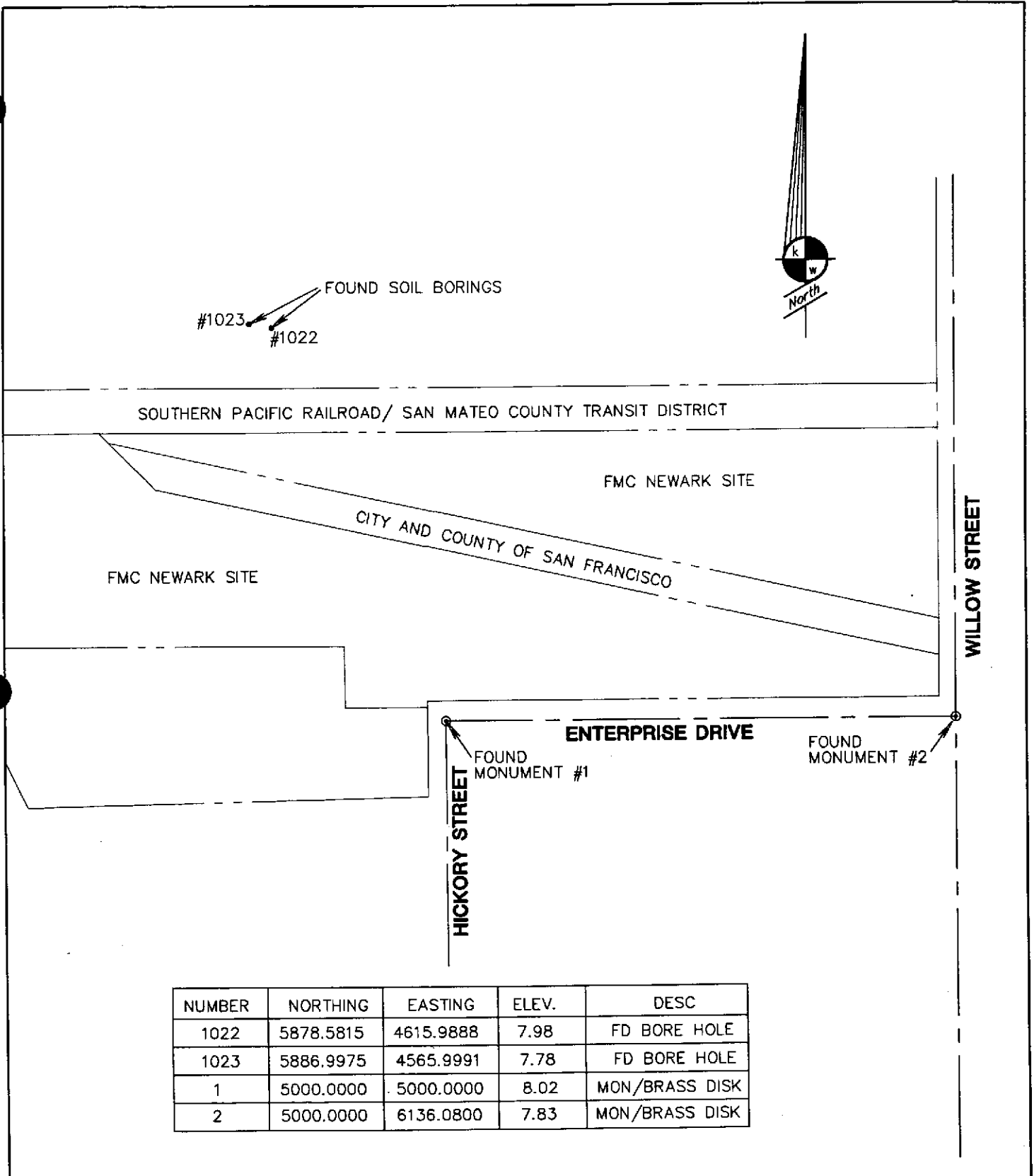
LOGIN SAMPLE RECEIPT CHECK LIST

Client: Parsons Corporation

Job Number: 720-617-1

Login Number: 617

<u>Question</u>	<u>T/F/NA</u>	<u>Comment</u>
Radioactivity either was not measured or, if measured, is at or below background	NA	
The cooler's custody seal, if present.	NA	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present	True	
Samples do not require splitting or compositing	True	



NUMBER	NORTHING	EASTING	ELEV.	DESC
1022	5878.5815	4615.9888	7.98	FD BORE HOLE
1023	5886.9975	4565.9991	7.78	FD BORE HOLE
1	5000.0000	5000.0000	8.02	MON/BRASS DISK
2	5000.0000	6136.0800	7.83	MON/BRASS DISK

EXHIBIT FOR SOIL BORING LOCATIONS
FOR: PARSONS

NEWARK

CALIFORNIA



KIER & WRIGHT
CIVIL ENGINEERS & SURVEYORS, INC.
3350 Scott Boulevard, Building 22 (408)727-6665
Santa Clara, California 95054 FAX (408)727-5641

DATE DEC., 2005

SCALE 1"=300'

DR. BY CCB

JOB 98081-9

SHEET NO.

1 OF 1