SDMS Document
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NEWARK BAY STUDY AREA

ADDITIONAL SITES AND CANDIDATE PRPS FOR THE NEWARK BAY STUDY AREA

VOLUME II OF II

EVIDENCE CONCERNING:

NUODEX INC.

PREPARED BY:
TIERRA SOLUTIONS, INC.

SUBMITTED TO:
USEPA REGION II

OCTOBER 18, 2006

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ECM

environmental compliance monitoring inc.

November 11, 2005

Mr. Michael Buriani
Bureau of Environmental Evaluation
Cleanup and Responsibility Assessment
Division of Responsible Party Site Remediation
New Jersey Department of Environmental Protection
401 East State Street, 5th floor
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RE: PROGRESS REPORT - JANUARY- JUNE 2005
DEGUSSA CORPORATION (FORMERLY CREANOVA INC.)
ELIZABETH, NEW JERSEY
ISRA CASE NO. 85374
ECM Project # 1085

Dear Mr. Buriani:

Please find attached the Progress Report incorporating the period January through June 2005 for the above-referenced site. Two copies of the Progress Report and one copy of the analytical data packages (Appendix 3) are enclosed. The report describes the technical assessment activities and ground water recovery and treatment system operations conducted as part of the current New Jersey Department of Environmental Protection (NJDEP) Industrial Site Recovery Act (ISRA) case (No. 85374).

The Progress Report Section 4.0 *NJDEP Notifications and Action Requirements* presents the response to the NJDEP technical review letter dated July 12, 2005 and incorporates technical assessment activities that were agreed upon with the NJDEP during the on-site meeting held on October 6, 2005. Additionally, as discussed with the NJDEP during the on-site meeting, Appendix 6 presents the site development plans including engineering cap specification cross-sections and the remedial action plan for the former Area C.

If you have any questions pertaining to this progress report, please do not hesitate to contact Andrew Kruczek at (973) 541-8050 or our office.

Sincerely,

Environmental Compliance Monitoring, Inc.

Bruce Manganiello
Operations Manager

cc: A. Kruczek, Degussa
J. Hodgson, Degussa w/o attachments
ECM Project File 1085-C

1085-Jan.-June.2005SPR-Cvr.Ltr

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ECM

environmental compliance monitoring, inc.

SEMI-ANNUAL PROGRESS REPORT

FOR

JANUARY THROUGH JUNE 2005

FORMER (NUODEX, INC.) SITE

DEGUSSA CORPORATION

ELIZABETH, NEW JERSEY

NJDEP ISRA CASE #85374

PREPARED FOR:

DEGUSSA CORPORATION

379 INTERPACE PARKWAY

PARSIPPANY, NEW JERSEY

ECM PROJECT NO. 1085

NOVEMBER 2005

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TABLE OF CONTENTS

1.0 Introduction 1
2.0 Ground Water Assessment 2
2.1 Ground Water Monitoring Program 2
2.1.1 Synoptic Water Level Measurements 2
2.1.2 Monitoring Well Sampling 2
2.2 Results of Ground Water Assessment 3
2.2.1 Hydrogeological Conditions 3
2.2.2 Ground Water Monitoring Results 5
2.2.2.1 Volatile Organic Compounds 5
2.2.2.2 Semi-Volatile Organic Compounds 8
2.2.2.3 Priority Pollutant Metals 8
2.3 Ground Water Monitoring Conclusions 9
2.3.1 Ground Water Flow and Hydraulic Control 9
2.3.2 Volatile Organic Compounds 9
2.3.3 Semi-Volatile Organic Compounds 10
2.3.4 Priority Pollutant Metals 10
2.3.5 Monitoring Wells Located at 833 Magnolia Avenue 11
2.4 Proposed Technical Assessment Activities 12
3.0 GWTS Operation and Performance 14
3.1 Ground Water Control 14
3.2 GWTS Performance, Operation, and Maintenance 14
3.3 Process Volume 15
3.4 Analytical Evaluation 15
3.5 Toxicity Evaluation 16
4.0 NJDEP Notifications and Action Requirements 18
4.1 Contaminant Delineation at 833 Magnolia Avenue (Items 1, 2 and 3) 18
4.2 Tentatively Identified Compound Evaluation (Item 4) 20
4.3 Contour Maps and Contaminant Isopleths (Items 5 and 6) 20
4.4 Contaminant Delineation at 830 Magnolia Avenue (Item 7) 20
4.5 Deep Zone Recovery Operations and Chronic Toxicity (Item 8) 22
4.5.1 Discharge to Ground Water 22
4.5.2 Remedial Alternatives 24
4.6 Site Development Plans (Item 9) 25
5.0 Implementation Schedule 27

TABLES

Table 1	Summary of Monitoring Well Sampling and Analytical Plan – May 2005
Table 2	Water Table Elevations – March 8, 2005
Table 3	Water Table Elevations – May 23, 2005
Table 4	Ground Water Analytical Hits Summary - April 2001 - May 2005 (Tables 4.1 through 4.30)
Table 5	Summary of NJPDES – DSW Effluent Monitoring Results
Table 6	Delineation Analytical Summary - 833 Magnolia Avenue (Tables 6.1 through 6.5)
Table 7	Summary of NJPDES-DSW Effluent Monitoring Results Compared to NJDEP Ground Water Quality Standards August 2001 – June 2005

FIGURES

Figure 1	Monitoring Well, Recovery Well and Recovery Trench Locations - 830 Magnolia Avenue
Figure 2	Monitoring Well Locations – 833 Magnolia Avenue
Figure 3	Ground Water Contour Map – Shallow Zone – March 8, 2005
Figure 4	Ground Water Contour Map – Shallow Zone – May 23, 2005
Figure 5	Ground Water Contour Map – Deep Zone – March 8, 2005
Figure 6	Ground Water Contour Map – Deep Zone – May 23, 2005
Figure 7	Summary of Analytical Results Reported Above GWQS (830 Magnolia Avenue) – May 2005
Figure 8	Summary of Analytical Results Reported Above GWQS (833 Magnolia Avenue) and Proposed Monitoring Wells– May 2005
Figure 9	Delineation Monitoring Well Locations – 830 Magnolia Avenue

APPENDICES

Appendix 1	Monitoring Well Sampling Field Data Sheets (including low flow sheets)
Appendix 2	Ground Water Contour Map Reporting Forms - March 8, 2005 and May 23, 2005
Appendix 3	Laboratory Reports, Including Summary Sheets, Quality Assurance/Quality Control (QA/QC) Documentation, and 3½" Electronic Data Deliverable Diskette
Appendix 4	NJDEP Technical Review Letter Dated July 12, 2005 Request For NJDEP Meeting Letter Dated September 14, 2005
Appendix 5	Off-site Access Request Letters
Appendix 6	Site Development Plans and Remedial Action Plan - Area C
Appendix 7	Monitoring Well Abandonment Reports

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1.0 INTRODUCTION

This document has been prepared by Environmental Compliance Monitoring, Inc. (ECM), as the Semi-Annual Progress Report (SAPR; incorporating January through June 2005) for the former Nuodex, Inc. site, located at 830 and 833 Magnolia Avenue in Elizabeth, Union County, New Jersey. This report has been prepared in accordance with the New Jersey Department of Environmental Protection (NJDEP) Industrial Site Recovery Act (ISRA) Case No. 85374 and the NJDEP Technical Requirements for Site Remediation (N.J.A.C. 7:26E, et seq.; February 2003). This report summarizes the activities and results of the ground water monitoring program and the operation and performance of the on-site ground water treatment system (GWTS) for the reporting period. Additionally, this progress report incorporates a response to the NJDEP technical review letter dated July 12, 2005.

The following activities were completed during the reporting period:

- Operation, maintenance, and performance monitoring of the GWTS;
- The collection of quarterly synoptic ground water elevation measurements from site monitoring wells during March and May 2005;
- Ground water monitoring event including collection and laboratory analysis of ground water samples from a total of 28 ground water monitoring wells during May 2005 (annual monitoring program);
- Preliminary ground water delineation efforts conducted at 833 Magnolia Avenue via the installation and sampling of five temporary ground water well points;
- An evaluation of current ground water quality and flow conditions beneath the site;
- Response to the NJDEP technical review letter dated July 12, 2005; and,
- The preparation and submission of this SAPR to the NJDEP.

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2.0 GROUND WATER ASSESSMENT

2.1 GROUND WATER MONITORING PROGRAM

The ground water monitoring program was conducted in accordance with the proposed monitoring schedule presented in the October 20, 2004 Annual Progress Report (APR) for the period July 2003 through June 2004, which was subsequently approved by the NJDEP in their January 5, 2005 technical review letter. The monitoring program for this reporting period included the quarterly collection of synoptic water level measurements, annual ground water monitoring event, and laboratory analyses. The following sections outline the procedures used in the collection of the water elevations and ground water quality data.

2.1.1 SYNOPTIC WATER LEVEL MEASUREMENTS

During this reporting period, water level measurements were collected from the on-site monitoring and recovery wells on March 8 and May 23, 2005. Water levels were measured using an electronic water level indicator from surveyed locations marked on each of the wells. Figure 1 depicts the monitoring well, recovery well and trench locations at 830 Magnolia Avenue. Figure 2 depicts the monitoring well locations at 833 Magnolia Avenue.

The following procedures were used during collection of the synoptic water level measurements:

- Upon arrival at the well, the general condition and security of the well was observed and documented.
- The well was unlocked, opened, and allowed to vent.
- The static water level was measured from the top of the marked inner casing with an electronic water level meter and was recorded on the well inspection log.
- Subsequent to the recording of the water level, the well was secured and locked.

2.1.2 MONITORING WELL SAMPLING

Ground water monitoring during the reporting period consisted of the collection of ground water samples from 28 monitoring wells during the May 23 through 25, 2005 annual monitoring event. Based on the NJDEP-approved analytical requirements for each monitoring well, the samples were submitted to Severn Trent Laboratories, Inc. (STL of Edison, New Jersey NJDEP Certification No. 12028) for analysis of volatile organic compounds plus a forward library search of 10 compounds (VOC+10) via EPA Method 624, semi-volatile (base neutral) compounds plus a forward library search of 15 compounds (BN+15) via EPA Method 625, and priority pollutant metals (PP Metals), as summarized in the table below. In accordance with NJDEP guidance for

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sites with long-term ground water monitoring programs, field and trip blanks were not incorporated during the aforementioned monitoring event. Monitoring well MW-13S was not sampled during May 2005 due to the compromised condition of the well observed during the monitoring event. Monitoring well MW-13S will likely be abandoned and replaced during the next reporting period.

Per the direction of the NJDEP Case Management team, ground water sampling activities were conducted using the NJDEP *Field Sampling Procedures Manual* and/or the EPA *Low Stress (low flow) Purging and Sampling Procedures for the Collection of Ground Water Samples from Monitoring Wells.* Specifically, shallow zone ground water monitoring wells were sampled for all targeted parameters via the EPA *Low Stress (low flow) Purging and Sampling Procedures for the Collection of Ground Water Samples from Monitoring Wells.* As the deep zone wells were constructed of 15-feet of well screen, these wells were purged and sampled in accordance with the NJDEP *Field Sampling Procedures Manual*, with the exception of PP Metals (via *low flow*). The sampling plan for the May 2005 monitoring event is presented on Table 1.

The monitoring well purging and sampling procedures were consistent with the previous ground water monitoring events. The details were presented in previous progress reports and therefore, are not reiterated herein. The *Low Flow Well Purging-Field Water Quality Measurement Forms* and *Monitoring Well Sampling Field Data Sheets* are presented in Appendix 1.

2.2 Results of Ground Water Assessment

This section presents the findings of the ground water monitoring tasks and associated technical evaluations for the period of January through June 2005.

2.2.1 Hydrogeological Conditions

Water level measurements were collected in the on-site monitoring wells to assess the effects of ground water recovery on the hydraulic gradient beneath the site. As reported in previous SAPR submissions, GWTS operations were temporarily suspended during October 2002 through January 2003 as a result of a chronic toxicity upset of the New Jersey Pollution Discharge Elimination System (NJPDES) permit and subsequent toxicity assessment. The toxicity assessment indicated that the condition may be associated with ground water quality recovered from the deep zone. Recovery of ground water from the shallow zone subsequently resumed on February 7, 2003.

Water level elevations collected on March 8 and May 23, 2005 are presented on Tables 2 and 3,

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respectively. The NJDEP-required Ground Water Contour Map Reporting Forms are presented as Appendix 2. Evaluation of ground water elevations and ground water flow conditions for each shallow and deep hydrogeologic zone is presented in the following subsections.

Shallow Zone

Review of the ground water elevation data collected during this reporting period indicated that water levels outside the general area of pumping influences generally measured between 22-feet and 25-feet above mean sea level (MSL) in the shallow monitoring zone, with lower elevations noted toward the recovery network. The general ground water flow conditions associated with this zone is shown on the Shallow Zone Ground Water Contour Maps (Figures 3 and 4). Review of the shallow ground water contour maps indicated that the local direction of ground water flow is generally towards the east.

The resultant ground water contours for this reporting period documented the influence of pumping associated with the ground water recovery system, which indicated hydraulic control below the site, including pumping influences that extend off-site, beyond the northern, eastern, and southern property boundaries. Review of the ground water contours for March 8 and May 23, 2005 (outside the areas of the evident pumping influences) exhibited hydraulic gradients of approximately 0.03 feet per linear foot (ft/ft) to 0.09 ft/ft, respectively, in the central portion of the site. The shallower gradient observed during March 8, 2005 is attributed to a significant precipitation event during March 7 and 8, 2005. Steeply decreasing contours are apparent towards the recovery trenches and sumps, which is consistent with the data measured for this zone during previous periods of GWTS operations.

Deep Zone

Review of the deep zone ground water elevation data collected during this reporting period indicated that water levels within the ground water monitoring network were measured generally between 7.5-feet and 10-feet above mean sea level (MSL) in the deep monitoring zone. The general ground water flow condition associated with this zone is shown on the Deep Zone Ground Water Contour Maps (Figures 5 and 6).

As referenced above, recovery of ground water from the deep zone recovery wells was suspended on October 2002 as a result of an apparent toxicity condition. The absence of pumping influences and increased ground water elevations was evident in comparison to previous periods of operation. Additionally, the local ground water flow in the deep zone appeared to be towards the east as compared to a southeasterly flow direction noted during

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periods of active recovery operations.

2.2.2 Ground Water Monitoring Results

During this reporting period, ground water monitoring was conducted during May 2005 as proposed in the APR for July 2003 through June 2004, which was subsequently approved by the NJDEP in their technical review letter dated January 5, 2005.

The reported analytical results for the monitoring wells sampled during this reporting period are summarized on Tables 4.1 through 4.30. A summary of the May 2005 analytical results reported at levels above the NJDEP-GWQS is presented on Figures 7 (830 Magnolia Avenue) and 8 (833 Magnolia Avenue). The analytical data package, inclusive of electronic data deliverables, is presented in Appendix 3. Analytical results from the wells sampled within the shallow and deep monitoring zones during this reporting period are outlined in the subsections below.

As requested by the NJDEP in their technical review letter dated July 12, 2005, volatile and semi-volatile tentatively identified compounds (TICs) reported in the wells sampled were evaluated to the NJDEP Interim Generic Criteria for Carcinogenic Compounds. The TICs with reported concentrations greater than 5 µg/l were individually assessed for carcinogenity, per N.J.A.C. 7:9C-1.4., and as listed in Table A of NJDEP *Basis and Background for Criteria Derivation and Practical Quantitation Levels* (September 2004). Based on this determination, the appropriate NJDEP-GWQS for Synthetic Organic Chemicals (SOCs) was utilized as summarized below.

NJDEP Interim Generic Criteria for SOCs	
Constituent	GWQS (µg/l)
SOCs with carcinogenic evidence	5 µg/l (individual) / 25 µg/l (total)
SOCs lacking carcinogenic evidence	100 µg/l (individual) / 500 µg/l (total)

2.2.2.1 Volatile Organic Compounds

Shallow Zone

Review of the analytical results indicated a continued decrease in the overall reported VO compound levels since inception of the current ground water monitoring program (April 2001). Specifically, nine of the 14 wells sampled during May 2005 exhibited a 90% average reduction in the reported levels of benzene since April 2001. During this reporting period, the majority of targeted VO compounds were reported as not detected at levels above the laboratory method detection limits (MDLs) in the shallow well samples. Of the 14 shallow zone wells sampled during May 2005, eight wells reported VO compounds at levels below the NJDEP-GWQS or not

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detected above the laboratory MDLs. The detections that were reported were generally limited to five VO compounds: benzene, toluene, ethylbenzene, xylene (BTEX), and chlorobenzene. Of the five reported VO compounds, benzene was the only compound reported above the NJDEP-GWQS of 1.0 µg/l at levels ranging from 1.9 µg/l (MW-14S) to 76 µg/l (MW-17S).

Review of the analytical data for the monitoring wells (MW-7S, MW-12S, and MW-14S) located at 833 Magnolia Avenue indicated the majority of targeted VO compounds were reported as not detected at levels above the laboratory MDLs. The reported detections were generally limited to BTEX and chlorobenzene. Of the five reported VO compounds, benzene was the only compound reported above the NJDEP-GWQS of 1.0 µg/l at levels ranging from 1.9 µg/l (MW-14S) to 74 µg/l (MW-12S). The reported concentration of benzene in MW-7S, MW-12S, and MW-14S decreased 43%, 66%, and 10%, respectively, since April 2001.

As previously discussed the VOC-TICs were evaluated to the NJDEP Interim Generic Criteria for Carcinogenic Compounds, pursuant to N.J.A.C. 7:9C-1.4 Table A - *Basis and Background for Criteria Derivation and Practical Quantitation Levels* (September 2004). Based on the evaluation it was determined that the reported VO-TICs were identified as not having evidence of carcinogenicity. VOC-TIC estimated levels were below the NJDEP-GWQS for individual (100 µg/l) and total SOCs (500 µg/l), or not detected in 13 of the 14 shallow zone monitoring wells sampled during this reporting period. Monitoring well MW-15S had a reported estimated concentration of 555 µg/l marginally above the total SOC criteria. A consistent reduction in the overall estimated concentrations of VOC–TICs is evident from inception of the monitoring program (April 2001) to May 2005. VO-TICs were not detected in seven wells (MW-4S, MW-6S, MW-16S, MW-17S, MW-18S, MW-19S, and MW-21S) during May 2005 that reported estimated TIC concentrations during previous reporting periods.

Deep Zone

Review of the analytical results for the deep zone monitoring wells sampled during the reporting period indicated that reported VO compounds were limited to BTEX compounds and chlorobenzene. Of these VO compounds, benzene and chlorobenzene were the only compounds reported above the NJDEP-GWQS. Benzene was reported at levels above the NJDEP-GWQS of 1.0 µg/l in ten of the 13 deep zone wells sampled and analyzed for VO compounds during May 2005. The reported levels ranged from 4.1 µg/l (downgradient well MW-13D) to 35,000 µg/l (upgradient well MW-17D). The reported benzene levels have generally fluctuated since the suspension of GWTS operation from the deep zone recovery wells. However, select downgradient wells (MW-10D and MW-13D) located in the northeast quadrant of the site reported decreasing VO compound levels. Specifically, benzene levels reported in these wells during May

2005 decreased 81% in MW-10D and 51% in MW-13D since April 2001. Chlorobenzene was reported at levels below the NJDEP-GWQS or not detected above the laboratory MDLs in nine of the 13 deep zone wells sampled and analyzed for VO compounds during May 2005. Chlorobenzene levels reported above the NJDEP-GWQS of 50 µg/l ranged from 120 µg/l (MW-1D) to 810 µg/l (MW-18D). The reported levels of chlorobenzene in the deep zone monitoring wells have generally fluctuated over the course of the monitoring program. The fluctuation is attributed to the temporary suspension of operations from the deep zone recovery wells.

Additionally, it should be noted that the MDLs for several VO compounds were reported marginally above the NJDEP-GWQS for five of the deep well samples (Appendix 3). The elevated MDLs were due to the laboratory sample dilution, which was required as a result of the elevated benzene concentrations reported in those samples.

Based on the evaluation of VOC-TICs, pursuant to N.J.A.C. 79C-1.4 and compared to Table A of NJDEP *Basis and Background for Criteria Derivation and Practical Quantitation Levels* (September 2004), it was determined that no reported VO-TICs were identified as having evidence of carcinogenicity. As such, the VOC-TICs were compared to the NJDEP-GWQS for individual SOCs of 100 µg/l and total VOCs of 500 µg/l. The majority of target VO-TICs were reported at levels below the NJDEP-GWQS for SOCs or not detected. Levels reported above the NJDEP-GWQS were limited to four deep zone wells as summarized below:

- Total VOC-TICs was reported above the NJDEP-GWQS of 500 µg/l in well MW-15D at an estimated concentration of 1,076 µg/l.
- Total VOC-TICs was reported above the NJDEP-GWQS of 500 µg/l in well MW-21D at an estimated concentration of 3,515 µg/l.
- Two VOC-TIC compounds (trimethylbenzene isomer and 2,3-dihydro-1H-indene) were reported above the NJDEP-GWQS for individual SOCs of 100 µg/l in well MW-18D at estimated concentrations of 260 µg/l and 180 µg/l, respectively.
- Two VOC-TIC compounds (2-pentanone, 4,4-dimethyl- and C7H14O ketone) were reported above the NJDEP-GWQS for individual SOCs of 100 µg/l in well MW-22D at estimated concentrations of 180 µg/l and 150 µg/l, respectively.

The overall level of reported VOC-TICs has continuously decreased since inception of the monitoring program. Eight of the 13 wells sampled during May 2005 reported an 85% average decrease in estimated TIC concentrations, in comparison to April 2001, with no reported detections during May 2005 in five of the eight wells.

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2.2.2.2 Semi-Volatile Organic Compounds

Six shallow and five deep zone wells were sampled and analyzed for BN+15 during May 2005. Review of the analytical results indicated that no BN compounds were reported above the NJDEP-GWQS, with the exception of benzo(a)anthracene and benzo(a)pyrene. These compounds were reported above the NJDEP-GWQS of 0.2 µg/l for these compounds in MW-18D at levels of 0.7 µg/l and 0.4 µg/l, respectively. The majority of the target BN compounds were reported at levels well below the NJDEP-GWQS or not detected above the laboratory MDLs. Reported BN compounds have remained at low levels below the NJDEP-GWQS since inception of the monitoring program, with the exception of MW-18D referenced above.

BN-TICs were compared to the NJDEP Interim Generic Criteria for Carcinogenic Compounds, as referenced above. Based on the evaluation of BN-TICs, pursuant to N.J.A.C. 7:9C-1.4 and compared to Table A of NJDEP *Basis and Background for Criteria Derivation and Practical Quantitation Levels* (September 2004), it was determined that no reported BN-TICs were identified as having evidence of carcinogenicity. BN-TICs reported in the shallow and deep zone wells were evaluated as lacking evidence of carcinogenicity. BN-TICs were reported above the NJDEP-GWQS of 500 µg/l for total SOCs in ten of eleven wells analyzed for BN compounds, at estimated concentrations ranging from 518.3 µg/l (MW-14S) and 9,796 µg/l (MW-7S). BN-TICs were reported as not detected in MW-21S. Nine of the eleven wells analyzed for BN compounds reported a 58% average decrease in the estimated concentration of BN-TICs from April 2001 through May 2005.

2.2.2.3 Priority Pollutant Metals

Per the NJDEP-approved monitoring plan, 27 monitoring wells were sampled and analyzed for PP Metals during May 2005. Review of the PP metals analytical results indicated a significant overall decrease in reported levels has been sustained from November 2001 to May 2005. Seventeen of the 27 wells analyzed for PP Metals reported levels below the NJDEP-GWQS. Of these 17 monitoring wells, three wells (MW-1S, MW-21S, and MW-10D) exhibited reductions in metals concentrations from levels previously reported above the NJDEP-GWQS to levels below the NJDEP-GWQS or not detected. Metal concentrations were reported at levels above the NJDEP-GWQS in the remaining 10 monitoring wells (five shallow and five deep) analyzed for PP Metals during May 2005.

The overall reduction of reported metal concentrations in the ground water samples is primarily attributed to the reduction of turbidity during sample collection via the EPA low flow sampling methodology. This methodology may present a more accurate representation of metal

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concentrations in ground water by reducing the amount of suspended particulates in the samples. A summary of the analytical results is presented on Tables 4.1 through 4.30.

2.3 Ground Water Monitoring Conclusions

2.3.1 Ground Water Flow and Hydraulic Control

The synoptic water level data and resulting ground water contour maps for the shallow zone during the reporting period document the continued effective pumping influence of the ground water recovery system on ground water recovery below the site and adjacent off-site areas during system operations. Specifically, steeply decreasing contours are apparent towards the recovery trenches and sumps.

As previously stated, recovery of ground water from the deep zone recovery wells has been suspended since October 2002. The system was suspended to allow evaluation of a toxicity condition in the deep recovery zone. It is anticipated that hydraulic control of the deep zone below the site and immediately adjacent areas will resume subsequent to re-activation of the deep zone recovery wells.

It has been documented during previous reporting periods that deep recovery well pumping effectively maintains hydraulic control, restricts off-site contaminant migration and provides effective contaminant capture during deep recovery operation. At this time, the deep zone monitoring wells will continue to be monitored in accordance with the sampling plan presented under Section 2.4, with the anticipated re-activation of the deep zone ground water recovery network.

2.3.2 Volatile Organic Compounds

Shallow Zone

VO compounds reported at levels above the NJDEP-GWQS in the shallow zone wells was limited to benzene and VOC-TICs, which is consistent with previous monitoring periods. A comparison of the results from the initial baseline sampling (April 2001) indicated a 90% average reduction in the reported levels of benzene and in nine of the 14 shallow wells sampled during May 2005. In addition, an 85% average reduction in the reported estimated VO-TICs was noted in nine of the 14 wells sampled. Of the 14 shallow zone wells sampled during May 2005, eight wells reported VO compounds at levels below the NJDEP-GWQS or not detected above the laboratory MDLs.

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Deep Zone

VO compounds reported at levels above the NJDEP-GWQS in the deep zone wells was limited to benzene, chlorobenzene, and VO-TICs, which is consistent with previous monitoring events. The fluctuation of VO compound levels noted in several deep zone monitoring wells is attributed to the temporary suspension of operations from the deep zone recovery wells, thus reducing the effectiveness of contaminant capture during periods of suspension. The data trends reported in these wells during periods of system suspension differ from those reported during periods of typical recovery from the deep zone. However, select downgradient wells (MW-10D and MW-13D) located in the northeast quadrant of the site reported decreasing VO compound levels. Specifically, benzene levels reported in these wells during May 2005 decreased 81% in MW-10D and 51% in MW-13D since April 2001. In addition, the overall level of reported VOC-TICs has continuously decreased since inception of the monitoring program. Eight of the 13 wells sampled during May 2005 reported an 85% average decrease in estimated TIC concentrations, in comparison to April 2001, with no reported detections during May 2005 in five of the eight wells.

2.3.3 Semi-Volatile Organic Compounds

The majority of the target BN compounds were reported at levels well below the NJDEP-GWQS or not detected above the laboratory MDLs, which is consistent with previous reporting periods. BN compounds reported above the NJDEP-GWQS was limited to benzo(a)anthracene and benzo(a)pyrene reported at levels marginally above the NJDEP-GWQS in MW-18D. BN-TICs were reported above the NJDEP-GWQS of 500 µg/l for total SOCs in ten of eleven wells analyzed for BN compounds, at estimated concentrations ranging from 518.3 µg/l and 9,796 µg/l. However, a significant reduction has been noted in the overall BN-TIC concentrations since the inception of the monitoring program, with a 58% average decrease in nine of eleven wells sampled this reporting period. It is anticipated that the level of semi-volatile compounds will continue to decrease as a result of hydraulic control and contaminant capture from the ground water recovery network.

2.3.4 Priority Pollutant Metals

To evaluate the level of metals reported in the monitoring well samples during previous monitoring events, ECM continued sampling of the site wells (November 2001 through May 2005) via EPA *Low Stress (low flow) Purging and Sampling Procedures for the Collection of Ground Water Samples from Monitoring Wells*. A comparison of the analytical results from the inception of the monitoring program to present indicated a significant decrease in metal concentrations. These reductions were most apparent during the low flow sampling events. Sample collection and analyses for PP Metals will continue in select site wells in accordance with the monitoring plan presented under Section 2.4.

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2.3.5 Monitoring Wells Located at 833 Magnolia Avenue

Review of the analytical data for the shallow wells located at 833 Magnolia Avenue indicated that target VO compounds reported at levels above the NJDEP-GWQS has been limited to benzene since inception of the monitoring program. The reported concentration of benzene in MW-7S, MW-12S, and MW-14S decreased 43%, 66%, and 10%, respectively, since April 2001. Target BN compounds have remained at low levels below the NJDEP-GWQS or not detected above the laboratory MDLs for these wells. BN-TICs have generally remained at levels above the NJDEP-GWQS for total SOCs; however, a 77% average decrease was noted in the estimated BN-TIC concentrations in these wells since inception of the monitoring program. As presented under Section 2.4, the BN+15 monitoring frequency (bolded to represent a change) for MW-12S will increase from annually to semi-annual to further evaluate the reported BN-TICs.

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2.4 Proposed Technical Assessment Activities

As approved in the NJDEP technical review letters dated January 5, 2005, the ground water monitoring program at the site will be conducted as follows:

Summary of Monitoring Well Sampling and Analytical Plan Degussa– Elizabeth, NJ ECM Project #1085		
Well ID	**Sampling Frequency**	**Analytical Parameters**
MW-1S	Annually	VO+10, PP Metals
MW-1D	Semi-Annual	VO+10, PP Metals (A)
MW-1DD	Annually	VO+10, PP Metals
MW-4S	Annually	VO+10, PP Metals
MW-4D	Semi-Annual	VO+10, PP Metals, BN+15 (A)
MW-6S	Annually	VO+10, PP Metals
MW-7S	Semi-Annual	VO+10, PP Metals, BN+15
MW-7D	Annually	PP Metals
MW-10S	Annual	VO+10, PP Metals, BN+15 (A)
MW-10D	Semi-Annual	VO+10, PP Metals
MW-12S	**Semi-Annual**	VO+10, PP Metals (A), **BN+15**
MW-13S	Semi-Annual	VO+10, PP Metals, BN+15 (A)
MW-13D	Semi-Annual	VO+10, PP Metals
MW-14S	Semi-Annual	VO+10, PP Metals, BN+15
MW-15S	Semi-Annual	VO+10, PP Metals, BN+15 (A)
MW-15D	Semi-Annual	VO+10, PP Metals (A), BN+15 (A)
MW-16S	Semi-Annual	VO+10, PP Metals
MW-16D	Annually	VO+10, PP Metals
MW-17S	Semi-Annual	VO+10, PP Metals
MW-17D	Semi-Annual	VO+10, PP Metals (A), BN+15 (A)
MW-18S	Annually	VO+10, PP Metals
MW-18D	Semi-Annual	VO+10, PP Metals (A), BN+15 (A)
MW-19S	Semi-Annual	VO+10, PP Metals
MW-19D	Semi-Annual	VO+10, PP Metals (A)
MW-20S	Annual	VO+10, PP Metals
MW-20D	Annually	VO+10, PP Metals
MW-21S	Annually	VO+10, PP Metals, BN+15
MW-21D	Semi-Annual	VO+10, PP Metals (A), BN+15 (A)
MW-22D	Semi-Annual	VO+10

VO+10 = Volatile Organic Compounds plus a forward library search of 10 compounds.
BN+15 = Base Neutral Compounds plus a forward library search of 15 compounds.
PP Metals = Priority Pollutant Metals. (A)=Annually

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Please note that the NJDEP approved re-location of three monitoring well couplets (MW-17S & D, MW-19S & D, and MW-20S & D) which were located within the proposed site development building footprint (NJDEP electronic mail entitled: Nuodex–E85370 dated March 30, 2005). During May 2005 the three well couplets were abandoned in anticipation of site development. The well abandonment reports are presented in Appendix 7. These wells will be re-installed at the location approved by the NJDEP subsequent to the construction of the building foundation/floor. As these wells will not be re-installed until 2006 they will not be sampled during the semi-annual monitoring event during December 2005.

The monitoring program will include the quarterly measurement of synoptic water levels, semi-annual ground water sampling and analyses, and semi-annual reporting. In addition, ground water quality conditions and data trends for the 833 Magnolia Avenue property monitoring wells (MW-7S, MW-7D, MW-12S, and MW-14S) will continue to be monitored in accordance with the summary table presented above. As presented under Section 4.1 of this document, ground water delineation is proposed for the 833 Magnolia Avenue property.

To maintain continuity in the forthcoming monitoring events, ECM will continue to use the NJDEP *Field Sampling Procedures Manual* and/or the EPA *Low Stress (low flow) Purging and Sampling Procedures for the Collection of Ground Water Samples from Monitoring Wells.*

The implementation schedule for future activities is presented in Section 5.0.

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3.0 GWTS OPERATION AND PERFORMANCE

The GWTS commenced operation during August 2001. Components used to evaluate the performance of the GWTS included, but were not limited to: ground water control; daily remote system monitoring; operational performance and maintenance of the system; flow-through volumes; and, the effectiveness of the system based on compliance with the NJPDES - Discharge to Surface Water (DSW) permit discharge limitations.

3.1 GROUND WATER CONTROL

During the reporting period (January through June 2005), the shallow recovery zone and GWTS were operated in a continuous automatic mode. The shallow trenches were operable during the reporting period and pumping activities were consistent from January through June 2005. The GWTS operations and maintenance is further described under Section 3.2. Evaluation of the pumping activities indicated dewatering of the shallow recovery points to the designated low level within the recovery sumps. Review of the shallow zone contour maps confirmed that during GWTS operation, hydraulic control of the shallow ground water below the site was achieved. Refer to Section 2.2 for further technical assessment of site ground water control.

Ground water was not processed from the two deep zone recovery wells (RW1-45 and RW2-37) during the period as a result of the previous chronic toxicity investigation results, which indicated that the toxicity was likely associated with deep recovery operations. As such, the deep zone recovery wells have remained suspended pending the evaluation of operational alternatives described under Section 3.5.

3.2 GWTS PERFORMANCE, OPERATION, AND MAINTENANCE

During the operating period (January through June), the GWTS operated in a continuous automatic mode, 24-hours per day, with the exception of minor system suspensions. GWTS operation and maintenance activities conducted during the reporting period, are summarized below:

- Routine operation and maintenance during January through June 2005 consisted of bi-weekly site visits to execute pump maintenance and flow meter adjustments, evaluate pressure readings associated with the carbon adsorption units, and perform carbon backwash on an as-needed basis.

- During the reporting period, the average influent flow rate to the GWTS was approximately three gallons per minute (gpm) during normal operations.

- Trench levels were consistently maintained between the upper start point and lower stop level for the pumps. Dewatering within these limits maintained hydraulic control within the shallow zone.

- On June 3, 2005, Recovery Trench RT-2 operation was suspended and deep Recovery Well RW1-45 operation remained suspended in anticipation of site development. The suspension of these two recovery points was necessitated to raise the RT-2 sump to the proposed building floor elevation and re-locate the RT-2 and RW1-45 pump, level control and heat trace electrical wiring.

3.3 Process Volume

During the reporting period, an approximate total water volume of 360,941-gallons of recovered ground water was processed through the GWTS and discharged through outfall DSN-002A. Influent volumes from the trenches (RT-1 through RT-4) were recorded via influent flow meters. RT-1 has remained deactivated since July 2002 due to bacteriological conditions observed in the trench and due to the effective recovery and control of the shallow ground water from Trenches RT-2 and RT-3. As previously described, the recovery wells (RW1-45 and RW2-37) were deactivated during the reporting period and RT-2 was deactivated on June 3, 2005. A flow summary relative to the volume pumped from each recovery point is presented on the following table.

Influent Meter Readings
January – June 2005

Recovery Location	Total Flow (Gallons)
RT-1	0
RT-2	202,872
RT-3	39,029
RT-4	119,040
RW1-45	0
RW2-37	0
Total:	360,941

3.4 Analytical Evaluation

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Treated effluent from the GWTS was discharged through Outfall DSN-002A, in accordance with NJPDES-DSW Permit No. NJ0102270. Effluent samples were collected on a monthly and quarterly basis and analyzed by a New Jersey-certified laboratory. The monthly effluent samples were analyzed for benzene, total mercury, and pH, and were collected during January, March, and April 2005. The quarterly effluent samples were analyzed for total mercury, total arsenic, pH, chemical oxygen demand (COD), total suspended solids (TSS), select VO and BN compounds, and chronic toxicity bioassay and were collected during February and May 2005. During June 2005 the NJPDES-DSW permit renewal was issued with the effective date of June 1, 2005 and expiration date of May 31, 2010. The analytical parameter monitoring frequency for the permit renewal was revised as presented below:

NJPDES Permit Monitoring Requirements June 2005 through May 2010	
Parameter	Monitoring Frequency
pH, TSS, COD, Arsenic, Mercury, Naphthalene and Benzene	Quarterly
Bis(2-ethylhexyl)phthalate, 1,2-Dichloroethane, Tetrachloroethylene	Semi-Annually
Chronic Toxicity Bioassay	Semi-Annually
PCBs	Annually

The analytical results for the sampling period January through June 2005 were reported monthly to the NJDEP via NJPDES Discharge Monitoring Report (DMR) forms. The NJPDES Effluent Monitoring Results for the reporting period are summarized on Table 5. Evaluation of the analytical results from the NJPDES monitoring program documented that the GWTS discharge has been in compliance with the permit limitations for the reporting period with the exception of the chronic toxicity results for May 2005. A review of the results for the May 2005 bioassay indicated the percent reproduction was reported at 53 percent, which is below the minimum permit limitation of 61 percent reproduction for chronic toxicity. As a result of the permit limitation excursion, the NJDEP hotline was notified and case number 05-09-09-1319-19 was assigned by operator 25. Based upon the conditions of the NJPDES permit, no corrective action is required at this time unless a second bioassay test is below the minimum permit limit within six consecutive tests. However, several options are currently under evaluation relative to the intermittent low reproduction chronic toxicity as discussed below.

3.5 Toxicity Evaluation

The NJDEP had previously requested that Degussa conduct a pilot test utilizing a reduced proportionate volume from the deep wells (20%) combined with recovered ground water from the shallow zone trenches (80%). Degussa subsequently conducted the pilot test and submitted the results in the previous progress report. However, the NJDEP indicated in their July 12, 2005 technical review letter that proportioning flow volume from the shallow and deep recovery zones is not allowable under the NJPDES-DSW permit. Therefore, the following options are being evaluated relative to the chronic toxicity previously detected at the site and for the re-activation of the deep recovery wells.

- Based on the site meeting with the NJDEP on October 6, 2005, the NJDEP indicated that a change in the permit from the NJPDES-DSW to a NJPDES – Discharge to Groundwater (DGW) may be an alternative for the GWTS discharge. We are currently pursuing the applicability of the NJDEP *Technical Requirements for Site Remediation* N.J.A.C. 7:26E-6.3(c) relative to NJPDES-DGW permit-by-rule.

- The NJDEP-NJPDES Division has recommended pursuing a modification of the NJPDES –DSW permit. Dialogue has been initiated with the NJDEP Biomonitoring Department for the potential of a NJPDES-DSW permit modification. Toxicity investigation results conducted on the ground water at the site will be submitted to the NJDEP for their review. The Biomonitoring Department has indicated they will assess the data and respond with potential alternatives (e.g., change in test species).

- On-going discussions have been initiated with Joint Meeting of Essex and Union Counties (JMEUC) for their re-consideration and acceptance of the discharge. Although the initial request was denied, we are actively pursing approval for connection with potential modifications of treatment components within the GWTS.

- Alternative treatment methods are being evaluated in the event that the aforementioned options are not viable.

4.0 NJDEP NOTIFICATIONS AND ACTION REQUIREMENTS

The NJDEP response letter dated July 12, 2005, presented the findings of the NJDEP technical review of the progress report dated April 8, 2005 (incorporating the period from July through December 2004). The NJDEP letter outlined specific issues and requirements pertaining to the monitoring program for the subject site. A copy the NJDEP letter is presented as Appendix 4.

The items below address the NJDEP requirements in the general sequence presented in the NJDEP July 12, 2005 letter; some items were consolidated as a result of related topics.

4.1 CONTAMINANT DELINEATION AT 833 MAGNOLIA AVENUE (ITEMS 1, 2 AND 3)

The NJDEP approved the proposed ground water delineation at the 833 Magnolia Avenue portion of the site. Additionally, the NJDEP requested the installation of monitoring wells at the property and that the delineation analytical program includes BN+15 and PP Metals, in addition to the previously proposed benzene and BN-TICs.

On May 19, 2005, the delineation proposal presented to the NJDEP in the previous progress report (July through December 2004) was executed at the 833 Magnolia Avenue property. The results of the delineation program are presented below.

During May 19, 2005, five temporary wells were installed at the 833 Magnolia Avenue property. The five temporary well sample points were installed to a total depth of approximately 16 feet below ground surface (bgs) which was the total common depth of the three referenced shallow monitoring wells. The lithology of the soils encountered during the installation of these points generally consisted of silty clay to a depth of eight feet BGS, underlain by saturated (i.e., ground water) medium to fine sand at the eight feet to 10 feet interval BGS. The saturated sand was underlain by dry tight silty clay to the terminus depth of 16 feet BGS.

Ground water samples designated HP-1 through HP-5 were collected at upgradient and downgradient locations of the existing monitoring wells MW-7S, MW-12S and MW-14S to laterally delineate benzene and BN-TICs reported above the NJDEP-GWQS in these wells. The NJDEP July 12, 2005 technical review letter requested the addition of BN target compounds to the analytical program and was subsequently added to the analytical regime for the five well samples. The location of the delineation sampling points and related analytical results summary are presented on Figure 8. The delineation analytical results summary is presented on Table 6.1 through 6.5.

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Delineation sample HP-1 was collected upgradient of MW-7S, MW-12S and MW-14S to assess if constituents of concern were migrating onto the property. The HP-1 sample was analyzed for benzene and BN+15. Review of the results indicated that benzene was not detected in the sample. The BN+15 sample results reported three target BN compounds, benzo(a) anthracene (2.9 µg/l), benzo(k)fluoranthene (2.9 µg/l) and benzo(a)pyrene (2.3 µg/l) slightly above the NJDEP-GWQS of 1.0 µg/l and 0.2 µg/l, respectively.

Sample points HP-2 and HP-3 were collected downgradient of MW-7S and MW-14S to laterally delineate benzene and BN-TICs reported in these wells. The samples were analyzed for benzene and BN+15. Review of the HP-2 and HP-3 sample results reported benzene at levels of 92 µg/l and 310 µg/l, respectively above the GWQS of 1.0 µg/l. The target BN compounds were reported as not detected or below their respective GWQS in both sample points. The BN-TICs were reported above the NJDEP-GWQS of 500 µg/l for total SOCs in HP-2 and HP-3 at estimated concentrations of 2,176 µg/l and 2,960 µg/l, respectively.

Sample points HP-4 and HP-5 were collected downgradient of MW-12S to delineate the benzene previously reported in MW-12S. Review of the benzene results indicated that benzene was reported in HP-4 at 2.0 µg/l, slightly above the GWQS of 1.0 µg/l. The HP-5 benzene level was reported at 24 µg/l.

As a result of the benzene and BN-TICs reported above the NJDEP-GWQS in the temporary well sample locations, additional lateral delineation is proposed at the 833 Magnolia Avenue property. The location of the delineation sampling points is presented on Figure 8. The proposed delineation well MW-24S is located on the 840 Bond Street property; a copy of the offsite access request letter is presented in Appendix 5. The proposed delineation monitoring program is outlined below:

- The delineation program will be executed through the installation of five monitoring wells.
- The wells will be installed to a total depth of 16 feet BG, which is the total depth of the existing shallow zone monitoring wells.
- The placement of the proposed wells will provide additional synoptic water level data to further assess ground water flow conditions below the property.
- The delineation monitoring wells will be analyzed for VO+10, BN+15 and PP Metals as requested by the NJDEP in their July 12, 2005 response letter.

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- The monitoring wells will be sampled subsequent to installation and included in the semi-annual monitoring program for the site.
- The analytical results will be evaluated for contaminant trends and subsequently reported to the NJDEP in future progress reports.

4.2 Tentatively Identified Compound Evaluation (Item 4)

The NJDEP requested an evaluation of reported TICs to the interim generic criteria for synthetic organic compounds.

The VO and BN TICs individually reported above 5 µg/l were evaluated for carcinogenic or non-carcinogenic properties. Based on the evaluation, the VO and BN TICs were assessed to be non-carcinogenic (see Section 2.2.2).

4.3 Contour Maps and Contaminant Isopleths (Items 5 and 6)

The NJDEP requested ground water contour maps encompassing both portions of the site (830 Magnolia and 833 Magnolia Avenue) and contaminant isopleths.

Subsequent to monitoring well installation at the 833 Magnolia Avenue (per Section 4.1 above), contours of both properties will be submitted depicting site wide ground water flow direction. It is anticipated that contaminant isopleths will be submitted in the next semi-annual progress report (March 2006) for the period June through December 2005.

4.4 Contaminant Delineation at 830 Magnolia Avenue (Item 7)

The NJDEP requested deep zone lateral ground water delineation to the east and southeast of monitoring wells MW-10D, MW-13D and MW-22D, and to the south of MW-1D and MW-1DD.

Compounds have been reported at levels above the NJDEP-GWQS in the referenced wells. However, as discussed in a telephone conversation between ECM and the NJDEP on September 8, 2005, and subsequent letter submitted to the NJDEP dated September 14, 2005 (Appendix 4), several attempts to locate off-site delineation points has been severely restricted by off-site conditions. Specifically, location of delineation points has been limited by various overhead and underground utilities, off-site buildings and structures, and the adjacent railroad. As a result of the restrictive off-site conditions, an on-site meeting was conducted with the NJDEP on October 6, 2005, to evaluate alternative locations relative to delineation efforts.

Based on the October 6, 2005 NJDEP on-site meeting, it was agreed that two delineation monitoring wells would be installed on the off-site adjacent properties as outlined below.

Delineation of MW-10D, MW-13D and MW-22D

During the on-site meeting, it was agreed upon that one monitoring well would be installed downgradient and east of monitoring wells MW-10D, MW-13D and MW-22D. The well location was sited with the NJDEP at the closest accessible location downgradient of the eastern property boundary. The proposed well location is on the 800 Magnolia Avenue property; a copy of the off-site access request letter is presented in Appendix 5. The location of the proposed delineation monitoring well is presented on Figure 9. The proposed monitoring well will be analyzed for the parameters reported above the NJDEP–GWQS in the above referenced wells, which includes benzene, cadmium, lead, and mercury.

Delineation of MW-1D

During the on-site meeting it was agreed upon that one monitoring well would be installed downgradient and south of monitoring well MW-1D (Figure 9). The well location was sited with the NJDEP at the closest accessible location downgradient of the southern property boundary. This delineation well was required to be sited south of the rail road due to the close distance of the rail road to MW-1D. The well will be installed on the northern side of the building located at 805 East Grand Street (Figure 9); a copy of the off-site access request letter is presented in Appendix 5. The proposed monitoring well will be analyzed for the parameters reported above the NJDEP-GWQS in MW-1D, which includes benzene, chlorobenzene, lead and mercury.

Monitoring Well MW-1DD

Cadmium, lead and mercury have been reported above the NJDEP-GWQS in MW-1DD (Table 3.17). The reported metal levels in MW-1DD have generally decreased during the monitoring program. During the May 2005 monitoring event, mercury was the only metal reported above the GWQS at 2.5 µg/l, slightly above the GWQS of 2.0 µg/l.

As discussed during the on-site meeting, based on the decreasing trend for metals reported in MW-1DD, delineation is not proposed. It is proposed to monitor MW-1DD during subsequent monitoring events, which is anticipated to decrease below the GWQS during subsequent events.

4.5 DEEP ZONE RECOVERY OPERATIONS AND CHRONIC TOXICITY (ITEM 8)

As a result of the current denial by the JMEUC sewage authority to accept the effluent from the GWTS, the NJDEP has requested an alternative remedial proposal.

4.5.1 DISCHARGE TO GROUND WATER

Based on the October 6, 2005 on-site meeting, the NJDEP recommended pursuing a change in the permit from the current NJPDES–DSW permit to a NJPDES–DGW permit.

Based on the NJDEP recommendation, preliminary review of the *Technical Requirements for Site Remediation* 7:26E-6.3(c) relative to NJPDES-DGW permit-by-rule indicates that the discharge from the GWTS would meet the requirements outlined in 7:26E-6.3E(c)1i-x. Specifically, the regulatory requirements and the applicability to the site are outlined below.

i. *Provide a detailed description of how the discharge would comply with the NJDEP-GWQS.*

Review of the current NJPDES–DSW discharge monitoring data from inception of the GWTS operation (2001) indicates that the discharge monitoring results would be compliant with the NJDEP-GWQS. Table 7 presents the NJPDES-DSW monitoring results from inception of GWTS operation compared to the NJDEP-GWQS.

ii. *A detailed explanation of why the proposed groundwater treatment system would be appropriate for the discharge. The explanation shall include, but not be limited to, plans for operating the proposed treatment system by a person licensed pursuant to the Licensing of Water Supply and Wastewater Treatment System Operators rules.*

The ground water recovery and treatment system has been designed, approved, constructed and operated under the supervision of an N-2 licensed operator since August 2001.

The GWTS NJPDES-DSW permit discharge (No. NJG0102270) has been compliance with the discharge limitations.

Intermittent chronic toxicity excursions of the NJPDES-DSW permit have been the condition restricting adequate recovery at the site. Toxicity investigations indicate that reproduction inhibition is a result of elevated total dissolved solids (i.e., salts) in the groundwater.

The NJPDES-DSW monitoring results from inception of GWTS operation (August 2001) have met

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the effluent limitations and the NJDEP-GWQS.

Discharge of the brackish water back into the site groundwater through authorization under a NJPDES-DGW permit, would essentially be returning the water back to groundwater.

iii. *A detailed description of the type, location, volume and duration of the discharge that would be required for the remediation of the ground water or soil, and a detailed description of the effect that the proposed discharge would have on ground water or any other receptor.*

The discharge to groundwater would consist of treated effluent from the GWTS. The effluent would be discharged to an injection well in the western portion of the site, upgradient of the recovery trench and well network. The quantity of the discharge would be estimated at approximately between 5,000 to 10,000-gallons per day (GPD) for a duration that would achieve groundwater quality levels at or below the NJDEP- GWQS.

Based on the effluent data from the past five years of operation; the discharge would have no adverse effect on groundwater since the effluent from the GWTS would essentially only contain the naturally occurring TDS. Additionally, the discharge would be upgradient of the recovery network.

Based on the ecological evaluation conducted for the site, ecological receptors were not identified at the subject site or immediately surrounding areas; therefore, the effect the discharge would have on receptors is not applicable to the subject site.

iv. *A detailed description of the concentrations of all contaminants expected to be present in the discharge.*

As previously discussed under ii above, the only constituent expected to be present in the discharge would be TDS. The levels that could be expected in the discharge would range from 300 mg/l to 1,500 mg/l. Additionally, infrequent low levels of mercury have been detected in the effluent at levels of 0.011 µg/l during three monitoring events. Therefore, mercury could be expected to be discharged, however; at levels below the NJDEP-GWQS.

v. *A detailed description of the chemical content of all fluids and substances to be discharged and/or placed into or onto the ground to implement remediation.*

Other then the GWTS effluent, no other chemicals or fluids would be discharged from the treatment system.

vi. *A detailed monitoring plan, including but not limited to the monitoring wells to be sampled, the frequency of sampling for wells, and if applicable the fluid to be discharged, and a list of all the analytes to be monitored.*

The monitoring plan would entail the current monitoring program for the site, which includes 28 monitoring wells sampled on a semi-annual and annual frequency for analysis of VOC+10, BN+15 and PP Metals.

vii. *A detailed proposal to modify, as applicable, any existing Classification Exception Areas.*

The project site dies not have a Classification Exception Area as active ground water remedial activity is ongoing.

viii. *A detailed schedule for the submission of reports of all discharge-related activities.*

Continue the ground water remedial activity progress reports that are currently submitted to the NJDEP on a semi-annual basis in accordance with the NJDEP ISRA Case No. 85374 and the NJDEP *Technical Requirements for Site Remediation* (N.J.A.C. 7:26E, et seq.; February 2003).

ix. *If applicable, specifications for the design of an underground injection system. Such specifications shall be in accordance with the NJPDES rules at N.J.A.C.7:14A-8.*

The NJPDES rules under N.J.A.C. 7:14A-8A *Additional Requirements for Underground Injection Control Program* would not be required for the site injection well as the well would be authorized in accordance with N.J.A.C. 7:14A-7.5(b)3vii *Authorization of discharges to ground water by permit-by-rule.*

x. *A draft public notice must be prepared for approval prior to publication.*

A draft public notice in accordance with 7:26E(c)2 will be submitted to the NJDEP for approval prior to publication.

Based on the information presented above we request that the NJDEP authorize the GWTS discharge as a discharge to ground water by a permit-by-rule (N.J.A.C. 7:14A-7.5(b)3vii).

4.5.2 Remedial Alternatives

Other remedial alternatives being pursued for the deep zone chronic toxicity include the following:

Based on the current rejection by JMEUC to accept the discharge, the NJDEP-NJPDES Division has additionally recommended pursuing a modification to the NJPDES-DSW permit for a modification of the test species. This recommendation is based on the following:

- With respect to chronic toxicity, intermittent permit excursions have occurred. Toxicity investigations have indicated that the cause of reproduction inhibition is likely attributable to elevated total dissolved solids (essentially salts) in the ground water beneath the site.

- The NJPDES permit required test species is the *Ceriodaphnia dubia* (water flea), which is a freshwater test species, and as such the elevated salt content in the effluent is likely the cause of the periodic reproduction inhibition in the chronic toxicity test.

- Preliminary assessment of aerial photographs of the effluent receiving waters indicates that the receiving water body (perimeter ditch of Newark airport) may be brackish (i.e., mixture of salt and fresh water) due to its orientation next to the Arthur Kill. If it was determined that the effluent is discharged to a brackish receiving water, than the NJDEP may consider a request for a modification of the test species from fresh water species *Ceriodaphnia dubia* to a salt water species *Mysidopsis bahia* (mysid shrimp). Therefore, it could be expected that the total dissolve solids would have less of an adverse effect on this salt water test species.

ECM has contacted the NJDEP Biomonitoring Department, Ms. Corrine Smith and has initiated dialogue with her relative to the site toxicity condition. Ms. Smith has preliminarily requested toxicity investigation results previously submitted to the NJDEP be submitted to the Biomonitoring Department for review. Subsequent to their review of the data, Ms. Smith indicated she would respond to Degussa with potential alternatives.

Additionally, on-going discussions have been initiated with JMEUC for their re-consideration and acceptance of the discharge. The JMEUCs initial denial was attributed to infrequent low levels of metals reported in the GWTS discharge. We have requested JMEUC to review a proposal for a treatment component to ensure metals are removed from the GWTS effluent. The JMEUC has agreed to review our request.

Alternately, evaluation of treatment alternatives is being conducted to remove or reduce the level of total dissolved solids in the effluent and thus reduce the toxicity of the effluent.

4.6 Site Development Plans (Item 9)

The NJDEP indicated that the site development plans will not be reviewed until the issues related to ground water remediation at the site are addressed. The NJDEP letter also stated that the submittal did not meet the deed notice requirements in the *Technical Requirements for Site Remediation* (7:26E-8.1). Additionally, the NJDEP letter required assessment of vapor intrusion

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relative to indoor air quality for the proposed building.

During the on-site meeting, it was discussed with the NJDEP site development impacting ground water remedial activities, and their relevance to the site owner proceeding with development plans.

The NJDEP verbally agreed to review preliminary site development plans and provide their initial approval if the capping specification satisfied deed notice requirements. The NJDEP requested that site development specifications be presented to the NJDEP within this progress report. Specifically, the information required by the NJDEP is outlined below.

- Provide the development plan drawings of the 830 and 833 Magnolia Avenue properties;
- Cross-sectional engineering cap specifications of the proposed building, pavement areas and landscaped areas;
- The design specification of the vapor barrier to be installed beneath the proposed building; and,
- The soil remedial action plan for the former Area C located west of the 833 Magnolia Avenue property.

The site development plan information including the Area C remedial action plan is presented in Appendix 6.

5.0 IMPLEMENTATION SCHEDULE

The implementation schedule for the upcoming project activities and monitoring program is attached. Modifications to the project scope or schedule, as warranted by the field conditions or NJDEP requirements, will be presented in future progress reports.

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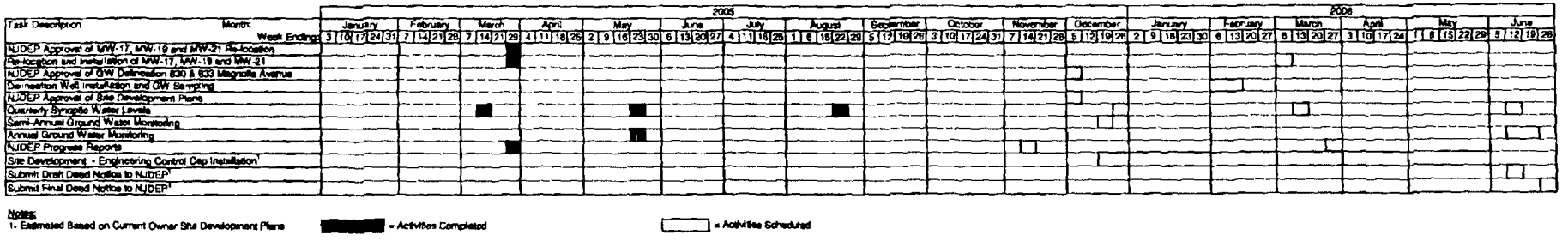
ENGINEERING CONTROLS AND
GROUND WATER REMEDIAL ACTIVITY SCHEDULE
DEGUSSA CORPORATION, ELIZABETH, NEW JERSEY
ECM PROJECT #1086



Notes:
1- Estimated Based on Current Owner Site Development Plans

= Activities Completed

= Activities Scheduled

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TABLES

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TABLES

TABLE 1
SUMMARY OF MONITORING WELL SAMPLING AND ANALYTICAL PLAN – MAY 2005
Degussa – Elizabeth, NJ
ECM Project #1085

Well ID	Sampling Methodology	Analytical Parameters
MW-1S	EPA Low Flow	VO+10, PP Metals
MW-4S	EPA Low Flow	VO+10, PP Metals
MW-6S	EPA Low Flow	VO+10, PP Metals
MW-7S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-10S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-12S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-14S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-15S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-16S	EPA Low Flow	VO+10, PP Metals
MW-17S	EPA Low Flow	VO+10, PP Metals
MW-18S	EPA Low Flow	VO+10, PP Metals
MW-19S	EPA Low Flow	VO+10, PP Metals
MW-20S	EPA Low Flow	VO+10, PP Metals
MW-21S	EPA Low Flow	VO+10, BN+15, PP Metals
MW-1D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-1DD	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-4D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, BN+15, PP Metals
MW-7D	EPA Low Flow	PP Metals
MW-10D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-13D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-15D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, BN+15, PP Metals
MW-16D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-17D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, BN+15, PP Metals
MW-18D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, BN+15, PP Metals
MW-19D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-20D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, PP Metals
MW-21D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10, BN+15, PP Metals
MW-22D	EPA Low Flow/NJDEP Field Sampling Procedures Manual	VO+10

Notes: Deep Well samples analyzed for VO+10 and/or BN+15 were collected in accordance with the NJDEP Field Sampling Procedures Manual methodology.

TABLE 2
Ground Water Elevation Data
Recorded: March 8, 2005
Degussa Corporation - Elizabeth, NJ
Project #1085

Zone	Well ID	Top of Casing Elevation	Depth to Water	Groundwater Elevation
Shallow	MW-1S	27.68	3.95	23.73
	MW-4S	26.03	5.29	20.74
	MW-6S	28.92	7.10	21.82
	MW-7S	23.30	3.54	19.76
	MW-10S	25.80	5.09	20.71
	MW-11S	27.33	17.18	10.15
	MW-12S	25.42	7.03	18.39
	MW-13S	27.21	6.78	20.43
	MW-14S	22.49	1.03	21.46
	MW-15S	31.10	10.90	20.20
	MW-16S	29.05	4.04	25.01
	MW-17S	30.51	5.90	24.61
	MW-18S	30.50	8.58	21.92
	MW-19S	30.39	7.74	22.65
	MW-20S	31.09	6.30	24.79
	MW-21S	30.25	7.58	22.67
	PZ-1	27.43	2.87	24.56
	PZ-3	26.05	5.82	20.23
	PZ-4	27.41	1.85	25.56
	RW1-15	26.40	1.97	24.43
	RT-1	27.00	3.90	23.10
	RT-2	26.10	10.24	15.86
	RT-3	26.31	8.05	18.26
	RT-4	23.18	8.54	14.64
Deep	MW-1D	27.10	18.30	8.80
	MW-1DD	27.62	19.90	7.72
	MW-4D	26.30	17.45	8.85
	MW-6D	28.90	19.31	9.59
	MW-7D	23.42	13.62	9.80
	MW-10D	24.95	--	--
	MW-11D	27.03	16.21	10.82
	MW-13D	27.34	18.47	8.87
	MW-15D	31.77	22.59	9.18
	MW-16D	30.02	20.00	10.02
	MW-17D	30.23	20.20	10.03
	MW-18D	30.97	21.56	9.41
	MW-19D	30.39	20.84	9.55
	MW-20D	30.80	20.75	10.05
	MW-21D	30.16	20.86	9.30
	MW-22D	27.52	19.47	8.05
	RW1-45	26.27	16.83	9.44
	RW-2-37	26.29	17.28	9.01

Notes:
All measurements in feet.
--: Well not accessible during time of collection; Measurement not recorded.

TABLE 3
Ground Water Elevation Data
Recorded: May 23, 2005
Degussa Corporation - Elizabeth, NJ
Project #1085

Zone	Well ID	Top of Casing Elevation	Depth to Water	Groundwater Elevation
Shallow	MW-1S	27.68	4.22	23.46
	MW-4S	26.03	5.71	20.32
	MW-6S	28.92	11.84	17.08
	MW-7S	23.30	4.31	18.99
	MW-10S	25.80	5.70	20.10
	MW-11S	27.33	--	--
	MW-12S	25.42	6.75	18.67
	MW-13S	27.21	*	*
	MW-14S	22.49	0.95	21.54
	MW-15S	31.10	10.93	20.17
	MW-16S	29.05	11.00	18.05
	MW-17S	30.51	6.03	24.48
	MW-18S	30.50	12.55	17.95
	MW-19S	30.39	10.44	19.95
	MW-20S	31.09	6.37	24.72
	MW-21S	30.25	12.62	17.63
	PZ-1	27.43	2.40	25.03
	PZ-3	26.05	10.61	15.44
	PZ-4	27.41	4.45	22.96
	RW1-15	26.40	2.28	24.12
	RT-1	27.00	4.18	22.82
	RT-2	26.10	10.15	15.95
	RT-3	26.31	8.91	17.40
	RT-4	23.18	9.10	14.08
Deep	MW-1D	27.10	19.00	8.10
	MW-1DD	27.62	20.60	7.02
	MW-4D	26.30	17.82	8.48
	MW-6D	28.90	19.89	9.01
	MW-7D	23.42	17.30	6.12
	MW-10D	24.95	16.55	8.40
	MW-11D	27.03	17.68	9.35
	MW-13D	27.34	18.94	8.40
	MW-15D	31.77	23.10	8.67
	MW-16D	30.02	20.78	9.24
	MW-17D	30.23	20.87	9.36
	MW-18D	30.97	22.40	8.57
	MW-19D	30.39	21.45	8.94
	MW-20D	30.80	21.47	9.33
	MW-21D	30.16	21.50	8.66
	MW-22D	27.52	19.99	7.53
	RW1-45	26.27	18.41	7.86
	RW-2-37	26.29	17.89	8.40

Notes:
All measurements in feet.
--: Well not accessible during time of collection; Measurement not recorded.
*: Well compromised and will be evaluated. Measurement not collected.

TABLE 4.1
MW-1S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-1S						
Sample Date Laboratory Identification	4/23/01 270365	5/3/02 348633	6/12/03 434712	6/9/04 536612	5/25/05 636837	GWQS (µg/L)
VOLATILE ORGANICS						
Trichloroethene	ND	***1.4***	ND	ND	ND	1
Benzene	0.7	***4.8***	***5.5***	ND	ND	1
Toluene	ND	0.7	1.1	ND	ND	1,000
Chlorobenzene	0.2	ND	0.4	ND	ND	50
Volatile Organic TICs	5.2	0.0	0.0	0.0	7.7	500*
BASE NEUTRALS						
Diethylphthalate	ND	0.6	NT	NT	NT	5,000
Pyrene	0.4	ND	NT	NT	NT	200
Base Neutral TICs	0.0	45	NT	NT	NT	500*
METALS						
Arsenic	***35.5***	ND	6.2	4.3	ND	8
Beryllium	0.18	ND	ND	ND	ND	20
Cadmium	***30.1***	0.45	ND	2.4	1.1	4
Chromium	4.0	ND	ND	2.7	ND	100
Copper	138	9.3	3.1	13.2	ND	1,000
Lead	***260***	3.4	6.4	***11.2***	ND	10
Mercury	***146***	0.83	***3.7***	***7.4***	0.91	2
Nickel	20.5	9.1	4.3	6.4	3.8	100
Zinc	215	62.8	22.3	57.2	16.7	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.2
MW-4S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-4S									
Sample Date Laboratory Identification	4/25/01 271009	9/11/01 299942	11/16/01 316059	2/20/02 334232	5/6/02 348636	6/11/03 434709	6/8/04 536610	5/24/05 636025	GWQS (µg/L)
VOLATILE ORGANICS									
Chloromethane	ND	ND	ND	ND	ND	ND	0.9	ND	30
1,1-Dichloroethene	ND	ND	ND	0.4	ND	ND	ND	ND	2
Trichloroethene	ND	ND	ND	ND	***1.3***	ND	ND	ND	1
Benzene	0.3	ND	***3.9***	***2.6***	***3.8***	***1.9***	0.8	***24***	1
Toluene	0.2	ND	0.5	0.4	1.5	0.5	0.6	0.5	1,000
Chlorobenzene	4.0	6.4	3.2	0.6	1.1	1.2	ND	ND	50
Ethylbenzene	1.1	ND	ND	ND	ND	ND	ND	ND	700
Total Xylenes	8.9	ND	ND	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	15	20	5.3	ND	26	0.0	0.0	0.0	500*
BASE NEUTRALS									
1,2-Dichlorobenzene	0.9	1.6	1.3	ND	ND	NT	NT	NT	600
Base Neutral TICs	283	156	353	177	355	NT	NT	NT	500*
METALS									
Antimony	ND	12.8	ND	ND	ND	ND	ND	ND	20
Arsenic	7.0	***58.6***	ND	ND	ND	ND	ND	ND	8
Beryllium	ND	1.5	ND	ND	ND	ND	ND	ND	20
Cadmium	***7.5***	***313***	2.4	1.1	0.80	0.65	0.72	***6.6***	4
Chromium	1.5	57.8	3.8	ND	ND	ND	ND	3.0	100
Copper	73.1	***1,280***	6.1	6.3	9.3	2.6	5.2	27.8	1,000
Lead	***13.1***	***420***	ND	ND	ND	ND	4.2	2.7	10
Mercury	***7.4***	***131***	ND	0.23	ND	0.28	0.14	***3.0***	2
Nickel	11.7	***249***	7.8	5.2	7.7	6.1	6.1	9.3	100
Silver	1.6	ND	ND	ND	ND	ND	ND	ND	30
Zinc	58.8	1,300	35.2	18.5	25.0	12.5	25.2	39.4	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.4
MW-7S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-7S														
Sample Date Laboratory ID	4/26/01 271019	9/11/01 299941	11/16/01 316058	2/20/02 334231	5/7/02 349124	12/13/02 397490	3/26/03 417646	6/17/03 435852	9/25/03 465000	12/3/03 485771	6/11/04 537107	12/8/04 592325	5/25/05 636841	GWQS (µg/L)
VOLATILE ORGANICS														
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	0.5	ND	ND	0.6	ND	ND	ND	ND	70
Chloroform	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	6
Benzene	***56***	***59***	***55***	***48***	***42***	***65.0***	***45***	***23***	***11***	***45***	***27***	***50***	***32***	1
Toluene	7.4	3.0	1.7	5.2	5.3	6.3	9.6	3.6	1.5	4.3	0.3	5.2	1.5	1,000
Chlorobenzene	22	20	14	14	13	16	15	8.4	4.6	19	12	20	15	50
Ethylbenzene	1.0	0.7	0.4	0.6	0.4	0.6	1.0	ND	ND	0.7	0.4	0.7	0.5	700
Total Xylenes	6.7	3.3	1.9	4.0	3.0	3.2	5.3	2.0	1.0	2.6	2.1	4.1	3.3	1,[illegible]
Volatile Organic TICs	15	44	ND	18	8.8	23.0	14	5.6	0.0	22	5.6	29	20	500*
BASE NEUTRALS														
Naphthalene	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	0.2	ND	ND	300
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	1.9	ND	ND	5.0	ND	ND	ND	ND	30
Diethylphthalate	ND	ND	ND	0.9	ND	ND	ND	ND	0.4	ND	ND	ND	ND	5,000
Di-n-butylphthalate	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	900
Base Neutral TICs	***45,300***	***29,495***	***21,800***	***15,314***	***5,574***	***26,207***	***74,500***	***2,000***	0.0	***30,110***	***4,028***	***18,098***	***9,796***	500*
METALS														
Antimony	***59.8***	16.5	ND	ND	10.1	ND	ND	7.3	***21.5***	7.5	4.0	ND	19.4	20
Arsenic	***25.0***	***28.3***	***30.7***	***18.9***	***16.3***	***25.6***	ND	5.2	ND	***20.2***	6.9	***22.5***	6.8	8
Beryllium	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.32	ND	ND	ND	20
Cadmium	***675***	***105***	***41.4***	***10.9***	***72.7***	***19.8***	***279***	***326***	***342***	***259***	***220***	***51.5***	***68.9***	4
Chromium	3.0	5.2	6.8	4.1	ND	ND	ND	ND	7.4	6.2	4.6	ND	4.5	100
Copper	60.7	14.4	8.4	11.5	7.7	42.6	12.2	26.0	56.1	79.0	48.1	7.4	20.8	1,000
Lead	8.0	ND	ND	ND	ND	***19.9***	3.1	9.3	***29.0***	***35.2***	***19.7***	ND	5.0	10
Mercury	***8.9***	1.2	0.24	0.20	0.32	1.5	1.0	***2.1***	***7.2***	***7.0***	***4.9***	0.28	1.4	2
Nickel	17.2	16.2	21.7	12.0	12.4	26.4	16.4	37.3	36.6	41.7	27.4	14.1	14.0	100
Selenium	5.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	5[illegible]
Silver	1.1	ND	ND	ND	ND	ND	ND	0.77	ND	ND	ND	ND	ND	30
Zinc	76.3	28.7	43.0	46.9	26.5	75.3	56.7	71.2	98.1	107	75.4	11.4	42.5	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870043

TABLE 4.5

MW-10S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-10S									
Sample Date Laboratory Identification	4/25/01 271011	5/6/02 348638	12/9/02 397471	6/10/03 434703	12/1/03 484502	6/8/04 536606	12/6/04 591580	5/24/05 636027	GWQS (µg/L)
VOLATILE ORGANICS									
Chloromethane	ND	ND	ND	ND	ND	1.6	ND	ND	30
Chloroethane	ND	ND	ND	ND	ND	1.5	ND	ND	100
cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	0.7	ND	70
Benzene	0.3	***4.0***	***14.0***	***10***	0.6	ND	ND	ND	1
Toluene	ND	0.6	1.6	1.1	0.6	ND	ND	ND	1,000
Chlorobenzene	0.4	ND	0.8	0.9	ND	0.8	ND	ND	50
Total Xylenes	ND	ND	0.7	0.4	ND	ND	0.6	ND	1,000
Volatile Organic TICs	88	66	82	45	138	119	56	91	500*
BASE NEUTRALS									
1,2-Dichlorobenzene	ND	ND	NT	ND	NT	0.7	NT	ND	600
Naphthalene	ND	ND	NT	0.4	NT	1.2	NT	ND	300
Acenaphthene	ND	ND	NT	ND	NT	0.3	NT	0.2	400
Diethylphthalate	ND	ND	NT	ND	NT	0.8	NT	ND	5,000
Fluorene	ND	ND	NT	ND	NT	0.3	NT	0.6	300
Bis(2-ethylhexyl)phthalate	ND	ND	NT	1.8	NT	ND	NT	ND	30
Base Neutral TICs	***706***	***564***	NT	***853***	NT	500	NT	***594***	500*
METALS									
Cadmium	***11.0***	1.5	1.9	ND	0.47	ND	ND	ND	4
Chromium	4.2	ND	6.0	ND	ND	ND	ND	1.7	100
Copper	74.7	10.7	14.8	3.1	6.4	ND	6.1	ND	1,000
Lead	***22.4***	2.5	5.3	ND	ND	3.6	ND	ND	10
Mercury	***7.4***	0.67	1.6	0.30	ND	ND	ND	ND	2
Nickel	14.2	6.9	9.3	4.4	ND	4.7	4.7	3.9	100
Silver	1.3	ND	ND	ND	ND	ND	ND	ND	30
Zinc	190	16.0	54.2	18.6	20.6	25.3	16.5	10.4	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870044

TABLE 4.6
MW-12S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-12S											
Sample Date Laboratory Identification	4/26/01 271018	5/6/02 348641	12/13/02 397493	3/26/03 417649	6/17/03 435854	9/25/03 465001	12/3/03 485772	6/11/04 537109	12/8/04 592326	5/25/05 636840	GWQS (µg/L)
VOLATILE ORGANICS											
Cis-1,2-Dichloroethene	0.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	70
Benzene	***220***	***180***	***250***	***24***	***11***	***56***	***19***	***20***	***76***	***74***	1
Toluene	2.7	ND	9.7	0.8	1.5	0.3	1.0	1.8	0.9	ND	1,000
Chlorobenzene	4.2	2.9	4.0	1.8	0.8	2.6	1.6	0.8	2.1	3.0	50
Ethylbenzene	0.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	700
Total Xylenes	3.7	ND	6.5	ND	1.5	0.7	ND	0.6	1.5	0.6	1,0[illegible]
Volatile Organic TICs	40	0.0	58	0.0	0.0	0.0	0.0	0.0	4.5	20	500
BASE NEUTRALS											
Naphthalene	1.8	ND	NT	NT	ND	NT	NT	ND	NT	ND	300
N-Nitrosodiphenylamine	2.0	1.8	NT	NT	0.6	NT	NT	ND	NT	ND	20
Benzidine	ND<51	27	NT	NT	ND	NT	NT	ND	NT	16	50
Bis(2-Ethylhexyl)phthalate	ND	ND	NT	NT	2.0	NT	NT	ND	NT	ND	30
Base Neutral TICs	***7,317***	***1,952***	NT	NT	***693***	NT	NT	440	NT	***1,263***	500*
METALS											
Arsenic	***22.4***	7.2	NT	NT	ND	NT	NT	ND	NT	ND	8
Beryllium	1.2	ND	NT	NT	ND	NT	NT	ND	NT	ND	20
Cadmium	***4.4***	0.97	NT	NT	2.6	NT	NT	ND	NT	ND	4
Chromium	41.2	ND	NT	NT	4.5	NT	NT	6.7	NT	5.4	100
Copper	182	5.3	NT	NT	11.4	NT	NT	21.8	NT	10.6	1,000
Lead	***36.6***	ND	NT	NT	ND	NT	NT	ND	NT	ND	10
Mercury	1.8	0.14	NT	NT	0.26	NT	NT	0.22	NT	ND	2
Nickel	59.8	ND	NT	NT	6.8	NT	NT	8.5	NT	5.7	10[illegible]
Selenium	5.1	ND	NT	NT	ND	NT	NT	ND	NT	ND	50
Silver	1.7	ND	NT	NT	ND	NT	NT	ND	NT	ND	30
Zinc	149	11.1	NT	NT	25.0	NT	NT	16.7	NT	12.2	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870045

TABLE 4.7
MW-13S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH DECEMBER 2004
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-13S								
Sample Date Laboratory Identification	4/26/01 271021	5/6/02 348641	12/9/02 397473	6/11/03 434706	12/1/03 484504	6/8/04 536608	12/6/04 591582	GWQS (µg/L)
VOLATILE ORGANICS								
Chloromethane	ND	ND	ND	ND	ND	1.3	ND	30
Chloroethane	ND	ND	ND	ND	ND	1.4	ND	100
Cis-1,2-Dichloroethene	ND	ND	1.0	ND	ND	ND	0.9	70
Benzene	***10***	***7.2***	0.6	***2.2***	***1.2***	***3.2***	ND	1
Toluene	0.2	1.1	0.5	0.7	1.0	0.2	ND	1,000
Ethylbenzene	ND	ND	ND	ND	0.5	ND	ND	700
Total Xylenes	ND	ND	ND	ND	2.3	0.4	ND	1,000
Volatile Organic TICs	***663***	211	202	0.0	9.9	249	189	500*
BASE NEUTRALS								
Naphthalene	5.7	0.9	NT	ND	NT	5.4	NT	300
Acenaphthene	1.3	ND	NT	ND	NT	0.8	NT	400
Diethylphthalate	ND	ND	NT	ND	NT	0.3	NT	5,000
Fluorene	1.6	0.6	NT	ND	NT	0.9	NT	300
Phenanthrene	1.1	ND	NT	ND	NT	0.8	NT	100
Pyrene	ND	ND	NT	ND	NT	0.2	NT	200
Butylbenzylphthalate	ND	ND	NT	ND	NT	0.6J	NT	100
Bis(2-Ethylhexyl)phthalate	ND	ND	NT	3.3	NT	2.9	NT	30
Di-n-octylphthalate	ND	ND	NT	1.3	NT	ND	NT	100
Base Neutral TICs	***738***	***1,232***	NT	299	NT	350	NT	500*
METALS								
Arsenic	7.7	7.7	***96.1***	ND	ND	***8.4***	***12.9***	8
Beryllium	ND	0.12	13.9	ND	ND	0.59	ND	20
Cadmium	***6.5***	2.6	***329***	2.9	2.0	***12.4***	0.81	4
Chromium	ND	8.8	***810***	8.3	5.5	47.2	24.3	100
Copper	31.4	33.9	***4,240***	32.9	42.0	283	54.7	1,000
Lead	6.8	***14.8***	***1,500***	9.0	9.0	***71.5***	14.4	10
Mercury	ND	0.14	***16.0***	0.18	ND	0.58	ND	2
Nickel	21.1	27.0	***796***	13.3	6.8	52.8	35.9	100
Silver	ND	ND	ND	ND	ND	ND	0.92	100
Zinc	80.9	65.1	***5,540***	57.6	48.0	317	68.2	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

TABLE 4.8
MW-14S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-14S							
Sample Date Laboratory Identification	4/26/01 271020	5/7/02 349123	6/17/03 435855	6/11/04 537110	12/8/04 592327	5/25/05 636843	GWQS (µg/L)
VOLATILE ORGANICS							
Trans-1,2-Dichloroethene	0.6	ND	ND	0.3	ND	ND	100
Trichloroethene	ND	0.6	ND	ND	ND	ND	1
Benzene	***2.1***	***5.1***	***12***	***1.8***	***1.7***	***1.9***	1
Toluene	ND	0.9	1.6	ND	ND	ND	1,000
Chlorobenzene	3.7	2.1	2.0	3.3	3.4	2.9	50
Total Xylenes	0.5	ND	1.3	ND	ND	ND	1,000
Volatile Organic TICs	0.0	0.0	0.0	0.0	0.0	0.0	500*
BASE NEUTRALS							
1,2-Dichlorobenzene	ND	ND	ND	ND	0.7	ND	600
Base Neutral TICs	***1,682***	***1,051***	***1,040***	290	450	***518.3***	500*
METALS							
Arsenic	***58.3***	***43.7***	***47.3***	***52.0***	***45.9***	***45.6***	8
Cadmium	***5.4***	ND	0.42	***34.8***	***14.2***	1.7	4
Chromium	2.7	ND	ND	ND	ND	4.2	100
Copper	108	17.6	41.1	110	59.5	8.4	1,000
Lead	***16.6***	ND	ND	***15.5***	5.7	ND	10
Mercury	0.14	ND	ND	0.33	ND	ND	2
Nickel	13.8	ND	5.9	10.1	6.0	6.1	100
Zinc	126	23.4	27.2	63.2	47.6	15.7	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.9

MW-15S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-15S												
Sample Date Laboratory Identification	4/24/01 270376	9/11/01 299943	11/16/01 316060	2/20/02 334233	5/8/02 349130	12/10/02 397475	6/13/03 434717	12/3/03 485773	6/9/04 536615	12/8/04 592328	5/24/05 636032	GWQS (µg/L)
VOLATILE ORGANICS												
Chloromethane	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.7	ND	30
Benzene	***16***	***110***	***75***	***59***	***58***	***4.3***	***30***	1.0	***13***	***1.3***	***26***	1
Tetrachloroethene	0.3	ND	ND	ND	0.5	ND	ND	ND	ND	ND	ND	1
Toluene	1.0	6.8	3.6	3.2	3.9	0.7	2.0	1.1	1.1	ND	1.9	1,000
Chlorobenzene	2.1	12	7.2	4.8	5.6	ND	2.8	ND	1.6	0.3	2.8	50
Ethylbenzene	1.6	9.8	4.4	4.5	6.2	ND	2.2	ND	1.5	ND	2.2	700
Total Xylenes	17	130	64	73	84	3.5	34	1.7	20	8.8	35	1,000
Volatile Organic TICs	***654***	***1,543***	***785***	***649***	***1,027***	107	289	28	152	150	***555***	500*
BASE NEUTRALS												
1,4-Dichlorobenzene	0.9	5.0	ND	2.5	2.4	NT	2.5	NT	1.6	NT	2.2	75
1,2-Dichlorobenzene	7.3	42	37	22	23	NT	16	NT	11	NT	16	600
Naphthalene	3.3	25	13	15	18	NT	9.4	NT	6.3	NT	13	300
Acenaphthene	0.7	1.1	ND	ND	ND	NT	0.3	NT	0.2	NT	0.5	400
Diethylphthalate	ND	0.9	ND	1.1	1.0	NT	ND	NT	0.4	NT	ND	5,000
Fluorene	0.8	1.2	ND	ND	0.8	NT	ND	NT	0.4	NT	0.6	300
Phenanthrene	1.7	2.3	ND	0.7	1.1	NT	0.8	NT	0.7	NT	0.9	100
Anthracene	ND	0.4	ND	ND	0.4	NT	ND	NT	ND	NT	0.2	2,000
Di-n-butylphthalate	ND	ND	ND	ND	0.4	NT	ND	NT	ND	NT	ND	900
Fluoranthene	0.6	0.6	ND	ND	0.6	NT	0.4	NT	0.3	NT	0.4	300
Pyrene	ND	0.5	ND	ND	0.5	NT	0.3	NT	0.2	NT	0.4	200
Butylbenzylphthalate	ND	ND	ND	ND	0.8	NT	ND	NT	ND	NT	ND	100
Bis(2-ethylhexyl)phthalate	ND	ND	ND	ND	ND	NT	1.0	NT	0.6J	NT	1.3	30
Di-n-octylphthalate	ND	ND	ND	ND	0.3	NT	ND	NT	ND	NT	ND	100
Base Neutral TICs	256	***2,533***	***5,400***	***1,525***	***1,748***	NT	***1,103***	NT	478	NT	***815***	500*
PCBs												
Arochlor-1248	***0.65***	***1.1***	ND	ND	ND	NT	NT	NT	NT	NT	NT	0.5

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TABLE 4.9 (CONTINUED)
MW-15S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-15S												
Sample Date Laboratory Identification	4/24/01 270376	9/11/01 299943	11/16/01 316060	2/20/02 334233	5/8/02 349130	12/10/02 397475	6/13/03 434717	12/3/03 485773	6/9/04 536615	12/8/04 592328	5/24/05 636032	GWQS (µg/L)
METALS												
Arsenic	***11.6***	***38.3***	***13.6***	ND	4.2	5.9	6.2	***9.2***	8.0	***12.7***	ND	8
Beryllium	1.8	6.3	ND	ND	ND	ND	ND	ND	ND	0.93	ND	20
Cadmium	***88.1***	***290***	2.5	0.60	ND	ND	ND	2.7	4.5	***36***	3.2	4
Calcium	NT	NT	NT	NT	NT	NT	NT	ND	6,520	NT	NT	--
Chromium	42.9	***155***	5.5	4.1	ND	4.0	ND	5.7	9.1	35	12.0	100
Copper	105	400	22.2	28.8	12.5	34.7	14.0	32.6	20.8	118	18.5	1,000
Lead	***123***	***423***	8.9	4.4	3.6	ND	ND	3.6	6.8	***56***	6.7	10
Mercury	***98.6***	***352***	***5.9***	***5.7***	***6.2***	***5.5***	***3.5***	***2.5***	***6.2***	***36.7***	***5.6***	2
Nickel	***215***	***917***	***249***	***179***	***149***	57.8	75.8	46.5	81.6	***160***	80.3	100
Zinc	243	843	20.1	10.1	9.3	12.1	12.3	16.0	25.8	123	22.7	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.10

MW-16S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-16S													
Sample Date	4/27/01	9/12/01	11/19/01	2/21/02	5/8/02	12/10/02	3/2003	6/16/03	12/2/03	6/10/04	12/7/04	5/24/05	GWQS
Laboratory Identification	271024	299949	316705	334237	349126	397477	N/A	435846	484508	537103	591586	636029	(µg/L)
VOLATILE ORGANICS													
Benzene	0.3	ND	**6.7**	7.9	***10***	***4.5***	NT	***6.7***	ND	***1.4***	ND	0.5	1
Toluene	0.2	ND	0.6	0.6	0.7	0.8	NT	1.1	ND	1.1	ND	0.8	1,000
Chlorobenzene	ND	ND	0.4	0.3	ND	ND	NT	0.3	ND	ND	ND	ND	50
Ethylbenzene	0.4	0.4	ND	ND	ND	ND	NT	ND	ND	ND	ND	ND	700
Total Xylenes	0.6	0.4	ND	0.2	ND	ND	NT	0.3	ND	ND	ND	ND	1,000
Volatile Organic TICs	202	165	109	0.0	0.0	0.0	NT	0.0	0.0	0.0	0.0	0.0	50
BASE NEUTRALS													
Butylbenzylphthalate	ND	ND	ND	ND	0.6	NT	NT	NT	NT	NT	NT	NT	100
Base Neutral TICs	409	140	***541***	145	260	NT	NT	NT	NT	NT	NT	NT	500*
METALS													
Arsenic	4.6	10.9	8.0	ND	ND	ND	NT	4.1	ND	ND	ND	ND	8
Cadmium	0.77	1.4	ND	ND	ND	ND	NT	ND	0.51	ND	2.3	0.78	4
Chromium	5.2	7.1	ND	2.9	ND	ND	NT	ND	8.5	ND	10.1	16.5	100
Copper	16.3	14.2	7.5	7.2	12.1	12.1	NT	26.3	13.3	14.0	30.1	17.5	1,000
Lead	6.5	10.2	ND	ND	2.7	3.5	NT	***17.0***	2.3	3.6	9.1	9.6	10
Mercury	ND	ND	ND	0.10	ND	0.11	NT	0.25	0.40	0.29	***3.3***	1.2	2
Nickel	16.8	18.1	8.6	***880***	***557***	***165***	NT	***157***	64.4	***186***	74.9	***121***	100
Zinc	29.4	25.9	19.4	38.5	31.0	22.8	NT	18.6	22.7	30.5	31.9	35.2	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

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TABLE 4.11

MW-17S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-17S													
Sample Date Laboratory Identification	4/27/01 271026	9/12/01 299953	11/19/01 316707	2/21/02 334239	5/10/02 349591	12/11/02 397481	6/20/03 436850	9/25/03 465002	12/5/03 485780	6/16/04 538227	12/10/04 592335	5/23/05 635690	GWQS (µg/L)
VOLATILE ORGANICS													
Chloroform	ND	ND	ND	ND	ND	ND	NT	0.2	ND	ND	ND	ND	6
Trichloroethene	ND	ND	ND	ND	ND	ND	NT	0.4	ND	ND	ND	ND	1
Cis-1,2-Dichloroethene	ND	ND	ND	ND	ND	ND	NT	ND	ND	0.8	ND	ND	70
Benzene	***740***	***33***	***52***	***14***	***360***	ND	NT	***49***	***1.1***	***68***	ND	***76***	1
Tetrachloroethene	<2.8	0.9	1.0	0.6	0.7	ND	NT	0.3	ND	ND	ND	ND	1
Toluene	ND	ND	0.4	0.2	ND	ND	NT	ND	0.7	ND	ND	ND	1,000
Chlorobenzene	6.5	0.8	2.4	0.8	11	ND	NT	0.3	ND	5.5	ND	ND	
Ethylbenzene	ND	ND	0.5	ND	0.9	ND	NT	ND	ND	ND	ND	ND	700
Total Xylenes	12	1.0	2.3	0.3	2.7	ND	NT	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	37	14	41	ND	50	0.0	NT	0.0	4.3	0.0	0.0	0.0	500*
BASE NEUTRALS													
1,2-Dichlorobenzene	1.2	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	600
Naphthalene	2.0	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	NT	300
Base Neutral TICs	128	16	116	150	82	NT	NT	NT	NT	NT	NT	NT	500*
METALS													
Antimony	ND	***22.7***	14.1	ND	ND	ND	ND	NT	ND	ND	ND	ND	20
Arsenic	***8.2***	***29.8***	***22.0***	ND	ND	ND	ND	NT	ND	ND	ND	6.8	8
Cadmium	***4.6***	0.78	ND	ND	ND	1.2	ND	NT	0.57	ND	0.69	0.59	4
Chromium	5.6	6.6	ND	ND	ND	11.7	ND	NT	3.0	ND	ND	ND	100
Copper	36.4	31.6	18.5	6.4	11.1	20.4	5.4	NT	17.5	ND	14.3	6.9	1,000
Lead	7.1	4.2	5.3	ND	ND	7.8	ND	NT	ND	ND	ND	ND	10
Mercury	0.90	0.89	0.36	0.12	0.11	0.84	0.28	NT	ND	0.09	ND	0.14	2
Nickel	12.0	10.1	9.3	ND	ND	11.2	ND	NT	5.4	ND	ND	ND	100
Selenium	***73.7***	***72.5***	16.7	ND	ND	ND	ND	NT	ND	ND	ND	ND	
Silver	1.7	1.4	0.75	ND	ND	ND	ND	NT	ND	ND	ND	ND	
Zinc	25.5	18.6	8.3	ND	14.6	23.7	19.1	NT	11.4	18.9	14.6	18.5	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

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TABLE 4.12
MW-18S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-18S									
Sample Date Laboratory Identification	4/25/01 271014	9/12/01 299951	11/19/01 316709	2/21/02 334241	5/8/02 349128	6/18/03 436841	6/14/04 538221	5/24/05 636036	GWQS (µg/L)
VOLATILE ORGANICS									
Trichloroethene	ND	ND	ND	ND	0.8	ND	ND	ND	1
Benzene	***6.3***	***21***	***10***	***4.4***	***12***	***3.6***	ND	0.4	1
Tetrachloroethene	0.4	0.4	0.4	ND	ND	ND	0.7	ND	1
Toluene	0.2	0.3	0.3	0.4	0.9	1.3	ND	0.5	1,000
Chlorobenzene	2.1	14	4.2	0.3	2.1	ND	ND	ND	50
Ethylbenzene	0.7	4.4	1.6	ND	ND	ND	ND	ND	700
Total Xylenes	3.6	19	6.1	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	44	437	87	ND	3.1	3.2	0.0	0.0	500*
BASE NEUTRALS									
1,4-Dichlorobenzene	2.8	6.1	3.0	ND	ND	NT	NT	NT	75
1,2-Dichlorobenzene	13	19	7.0	ND	ND	NT	NT	NT	600
Naphthalene	1.0	3.9	2.0	ND	ND	NT	NT	NT	300
Acenaphthene	2.2	1.6	ND	ND	ND	NT	NT	NT	400
Fluorene	2.5	3.5	0.8	ND	ND	NT	NT	NT	300
Phenanthrene	5.4	4.7	ND	ND	ND	NT	NT	NT	100
Anthracene	1.1	1.5	ND	ND	ND	NT	NT	NT	2,000
Fluoranthene	2.2	1.5	0.7	ND	ND	NT	NT	NT	300
Pyrene	1.6	1.0	ND	ND	ND	NT	NT	NT	200
Benzo(a)anthracene	***1.0***	ND	ND	ND	ND<0.4	NT	NT	NT	0.2
Chrysene	0.6	ND	ND	ND	ND	NT	NT	NT	5
Benzo(b)fluoranthene	0.6	ND	ND	ND	ND	NT	NT	NT	10
Benzo(a)pyrene	***0.4***	ND	ND	ND	ND	NT	NT	NT	0.2
Base Neutral TICs	66	136	***525***	380	0.0	NT	NT	NT	500*

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TABLE 4.12 (CONTINUED)
MW-18S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-18S									
Sample Date Laboratory Identification	4/25/01 271014	9/12/01 299951	11/19/01 316709	2/21/02 334241	5/8/02 349128	6/18/03 436841	6/14/04 538221	5/24/05 636036	GWQS (µg/L)
METALS									
Arsenic	ND	***20.2***	4.0	7.0	3.5	ND	ND	ND	8
Beryllium	ND	4.8	ND	0.50	ND	ND	ND	ND	20
Cadmium	0.76	2.1	ND	0.58	ND	ND	ND	ND	4
Calcium	ND	ND	ND	ND	ND	ND	44,900	ND	–
Chromium	6.5	***105***	8.3	24.1	4.7	7.7	15.4	14.7	100
Copper	14.4	172	25.1	40.5	17.8	10.6	39.8	14.1	1,000
Lead	6.6	***97.6***	3.4	***16.7***	3.8	ND	ND	ND	10
Mercury	0.38	***4.2***	ND	0.68	0.21	0.11	0.17	0.13	2
Nickel	10.3	***148***	12.1	24.0	5.2	5.8	11.2	9.0	100
Selenium	ND	11.2	ND	ND	ND	ND	ND	ND	50
Zinc	38.0	402	24.2	53.5	20.1	38.5	33.3	18.5	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.13

MW-19S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-19S												
Sample Date Laboratory Identification	4/24/01 270372	9/11/01 299945	11/16/01 316062	2/20/02 334235	5/9/02 349585	12/11/02 397479	6/16/03 435849	12/4/03 485776	6/10/04 537105	12/9/04 592331	5/23/05 635686	GWQS (µg/L)
VOLATILE ORGANICS												
Benzene	***64***	***57***	***15***	***4.1***	0.7	***4.5***	***4.2***	ND	0.3	ND	ND	1
Toluene	1.3	ND	ND	0.3	ND	0.6	1.1	ND	0.2	0.4	ND	1,000
Chlorobenzene	***190***	***98***	24	0.2	0.3	ND	0.4	ND	ND	0.5	ND	50
Ethylbenzene	2.1	1.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	700
Total Xylenes	4.9	2.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	179	90	24.2	ND	0.0	0.0	0.0	0.0	0.0	0.0	0.0	500*
BASE NEUTRALS												
1,2-Dichlorobenzene	29	14	4.2	ND	ND	NT	NT	NT	NT	NT	NT	600
Naphthalene	1.0	ND	ND	ND	ND	NT	NT	NT	NT	NT	NT	300
Acenaphthene	0.8	0.6	ND	ND	ND	NT	NT	NT	NT	NT	NT	400
Fluorene	1.6	0.9	ND	ND	ND	NT	NT	NT	NT	NT	NT	300
Phenanthrene	2.6	1.2	ND	ND	ND	NT	NT	NT	NT	NT	NT	100
Base Neutral TICs	***886***	***836***	469	174	0.0	NT	NT	NT	NT	NT	NT	500*
METALS												
Arsenic	ND	***13.7***	4.4	ND	ND	4.7	4.6	ND	ND	ND	ND	8
Cadmium	***4.2***	***4.6***	1.1	0.54	0.45	1.6	3.1	1.1	1.3	ND	0.98	4
Chromium	3.9	16.8	5.7	3.3	ND	ND	ND	2.6	ND	7.2	5.2	100
Copper	22.1	30.5	6.9	6.4	9.7	4.4	6.1	18.6	5.5	15.3	18.0	1,000
Lead	2.7	4.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	10
Mercury	1.4	***2.3***	0.22	0.19	0.16	0.79	0.45	0.68	0.37	0.42	0.54	2
Nickel	14.5	17.0	10.0	7.3	5.2	4.1	4.5	5.3	ND	7.4	5.7	100
Silver	ND	ND	ND	ND	ND	ND	1.1	ND	ND	ND	ND	30
Zinc	38.0	30.4	13.0	14.7	23.8	22.8	11.7	18.7	19.0	15.7	21.5	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

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TABLE 4.14
MW-20S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-20S									
Sample Date Laboratory Identification	4/23/01 270369	5/9/02 349587	3/27/03 417653	6/19/03 436847	12/4/03 485778	6/15/04 538225	12/9/04 592333	5/23/05 635684	GWQS (µg/L)
VOLATILE ORGANICS									
Benzene	***6,700***	***6.0***	0.9	***1.3***	ND	0.7	0.6	0.7	1
Tetrachloroethene	ND<28	0.3	ND	ND	ND	ND	ND	ND	1
Toluene	ND	0.6	ND	0.9	ND	0.3	0.4	ND	1,000
Chlorobenzene	ND	ND	0.5	ND	ND	ND	0.4	ND	50
Total Xylenes	ND	ND	ND	0.5	ND	ND	ND	ND	1,000
Volatile Organic TICs	0.0	0.0	0.0	0.0	3.9	0.0	0.0	0.0	50
BASE NEUTRALS									
Phenanthrene	0.7	ND	NT	NT	NT	NT	NT	NT	100
Base Neutral TICs	92	500	NT	NT	NT	NT	NT	NT	500*
METALS									
Arsenic	***11.7***	ND	ND	ND	ND	ND	ND	ND	8
Beryllium	0.82	ND	ND	ND	ND	ND	ND	ND	20
Cadmium	***4.4***	0.52	1.6	ND	0.42	ND	ND	ND	4
Chromium	38.6	ND	4.6	ND	ND	3.4	2.9	4.0	100
Copper	80.3	7.5	8.0	5.7	14.1	7.7	8.6	19.1	1,000
Lead	***68.2***	ND	2.8	2.5	ND	ND	ND	ND	10
Mercury	***7.4***	0.33	0.71	0.22	0.24	0.30	0.25	0.20	2
Nickel	***106***	16.7	13.9	10.1	7.4	10.2	10	8.8	100
Selenium	ND	ND	ND	ND	15.0	ND	10.8	10.3	50
Zinc	147	19.4	44.7	28.8	10.8	28.7	14.4	30.6	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870055

TABLE 4.15
MW-21S ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-21S						
Sample Date Laboratory Identification	4/24/01 270372	5/9/02 349589	6/18/03 436844	6/14/04 538223	5/23/05 635688	GWQS (µg/L)
VOLATILE ORGANICS						
Benzene	***13***	***18***	***1.6***	***2.3***	ND	1
Tetrachloroethene	0.3	ND	ND	ND	ND	1
Toluene	ND	0.7	1.0	ND	ND	1,000
Chlorobenzene	2.4	0.4	0.5	0.4	ND	50
Ethylbenzene	ND	0.3	ND	ND	ND	700
Total Xylenes	ND	1.2	0.5	ND	ND	1,000
Volatile Organic TICs	47	6.5	0.0	0.0	0.0	500*
BASE NEUTRALS						
Naphthalene	ND	0.8	ND	ND	ND	300
Fluorene	ND	0.6	ND	ND	ND	300
Phenanthrene	ND	0.8	ND	ND	ND	100
Bis(2-ethylhexyl)phthalate	ND	ND	ND	0.7J	ND	30
Base Neutral TICs	11	***1,712***	0.0	8.5	ND	500*
METALS						
Arsenic	ND	***9.2***	ND	4.0	ND	8
Beryllium	ND	1.1	ND	0.24	ND	20
Cadmium	***8.3***	***26.5***	***13.7***	***10.0***	1.2	4
Chromium	2.9	56.2	ND	29.4	ND	100
Copper	10.9	76.8	4.3	22.7	10.0	1,000
Lead	2.9	***46.5***	ND	12.1	ND	10
Mercury	***2.6***	***36.8***	0.34	***11.5***	0.20	2
Nickel	15.0	92.5	13.0	38.2	4.4	100
Zinc	20.9	164	27.1	57.3	16.4	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870056

TABLE 4.16
MW-1D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-1D									
Sample Date Laboratory Identification	4/23/01 270366	5/10/02 349594	12/10/02 397478	6/12/03 434714	12/2/03 484507	6/9/04 536613	12/7/04 591585	5/25/05 636838	GWQS (µg/L)
VOLATILE ORGANICS									
Methylene Chloride	ND	ND	ND	ND	1.0	ND	ND	ND	3
Benzene	***120***	***3,700***	***600***	***85***	***100***	***5.2***	***28***	***16***	1
Toluene	ND	ND	ND	ND	0.9	ND	0.7	ND	1,000
Chlorobenzene	12	***100***	***120***	36	***160***	***53***	***190***	***120***	50
Ethylbenzene	ND	ND	ND	ND	1.0	ND	1.5	ND	700
Volatile Organic TICs	0.0	0.0	0.0	4.4	118	12	93	121	500*
BASE NEUTRALS									
Naphthalene	ND	0.8	NT	NT	NT	NT	NT	NT	300
Base Neutral TICs	58	425	NT	NT	NT	NT	NT	NT	500*
METALS									
Cadmium	***5.0***	0.52	NT	3.8	NT	2.8	NT	3.7	4
Chromium	ND	4.3	NT	5.9	NT	3.9	NT	7.1	100
Copper	23.9	8.7	NT	9.9	NT	18.8	NT	33.8	1,000
Lead	***30.3***	3.5	NT	7.0	NT	5.2	NT	***11.9***	10
Mercury	***9.5***	***2.6***	NT	***3.0***	NT	***2.6***	NT	***6.3***	2
Nickel	6.8	9.3	NT	4.9	NT	6.3	NT	10.8	100
Zinc	48.1	39.5	NT	36.0	NT	48.3	NT	52.1	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the Interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870057

TABLE 4.26 (CONTINUED)
MW-18D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-18D											
Sample Date	4/25/01	9/12/01	11/20/01	2/22/02	5/13/02	3/27/03	6/18/03	12/4/03	6/14/04	12/9/04	5/25/05	GWQS
Laboratory Identification	271015	299952	316714	334246	350146	417652	436843/2	485775	538222	592330	636836	(µg/L)
METALS												
Arsenic	ND	4.8	ND	ND	ND	NT	ND	NT	ND	NT	ND	8
Cadmium	1.2	0.64	ND	ND	ND	NT	ND	NT	ND	NT	ND	4
Chromium	2.2	4.7	3.0	ND	ND	NT	ND	NT	5.0	NT	3.1	100
Copper	24.4	32.0	4.9	ND	ND	NT	ND	NT	ND	NT	ND	1,00[illegible]
Lead	ND	2.5	ND	ND	ND	NT	ND	NT	ND	NT	ND	10
Mercury	0.15	ND	ND	ND	ND	NT	ND	NT	ND	NT	ND	2
Nickel	***283***	***292***	***297***	***116***	***109***	NT	***222***	NT	***219***	NT	***214***	100
Silver	1.3	ND	ND	ND	ND	NT	ND	NT	ND	NT	ND	30
Zinc	36.9	19.4	19.1	6.8	14.2	NT	17.7	NT	8.5	NT	ND	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

**(TIC) :The listed GWQS is relative to individual TICs that lack carcinogenic evidence.

BOLD : Concentration reported above the listed GWQS.

958870058

TABLE 4.27

MW-19D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-19D												
Sample Date Laboratory Identification	4/24/01 270373	9/11/01 299946	11/20/01 316715	2/22/02 334247	5/14/02 350138	12/12/02 397488	6/16/03 435851	12/4/03 485777	6/10/04 537106	12/9/04 592332	5/23/05 635687	GWQS (µg/L)
VOLATILE ORGANICS												
Benzene	***2.1***	***7.5***	***4.8***	***160***	***140***	***3.1***	ND	***4.6***	0.8	***4.5***	0.6	1
Toluene	ND	ND	ND	0.9	ND	ND	0.5	ND	ND	ND	ND	1,000
Chlorobenzene	1.6	5.8	3.9	1.1	7.2	4.8	1.1	5.9	1.3	7.1	1.9	50
Ethylbenzene	ND	ND	ND	0.5	1.2	1.6	ND	ND	ND	ND	ND	700
Total Xylenes	2.1	1.3	ND	28	2.5	ND	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	58	80	26	125	8.1	0.0	0.0	25	0.0	20	0.0	500
BASE NEUTRALS												
1,2-Dichlorobenzene	ND	ND	0.9	ND	ND	NT	NT	NT	NT	NT	NT	600
Acenaphthylene	ND	0.6	ND	ND	ND	NT	NT	NT	NT	NT	NT	–
Di-n-butylphthalate	0.4	ND	ND	ND	0.4	NT	NT	NT	NT	NT	NT	900
Base Neutral TICs	34	94	137	432	132	NT	NT	NT	NT	NT	NT	500
METALS												
Arsenic	5.1	5.9	3.5	ND	ND	ND	3.9	NT	ND	NT	ND	8
Cadmium	0.65	1.1	***8.4***	0.46	ND	ND	ND	NT	ND	NT	ND	4
Chromium	8.3	5.6	6.5	3.2	ND	3.1	ND	NT	ND	NT	ND	100
Copper	4.3	13.3	2.1	8.9	3.5	ND	3.4	NT	2.3	NT	4.6	1,000
Mercury	1.4	0.50	ND	0.13	ND	ND	ND	NT	0.08	NT	ND	2
Nickel	7.4	5.6	4.9	ND	ND	ND	ND	NT	ND	NT	ND	100
Silver	ND	ND	0.76	ND	ND	ND	0.77	NT	ND	NT	ND	30
Zinc	15.5	20.8	12.3	14.9	14.8	9.4	10.2	NT	15.9	NT	9.6	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870059

TABLE 4.17
MW-1DD ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-1DD						
Sample Date Laboratory Identification	4/23/01 270367	5/10/02 349595	6/12/03 434716/5	6/9/04 536614	5/25/05 636839	GWQS (µg/L)
VOLATILE ORGANICS						
Benzene	0.4	***1.9***	0.9	0.9	ND	1
Toluene	ND	0.3	ND	ND	ND	1,000
Chlorobenzene	ND	0.4	0.5	ND	ND	50
Volatile Organic TICs	3.3	0.0	0.0	0.0	0.0	500*
BASE NEUTRALS						
Fluoranthene	0.5	ND	NT	NT	NT	300
Pyrene	0.4	ND	NT	NT	NT	200
Base Neutral TICs	215	150	NT	NT	NT	500*
METALS						
Arsenic	3.8	ND	ND	ND	ND	8
Cadmium	***17.2***	***6.7***	1.7	***5.3***	1.9	4
Chromium	ND	6.5	2.9	2.0	4.5	100
Copper	81.2	31.0	10.2	17.9	10.3	1,000
Lead	***36.7***	***19.8***	4.0	***11.4***	5.2	10
Mercury	***68.0***	***20.0***	***4.6***	***7.5***	***2.5***	2
Nickel	18.6	11.6	3.9	5.0	5.4	100
Zinc	107	170	40.5	31.6	14.5	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870060

TABLE 4.18
MW-4D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-4D								
Sample Date Laboratory Identification	4/25/01 271010	5/13/02 350142	3/27/03 417651	6/11/03 434711/0	12/2/03 484506	6/8/04 536611	12/7/04 591584	5/24/05 636026	GWQS (µg/L)
VOLATILE ORGANICS									
Vinyl Chloride	ND	***8.6***	ND	ND	ND	ND	0.7	ND	5
1,1-Dichloroethene	ND	0.9	ND	ND	ND	ND	ND	ND	2
1,1-Dichloroethane	ND	6.6	ND	ND	ND	ND	ND	ND	50
Cis-1,2-Dichloroethene	1.4	17	1.2	1.1	1.4	0.7	3.0	ND	70
Benzene	***650***	***280***	***53***	***14***	***9.7***	***5.3***	***4.9***	***33***	1
Toluene	2.4	0.8	0.5	ND	ND	ND	0.4	ND	1,000
Chlorobenzene	19	8.2	1.1	0.8	1.6	0.7	0.8	ND	50
Ethylbenzene	24	1.0	ND	ND	ND	ND	ND	ND	700
Total Xylenes	44	0.9	ND	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	***557***	6.4	5.3	7.2	19	24	18	12	500*
BASE NEUTRALS									
1,2-Dichlorobenzene	15	1.5	NT	ND	NT	0.6	NT	ND	600
Bis(2-ethylhexyl)phthalate	ND	ND	NT	2.5	NT	ND	NT	1.4	30
Base Neutral TICs	***10,358***	***666***	NT	62	NT	284	NT	***857***	500*
METALS									
Cadmium	***1.7***	***13.6***	1.5	***6.3***	ND	1.6	1.1	0.69	4
Chromium	ND	ND	ND	6.0	3.8	6.1	4.7	4.3	100
Copper	95.8	56.8	15.9	142	15.4	100	28.4	25.6	1,000
Lead	***10.2***	2.4	ND	5.0	ND	9.0	ND	ND	10
Mercury	0.13	0.40	ND	0.75	ND	0.23	0.29	0.18	2
Nickel	12.0	14.5	8.2	20.7	6.6	13.9	13.7	9.8	100
Silver	1.6	ND	ND	ND	ND	1.9	ND	ND	30
Zinc	32.7	65.4	33.9	43.3	16.1	33.3	21.5	21.1	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

TABLE 4.19
MW-7D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-7D					
Sample Date Laboratory Identification	12/13/02 397492	3/26/03 417648	6/17/03 435853	6/11/04 537108	5/25/05 636842	GWQS (µg/L)
VOLATILE ORGANICS						
Volatile Organics	0.0	0.0	NT	NT	NT	500*
BASE NEUTRALS						
Naphthalene	ND	0.3	NT	NT	NT	300
Diethylphthalate	ND	3.6	NT	NT	NT	5,000
N-Nitrosodiphenylamine	ND	0.9	NT	NT	NT	20
Phenanthrene	ND	0.2	NT	NT	NT	100
Di-n-butylphthalate	ND	0.6	NT	NT	NT	900
Bis(2-Ethylhexyl)phthalate	ND	***74 B***	NT	NT	NT	30
Di-n-octylphthalate	ND	3.1	NT	NT	NT	100
Base Neutral TICs	0.0	446	NT	NT	NT	500*
METALS						
Cadmium	***5.2***	***747***	***45.5***	***36.5***	***28.8***	4
Chromium	ND	4.1	3.5	3.6	23.3	100
Copper	9.9	48.6	13.4	19.0	20.6	1,000
Lead	2.5	***13.4***	4.1	4.0	5.5	10
Mercury	0.37	***3.6***	0.80	1.2	0.7	2
Nickel	5.4	62.0	15.6	26.7	43.0	100
Zinc	28.5	97.5	24.0	29.6	22.6	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870062

TABLE 4.20

MW-10D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-10D								
Sample Date Laboratory Identification	4/25/01 271012	5/13/02 350143	12/11/02 397484	6/10/03 434705	12/1/03 484503	6/8/04 536607	12/6/04 591581	5/24/05 636028	GWQS (µg/L)
VOLATILE ORGANICS									
Chloromethane	ND	ND	ND	ND	ND	1.6	ND	ND	30
Vinyl Chloride	ND	4.7	ND	ND	ND	ND	ND	ND	5
1,1-Dichloroethene	ND	0.9	ND	ND	ND	ND	ND	ND	2
1,1-Dichloroethane	ND	3.3	ND	ND	ND	ND	ND	ND	50
Cis-1,2-Dichloroethene	0.3	18	2.2	0.8	ND	ND	0.7	ND	70
Trichloroethene	ND	***2.3***	1.0	ND	ND	ND	ND	ND	1
Benzene	***53***	***11***	***16***	***47***	***4.0***	***49***	***23***	***9.1***	1
Toluene	0.3	0.5	ND	ND	ND	ND	ND	ND	1,000
Chlorobenzene	15	3.8	6.3	13	1.7	18	17	5.8	50
Volatile Organic TICs	***756***	123	74	123	46	221	59	50	500*
BASE NEUTRALS									
Diethylphthalate	ND	0.5	NT	NT	NT	NT	NT	NT	5,000
Base Neutral TICs	***886***	348	NT	NT	NT	NT	NT	NT	500*
METALS									
Antimony	ND	ND	18	ND	ND	16.3	4.6	6.9	20
Arsenic	ND	ND	***12.1***	ND	ND	4.6	ND	ND	8
Beryllium	ND	ND	0.13	ND	ND	ND	0.17	ND	20
Cadmium	***22.3***	2.0	***60.4***	ND	3.8	***56.3***	***42.8***	2.0	4
Chromium	4.7	3.2	45.5	ND	4.4	47.4	22.8	4.8	100
Copper	145	14.0	275	3.5	21.1	281	177	4.9	1,000
Lead	***44.1***	3.2	***335***	ND	***18.3***	***264***	***130***	ND	10
Mercury	***17.1***	0.78	***39.2***	0.16	***2.2***	***45.0***	***24.2***	0.20	2
Nickel	37.5	16.4	***113***	11.7	18.0	***112***	***73.8***	14.9	100
Silver	1.5	ND	5.9	ND	ND	4.8	1.1	1.8	30
Zinc	287	110	2,840	35.8	142	2,100	1,270	37.8	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

TABLE 4.21
MW-11D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH DECEMBER 2004
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-11D	
Sample Date Laboratory Identification	5/14/02 350141	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	0.6	1
BASE NEUTRALS		
Base Neutrals	ND	–
METALS		
Cadmium	0.41	4
Chromium	3.5	100
Copper	49.6	1,000
Nickel	4.5	100
Zinc	26.4	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.22
MW-13D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-13D								
Sample Date Laboratory Identification	4/26/01 271022	5/13/02 350144	12/12/02 397485	6/11/03 434708	12/2/03 484505	6/8/04 536609	12/6/04 591583	5/24/05 636034	GWQS (µg/L)
VOLATILE ORGANICS									
Vinyl Chloride	ND	ND	2.7	ND	ND	ND	ND	ND	5
Methylene Chloride	ND	ND	ND	ND	ND	0.9	ND	ND	3
1,1-Dichloroethane	ND	ND	1.1	ND	ND	ND	ND	ND	50
Trans-1,2-Dichloroethene	0.6	0.7	0.4	ND	ND	0.3	ND	ND	100
Cis-1,2-Dichloroethene	0.9	0.5	1.3	ND	ND	ND	ND	ND	70
Benzene	***8.5***	***1.2***	***15***	0.7	***9.0***	***34***	***280***	***4.1***	1
Toluene	ND	ND	ND	ND	0.8	0.3	ND	ND	1,000
Chlorobenzene	29	27	38	5.7	15	***51***	***300***	12	50
Volatile Organic TICs	221	142	190	24	50	91	50	0	500*
BASE NEUTRALS									
1,4-Dichlorobenzene	2.2	0.9	NT	NT	NT	NT	NT	NT	75
1,2-Dichlorobenzene	3.0	ND	NT	NT	NT	NT	NT	NT	600
Base Neutral TICs	303	270	NT	NT	NT	NT	NT	NT	500*
METALS									
Cadmium	***22.9***	***11.1***	1.1	ND	1.5	***14.8***	0.83	***4.7***	4
Chromium	3.1	15.4	10.2	ND	12.5	38.0	5.8	9.1	100
Copper	114	46.8	15.5	ND	12.2	64.1	24.3	33.9	1,000
Lead	***13.0***	6.4	3.9	ND	3.1	***15.0***	ND	3.8	10
Mercury	0.18	0.24	ND	ND	ND	0.37	ND	ND	2
Nickel	24.3	38.8	49.5	29.2	51.0	69.4	36.5	38.9	100
Silver	1.3	ND	ND	ND	ND	2.9	ND	ND	30
Zinc	197	104	25.7	7.8	24.4	97.3	27.6	32.9	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

TABLE 4.23

MW-15D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-15D												
Sample Date Laboratory Identification	4/24/01 270377	9/11/01 271025	11/19/01 316712	2/21/02 334244	5/14/02 350137	12/12/02 397486	6/13/03 435844	12/3/03 485774	6/9/04 536616	12/8/04 592329	5/24/05 636033	GWQS (µg/L)
VOLATILE ORGANICS												
Cis-1,2-Dichloroethene	ND	3.5	ND	11	ND	ND	ND	ND	ND	ND	ND	70
Benzene	***1,200***	***1,500***	***2,600***	***3,500***	***2,600***	***3,700***	***3,600***	***1,400***	***1,200***	***2,200***	***2,600***	1
Chlorobenzene	29	ND	11	12	9.7	ND	12	11	ND	ND	ND	50
Ethylbenzene	16	15	32	42	30	34	ND	26	15	40	16	700
Total Xylenes	55	92	84	28	11	ND	20	25	20	56	39	1,000
Volatile Organic TICs	423	***1,081***	***1,241***	***790***	***641***	***610***	430	***1,087***	377	***1,130***	***1,076***	500
BASE NEUTRALS												
1,2-Dichlorobenzene	14	2.6	7.7	13	8.6	NT	ND	NT	6.1	NT	ND	600
Naphthalene	1.6	1.2	44	54	21	NT	33	NT	30	NT	45	300
Acenaphthene	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	400
Diethylphthalate	0.7	14	17	28	20	NT	ND	NT	5.2	NT	ND	5,000
Phenanthrene	0.5	ND	ND	ND	ND	NT	ND	NT	0.3	NT	0.092	100
Di-n-butylphthalate	0.5	ND	ND	ND	ND	NT	ND	NT	ND	NT	ND	900
Bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	NT	ND	NT	1.3	NT	ND	30
Base Neutral TICs	***1,667***	***4,821***	***7,332***	***3,708***	***1,955***	NT	***3,353***	NT	***2,068***	NT	***1,768***	500*
METALS												
Arsenic	ND	4.1	6.0	ND	3.9	3.9	ND	NT	ND	NT	ND	8
Beryllium	0.40	ND	ND	ND	ND	ND	ND	NT	ND	NT	ND	20
Cadmium	ND	1.2	ND	***4.5***	ND	ND	ND	NT	ND	NT	ND	4
Chromium	13.5	5.9	6.1	4.2	2.9	5.4	ND	NT	5.4	NT	3.9	100
Copper	17.7	15.0	ND	4.0	ND	ND	2.4	NT	3.7	NT	ND	1,000
Lead	5.6	ND	ND	ND	ND	ND	ND	NT	ND	NT	ND	10
Mercury	0.57	0.27	ND	0.25	ND	ND	0.11	NT	ND	NT	ND	2
Nickel	20.9	13.9	7.6	7.3	5.2	5.9	4.2	NT	6.5	NT	5.1	100
Zinc	44.0	26.9	7.8	17.3	6.8	12.3	11.0	NT	98.6	NT	10.5	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

BOLD : Concentration reported above the listed GWQS.

NT : Not Tested.

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

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TABLE 4.24

MW-16D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-16D										
Sample Date Laboratory Identification	4/27/01 271025	9/12/01 299950	11/20/01 316713	2/22/02 334245	5/13/02 350145	12/12/02 397487	6/16/03 435848/7	6/10/04 537104	5/24/05 636030	GWQS (µg/L)
VOLATILE ORGANICS										
Cis-1,2-Dichloroethene	ND	0.2	ND	0.4	ND	ND	ND	ND	ND	70
Benzene	0.7	***4.3***	***12***	***33***	***5.0***	0.5	ND	ND	ND	1
Toluene	ND	ND	ND	0.5	0.4	ND	0.7	ND	ND	1,000
Chlorobenzene	4.9	16	18	34	21	24	1.7	0.8	0.9	50
Ethylbenzene	ND	ND	0.5	4.3	2.6	1.2	ND	ND	ND	700
Total Xylenes	ND	ND	ND	0.9	ND	ND	ND	ND	ND	1,000
Volatile Organic TICs	4.0	ND	70	265	84	96	0.0	0.0	0.0	500*
BASE NEUTRALS										
1,2-Dichlorobenzene	ND	1.8	4.6	14	14	NT	NT	NT	NT	600
Naphthalene	ND	ND	ND	0.9	ND	NT	NT	NT	NT	300
Di-n-butylphthalate	0.5	ND	ND	ND	ND	NT	NT	NT	NT	900
Di-n-octylphthalate	ND	ND	ND	ND	0.2	NT	NT	NT	NT	100
Base Neutral TICs	55	52	223	307	122	NT	NT	NT	NT	500*
METALS										
Arsenic	ND	***10.3***	ND	ND	ND	NT	4.1	ND	ND	8
Cadmium	***5.3***	0.61	ND	ND	ND	NT	ND	ND	ND	4
Chromium	4.8	4.1	4.0	ND	ND	NT	ND	4.3	8.3	100
Copper	13.8	6.3	5.1	ND	2.6	NT	2.2	4.3	ND	1,000
Lead	3.2	ND	ND	ND	ND	NT	ND	ND	ND	10
Mercury	0.26	ND	ND	ND	ND	NT	ND	0.06	0.17	2
Nickel	7.6	5.2	5.2	8.3	7.5	NT	ND	6.7	6.0	100
Silver	ND	ND	ND	ND	ND	NT	0.89	ND	ND	30
Thallium	ND	ND	ND	ND	ND	NT	4.8	ND	ND	1,000
Zinc	51.9	24.9	8.0	7.3	13.4	NT	8.5	23.6	8.9	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

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TABLE 4.25
MW-17D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-17D											
Sample Date Laboratory Identification	4/27/01 271027	9/12/01 299954	11/19/01 316711	2/21/02 334243	5/10/02 349593	12/11/02 397483	6/20/03 436852	12/5/03 485781	6/16/04 538228	12/10/04 592336	5/23/05 635691	GWQS (µg/L)
VOLATILE ORGANICS												
Benzene	***30,000***	***27,000***	***32,000***	***35,000***	***34,000***	***24,000***	***43,000***	***35,000***	***38,000***	***46,000***	***35,000***	1
Chlorobenzene	***520***	***400***	***410***	***380***	***350***	***340***	***530***	***460***	***560***	***830***	***420***	50
Volatile Organic TICs	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	***4,200***	0.0	500*
BASE NEUTRALS												
1,4-Dichlorobenzene	1.8	1.3	1.4	1.0	ND	NT	1.0	NT	0.9	NT	1.0	75
1,2-Dichlorobenzene	2.8	2.5	2.5	1.8	1.5	NT	1.2	NT	0.7	NT	ND	600
Naphthalene	2.6	2.2	2.0	1.3	1.0	NT	2.2	NT	2.5	NT	2.3	300
Diethylphthalate	ND	ND	ND	ND	ND	NT	ND	NT	0.4	NT	ND	5,000
Phenanthrene	0.6	ND	ND	ND	ND	NT	ND	NT	ND	NT	ND	100
Di-n-butylphthalate	1.2	ND	ND	ND	ND	NT	ND	NT	ND	NT	ND	900
Bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	NT	0.6	NT	2.8	NT	ND	30
Base Neutral TICs	***2,577***	***1,701***	***2,038***	***1,088***	***1,208***	NT	***2,151***	NT	***2,040***	NT	***1,564***	500*
METALS												
Arsenic	ND	3.8	ND	ND	ND	4.4	3.7	NT	ND	NT	ND	8
Cadmium	1.5	ND	0.57	ND	ND	ND	ND	NT	ND	NT	ND	4
Chromium	1.9	5.3	ND	ND	6.1	ND	ND	NT	5.0	NT	3.7	100
Copper	9.5	7.7	7.3	5.9	9.6	ND	3.4	NT	10.9	NT	3.2	1,000
Mercury	0.27	0.18	0.13	0.19	0.18	0.12	0.18	NT	0.42	NT	0.16	2
Nickel	9.3	11.0	5.5	6.7	8.0	5.3	4.3	NT	7.7	NT	6.0	100
Silver	1.2	ND	ND	ND	ND	ND	ND	NT	ND	NT	ND	30
Zinc	24.7	17.7	9.4	10.3	17.8	28.5	19.9	NT	25.3	NT	19.4	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870068

TABLE 4.26
MW-18D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-18D												
Sample Date Laboratory Identification	4/25/01 271015	9/12/01 299952	11/20/01 316714	2/22/02 334246	5/13/02 350146	3/27/03 417652	6/18/03 436843/2	12/4/03 485775	6/14/04 538222	12/9/04 592330	5/25/05 636836	GWQS (µg/L)
VOLATILE ORGANICS												
Trans-1,2-Dichloroethene	ND	ND	ND	0.6	ND	ND	ND	ND	ND	ND	ND	100
Cis-1,2-Dichloroethene	4.6	2.4	ND	6.2	1.2	ND	1.8	ND	ND	ND	ND	70
Benzene	***750***	***480***	***400***	***310***	***210***	***110***	***520***	***220***	***500***	***200***	***600***	1
Toluene	3.6	3.4	3.3	1.5	ND	ND	2.1	1.2	1.8	1.4	ND	1,000
Chlorobenzene	***740***	***550***	***510***	***380***	***230***	***180***	***840***	***390***	***810***	***420***	***810***	50
Ethylbenzene	88	120	130	67	32	40	120	90	100	68	84	70
Total Xylenes	54	72	75	30	4.8	5.3	26	13	36	11	28	1,000
VOLATILE ORGANIC TICS												
Total VO-TICs	***1,125***	***1,154***	***1,118***	***877***	297	313	***1,136***	111	450	772	440	500*
Trimethlybenzene Isomer	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	260	100**
2,3-dihyro-1H-Indene	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	180	100**
BASE NEUTRALS												
1,4-Dichlorobenzene	72	48	71	43	26	NT	***96***	NT	***82***	NT	61	75
1,2-Dichlorobenzene	170	68	97	110	86	NT	160	NT	120	NT	55	600
Bis(2-chloroisopropyl)ether	ND	ND	ND	ND	ND	NT	ND	NT	0.5J	NT	ND	300
Naphthalene	62	35	82	38	18	NT	66	NT	12	NT	4.6	300
Acenaphthylene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	0.6	–
Acenaphthene	ND	ND	ND	ND	ND	NT	ND	ND	ND	NT	0.6	–
Fluorene	ND	ND	ND	ND	ND	NT	ND	NT	0.8	NT	1.2	300
Phenanthrene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.6	100
Anthracene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.4	2,000
Fluoranthene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.5	30
Pyrene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.6	200
Benzo(a)anthracene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	***0.7***	0.2
Chrysene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.5	5
Bis(2-Ethylhexyl)phthalate	ND	ND	ND	ND	ND	NT	2.4	NT	1.1	NT	1.2	30
Benzo(b)fluoranthene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.4	10
Benzo(k)fluoranthene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.5	1
Benzo(a)pyrene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	***0.4***	0.2
Indeno(1,2,3-cd)pyrene	ND	ND	ND	ND	ND	NT	ND	NT	ND	NT	0.2	10
Base Neutral TICs	***1,342***	***1,133***	***1,915***	402	432	NT	***1,174***	NT	***1,120***	NT	***914***	500*

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TABLE 4.28
MW-20D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-20D					
Sample Date Laboratory Identification	4/23/01 270368	5/14/02 350139	6/19/03 436846/5	6/15/04 538226	5/23/05 635685	GWQS (µg/L)
VOLATILE ORGANICS						
Benzene	***66***	***86***	***32***	***8.9***	***18***	1
Toluene	0.3	0.6	0.4	ND	ND	1,000
Chlorobenzene	46	3.8	ND	4.0	ND	50
Total Xylenes	0.3	ND	ND	ND	ND	1,000
Volatile Organic TICs	9.6	0.0	3.6	3.1	0.0	500*
BASE NEUTRALS						
Di-n-butylphthalate	1.0	ND	NT	NT	NT	900
Base Neutral TICs	99	0.0	NT	NT	NT	500*
METALS						
Arsenic	***16.5***	ND	ND	ND	ND	8
Beryllium	2.5	ND	ND	ND	ND	20
Chromium	66.2	ND	3.2	4.9	6.2	100
Copper	69.6	4.0	ND	13.6	68.6	1,000
Lead	***29.5***	ND	ND	ND	ND	10
Mercury	0.68	ND	ND	ND	0.1	2
Nickel	87.9	ND	ND	4.6	5.2	100
Zinc	198	17.8	23.3	26.7	30.9	5,000

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
-- : No criteria listed for this compound.
NT : Not Tested.
TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteria.
BOLD : Concentration reported above the listed GWQS.

958870070

TABLE 4.29

MW-21D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – APRIL 2001 THROUGH MAY 2005

830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

MW-21D									
Sample Date Laboratory Identification	4/24/01 270375	5/14/02 350140	12/12/02 397489	6/19/03 436849	12/5/03 485779	6/15/04 538224	12/10/04 592334	5/23/05 635689	GWQS (µg/L)
VOLATILE ORGANICS									
Benzene	***3,500***	***19,000***	***3,300***	***3,000***	***1,600***	***1,300***	***650***	***1,700***	1
Toluene	47	ND	ND	26	17	15	8.1	18	1,000
Chlorobenzene	***250***	***1,200***	***390***	***300***	***220***	***170***	***98***	***220***	50
Ethylbenzene	220	260	39	170	120	98	50	120	700
Total Xylenes	***1,200***	***1,200***	41	410	260	240	120	390	1,000
Volatile Organic TICs	***4,250***	***1,100***	160	***3,550***	***1,666***	***1,610***	***665***	***3,515***	500*
BASE NEUTRALS									
1,4-Dichlorobenzene	ND	50	NT	ND	NT	0.9	NT	ND	75
1,2-Dichlorobenzene	120	78	NT	27	NT	9.1	NT	4.0	600
Naphthalene	ND	9.8	NT	ND	NT	1.5	NT	1.5	300
Diethylphthalate	ND	0.9	NT	ND	NT	0.4	NT	ND	5,000
Fluorene	ND	ND	NT	ND	NT	ND	NT	0.3	300
Phenanthrene	1.0	ND	NT	ND	NT	ND	NT	ND	100
Di-n-butylphthalate	2.3	ND	NT	ND	NT	ND	NT	ND	900
Bis(2-Ethylhexyl)phthalate	ND	ND	NT	ND	NT	0.8	NT	ND	30
Base Neutral TICs	***2,822***	***5,160***	NT	***3,168***	NT	***2,476***	NT	***2,549***	500*
METALS									
Arsenic	6.7	ND	NT	ND	NT	ND	NT	ND	8
Beryllium	0.15	ND	NT	ND	NT	ND	NT	ND	20
Cadmium	***7.0***	ND	NT	ND	NT	ND	NT	ND	4
Chromium	6.0	4.0	NT	ND	NT	3.9	NT	4.2	100
Copper	11.3	ND	NT	ND	NT	3.3	NT	ND	1,000
Lead	2.8	ND	NT	ND	NT	ND	NT	ND	10
Mercury	0.32	0.10	NT	ND	NT	0.08	NT	ND	2
Nickel	11.2	11.0	NT	4.2	NT	6.3	NT	6.0	100
Zinc	35.3	13.9	NT	15.1	NT	15.3	NT	13.0	5,000

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870071

TABLE 4.30
MW-22D ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – JUNE 2003 THROUGH MAY 2005
830 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	MW-22D			
Sample Date Laboratory Identification	8/16/04 555380	12/7/04 591587	5/24/05 636035	GWQS (µg/L)
VOLATILE ORGANICS				
1,2-Dichloroethane	ND	0.9	ND	2
Benzene	***47***	***79***	***60***	1
Toluene	ND	2.6	7.1	1,000
Ethylbenzene	ND	1.5	1.0	700
Total Xylenes	ND	4.6	1.4	1,000
VOLATILE ORGANIC TICs				
Total VO-TICs	ND	***652***	432	500*
2-Pentanone, 4,4-dimethyl- (TIC)	NA	NA	***180***	100**
C7H14O Ketone (TIC)	NA	NA	***150***	100**

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

**(TIC) :The listed GWQS is relative to individual TICs that lack carcinogenic evidence.

BOLD : Concentration reported above the listed GWQS.

958870072

Table 5
Summary of NJPDES-DSW Effluent Monitoring Results
January through June 2005
Outfall DSN-002A
NJPDES –DSW Permit No. NJ0102270

Parameter	1/05	2/05	3/05	4/05	5/05	**6/05	*Daily Max Permit Limit
pH (units)	6.86	6.89	7.12	6.94	7.07	Q	8.5
TSS (mg/L)	Q	<3	Q	Q	<3	Q	40
IC25 7day chronic toxicity (%)	Q	>100	Q	Q	53	SA	61%
COD (mg/L)	Q	7.1	Q	Q	6.6	Q	50
Total Arsenic (ug/L)	Q	<3.2	Q	Q	<4.5	Q	100
Total Mercury (ug/L)	0.11	0.21	<0.1	<0.1	<0.1	Q	1
Naphthalene (ug/L)	Q	<0.04	Q	Q	<0.02	Q	59
Bis2-(ethylhexyl)phthalate (ug/L)	Q	<0.8	Q	Q	<1.0	SA	30
1,2-Dichloroethane (ug/L)	Q	<0.4	Q	Q	<0.3	SA	3
Benzene (ug/L)	<0.3	<0.3	<0.3	<0.3	<0.3	Q	7
Tetrachloroethylene (ug/L)	Q	<0.4	Q	Q	<0.4	SA	9
PCBs (ug/L)	Q	<0.3	Q	Q	<0.3	A	NL

PCBs: Includes the following Arochlors: 1016, 1221, 1232, 1242, 1248, 1254, and 1260
Q: Not Tested; Quarterly Monitoring Parameter
SA: Not Tested; Semi-annual Monitoring Parameter
A: Not Tested; Annual Monitoring Parameter
*Daily Max: Maximum allowable daily concentration except for chronic toxicity; IC25 7 day chronic toxicity limit is reported as minimum allowable percent reproduction.
NL: No Limit.
**: NJPDES-DSW Permit renewal with modified monitoring frequencies effective June 1, 2005.

958870073

TABLE 6.1
HP-1 ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – MAY 19, 2005
833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ

	HP-1	
Sample Date Laboratory Identification	5/19/05 634467	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	ND	1
BASE NEUTRALS		
Naphthalene	1.4	300
Fluorene	0.3	300
Phenanthrene	3.1	100
Anthracene	0.7	2,000
Fluoranthene	5.4	300
Pyrene	5.2	200
Benzo(a)anthracene	***2.9***	0.2
Chrysene	3.1	5
Bis(2-Ethylhexyl)phthalate	2.1	30
Benzo(b)fluoranthene	2.2	10
Benzo(k)fluoranthene	***2.9***	1
Benzo(a)pyrene	***2.3***	0.2
Indeno(1,2,3-cd)pyrene	0.8	10
Benzo(g,h,i)perylene	0.9	100
Base Neutral TICs	78	500*

All results reported in micrograms per liter (µg/L).
GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.
– : No criteria listed for this compound.
NT : Not Tested.
*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).
ND : Compound Not Detected above laboratory method detection limit and associated criteri
BOLD : Concentration reported above the listed GWQS.

958870074

TABLE 6.2 HP-2 ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – MAY 19, 2005 833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ		
	HP-2	
Sample Date Laboratory Identification	5/19/05 634468	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	***92***	1
BASE NEUTRALS		
Naphthalene	72	300
Acenaphthene	16	400
Fluorene	14	300
Phenanthrene	39	100
Anthracene	5.7	2,000
Bis(2-Ethylhexyl)phthalate	22	30
Base Neutral TICs	***2,180***	500*

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

TABLE 6.3 HP-3 ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – MAY 19, 2005 833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ		
HP-3		
Sample Date Laboratory Identification	5/19/05 634469	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	***310***	1
BASE NEUTRALS		
1,4-Dichlorobenzene	1.2	75
1,2-Dichlorobenzene	1.4	600
Naphthalene	3.5	300
Acenaphthene	1.1	400
Phenanthrene	0.4	100
Bis(2-Ethylhexyl)phthalate	1.6	30
Base Neutral TICs	***2,654***	500*

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteria.

BOLD : Concentration reported above the listed GWQS.

958870076

TABLE 6.4 HP-4 ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – MAY 19, 2005 833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ		
	HP-4	
Sample Date Laboratory Identification	5/19/05 634470	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	***2.0***	1

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

-- : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteri.

BOLD : Concentration reported above the listed GWQS.

958870077

TABLE 6.5 HP-5 ANALYTICAL HITS SUMMARY FOR GROUND WATER SAMPLES – MAY 19, 2005 833 MAGNOLIA AVENUE – DEGUSSA CORPORATION – ELIZABETH, NJ		
	HP-5	
Sample Date Laboratory Identification	5/19/05 634471	GWQS (µg/L)
VOLATILE ORGANICS		
Benzene	***3.1***	1

All results reported in micrograms per liter (µg/L).

GWQS :Ground Water Quality Standard represents the higher of NJDEP Ground Water Quality Criteria and Practical Quantitation Levels for listed compound.

– : No criteria listed for this compound.

NT : Not Tested.

*TICs :Tentatively Identified Compounds; the listed GWQS is relative to the interim generic criteria for synthetic organic compounds lacking carcinogenic evidence (maximum total concentration).

ND : Compound Not Detected above laboratory method detection limit and associated criteri.

BOLD : Concentration reported above the listed GWQS.

Table 7
Summary of NJPDES-DSW Effluent Monitoring Results
Compared to NJDEP Ground Water Quality Standards
August 2001 through June 2005
Outfall DSN-002A
NJPDES –DSW Permit No. NJ0102270

Parameter	8/01	9/01	10/01	11/01	12/01	1/02	2/02	3/02	4/02	5/02	6/02	7/02	8/02	9/02	10/02	11/02	12/02	GWQS	*Daily Max Permit Limit
pH (units)	7.57	7.40	7.18	7.48	7.55	7.12	7.22	7.47	6.99	6.96	7.03	6.46	6.97	6.69	NA	NA	NA	6.5-8.5	8.5
TSS (mg/L)	Q	<2	Q	<2	Q	Q	4	Q	Q	Q	Q	2	Q	7	NA	NA	NA	NL	40
IC25 7day chronic toxicity (%)	Q	79.2	Q	59.8	Q	Q	76.8	Q	Q	Q	Q	36.4	Q	65.2	NA	NA	NA	NL	61%
COD (mg/L)	Q	21	Q	22	Q	Q	24	Q	Q	Q	Q	34.5	Q	13.4	NA	NA	NA	NL	50
Total Arsenic (ug/L)	Q	<3.4	Q	<3.4	Q	Q	<3.4	Q	Q	Q	Q	<3.4	Q	<3.4	NA	NA	NA	8	100
Total Mercury (ug/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	NA	NA	NA	2	1
Naphthalene (ug/L)	Q	<0.6	Q	<0.7	Q	Q	<0.7	Q	Q	Q	Q	<0.6	Q	<0.3	NA	NA	NA	300	59
Bis2-(ethylhexyl)phthalate (ug/L)	Q	<0.4	Q	<0.5	Q	Q	<0.5	Q	Q	Q	Q	<0.4	Q	<0.2	NA	NA	NA	30	30
1,2-Dichloroethane (ug/L)	Q	<0.2	Q	<0.2	Q	Q	<0.2	Q	Q	Q	Q	<0.4	Q	<0.4	NA	NA	NA	2	3
Benzene (ug/L)	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.3	<0.3	<0.3	<0.3	<0.3	NA	NA	NA	1	7
Tetrachloroethylene (ug/L)	Q	<0.3	Q	<0.3	Q	Q	<0.2	Q	Q	Q	Q	<0.2	Q	<0.2	NA	NA	NA	1	9
PCBs (ug/L)	Q	<0.3	Q	<0.3	Q	Q	<0.3	Q	Q	Q	Q	<0.3	Q	<0.3	NA	NA	NA	0.5	NL

PCBs: Includes the following Arochlors: 1016, 1221, 1232, 1242, 1248, 1254, and 1260
NA: Not Applicable – No discharge during this monitoring period.
Q: Not Tested; Quarterly Monitoring Parameter
*Daily Max: Maximum allowable daily concentration except for chronic toxicity; IC25 7 day chronic toxicity limit is reported as minimum allowable percent reproduction.
NL: No Limit.
GWQS: NJDEP Ground Water Quality Standard.

Table 7 (Continued)
Summary of NJPDES-DSW Effluent Monitoring Results
Compared to NJDEP Ground Water Quality Standards
August 2001 through June 2005
Outfall DSN-002A
NJPDES -DSW Permit No. NJ0102270

Parameter	1/03	2/03	3/03	4/03	5/03	6/03	7/03	8/03	9/03	10/03	11/03	12/03	1/04	2/04	3/04	4/04	5/04	6/04	GWQS	*Daily Max Permit Limit
pH (units)	NA	6.78	7.64	6.96	7.30	7.73	NA	7.21	7.16	7.23	8.11	7.46	7.17	NA	7.83	7.36	7.50	7.30	6.5-8.5	8.5
TSS (mg/L)	NA	Q	5	Q	<3	Q	NA	<3	Q	Q	3	Q	Q	NA	<3	Q	<3	Q	NL	40
IC25 7day chronic toxicity (%)	NA	>100	>100	24.3 54.2	>100	>100	NA	>100	>100	>100	>100	>100	Q	NA	>100	Q	77.4	Q	NL	61%
COD (mg/L)	NA	Q	14.2	Q	14.5	Q	NA	4.2	Q	Q	<3	Q	Q	NA	6.45	Q	ND	Q	NL	50
Total Arsenic (ug/L)	NA	Q	<3.4	Q	<3.4	Q	NA	<3.4	Q	Q	<3.2	Q	Q	NA	<3.2	Q	<3.2	Q	8	100
Total Mercury (ug/L)	NA	<0.1	<0.1	<0.1	<0.1	<0.1	NA	<0.1	<0.1	<0.1	<0.1	<0.1	0.13	NA	<0.1	<0.1	0.11	<0.1	2	1
Naphthalene (ug/L)	NA	Q	<0.2	Q	<0.042	Q	NA	<0.04	Q	Q	<0.04	Q	Q	NA	<0.04	Q	<0.04	Q	300	59
Bis2-(ethylhexyl)phthalate (ug/L)	NA	Q	2.7	Q	<0.6	Q	NA	<0.6	Q	Q	<0.6	Q	Q	NA	<0.6	Q	<0.6	Q	30	30
1,2-Dichloroethane (ug/L)	NA	Q	<0.4	Q	<0.3	Q	NA	<0.3	Q	Q	<0.3	Q	Q	NA	<0.3	Q	<0.3	Q	2	3
Benzene (ug/L)	NA	<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	NA	<0.3	<0.3	<0.3	<0.3	1	7
Tetrachloroethylene (ug/L)	NA	Q	<0.2	Q	<0.3	Q	NA	<0.3	Q	Q	<0.3	Q	Q	NA	<0.3	Q	<0.3	Q	1	9
PCBs (ug/L)	NA	Q	<0.3	Q	<0.3	Q	NA	<0.3	Q	Q	<0.3	Q	Q	NA	<0.3	Q	<0.3	Q	0.5	NL

PCBs: Includes the following Arochlors: 1016, 1221, 1232, 1242, 1248, 1254, and 1260
NA: Not Applicable – No discharge during this monitoring period.
Q: Not Tested; Quarterly Monitoring Parameter
*Daily Max: Maximum allowable daily concentration except for chronic toxicity; IC25 7 day chronic toxicity limit is reported as minimum allowable percent reproduction.
NL: No Limit.
GWQS: NJDEP Ground Water Quality Standard.

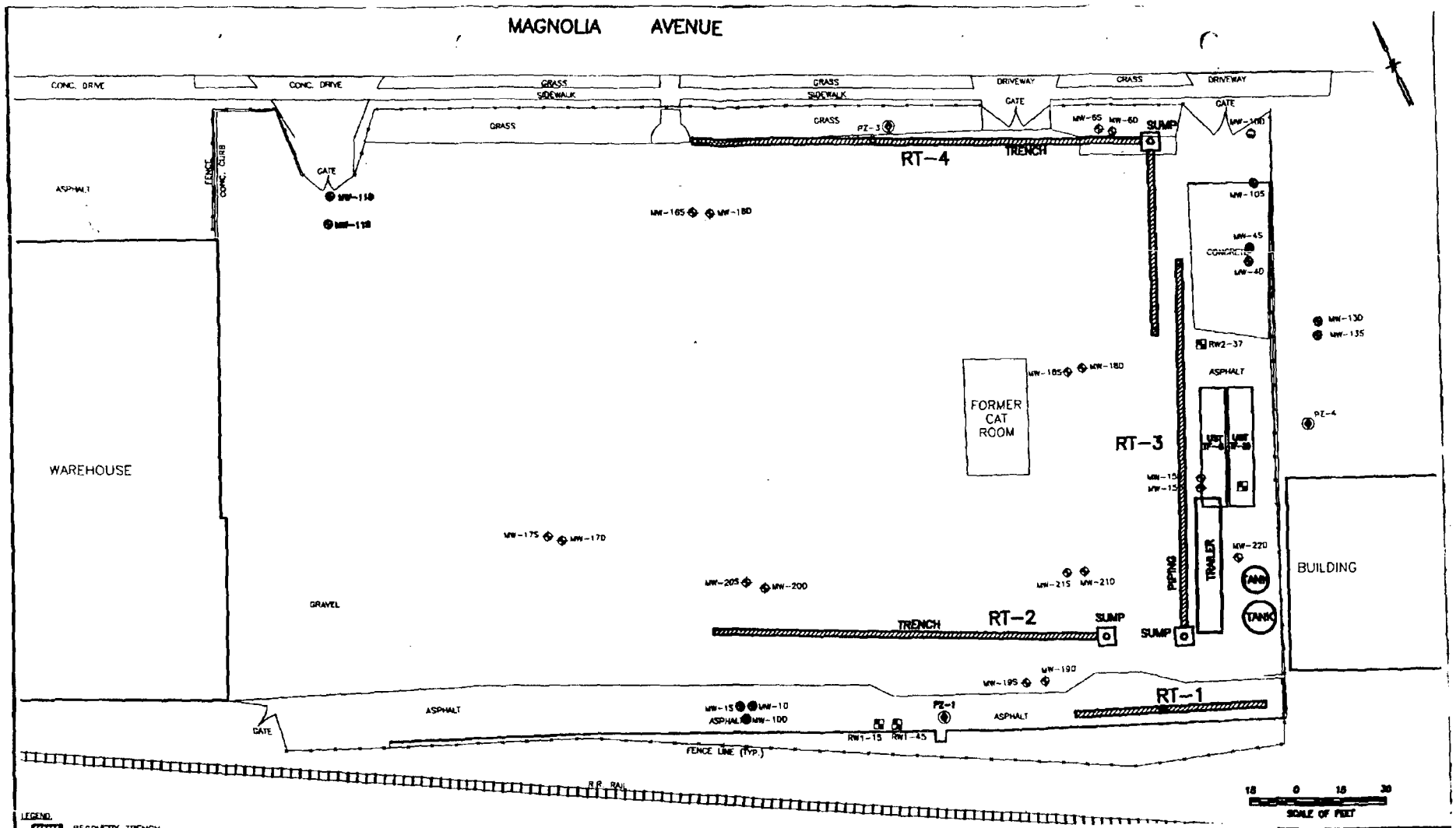
Table 7(Continued)
Summary of NJPDES-DSW Effluent Monitoring Results
Compared to NJDEP Ground Water Quality Standards
August 2001 through June 2005
Outfall DSN-002A
NJPDES –DSW Permit No. NJ0102270

Parameter	7/04	8/04	9/04	10/04	11/04	12/04	1/05	2/05	3/05	4/05	5/05	**6/05	GWQS	*Daily Max Permit Limit
pH (units)	7.22	7.22	7.03	7.29	6.92	7.17	6.68	6.89	7.12	6.94	7.07	Q	6.5-8.5	8.5
TSS (mg/L)	Q	<3	Q	Q	<3	Q	Q	<3	Q	Q	<3	Q	NL	40
IC25 7day chronic toxicity (%)	Q	72.9	Q	Q	>100	Q	Q	>100	Q	Q	53	SA	NL	61%
COD (mg/L)	Q	7.9	Q	Q	7.6	Q	Q	7.1	Q	Q	6.6	Q	NL	50
Total Arsenic (ug/L)	Q	<3.2	Q	Q	<3.5	Q	Q	<3.2	Q	Q	<4.5	Q	8	100
Total Mercury (ug/L)	<0.1	<0.1	<0.1	<0.1	<0.1	<0.1	0.11	0.21	<0.1	<0.1	<0.1	Q	2	1
Naphthalene (ug/L)	Q	<0.04	Q	Q	<0.04	Q	Q	<0.04	Q	Q	<0.02	Q	300	59
Bis2-(ethylhexyl)phthalate (ug/L)	Q	<0.6	Q	Q	<0.8	Q	Q	<0.8	Q	Q	<1.0	SA	30	30
1,2-Dichloroethane (ug/L)	Q	<0.4	Q	Q	<0.4	Q	Q	<0.4	Q	Q	<0.3	SA	2	3
Benzene (ug/L)	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	<0.3	Q	1	7
Tetrachloroethylene (ug/L)	Q	<0.4	Q	Q	<0.4	Q	Q	<0.4	Q	Q	<0.4	SA	1	9
PCBs (ug/L)	Q	<0.3	Q	Q	<0.3	Q	Q	<0.3	Q	Q	<0.3	A	0.5	NL

PCBs: Includes the following Arochlors: 1016, 1221, 1232, 1242, 1248, 1254, and 1260
NA: Not Applicable – No discharge during this monitoring period.
Q: Not Tested; Quarterly Monitoring Parameter
*Daily Max: Maximum allowable daily concentration except for chronic toxicity; IC25 7 day chronic toxicity limit is reported as minimum allowable percent reproduction.
NL: No Limit.
**: NJPDES-DSW Permit renewal with modified monitoring frequencies effective June 1, 2005.
GWQS: NJDEP Ground Water Quality Standard.

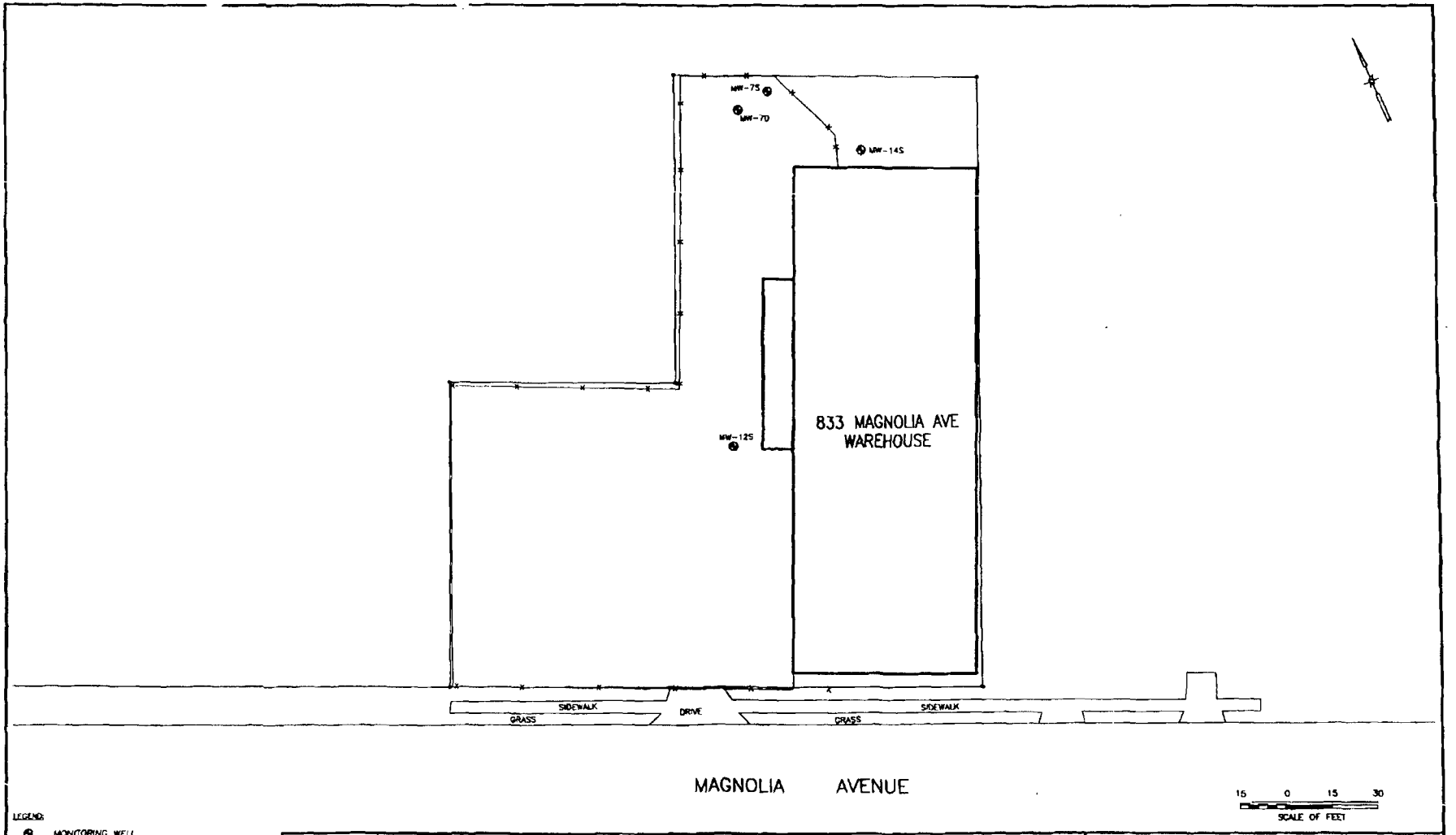
FIGURES

FIGURES



SCALE: 1"=30'	CHECKED BY: B.M.	ECM environmental compliance monitoring, inc.	DEGUSSA CORPORATION ELIZABETH, NEW JERSEY	DESCRIPTION: FIGURE 1 MONITORING WELL, RECOVERY WELL AND RECOVERY TRENCH LOCATIONS 830 MAGNOLIA AVENUE
DATE: 02/17/03	DRAWING NO: FCONT021703			

958870084



LEGEND:
MONITORING WELL

SCALE: 1"=30'	CHECKED BY: B.M.	ECM environmental compliance monitoring, inc.	DEGUSSA CORPORATION ELIZABETH, NEW JERSEY	DESCRIPTION: FIGURE 2 MONITORING WELL LOCATIONS AT 833 MAGNOLIA AVENUE
DATE: 07/02/01	DRAWING NO: FCONT			

958870085

958870086

NUODEX INC.
A Basalis Company
Turner Place, P.O. Box 365
Piscataway, New Jersey 08854
(201) 981-5000

Elizabeth

October 20, 1986

RECEIVED
OCT 23 1986
STATE OF NEW JERSEY
DEPT. ENVIRONMENTAL PROTECTION
DIVISION WATER RESOURCES
BUR. OF IND. WASTE MGMT.

Mr. Muhammed Shaikh
Industrial Waste Management
Water Quality Management
New Jersey Department of
Environmental Protection
CN-029
Trenton, NJ 08625

Dear Mr. Shaikh:

Attached are the required applications for an SIU/NJPDES permit for treating our waste water effluent at our Elizabeth, NJ plant.

As stated at our pre-application conference meeting on August 22, 1986, the mercury and vinyl operations have been permanently shut down. Therefore, mercury, barium and cadmium will no longer be part of our effluent.

As was also indicated at the pre-application conference, there are three discharge points at the plant. However, only one of these is monitored as the other two discharge only non-contact cooling water.

The method utilized to determine surfactants by our environmental consultant, International Technology, is defined by Standard Methods for the Examination of Water and Wastewater, method number 512B.

We would again like to thank you for the extension granted us in filing the application.

Sincerely yours,

John Saraka Jr. RTP
John Saraka, Jr.
Plant Manager

ec
Attachment

BBB000001

958870087

State of New Jersey
DEPARTMENT OF ENVIRONMENTAL PROTECTION

TO BPA
11-13-86

STANDARD APPLICATION FORM (CP # 1)
CONSTRUCTION AND DISCHARGE PERMITS

READ REQUIREMENTS
PLEASE TYPE OR PRINT

1. Applicant/Owner* Nuodex Inc., A huls Company Telephone (201) 981-5000
   Permanent Legal Address Turner Place, P. O. Box 365
   City or Town Piscataway State New Jersey Zip Code 08854

2. Location of Work Site Elizabeth
   Name of Facility, if applicable Nuodex Inc., A huls Company
   Street/Road 830 Magnolia Avenue,
   Lot No. 1178 Block No. 08
   City or Town Elizabeth State New Jersey Zip Code 07201
   Municipality Elizabeth County Union

3. If applicable, give name of: Engineer/Surveyor/Well Driller/Geologist/Soil Scientist *(Specify)*.
   Name _____ N.J. License No. _____
   Name of Firm, if employee _____
   Address _____ County _____
   Municipality _____ State _____ Zip Code _____
   Telephone ( ) _____

4. This is an application for NJPDES/SIU Permit Permit
   (Name of permit, certification, approval or exemption. See Item 9. Next Page.)

5. Fee is attached (If applicable). $ _____ (No fee required for compost application.)
   (Provide explanation of how fee was calculated. Read Requirements Section of Standard Application booklet.)

6. Estimated construction cost of project: N/A
   a. $ _____ total cost of the project.
   b. $ _____ portion for which this permit is requested.

7. I have included certifications of any public notifications. Yes _____ No _____ N/A

8. If applicable:
   (For Waterfront Development and Stream Encroachment applications, 8c. must be completed.)
   a. Source of Water Supply Elizabethtown Water
   b. For Treatment at (Water Treatment Plant) N/A
   c. Stream, Waterway, Pond or Lake N/A
   d. Wastewater Treatment Facility Joint Meeting Sewerage Authority

* *Applicant/Owner must be the individual or municipality, public agency, utility, company, industry who will be the eventual owner and operator of said facility (sewer extension or treatment works) when completed.*

2/85

FOLLOW INSTRUCTIONS CAREFULLY

958870088

9. Have any other applications for this site/project been submitted, or have any state permits been issued for this project? *(If yes, ste status and project number below.)*

No ....X..... Yes ..... Decision .....

	PERMIT TYPE *(Use additional sheets if necessary.)*	APPLICATION STATUS (PENDING - APPROVED)	PROJECT #
9.1	CAFRA		
9.2	Waterfront Development (Riparian)		
9.3	Wetlands		
9.4	Purchase Water		
	Diversion:		
9.5	Divert Water Supply for Public Use		
9.6	Divert Surface Waters for Private Use		
9.7	Divert Subsurface/Percolating Water for Private Use		
9.8	Well Drilling		
9.9	Permanent Water Lowering		
9.10	Temporary Water Lowering		
9.11	Construct/Modify, Operate Public Potable Water Works		
9.12	Connection between an approved water supply and non-approved supply		
9.13	Water Quality Certification		
9.14	Construct/Repair Dam		
9.15	Stream Encroachment		
9.16	Sewer Systems: Collectors, Pump Station, etc.		
9.17	Exemption from Sewer Ban		
9.18	New Jersey Pollutant Discharge Elimination System (Specify)	STU	
9.19	Solid Waste Permits (Specify)		
9.20	Air Quality Permits (Specify)		
9.21	Delaware and Raritan Canal Review Zone "Certificate of Approval"		
9.22	Pinelands Certificate		
9.23	Other State agencies' permits		
9.24	Local Permits	Permit for	Joint Meeting
9.25	Federal Permits		

10. Brief Description of the Proposed Project and Intended Use:

The Elizabeth Plant collects all its effluent from metal soaps manufacturing in a separation tank which separates the organic from the Aqueous. The organic is stored as waste solvent and incinerated by a licensed disposer (Keystone). The Aqueous is treated with sulfide and ppt heavy metal sulfides are filtered free and the filtrate discharged to the Joint Meeting sewers under permit. (SEE ATTACHED DESCRIPTION - WATER TREATMENT SYSTEM)

11. I hereby certify that the information furnished on this application (and the attachments) is true. I am aware that false swearing is a crime in this State and subject to prosecution.

John R. Hodgson, Oct. 20, 1986
Type: Name and Date

John R Hodgson
Signature of Applicant

Vice President, Env. & Reg. Affairs
Type: Position

10-20-86
Date

958870089

ENDORSEMENTS

SOME PERMIT APPLICATIONS REQUIRE SPECIFIC ENDORSEMENTS OF OWNERS, AGENTS, MUNICIPALITIES, ETC. ENDORSEMENTS MAY BE REQUIRED FOR YOUR PERMIT.

VERIFY THE NEED FOR ENDORSEMENTS IN THE "REQUIREMENTS" SECTION OF THE STANDARD APPLICATION FORM CP #1 BOOKLET OR WITH THE APPROPRIATE DEP AGENCY.

****

A. PROPERTY OWNER'S CERTIFICATION*† N/A

I hereby certify that _____
Property Owner's Name

is the owner of the property upon which the proposed work is to be done. This endorsement is certification that the owner grants permission for the conduct of the proposed activity.

In addition, the aforementioned property owner shall certify:

1. Whether any work is to be done within an easement — Yes _____ *(initial)* No _____ *(initial)*
2. Whether any part of the entire project (i.e., pipeline, roadway, cable, transmission line, etc.) will be located within property belonging to the State of New Jersey.
   Yes _____ *(initial)* No _____ *(initial)*

_____
_____
_____
Type or Print Name and Address of Owner, if different from Item 1 on Page 1

_____ *Date*

_____ *Signature of Owner*

* *Not required for Sewer System Application.*
† Required for the Land Application of Sludge, Septage or Compost.

B. APPLICANT'S AGENT N/A

I, the applicant (name) _____
authorize to act as my agent/representative in all matters pertaining to my application the following person:

Name _____ Phone _____

Address _____ County _____

City or Town _____ State _____ Zip Code _____

Occupation/Profession _____

_____
Signature of Applicant

AGENT'S CERTIFICATION

Sworn before me
this _____ day of
_____ 19____

I agree to serve as agent for the above-named applicant

_____ *Notary Public*

_____ *Signature of Agent*

958870090

C. PROPER CONSTRUCTION AND OPERATION CLAUSE (Sewer Extensions, Treatment Works Approv ~ Water Works)

I, the applicant, agree that the works will be properly constructed and operated in accordance with the engineering plans and specifications, as approved, and the conditions under which approval is granted by the State Department of Environmental Protection.

Signature of Applicant

D. STATEMENT OF PREPARER OF PLANS, SPECIFICATIONS AND ENGINEER'S REPORT

I hereby certify that the engineering plans, specifications and engineer's report applicable to this project comply with the current rules and regulations of the State Department of Environmental Protection with the exceptions as noted.

Signature of Engineer

Type: Name and Date

PROFESSIONAL ENGINEER'S EMBOSSED SEAL

Position, Name of Firm

E. OWNER'S COMPLIANCE WARRANT (NJPDES ONLY)

I, the owner, hereby agree that any treatment works constructed to meet the NPDES/NJPDES permit discharge limits will be properly constructed and operated to meet those limits. I also warrant that the discharge(s) will meet the effluent limitations as described in the NPDES/NJPDES permit, as issued, subject to my rights to contest such limitations under Section 8 of the NJPDES Regulations (N.J.A.C. 7:14A-1 et seq.).

John K Hodgson

Signature of Owner

Vice President, Env. & Regulatory Affairs

Title

October 20, 1986

Date

958870091

Form WQM-001
1/85

STATE OF NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM
SUPPLEMENT TO THE STANDARD APPLICATION FORM CP #1

APPLICATION TO DISCHARGE WASTEWATERS AND RESIDUALS TO THE STATE'S LAND AND WATER

Answer all questions. Please print or type.

1. Circle the letter(s) for those discharge activities presently conducted or to be conducted as part of the facility's operation. (Seasonal facility operation shall be considered as a present operation.)
   In the space provided, indicate if there is an existing NJPDES or NJPDES permit for each circled activity (yes/no).
   In the space provided, indicate if this application is for a "new" source, and "existing" source, or a "renewal" of a current permit.

DISCHARGE ACTIVITY	YES/NO	NEW, EXISTING, RENEWAL
A. Sanitary Surface Water Discharge		
B. Industrial/Commercial Surface Water Discharge		
C. Thermal Surface Water Discharge		
D. Land Application of Sludge and Septage		
E. Land Application of Industrial Waste Residuals		
F. Landfill – Industrial/Commercial Waste		
G. Spray Irrigation – Industrial		
H. Overland Flow – Industrial		
I. Infiltration/Percolation Lagoon – Industrial		
J. Surface Impoundment – Industrial		
K. Underground Injection (UIC) – Industrial		
L. Indirect Discharge to POTW (SIU)	No	Existing
M. Subsurface Disposal – Industrial		
N. Community Septic System		
O. Landfill – Municipal/Sanitary		
P. Spray Irrigation – Sanitary		
Q. Overland Flow – Sanitary		
R. Infiltration/Percolation Lagoon – Sanitary		
S. Surface Impoundment – Sanitary		
T. Underground Injection (UIC) – Sanitary		
U. Dredge Spoils		
V. Sludge Processing/Distribution Facility		
W. Oil/Water Separators		
X. Confidentiality Request		
Y. 316 Variance Work		
Z. Residuals Transfer Facilities		
1. Municipal Solid Waste Transfer Facility		
2. Sanitary Sludge Storage Facility		
3. Residuals Infiltration/Percolation Lagoon		
4. Residuals Surface Impoundment		
5. Group I – Stormwater Runoff		
6. Group II – General Permit Stormwater Runoff		
7. Underground Storage Tank		

2. Location of Discharge: Latitude 40°41' Longitude 74°08'

   Receiving Stream City of Elizabeth (Joint Meeting)

   River Basin Arthur Kill

(Over)

958870092

3. Name and address of applicant's parent corporation, subsidiary, or partnership data. *(Attach additional sheets if necessary.)*

Name Nuodex Inc., A Huls Company Telephone No. (201) 981-5000

Mailing Address Turner Place, P.O. Box 365

City or Town Piscataway State N.J. Zip Code 08854

4. Facility's Contact Person *(This person must be responsible for and familiar with the facility operation.)*

Name Mr. Robert Poemer Telephone No. (201) 354-4372

Address of Operator 830 Magnolia Ave.

City or Town Elizabeth State N.J. Zip Code 07201

5. Is the facility a: ☐ Federal Facility ☐ Public Facility (a local government subdivision) ☐ State Facility ☒ Private Facility

6. List in order of priority all Standard Industrial Codes (SIC) which best reflect the principal products or services provided by the facility.

SIC	PRODUCTS OR SERVICES PROVIDED
2869	Manufactured Mettallic Salts of Acyclic Organic Chemical

7. If applicable, identify all administrative orders, temporary or permanent injunctions, civil administrative penalties, civil penalties, or criminal actions concerning pollution issued against the facility during the last five (5) years.

ENFORCEMENT ACTION	DATE OF ACTION	RESULT
None		

8. If applicable, list all locations involved in the storage of solid or liquid waste at the facility for which the NJPDES application is being made and the ultimate disposal sites of solid or liquid wastes generated by the facility being permitted.

STORAGE SITE(S)	ULTIMATE DISPOSAL SITE(S)
10,000 gallon holding tank prior to treatment	Press cake disposed by licensed disposer

9. If applicable list the amount of sludge generated per month and type of treatment, if any, given to the sludge just before its disposal.

Amount of Sludge Generated	Type of Sludge Treatment
Approximetly 400 pounds per month	No sludge/press cake of metal sulfide obtained when filtered

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NJPDES-001
8/81

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WATER RESOURCES

L

APPLICATION FOR PERMIT TO DISCHARGE TO A DOMESTIC TREATMENT WORKS

1. Facility Name		2. D.E.P. ID No. *(Official Use Only)*
Nuodex Inc., A Huls Company (Elizabeth)		
3. DTW Used	Sewer System Owner	Treatment Plant Owner
Joint Meeting	Joint Meeting	Joint Meeting

4. This application must include: *(See instructions)*
a. Discharge Location Map b. List of Building Floor Drains c. Line Drawing

5. Average Flows and Treatment (For Each Discharge to DTW System)

OUTFALL (Name or No.)	B. OPERATION CONTRIBUTING FLOW		C. TREATMENT	
	1. Operations (List)	2. Average Flow (Include Units)	1. Description	2. Codes From Table I
001 No Process Waste Water	Water for boiler room	2.812 x 10^6 gal/Yr	Discharge to Domestic Treat	4E
	None-contact			
002	City Cooling Water	10.88 x 10^6 gal/Yr	Discharge to Domestic treat works	4E
	Process Water	0.362 x 10^6 gal/Yr	Chemical treatment process	2C
003 No Process Waste Water	Fire System Water	1.0 x 10^6 gal/Yr	Discharge to Domestic treat works	4E

6. Intermittent Flow *(Complete if any discharge described in 5, above is intermittent or seasonal)*

OUTFALL (Name or No.)	OPERATIONS CONTRIBUTING FLOW	FREQUENCY	DURATION	FLOW RATE	TOTAL VOLUME
	NOT - APPLICABLE				

7. Maximum Production

A. Does an effluent guideline limitation promulgated under Section 304 of the Federal Act apply to your facility? ☐ Yes *(Complete 7B)* ☒ No *(Go to Item)*

B. Are the limitations in the applicable effluent guideline expressed in terms of production (or other measure of operation)?
☐ Yes *(Complete 7C)* ☐ No *(Go to Item 8)*

C. If answer to 7B is Yes, list quantity which represents a reasonable measure of actual production, in terms and units used in the applicable effluent guideline.

QUANTITY PER DAY	UNITS OF MEASURE	OPERATIONS, PRODUCT, MATERIAL, ETC.	AFFECTED OUTFALLS

958870094

APPLICATION FOR PL .IT TO DISCHARGE TO A DOMESTIC TRL .MENT WORKS

8. Improvements *Complete this table only if you are now required by any federal, state or local authority to meet any implementation schedule for construction, upgrading or operation of wastewater treatment equipment or practices, or connection to a DTW.*

IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	AFFECTED OUTFALLS		DESCRIPTION	FINAL COMPLI. DATE	
	No.	Source		Required	Projected
			ECRA SURVEY ON GOING		

9. Effluent Data - Part A

PARAMETERS (Give quantity in ppm or mg/l)	Discharge Point (Name or No.)			
Biochemical Oxygen Demand	360 mg/L			
Chemical Oxygen Demand	1900 ppm			
Total Organic Carbon	—			
Total Suspended Solids	35 mg/L			
Total Dissolved Solids	420 ppm			
Ammonia (as N)	< 0.05 ppm			
Temperature (°C) - Summer				
(°C) - Winter				
pH (in standard units)	7.05			

Effluent Data - Part B

OUTFALL (Name or No.)	PARAMETER	REASON POLLUTANT EXPECTED	AVAILABLE QUANTITATIVE DATA
002	Formaldehyde	Used in Process	2.4 ppm
002	Zirconium	Produced as a Drier	0.05 ppm

Complete Part C and Part D according to instructions. Include all attachments required in the instructions.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe the submitted information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Name	Title	
John R. Hodgson	Vice President, Environ. & Regulatory Affairs	
Signature: John R. Hodgson	Date: 10/20/86	Phone: (201)-981 - 5280

958870095

APPLICATION FOR PERMIT TO DISCHARGE TO A DOMESTIC TREATMENT WORKS

Effluent Data - Part C

Outfall No. 002

POLLUTANT AND CAS NO. (if available)	MARK "X" Believed Present	MARK "X" Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
Bromide (24959-67-9)		X			
Chlorine, Total Residual		X			
Color		X			
Fluoride (16984-48-8)		X			
Nitrate—Nitrite (as N)		X			
Nitrogen, Total Organic (as N)		X			
Oil and Grease	X		95	mg/L	1
Phosphorus (as P), Total (7723-14-0)		X			
Radioactivity		X			
(1) Alpha, Total		X			
(2) Beta, Total		X			
(3) Radium, Total		X			
(4) Radium 226, Total		X			
Sulfate (as SO_4) (14808-79-8)		X			

POLLUTANT AND CAS NO. (if available)	MARK "X" Believed Present	MARK "X" Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
Sulfide (as S)	X		<0.2	mg/L	1
Sulfite (as SO_3) (14265-45-3)		X			
Surfactants	X		<0.1	ms/L	1
Aluminum, Total (7429-90-5)					
Barium, Total (7440-39-3)	X		0.048	mg/L	1
Boron, Total (7440-42-8)		X			
Cobalt, Total (7440-48-4)	X		1.6	mg/L	1
Iron, Total (7439-89-6)	X		0.3	mg/L	1
Magnesium, Total (7439-95-4)		X			
Molybdenum, Tot. (7439-98-7)		X			
Manganese, Total (7439-96-5)	X		0.26	mg/L	1
Tin, Total (7440-31-5)		X			
Titanium, Total (7440-32-6)		X			

Effluent Data - Part C

Outfall No. _____

POLLUTANT AND CAS NO. (if available)	MARK "X" Believed Present	MARK "X" Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
Bromide (24959-67-9)					
Chlorine, Total Residual					
Color					
Fecal Coliform					
Fluoride (16984-48-8)					
Nitrate—Nitrite (as N)					
Nitrogen, Total Organic (as N)					
Oil and Grease					
Phosphorus (as P), Total (7723-14-0)					
Radioactivity					
(1) Alpha, Total					
(2) Beta, Total					
(3) Radium, Total					
(4) Radium 226, Total					
Sulfate (as SO_4) (14808-79-8)					

POLLUTANT AND CAS NO. (if available)	MARK "X" Believed Present	MARK "X" Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
Sulfide (as S)					
Sulfite (as SO_3) (14265-45-3)					
Surfactants					
Aluminum, Total (7429-90-5)					
Barium, Total (7440-39-3)					
Boron, Total (7440-42-8)					
Cobalt, Total (7440-48-4)					
Iron, Total (7439-89-6)					
Magnesium, Total (7439-95-4)					
Molybdenum, Tot. (7439-98-7)					
Manganese, Total (7439-96-5)					
Tin, Total (7440-31-5)					
Titanium, Total (7440-32-6)					

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APPLICATION FOR PERMIT TO DISCHARGE TO A DOMESTIC TREATMENT WORKS

Effluent Data - Part D

Outfall No. 002

POLLUTANT AND CAS NO. (If available)	MARK "X" Testing Required	Believed Present	Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS						
1M. Antimony, Total (7440-36-0)			X			
2M. Arsenic, Total (7440-38-2)			X			
3M. Beryllium, Total (7440-41-7)			X			
4M. Cadmium, Total (7440-43-9)		X		0.14	mg/L	1
5M. Chromium, Total (7440-47-3)			X			
6M. Copper, Total (7440-50-8)		X		0.05	mg/L	1
7M. Lead, Total (7439-92-1)		X		3.1	mg/L	1
8M. Mercury, Total (7439-97-6)		X		0.002	mg/L	1
DIOXIN *(NOTE: See Section 10.5(c)10.v. of the NJPDES Regulation prior to completing this item.)*						
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS		
GC/MS FRACTION – VOLATILE COMPOUNDS						
1V. Acrolein (107-02-8)			X			
2V. Acrylonitrile (107-13-1)			X			
3V. Benzene (71-43-2)	X			0.04	mg/L	1
5V. Bromoform (75-25-2)			X			
6V. Carbon Tetrachloride (56-23-5)			X			
7V. Chlorobenzene (108-90-7)			X			
8V. Chlorodibromomethane (124-48-1)			X			
9V. Chloroethane (75-00-3)			X			
10V. 2-Chloroethylvinyl Ether (110-75-8)			X			
11V. Chloroform (67-66-3)			X			
12V. Dichlorobromomethane (75-27-4)			X			
14V. 1,1-Dichloroethane (75-34-3)			X			
15V. 1,2-Dichloroethane (107-06-2)			X			
16V. 1,1-Dichloroethylene (75-35-4)			X			
GC/MS FRACTION – ACID COMPOUNDS						
1A. 2-Chlorophenol (95-57-8)			X			
2A. 2,4-Dichlorophenol (120-83-2)			X			
3A. 2,4-Dimethylphenol (105-67-9)			X			
4A. 4,6-Dinitro-O-Cresol (534-52-1)			X			
5A. 2,4-Dinitrophenol (51-28-5)			X			
6A. 2-Nitrophenol (88-75-5)			X			

POLLUTANT AND CAS NO. (If available)	MARK "X" Testing Required	Believed Present	Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
METALS, CYANIDE, AND TOTAL PHENOLS						
9M. Nickel Total (7440-02-0)		X		0.17	mg/L	1
10M. Selenium Total (7782-49-2)			X			
11M. Silver, Total (7440-22-4)			X	0.002	mg/L	1
12M. Thallium, Total (7440-28-0)			X			
13M. Zinc, Total (7440-66-6)		X		3.5	mg/L	1
14M. Cyanide Total (57-12-5)			X			
15M. Phenols, Total		X		3.1	mg/L	1
GC/MS FRACTION – VOLATILE COMPOUNDS						
17V. 1,2-Dichloropropane (78-87-5)			X			
18V. 1,3-Dichloropropylene (542-75-6)			X			
19V. Ethylbenzene (100-41-4)			X			
20V. Methyl Bromide (74-83-9)			X			
21V. Methyl Chloride (74-87-3)			X			
22V. Methylene Chloride (75-09-2)			X			
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X			
24V. Tetrachloroethylene (127-18-4)			X			
25V. Toluene (108-88-3)	X			0.68	mg/L	1
26V. 1,2-Trans-Dichloroethylene (156-60-5)			X			
27V. 1,1,1-Trichloroethane (71-55-6)			X			
28V. 1,1,2-Trichloroethane (79-00-5)			X			
29V. Trichloroethylene (79-01-6)			X			
31V. Vinyl Chloride (75-01-4)			X			
GC/MS FRACTION – ACID COMPOUNDS						
7A. 4-Nitrophenol (100-02-7)			X			
8A. P-Chloro-M-Cresol (59-50-7)			X			
9A. Pentachlorophenol (87-86-5)			X			
10A. Phenol (108-95-2)			X			
11A. 2,4,6-Trichlorophenol (88-06-2)			X			

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APPLICATION FOR PERMIT TO DISCHARGE TO A DOMESTIC TREATMENT WORKS

Effluent Data - Part D *(Continued)*

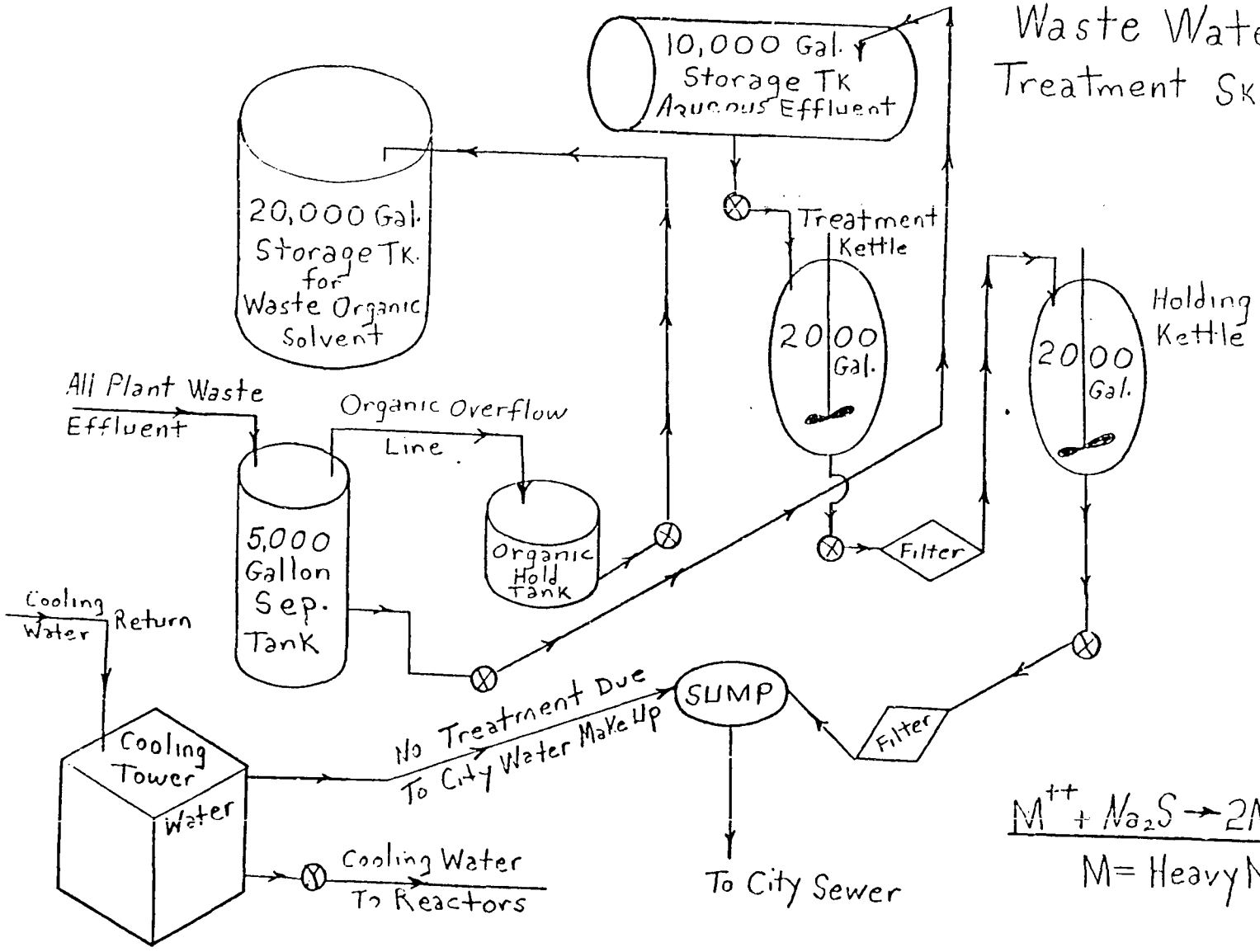
Outfall No. 002

POLLUTANT AND CAS NO. (if available)	MARK "X" Testing Required	Believed Present	Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS						
1B. Acenaphthene (83-32-9)			X			
2B. Acenaphthylene (208-96-8)			X			
3B. Anthracene (120-12-7)			X			
4B. Benzidine (92-87-5)			X			
5B. Benzo (a) Anthracene (56-55-3)			X			
6B. Benzo (a) Pyrene (50-32-8)			X			
7B. 3,4-Benzo-fluoranthene (205-99-2)			X			
8B. Benzo (ghi) Perylene (191-24-2)			X			
9B. Benzo (k) Fluoranthene (207-08-9)			X			
10B. Bis (2-Chloroethoxy) Methane (111-91-1)			X			
11B. Bis (2-Chloroethyl) Ether (111-44-4)			X			
12B. Bis (2-Chloroisopropyl) Ether (39638-32-9)			X			
13B. Bis (2-Ethylhexyl) Phthalate (117-81-7)			X			
14B. 4-Bromophenyl Phenyl Ether (101-55-3)			X			
15B. Butyl Benzyl Phthalate (85-68-7)			X			
16B. 2-Chloronaphthalene (91-58-7)			X			
17B. 4-Chlorophenyl Phenyl Ether (7005-72-3)			X			
18B. Chrysene (218-01-9)			X			
19B. Dibenzo (a,h) Anthracene (53-70-3)			X			
20B. 1,3-Dichlorobenzene (95-50-1)			X			
21B. 1,2-Dichlorobenzene (541-73-1)			X			
22B. 1,4-Dichlorobenzene (106-46-7)			X			
23B. 3,3'-Dichlorobenzidine (91-94-1)			X			
GC/MS FRACTION – PESTICIDES						
1P. Aldrin (309-00-2)			X			
2P. Alpha BHC (319-84-6)			X			
3P. Beta BHC (319-85-7)			X			
4P. Gamma BHC (58-89-9)			X			
5P. Delta BHC (319-86-8)			X			
6P. Chlordane (57-74-9)			X			
7P. 4,4'-DDT (50-29-3)			X			
8P. 4,4'-DDE (72-55-9)			X			
9P. 4,4'-DDD (72-54-8)			X			
10P. Dieldrin (60-57-1)			X			
11P. Alpha Endosulfan (959-98-8)			X			
12P. Beta Endosulfan (33213-65-9)			X			
13P. Endosulfan Sulfate (1031-07-8)			X			

POLLUTANT AND CAS NO. (if available)	MARK "X" Testing Required	Believed Present	Believed Absent	EFFLUENT CONCENTRATION	UNITS	NO. OF ANALYSES
GC/MS FRACTION – BASE/NEUTRAL COMPOUNDS						
24B. Diethyl Phthalate (84-66-2)			X			
25B. Dimethyl Phthalate (131-11-3)			X			
26B. Di-N-Butyl Phthalate (84-74-2)			X			
27B. 2,4-Dinitrotoluene (121-14-2)			X			
28B. 2,6-Dinitrotoluene (606-20-2)			X			
29B. Di-N-Octyl Phthalate (117-84-0)			X			
30B. 1,2-Diphenylhydrazine (as Azobenzene) (122-66-7)			X			
31B. Fluoranthene (206-44-0)			X			
32B. Fluorene (86-73-7)			X			
33B. Hexachlorobenzene (118-71-1)			X			
34B. Hexachlorobutadiene (87-68-3)			X			
35B. Hexachlorocyclopentadiene (77-47-4)			X			
36B. Hexachloroethane (67-72-1)			X			
37B. Indeno (1,2,3-cd) Pyrene (193-39-5)			X			
38B. Isophorone (78-59-1)			X			
39B. Naphthalene (91-20-3)			X			
40B. Nitrobenzene (98-95-3)			X			
41B. N-Nitrosodimethylamine (62-75-9)			X			
42B. N-Nitrosodi-N-Propylamine (621-64-7)			X			
43B. N-Nitrosodiphenylamine (86-30-6)			X			
44B. Phenanthrene (85-01-8)			X			
45B. Pyrene (129-00-0)			X			
46B. 1,2,4-Trichlorobenzene (120-82-1)			X			
GC/MS FRACTION – PESTICIDES						
14P. Endrin (72-20-8)			X			
15P. Endrin Aldehyde (7421-93-4)			X			
16P. Heptachlor (76-44-8)			X			
17P. Heptachlor Epoxide (1024-57-3)			X			
18P. PCB-1242 (53469-21-9)			X			
19P. PCB-1254 (11097-69-1)			X			
20P. PCB-1221 (11104-28-2)			X			
21P. PCB-1232 (11141-16-5)			X			
22P. PCB-1248 (12672-29-6)			X			
23P. PCB-1260 (11096-82-5)			X			
24P. PCB-1016 (12674-11-2)			X			
25P. Toxaphene (8001-35-2)			X			

958870098

Waste Water Treatment Sketch



$$M^{++} + Na_2S \rightarrow 2Na^{+} + MS_{\downarrow}$$

M= Heavy Metals

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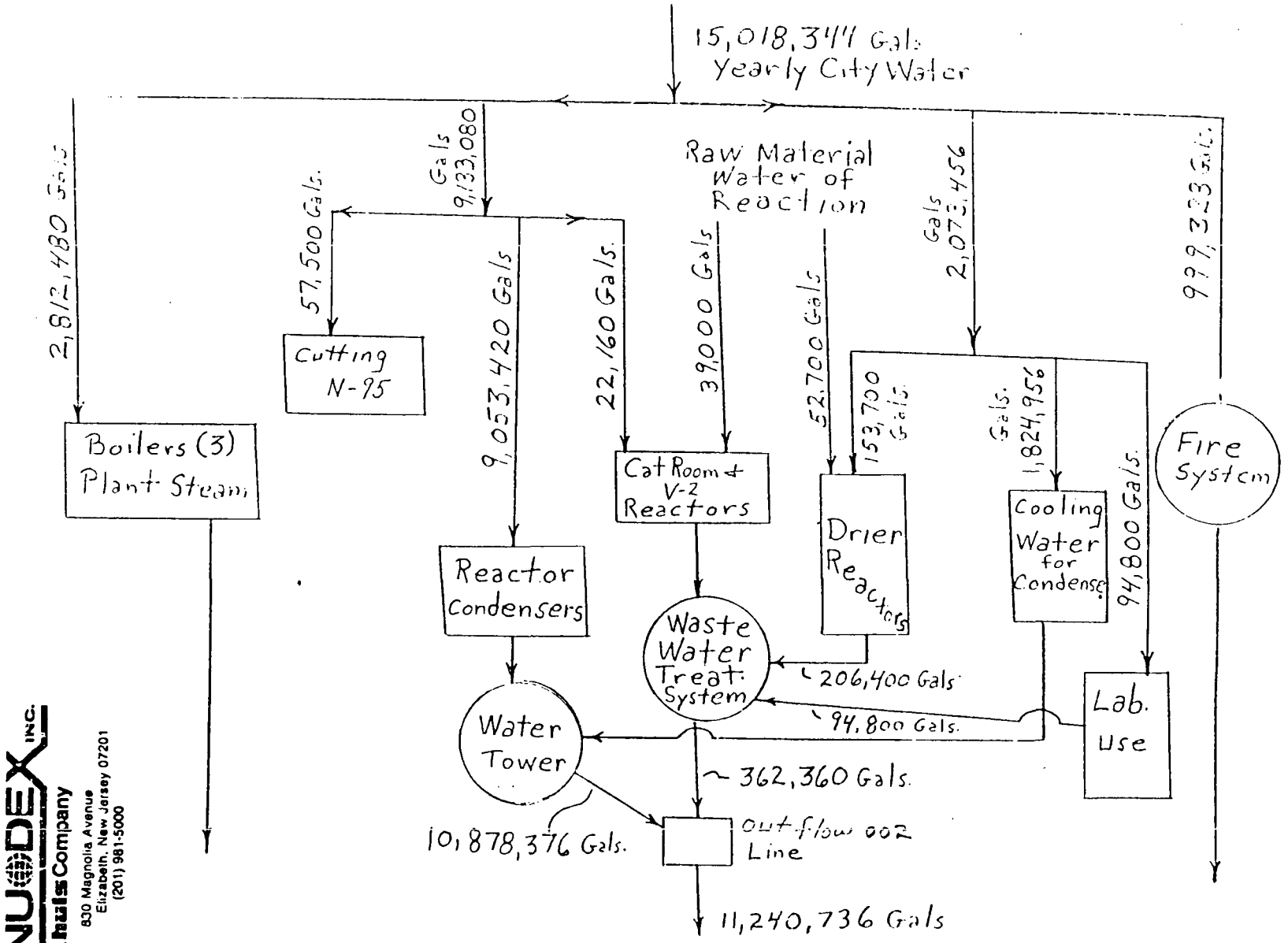
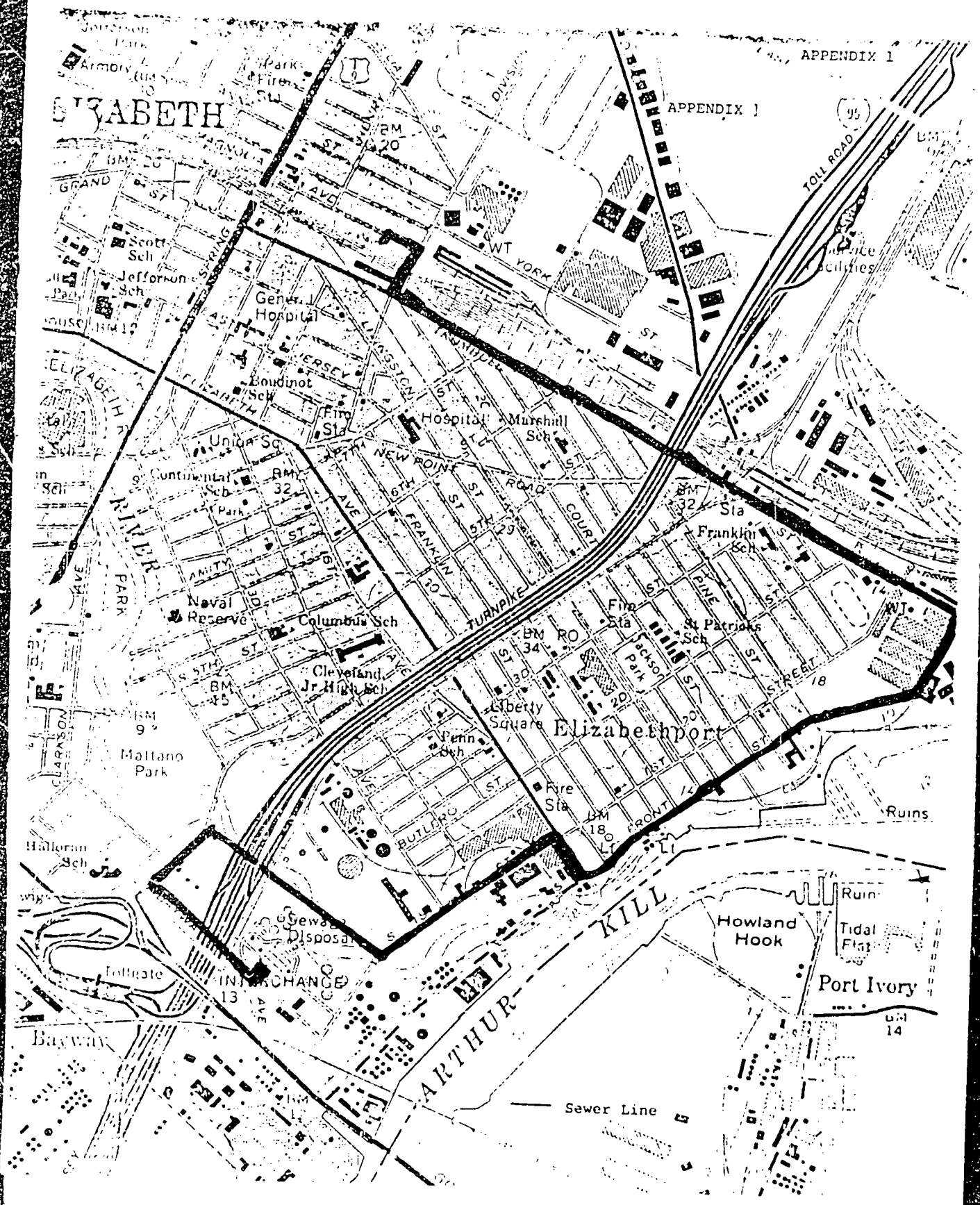


NUDEX INC.
A hazlis Company
830 Magnolia Avenue
Elizabeth, New Jersey 07201
(201) 981-5000

958870100

APPENDIX 1



958870101

NUODEX INC.
ELIZABETH, N. J.

Water Treatment System

The Elizabeth Plant currently uses about 15,000,000 gallons/year of water for sanitary, process and cooling uses. The flow is highly intermittent depending on production volume and season of the year. It ranges from virtually 0 on weekends (the plant runs 24 hours/day, 5 days/week) to a maximum of 150,000 gallons/day during the hottest summer days.

Sanitary waste water is discharged directly to the Joint Meeting sewer system.

Cooling water is recirculated around a small cooling tower and a cooling water tank. The overflow from the cooling water tank is discharged directly to the Joint Meeting sewer system.

Process water is collected throughout the plant in a series of trench drains and sumps. The sumps all are pumped into a 5000 gallon separation tank. Any organic material floats to the top and overflows into a 3000 gallon fiberglass tank. This organic material, which consists primarily of mineral spirits and hi-flash naphtha, is sent out as a hazardous waste to an approved incineration site.

The water layer in the separation tank is automatically pumped to a 10,000 gallon storage tank where it is held for treatment. The water is batch treated in a 2000 gallon reactor where the heavy metals are precipitated with sodium sulfide. The metal sulfides are removed from the water by filtration and placed in drums for disposal as hazardous wastes in an approved landfill. The pH of the water is then adjusted to 6.5 to 8.0 and it is discharged to the Joint Meeting sewer system.

The waste water generated in the Mercury Fungicide Department is handled slightly different. This department has a separate set of drains and a large sump. The water is collected in the sump and treated in a separate batch by the same process as above. However, the mercury sulfide press cake is then processed through our recovery tank and the mercury metal recovered for reuse.

All batches of treated water are checked by the Quality Control Lab prior to discharge to verify that all the heavy metals possible have been precipitated out and the pH is correct. The discharged water is subject to the regulations of the Joint Meeting. A copy of their discharge limitations is attached.

958870103

1951

METAL CO 18 W Jersey St—EL 2-7895
bushings M-70 F-20
R & CO 365 Chestnut St—UNionville 2-3000
estate
MFG CO 35 S Spring St—EL 3-5666
cotton, rayon & nylon blouses M-7 F-111
CUT RATE LAUNDRY 1115 Hussa St—LInden 3-9808
supply service
MFG CO 394 Broadway—EL 4-1166
case, eyeglass trim, jewelry M-6 F-25
ARMENT CO Newark & North Av—EL 3-4700
ns cotton garments & childrens & misses skirts M-18

CHAS & CO 666 S Front St—EL 3-3894
laboratories
CKSON INC 12 S Front St—EL 5-3500
, ties & piles wolmanized, creosoted & untreated M-40

PHALT CORP 715 Meadow St
ing, siding M-85 F-2
DANIEL H 550 Pine St—EL 2-8874
contractor
L Leesville Av & E Inman Av—RAhway 7-2672
&
HINE & MFG CO 221 Spring St—EL 3-0076
molds, new machinery built, old machinery rebuilt,
ion machining & gen machine work
BRELLA CO INC 221 Spring St—EL 3-0076
lawn & beach umbrellas, plastic covers for umb chaise
s, mattress covers, tents M-8 F-10
SAM T 346 W Grand Av—RAhway 7-2977
s
ERICATING CO 727 Bayway Av—EL 2-4494
dies, fixtures, special machines & metal fabricating
F-2
X CO 712 Broadway—EL 4-9336
lining equipment, riveters, combination drilling &
g machines M-20
ISINTEGRATING CO INC 901 Lehigh Av—EL 3-4600
abrasives, pigments, powders M-159 F-23
N J CO 712 Rockefeller St—EL 2-6465
dealers
SH MACHINERY CORP 901 N Avenue—EL 2-[illegible]
ng, drying pickling & rustproofing machinery for process-
metal parts, bakery pan & rack washing equipment, auto-
pot & utensil washers M-140 F-5
INC Bayway Terminal
e finishers & processors M-16 F-2
B B & CO 261 N Broad St—EL 2-7300
estate
EXPRESS & TRUCKING CO OF SOUTH RIVER N J 216
EL 2-2600
tal motor freight
I, MARIO G & CO 651 Marshall St
ms & clothing M-12 F-62
J & SONS 32 W Scott Pl—EL 2-2011
trial sewing machines, blind stitch machines, safety
, parts, supplies
TOGS INC 30 Bank St—EL 2-2411
suits, slacks, shorts, childrens overalls M-6 F-101
ROTHERS CO THE ft of Bond & Pine Sts—EL 2-5700
obbing, gray iron foundry, machine, pattern & forge shops
F-4
RUE LAUNDRY CO THE 12 W Jersey St—EL 2-5000
ering, dry cleaning, rug cleaning & storage M-225 F-330
ER'S EXPRESS 867 Martin St—EL 2-4091
express
METAL PRODUCTS 824 Livingston St—EL 5-6990
metal products of all kinds, fluorescent fixtures, machine
s, hopper, heavy bending, truck bodies, power press
ing, tanks production, electric arc & acetylene welding,
spinning & circle shearing, plate shearing 3/8 HR x 12'
capacity, conveyor frames, structural iron fabrication
F-3
LISTING SERVICE OF UNION COUNTY 40 Stiles St
4-1110
estate
A B CO INC P O Box 476—EL 4-1200
n & stainless steel pipe & tubing & products fabricated
F-14
TUBE WORKS Green Lane P O Bov 476
tubular fabrication M-43
224 S 5th St—EL 2-5936

NASH MFG CO INC 1128 US Hwy 1—EL 4-4600
Jersey aluminum & redwood combination storm & screen windows, doors M-75 F-5

NATIONAL FABRICATING CO 875 North Av
Metal & plastic fabricated items M-5 F-5

NATIONAL FOIL CO 913 Newark Av—EL 2-8383
Aluminum foil, plain & laminated

NATIONAL GAGE CO INC 875 North Av—EL 5-7491
Ordnance components, stampings, wire forms, screw machine products M-10 F-25

NEW JERSEY METALS CO 712 Rockefeller St—EL 2-6465
Metals, nickel, zinc & magnesium anodes, nickel alloy ingot, mfrs non-ferrous metals, dealers M-30 F-3

NEW WORLD WASHING FLUID CO 26 Atlantic St—EL 2-2565
Chemicals

NEW YORK LUBRICATING OIL CO 330 S Front St—EL 2-1881
Lubricating oils, greases M-41

NEW YORK OIL CO INC 534 S Front St—EL 2-1785
Storage, barreling, canning vegetable oils & tallow M-22

NIETZEL, O & SON 513 1st Av—EL 2-2207
Tools, dies, fixtures & metal stampings, experimenting & developing M-22

NILES AUTO PARTS CO 37 Westfield Av—EL 3-3631
Auto parts & machine shop service M-8 F-1

NIMAROFF, A t/a Nimrow Paper Products 963 Newark Av
Paper boxes M-6

NUCO LEATHER FINISHING CO 646 Grove St—EL 2-8977
Leather finishing M-3 F-6

NUODEX PRODUCTS CO INC 830 Magnolia Av—EL 4-0660
Metallic naphthenates for paint & varnish drying, fungicides, mixing, milling & dispersing aids, & chemicals M-123 F-52

NU-TEENS INC & SUE PARKER INC 829 Newark Av—EL 2-9494
Dresses M-10 F-35

OIL EQUIPMENT LABORATORIES INC 600 Pearl St—EL 2-0171
Oil burners, valves, pressure filling equipment

O'MAHONEY, JERRY INC 977 West Grand St—EL 2-3500
Dining cars

ORLAND SPORTSWEAR INC 651 Marshall St—EL 3-1535
Sportswear M-6 F-40

OSSMANN'S BRAKE & EQUIPMENT CO 645 Marshall St—EL 2-1323
Air brakes, truck equipment, industrial brake linings, wheels, rims, clutches M-9 F-1

PABST ENGRG & EQUIPMENT CO 676 Pennsylvania Av—EL 3-2880
Automatic packaging machinery, material handling equipment, portable loaders, elevators & gravity loaders, spec machinery, gen machinery & engrg

PACIFIC MUTUAL DOOR CO 805 E Grand St P O Box 244—EL 4-2100
Plywood, doors, mouldings, windows M-15 F-1

PARAGON GLASS WORKS INC 963 Newark Av—EL 5-9272
Minature glass bulbs, Xmas tree glass ornament blanks, glass bulbs for glass novelties M-27 F-78

PARAMOUNT UNDERGARMENT CO 219 High St—EL 2-5673
Ladies underwear M-2 F-15

PERFECTION LEATHER SPORTSWEAR CO 53 Rahway Av—EL 2-3737
Leather sportswear M-6 F-40

PHELPS-DODGE COPPER PRODS CORP Bayway & S Front St
Copper rod & tube M-475 F-10

PIKE E W & CO 492 North Av—EL 2-0630
Illuminated magnifiers, better moisteners M-5 F-5

PLANT ENG & EQUIPMENT CO INC 28 Washington Av—EL 2-8881
Air fittings, traps (steam) condensate meters, general machine work M-15 F-2

PLASTIC COLOR PRODUCTS 849 4th Av—EL 3-5052
Plastic boxes, trays, toys for birds, assembly & shipping of toys M-4 F-12

POLYTECH DEVICES INC 1180½ E Grand St
Radio parts M-11 F-3

POPPY KNITTING MILLS 95 Broad St—EL 3-9321
Knit goods

PRACTICAL FROCKS INC 1004 Elizabeth Av—EL 3-2620
Housecoat contractor M-15 F-75

PRAZAK SPECIAL MACHINE CO 500 Monroe Av—EL 2-2049
Sewing machines, repairing & servicing M-12 F-1

PRESTO ELECTRIC CO INC 600 Fulton St—EL 4-1805
Electric buzzers, bells, transformers

PRISCILLA DRESS CO INC 1180 E Grand St
House dresses M-2 F-51

PURE PRODUCTS CO INC 625 Elizabeth Av P O Box 234—EL 2-3256
Candy, premiums M-3 F-2

R & R WAIST & DRESS CO 219 High St
Dresses F-12

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958870106

1960

BBC000002

958870107

CARRON, DAN & SON
Erie St
EL 4-8544
Off M-2, F-2
Field M-130
General Construction Work
SIC-1511
Pr-Daniel H. Mc Carron
V P-Tr-John D. Mc Carron
Sec-Marilyn Mc Carron

UMBRELLA CO INC
1-3 Spring St
EL 3-0076
Emp M- 5
Umbrellas Parasols Canes
SIC-3995
Pr-Edward Schmidt
V P-Mrs Agnes Schmidt
Sec-Arnold Schmidt

FABRICATING COMPANY
Bayway Ave, P O Box 481
EL 2-4494
Acre
Off M-1, F-1
Plt M-15
Special Machinery, Tools
Dies, Fixtures, Etc.
SIC-3544, 3545, 3559
Pr-Ben L. Gasorek
Sec-Tr-Dorothy Gasorek

-NAX CO.
Boradway
4-9336
000 Sq. Ft.
Emp M-15
Paper Machines, Brake
ining Equip
-3554, 3559
-Raymond Vogel
P-Margaret Ruben
-Alice Vogel
-John A. Ruben
AFFILIATE-
al-Nax Sales Co
e Address

ASH MACHINERY CORP
North Ave
2-6075
000 Sq Ft, 4 Acres
Off M-22, F-8
Plt M-50
Cleaning & Processing
ines
3569
B-A. C. Nolte, Sr
Robert K. Nolte
-M. E. Nolte
-Tr-A. C. Nolte Jr
-R. W. Costello
-A. J. Masucci
-W. W. Pawluk
-S. J. Talian
FILIATE-
ican Gas Furnace Co
Spring St, Elizabeth

KAIMER PAPER CO
E. Grand St
-2111
0 Sq Ft
Off M-2, F-2
Plt M-7
b Of Coarse Paper Prods
ng Paper, Gummed Tape,
Towels, Cups, Etc
5
c-Jerome D. Miller
r-Herbert Sedler

LASS LABORATORY
ingston St
77
Emp M- 4
ic Lamps
41
ers-John T Magnier Sr
John J Magnier Jr

MODERN TOGS INC
30 Bank St
EL 2-2411
Emp M- 1 F-24
Childrens Infants Outerwear
SIC-2369
Pr-Nicola Velia
Sec-Tr-Isabella Velia

MODERN TOOL CORP.
831 Bond St P O Box 503
EL 5-9000
Emp M-14 F- 3
Carbide Tipped Saws, Slitters,
Groovers
SIC-3545
Pr-Lucien Revol
Tr-Gen/Mgr-George S. Mackrin
AFFILIATE-
Radial Cutter Mfg Corp
Same Address

MONARCH METAL FABRICATORS, INC.
14 So Spring St
P O Box 455
EL 3-1101
Off M-2
Plt M-9
Sheet Metal Fabrication
SIC-3444
Pr-Bernard Goodman
V P-Sec-Tr-Betty Goodman

MOORE BROS MACHINE & FOUNDRY CO
47 Bond St
EL 2-5700
Emp M- 8
Machine Shop Jobbing & Repair
SIC-3591
Pr-[illegible] Winstead
Sec-[illegible]rold W Borden
Asst/Tr-Robert Frank

MOREY LA RUE LAUNDRY CO, THE
12 W Jersey St
EL 2-5000
5 1/2 Acres
Off M-3, F-35
Plt M-132, F-291
* SEE OUR AD, Page In Ad Index
Laundry, Dry Cleaning, Rug
Cleansing, Garment Storage
SIC-7211, 7213
Ch/B-Helen M. Scott
Pr-Frank Scott, Jr
V P/Prod-Louis W. Haviland
V P/Sis-Lester H. Wright
Sec-Mahlon M. Scott
Tr-Albert L. Ward
O/M-Agnes M. Lauer
S/M-A/M-Robert F. Logel Jr
P/A-J. W. Kelly
Pers-Bertha Lubis
P/M-Oliver Smith
P/E-H. W. Schweitzer
BRANCH PLANTS-
Morristown, Morris County
Easton Pa
SUBSIDIARY-
The Morey La Rue Supply Co
639 E Elizabeth Ave, Linden
Union County, WA 5-3200
Mgr-Robert G. Taylor
RETAIL STORE OUTLETS-
21 Stores Throughout N J

MULLER METAL PRODUCTS
824 Livingston St
EL 2-2600
Emp M-40 F- 2
Sheet Metal Work
SIC-3444
Pr-Edward J Muller
V P-Foza Muller
Sec-Kalman Muller
P/F-Fred Koska

MURRAY, A. B. CO., INC.
Green La P O Box 476
EL 4-1200
62,000 Sq. Ft. 12 Acres
Emp M-70 F-14
Steel Tubing & Pipe
SIC-3312
Pr-A. J. Murray
V P-A. B. Murray, Jr.
Sec-Tr-L. Sherman
Gen/Mgr-J. J. Brady
O/M-R. Waters
Gen S/M-G. H. Root
P/M-F. Grippo
BRANCHES-
Bristol & Mc Keesport Pa
Affiliate-
The Murray Tube Works
Same Address

NA-VET PRINTING CO
547 Elizabeth Ave
EL 3-4441
5,000 Sq Ft
Off F-1
Plt M-4
Job & Commercial Printing
SIC-2751
Owner Lawrence J. Franchini
P/F-William Reeves

NASH MANUFACTURING CO
1128 Spring St
EL 4-4600
Emp M- 3
Metal Doors, Sash Frames,
Molding Trim
SIC-3442
Pr-J J Nash
BRANCH-
Long Branch, Monmouth County

NATIONAL FOIL COMPANY
913 Newark Ave
EL 2-8383
Emp M-30
Aluminum & Other Foils
SIC-3497
Pr-W A Hunt
Exec/V P-H E Radix
V P-E E Neu
Sec-Tr-R E Hunt
P/A-J Macdonald

NATIONAL INDUSTRIAL LAUNDRIES
1100 Sherman Ave
EL 4-0150
Industrial Laundry & Dry Clean
SIC-7211, 7216
Pr-Nathaniel Cohen
V P-Frederick H. Samuels
Sec-Benjamin Peltz
Tr-Irving J. Kirschbaum

NEW JERSEY METALS COMPANY
712 Rockefeller St
EL 1-0050
40,000 Sq Ft
Anodes And Chemicals
Master Alloys & Hardeners
SIC-3559, 2833
Pr-Albert Kerzner
Sec-Ivan Kerzner

NEWYORKER BAG & BURLAP CO
651 Marshall St
EL 4-3115
13,000Sq Ft
Off M-2, F-2
Plt M-6, F-7
Burlap Squares, Bags, Etc
SIC-2299
Pr-Nelson Gudema
V P-Adele Schaeffer
Sec-Tr-Gerald La Belle

NIETZEL, O. P SON INC
513 First Ave
EL 2-0343
2,000 Sq Ft
Off M-1
Plt M-10
Tools, Dies, Models, Special
Designs & Machines, Etc
SIC-3545, 3591, 3999
Pr-Tr-Walter N. Nietzel
V P-John A. Nietzel
Sec-Robert R. Goodrich
P/F-Frank A. Spekh

NIMROW PAPER PROD.
963 Newark Ave
EL 5-6615
Emp M-20
Make & Print Folding Boxes &
Cartons
SIC-2651, 2652
Pr-Alexander Minaroff
Sec-Mrs. Fan Levy
O/M-T/M-B. Hirschman

NUCO LEATHER FINISHING CO
640 Grove St
EL 2-8977
Emp M- 5
Leather Tanning Finishing
SIC-311
Owner-J Nuzzo

NUODEX PRODUCTS CO INC
Sub Of Heyden Chemical Corp
830 Magnolia Avenue
EL 4-0660
Emp M-92 F-14
Whiting Putty Wood Fillers
Allied Paint Products
SIC-2852
P/M-J. F. Kilcullen
EXECUTIVE OFFICES-
342 Madison Ave, N Y C
MU 2-7600
Pr-A Minich
V P/Mktg-& Sls T M O Neil
V P/Prod/H Sokol
Sec-J K Lindsay
Tr-B L Reiter
S/M-W J Houston
A/M-E V Burns
Ch/B-S. Askin
BRANCH OFFICES-
Newark Essex County
Long Beach Cal, Mgr-A J Roubo

OILEQUIPMENT LABORATORIES, INC.
600 Pearl St ,zn 4
EL 4-3900
25,000 Sq.Ft, 2 Acres
Off M-8, F-4
Plt M-20, F-60
Aerosol Valves &
Liquid Filling Machines
SIC-3569
Pr-Tr-John M. Wittke
V P-S/M-Richard M. Monahon
Sec-Dorothy T. Wittke
Comp-Aaron Birnholz
P/A-William Machauer
P/M-Joseph Simmons
P/F-Fred Schoemer
P/E-John Mayercik
M/M-James Ayre

PABST ENG. EQUIP. CO INC
676 Pennsylvania Ave
EL 3-2880
45,000 Sq Ft 2 Acres
Off M-5, F-3
Plt M-50, F-6
Maching, Welding, Metals Fabr
Sheet Metal, Painting & Baking
Brazing, Soldering, Metalizing
SIC-3591
Pr-Walter W. Pabst
V P-Robert D. Verkouille
Sec-Tr-Martha M. Pabst
SUBSIDIARIES-
Peeco Engineering Co
Deco Drum Equipment
Same Address

PACIFIC MUTUAL DOOR CO
805 East Grand St
EL 4-2100 Emp M-17 F- 2
Millwork Plants
SIC-2431
Pr-K D Hoag
Sec-N L Johnson
Tr-R Sherrill
O/M-J F Siman

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OGRAPHICAL

VP—William W. Peters
Adele Schaeffer
Nelson Gudema

O. & SON, INC.
First Avenue
N. J. 07203
0343
Sq. Ft.
Plant: M 10
Dies, Models, Special Designs and Machines, Etc.
3545 - 3591 - 3999
Walter W. Nietzel
John A. Nietzel
Robert R. Goodrich
Frank A. Spekh

ROW CARTON DIV. OF
Narrow Paper Products Co.
Newark Avenue
beth, N. J. 07208
5-6815
Emp: 40
and Print Folding Boxes and Cartons
2651 - 2652
Alexander Nimaroff
Carl Locagnato
Mrs. Fan Levy
O/M-T/M—Paul Kiselik

LEATHER FINISHING CO.
Grove Street
beth, N. J. 07202
2-8977
Emp: M 8
Leather Finishers
SIC 3111
Owner—J. Nuzzo

MODEX PRODUCTS DIVISION
Hayden Newport Chemical Corp.
Magnolia Avenue
beth, N. J. 07206
O. Box 242
2-8500
Emp: 250
Whiting Putty Food Fillers, Special Purpose Chemicals
SIC 2852 - 2819 - 2873
V/Ch—Arthur Minich
Pr—W. J. Houston
Exec/VP—H. W. Schultze
VP/Mktg—Frank X. Dwyer
VP/Mfg—John F. Kilcullen
Tr—Bernard Reiter
P/A—Robert J. Miller
Sales/Prom/Mgr—Donald K. Beyer
Prod/Mgrs—W. M. Clark, Thomas B. Howley, Daniel W. Klohs, Paul Gibson, Joseph J. Schaefer
Reg/Mgrs—Knox Price, C. J. Kaiser, W. G. Seymour, H. J. Meyer, R. J. Brand, R. W. Kulick
Gen/Sales/Mgr—Frank X. Ritter
Mgr/Rsch/Devel—T. A. Girard

EQUIPMENT LABORATORIES, INC., 600 Pearl Street
Elizabeth, N. J. 07202
EL 4-3900
25,000 Sq. Ft., 2 Acres
Office: M 8, F 4
Plant: M 20, F 60
SIC 3569
Pr-Tr—John M. Wittke
VP-S/M—Richard M. Monahan
Comp—Aaron Birnholz
P/M—Joseph Simmons
P/E—John Mayercik

EAST ENGINEERING EQUIPMENT COMPANY, INC.
676 Pennsylvania Avenue
Elizabeth, N. J. 07201
EL 3-2880
42,500 Sq. Ft., 3½ Acres
Emp: 95
Electronic Components
Steel Fabrication
SIC 3679
Pr—Walter W. Pabst
VP-P/M—Robert D. Verkouille
Sec-Tr-P/A—Martha M. Pabst
S/M—Gilbert Horner
P/F—H. Fisher
G/M—Tom Eccles

DAFTER COMPANY
616 Livingston Street
Elizabeth, N. J. 07206
Phone: 351-4129
Emp: 8
Machinists
SIC 3591

PARAMOUNT UNDERGARMENT CO.
63 Jefferson Avenue
Elizabeth, N. J. 07201
EL 2-5623
Emp: F 30
Women's, Misses and Children's Underwear and Nightwear
SIC 2341
Owner—T. Weber
G/M—S. Weber

PENN PRODUCTS CO.
963 Newark Avenue
Elizabeth, N. J. 07208
EL 2-4792
Emp: 20
Eyelet Fasteners
SIC 3964

PERK CHEMICAL CO., INC.
217 South First Street
Elizabeth, N. J. 07206
Phone 355-1275
5,000 Sq. Ft., 2 Acres
Office: M 7, F 3
Plant: M 12
Chlorinated Solvents, Waste Solvents Disposal
SIC 2818
Pr—Ray Rothschild
Sec—Norman Cohen
O/M—Ann Russell
S/M—Jack Mishkin
P/M—Erich Witt

PETAL ENTERPRISES
107 Trumbull Street
Elizabeth, N. J. 07206
EL 2-3816
Office: M 2, F 3
Plant: M 12, F 6
Plastic Products
SIC 3079

PHARMACAPS, INC.
1111 Jefferson Avenue
Elizabeth, N. J. 07201
Phone: EL 4-6900
Emp: 23
Vitamins
SIC 2834

PHELPS-DODGE COPPER PROUDCTS CORP., 720 South Front Street
Elizabeth, N. J. 07202
EL 2-8440
Emp: M 800, F 10
Copper, Copper Alloy, Bare Wire, Strained Wire, Rod, Strip, Bar and Extruded Shapes
SIC 3351
P/M—L. F. Buckman
Main Office:
300 Park Ave., N. Y. 22

PIKE & COMPANY, INC., E. W.
577 Pennsylvania Avenue
Elizabeth, N. J. 07207
Phone: EL 2-0630
Emp: 6
Envelope Moisteners
SIC 3579

PITTSBURGH PLATE GLASS CO.
155 Front Street
Elizabeth, N. J. 07206
351 - 3030
Emp: 20
Chromium Chemicals
SIC 2818
P/M—C. E. Von Waaden

PLASTIC EXTRUDED PRODUCTS CO.
818 Livingston Street
Elizabeth, N. J. 07201
EL 4-2300
20, 00 Sq. Ft., 1 Acre
Office: M 3, F 1
Plant: M 30, F 4
Plastic Extrusions, Tubing, Profile Shapes, Weatherstripping
SIC 3079
Pr—John G. Walsh
VP—George J. Katelus

PLYFIBER CONTAINER CORP.
855 Woodruff Lane
Elizabeth, N. J. 07201
EL 4-1900
15,000 Sq. Ft., 1 Acre
Office: M 3, F 1
Plant: M 13, F 10
Fiber Drums
SIC 2655
Pr—A. H. Campbell
VP—Andrew Campbell
S/M—Nick Rasnak
P/A-T/M—George B. VanBuskirk
P/M—Edward Gabryelsky

PRAZAK SPECIAL MACHINE CO.
500 Monroe Avenue
Elizabeth, N. J. 07207
EL 2-2049
9,000 Sq. Ft.
Emp: 8
Manufacturer of Special Sewing Machines
SIC 3636
Owner—Emil Prazak, Jr.

PRECON STRUCTURES DIVISION
Trans-Steel Industries, Inc.
150 Broadway
Elizabeth, N. J. 07206
Phone: 333-8898
Emp: M 15, F 2
Preconstructed (Portable) Buildings
SIC 3447
Pr—Alfred L. Christoffers
VP—Robert Rosenberg
P/A—John J. Joszek
P/A—Frank Bonifanti

PROCESS ENGINEERING & MACHINE COMPANY, INC.
442 York Street
Elizabeth, N. J. 07201
EL 4-9222
130,000 Sq. Ft., 3 Acres
Office: M 8, F 2
Plant: M 40
Heat Exchangers and Pressure Vessels
SIC 3443
Pr-P/A—Arthur E. Braun
VP-A/M-P/R—Stanley Yokell
Sec-Tr—William Bowie
G/M—Louis Larsen
S/M—Thomas McHugh
P/A—Theodore Keith

PROGRESSIVE PRODUCTS, INC.
805 West Grand Street
Elizabeth, N. J. 07202
EL 4-1686
Emp: M 6, F 39
Pencil, Pen, Keychain, Paperweight Flashlights
SIC 3951
Sec-Tr-P/A—J. L. Adams
O/M—Mrs. E. Meyer

PUBLIC SERVICE ELECTRIC AND GAS COMPANY, 271 North Broad Street
Elizabeth, N. J. 07207
Phone: 353-7000
SEE OUR AD: Page In Ad Index
Public Utility--Electric and Gas
SIC 4911
Comm/Mgr—R. G. Jackson
Main Office:
Newark 07101, Essex County

PUREPAC CORP.
200 Elmora Avenue
Elizabeth, N. J. 07202
EL 4-2233
170,000 Sq. Ft., 10.5 Acres
Emp: 250
Pharmaceuticals
SIC 2834
Pr—A. D. Storch
Exec/VP—J. Salganik
VP—V. J. Storch
VP—A. H. Signion
Sec-Tr—A. A. Day
S/M—E. Bilek

REICHHOLD CHEMICALS, INC.
726 Rockefeller Street
Elizabeth, N. J. 07202
EL 3-6600
Office: M 94, F 33
Plant: M 182
Synthetic Resins and Allied Chemicals
SIC 2899
Ch/B—H. H. Reichhold
Pr—S. H. Baum
Exec/VP—H. W. Mason, Jr.
Sec—J. F. Goetz
Asst/Tr—C. M. Fiscina
G/M—L. L. Colbert, Jr.
P/A—T. J. McGuire
Pers—J. H. Dolbear
P/M—J. T. Greene
P/E—F. C. Franks
Main Office:
525 North Broadway
White Plains, N. Y.

RICH MANUFACTURING CORP.
250 Second Street, P. O. Box 513
Elizabeth, N. J. 07206
EL 4-1156
14,000 Sq. Ft., 1 Acre
Emp: 30
Fabricate Ferrous and Non-Ferrous Metal Products
SIC 3499
Pr—Mary Christiansen
VP-G/M—C. Christiansen, Jr.
Sec-Tr—Doris M. Christiansen
S/M—R. Christianser
P/A—M. Scimone
P/F—H. Borensen

ROBVON BACKING RING CO.
675 Garden Street
Elizabeth, N. J. 07202
EL 2-9613
Emp: M 26, F 4
Backing Rings for Pipe Welding
SIC 3499
Pr-Tr—D. A. Ahrens
P/M—K. E. Aragon

ROYAL DAIRY PRODUCTS
631 Division Street
Elizabeth, N. J. 07201
Phone: EL 4-3000
Emp: 70
Dairy Products
SIC 2026

ROYAL UPHOLSTERY CO., INC.
13 South Broad Street
Elizabeth, N. J. 07202
EL 2-3744
Emp: M 12, F 2
Upholstered Furnitures
SIC 2512
Pr—J. Solomon
Sec—P. Lebovic
Tr—M. Solomon

RUTA MILLWORK & STAIRS CO.
804 Livingston Street
Elizabeth, N. J. 07201

OUR POSTMASTER SUGGESTS ZIP CODE NUMBERS TO HELP SPEED YOUR MAIL USE THEM IN YOUR RETURN ADDRESS

958870112

Postage Will Be Paid by Addressee

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Pesticide Handbook

1964

(Sixteenth Edition)

COMPILED AND EDITED

By

DONALD E. H. FREAR, Ph.D.
Professor of Chemical Pesticides
The Pennsylvania State University

SIDNEY FRIEDMAN
Advertising Manager

PAPER BOUND $2.50
CLOTH BOUND $3.50

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Residues of the following materials are exempted from the requirement of a tolerance when used in accordance with good agricultural practice as inert ingredients in pesticide formulations applied to growing crops or to raw agricultural commodities after harvest:

Inert ingredients	Uses
Acetic acid	catalyst
Acetone	Solvent, cosolvent
Ammonium bicarbonate	Surfactant, suspending agent, dispersing agent
Ammonium hydroxide	Solvent, cosolvent, neutralizer, solubilizing agent
Ammonium stearate	Surfactant
Amyl acetate	Solvent, cosolvent attractant
Animal glue	Surfactant, adhesive
Apple pomace	Solid diluent, carrier
Attapulgite-type clay	Solid diluent, carrier, thickener
Benzoic acid	Preservative for formulation
Calcareous shale	Solid diluent, carrier
Calcite	"
Calcium carbonate	"
Calcium silicate	"
Calcium stearate	"
Caesin	Surfactant, emulsifier, wetting agent
Citric acid	Sequestrant
Cocoa shells	Solid diluent, carrier
Coconut oil	Surfactant, emulsifier, wetting agent
Coffee grounds	Solid diluent, carrier
Corn cobs	"
Cornstarch	"
Cottonseed oil	Safener
Dextrin	Surfactant, suspending agent, dispersing agent
Dextrose	Solid diluent, carrier
Diatomite (diatomaceous earth)	"
Dichlorodifluoromethane	Propellant
Disodium phosphate	Anticaking agent, conditioning agent
Dolomite	Solid diluent, carrier
Ethyl acetate	Solvent, cosolvent
Ethylenediaminetetracetic acid [1]	Sequestrant
Ethylenediaminetetracetic acid, tetrasodium salt [2]	Sequestrant
Glycerol	Solvent, cosolvent
Granite	Solid diluent, carrier
Gum arabic (acacia)	Surfactant, suspending agent, dispersing agent
Gypsum	Solid diluent, carrier
Hydrochloric acid	Solvent, neutralizer
Kaolinite-type clay	Solid diluent, carrier
Magnesium carbonate	Anticaking agent, conditioning agent
Magnesium chloride	Safener
Magnesium lime	Solid diluent, carrier
Magnesium silicate	"
Magnesium sulfate	Solid diluent, carrier, safener
Methyl chloride	Propellant
Mica	Solid diluent, carrier
Molasses	Attractant
Montmorillonite-type clay	Solid diluent, carrier
Orange pomace	"
Peanut shells	"
Pyrophyllite	"
Rice bran	"
Soap (sodium or potassium salts of fatty acids)	Surfactant, emulsifier, wetting agent
Sodium acetate	Buffer
Sodium acid pyrophosphate	Surfactant, suspending agent, dispersing agent, buffer
Sodium hexametaphosphate	Surfactant, emulsifier, wetting agent, suspending agent, dispersing agent, buffer
Sodium propionate	Preservative for formulation
Sodium silicate	Surfactant, emulsifier, wetting agent, stabilizer, inhibitor
Sodium sulfate	Solid diluent, carrier
Sodium tripolyphosphate	Buffer, surfactant, suspending agent, dispersing agent, anticaking agent, conditioning agent
Sorbitol	Antidust agent
Soybean flour	Surfactant
Sucrose	Solid diluent, carrier, safener
Talc	Solid diluent, carrier
Tetrasodium pyrophosphate	Anticaking agent, conditioning agent
Tricalcium phosphate	Surfactant, suspending agent, dispersing agent, anticaking agent, conditioning agent
Trichlorofluoromethane	Propellant
Trisodium phosphate	Surfactant, emulsifier, wetting agent
Urea	Stabilizer, inhibitor
Vermiculite	Solid diluent, carrier
Walnut shells	"
Wheat bran	"
Zeolite (hydrated alkali aluminum silicate	"

[1] 3% of pesticide formulation.
[2] 5% of pesticide formulation.

SECTION 1

HOW TO USE THIS BOOK

This book is divided into three sections. In Section I all trade names are arranged alphabetically, without regard for the type of product. Names combining letters and figures are placed at the beginning of each letter section—for example, C-4 is listed before CAB-BAGE. Names containing only figures are listed as though the name were spelled out—400 would be alphabetized as FOUR HUNDRED. In general percentage figures in names have been disregarded in alphabetizing.

The reference numbers preceding each trade name in Section I serve to identify the individual products in Sections II and III. Section II lists all products according to use, such as fungicides, insecticides, herbicides, etc., with a further breakdown according to active ingredients. For example, if you wish to locate all copper fungicide dusts, look under the general heading of FUNGICIDE DUSTS in Section II, and locate the heading copper. The reference numbers under this heading can then be used to locate all of the trade names for these products in Section I. **The active ingredients given in Section II are always arranged in alphabetical order,** and are not cross-indexed. A formulation containing copper and rotenone will be found listed under copper, and not under rotenone.

In Section III, the names of all manufacturers are arranged in alphabetical order, followed by the reference numbers of the products manufactured by each of them. By locating these reference numbers in Section I, you can secure all of the trade names of the products made by any manufacturer.

To conserve space, certain conventions and abbreviations are used in Section I. Most of these are obvious, but are briefly stated here: The general term insecticide includes acaricides, miticides and similar materials. Petroleum oil listed only as oil. Unless stated otherwise, percentages of copper and other elements are stated as the metal. When complete information on the composition of a product is given in the trade name, it is not repeated. The abbreviations used are as follows:

A = Adjuvant (wetting, spreading or stick-agents, emulsiers, etc.)
ANR = Animal repellent
D = Diluent (solid or liquid)
E = Pesticide equipment (sprayers, dusters, applicators, manufacturing and safety equipment)
F = Fungicide
FI = Combination fungicide and insecticide
H = Herbicide (weed killers and defoliants)
I = Insecticide
IA = Insecticide aerosol
IB = Insecticide bait
IC = Insecticide concentrate (for manufacturing use)
IF = Insecticide fumigant
IR = Insect repellent
IS = Systemic insecticide
N = Nutritional spray or dust
MP = Mothproofer
PH = Plant hormone
R = Rodenticide
SC = Soil conditioner
ST = Seed treatment
WP = Wood and fabric preservative (may be insecticide, fungicide or both)

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1 ABOL, Gamma BHC 50%-ST-Chipman (Can.)
1.50 AC SERIES-ANTI-CAKING CONDITIONER A-United Clay
2 ACETO CETYL TRIMETHYL AMMONIUM BROMIDE-F-Aceto
4 ACETO DEHYDROACETIC ACID (SODIUM SALT) DHANa — 100% (Strawberry concentrate) -H-Aceto
5 ACETO 8-HYDROXYQUINOLINE SULFATE-F-Aceto
6 ACETO LINDANE 99.5%-IC-Aceto
7 ACETO MCP ACID, 2-Methyl-4-chloro-phenoxyacetic acid-H-Aceto
8 ACETO METALDEHYDE, Slug and snail bait-IB-Aceto
9 ACETO NICOTINE SULFATE 40%-I-Aceto
10 ACETO PCNB, Pentachloronitrobenzene 100%-F-Aceto
10.50 ACETO PCNB-75, Pentachloronitrobenzene 75%-F-Aceto
11 ACETO THIRAM-50, Thiram 50%-F-Aceto
12 ACETO THIRAM-75, Thiram 75% w.p.-F-Aceto
13 ACETO THIRAM-100, Thiram 100%-F-Aceto
13.20 ACETO ZINEB-75, Zineb 75%-F-Aceto
13.40 ACETO ZINEB-90, Zineb 90%-F-Aceto
13.60 ACETO ZIRAM-75, Ziram 75% W. P.-F-Aceto
13.80 ACETO ZIRAM-100, Ziram 100%-F-Aceto
14 ACME ALL ROUND DUST, 5.2% Zineb, methoxychlor 5%, rotenone 0.75%, rotenoids 1.2%-FI-Acme
15 ACME ALL ROUND SPRAY, DDT 5%, rotenone 0.75%, sulfur 20%, ziram 15%-FI-Acme
15.40 ACME ANT ROACH BLASTER, Ronnel 2%-I-Acme
15.80 ACME ANT & ROACH BLASTER, Diazinon 0.5%, piperonyl butoxide 0.1%, Pyrethrins 0.05%-IA-Acme
16 ACME ARSENATE OF LEAD, Lead Arsenate 98%-I-Acme
17 ACME BORDEAUX MIXTURE, Copper sulfate 50%-F-Acme
18 ACME CHICKWEED CLOVER KILLER, Iso-octyl ester, 2,4,5,-TP, 13.3%-H-Acme
19 ACME 6% CHLORDANE DUST-I-Acme
19.50 ACME 10% CHLORDANE DUST-I-Acme
20 ACME 45% CHLORDANE SPRAY-I-Acme
21 ACME 72% CHLORDANE SPRAY-I-Acme
22 ACME CRAB GRASS KILLER, 16% Amine methyl arsonates-H-Acme
23 ACME 5% DDT DUST-I-Acme
24 ACME DIELDRIN 18, Dieldrin 15%-I-Acme
25 ACME DIMITE, Di(p-chlorophenyl) methyl-carbinol (DMC) 25%-I-Acme
26 ACME DORMANT OIL SPRAY, Paraffinic petroleum oil 96%-I-Acme
27 ACME DURADUST NO. 50, Wettable DDT 50%-I-Acme
28 ACME EMO-NIK, Nicotine 1.5%, oil emul. 80%-I-Acme
28.50 ACME FLY & MOSQUITO SPRAY, Allethrin 0.1%, Piperonyl Butoxide 0.25%-IA-Acme
29 ACME FRUIT TREE SPRAY, Malathion 6%, Methoxychlor 12%, captan 12%-FI-Acme
31 ACME GARDEN GUARD, Rotenone 1%, Rotenoids 2%-I-Acme
32 ACME KILTONE, DDT 20%, toxaphene 40%-I-Acme
33 ACME LIME SULFUR SPRAY (LIQUID), Calcium polysulfides 29%-FI-Acme
34 ACME 50% MALATHION SPRAY-I-Acme
35 ACME PANOGEN® TURF FUNGICIDE, Methyl mercury dicyandiamide 2.2%-F-Acme
36 ACME PROTECTION EQUIPMENT CO. GAS MASKS FOR FUMIGANTS-E-Acme Prot. Equip.
37 ACME PROTECTION EQUIPMENT CO. GAS MASKS FOR HCN-E-Acme Prot. Equip.
38 ACME PROTECTION EQUIPMENT CO. GAS MASKS FOR INSECTICIDES-E-Acme Prot. Equip.
39 ACME PROTECTION EQUIPMENT CO. GAS MASKS FOR METHYL BROMIDE-E-Acme Prot. Equip.
40 ACME PROTECTION EQUIPMENT CO. GAS MASKS FOR ORGANIC PHOSPHATE INSECTICIDES-E-Acme Prot. Equip.
41 ACME RED RIVER POTATO MIX WITH DDT, Basic copper arsenate 56.5%, DDT 9.5%-FI-Acme
42 ACME R.N.L. ROACH BLASTER, Ronnel 2%-I-Acme
43 ACME ROSE DUST, Captan 7%, DDT 5%, karathane 0.75%, malathion 4%-FI-Acme
43.50 ACME ROSE & FLOWER SPRAY, Dichlone 0.12%, Dinitro (methyl heptyl) phenyl crotonate 0.113%, methoxychlor 0.3%, pyrethrins 0.02%, rotenone 0.1%-FI-Acme
44 ACME SEVIN® 5% DUST, 1-Naphthyl-N-methylcarbamate 5%-I-Acme
45 ACME SEVIN® 50W, 1-Naphthyl-N-methylcarbamate 50%-I-Acme

45.50 ACME SURE NOXEM GARDEN SPRAY, DDT 5%, endosulfan 8%, tetradifon 3%, malathion 10%-I-Acme
47 ACME TOMATO, VEGETABLE DUST, 1-Naphthyl-N-methylcarbamate 3%, sulfur 20%, zineb 5.2%-FI-Acme
48 ACME VEGETATION KILLER, Prometone 3.6%, 2,4-D 1%-H-Acme
48.50 ACME WASP & HORNET JET SPRAY, Chlordane 2%, piperonyl butoxide 0.3%, pyrethrins 0.15%-IA-Acme
49 ACME WEED KILLER, Arsenic trioxide 42.5%-H-Acme
50 ACME WETTABLE DUSTING SULPHUR, Sulfur 95%-FI-Acme
50.50 ACME ZINEB 75W FUNGICIDE 75%-I-Acme
51 ACP GRASS KILLER, Sodium TCA 94%-H-Amchem Prods.
52 ACTEEN BORER CONTROL, Copper resinate, beta-naphthol, pine tar oil-I-Acteen
53 ACTEEN STOPS TERMITES, Wood creosote 66% arsenic trioxide 7%, copper resinate 2%-WP-Acteen
54 ACTEEN STOPS W. D. O., Pentachlorophenol 5%, other chlorophenols 0.72%-WP-Acteen
55 ACTEEN STOPS WEEDS, Arsenic trioxide 35%-H-Acteen
55.10 ACTI-DIONE BR (WHITE PINE FUNGICIDE), 0.018% Cycloheximide-F-Upjohn
55.20 ACTI-DIONE-CAPTAN WP (ROSE FUNGICIDE), 0.011% Cycloheximide, 19.25% captan-F-Upjohn
55.30 ACTI-DIONE FERRATED WP, 2.26% Cycloheximide, 54.7% ferrous sulfate-F-Upjohn
55.40 ACTI-DIONE PM, WP (FLOWER FUNGICIDE), 0.027% Cycloheximide-F-Upjohn
55.50 ACTI-DIONE RZ, WP (LAWN AND TURF FUNGICIDE), 1.3% Cycloheximide, 75% pentachloronitrobenzene-F- Upjohn
55.60 ACTI-DIONE-THIRAM WP (TURF FUNGICIDE), 75% Cycloheximide, 75% thiram-F-Upjohn
55.70 ACTISPRAY, 7.7% Cycloheximide tablets-F-Upjohn
56 ADAMS HANDY KILLER, Sodium arsenite 40% (for potato vines)-H-Adams & Son
57 ADJUSTABLE CONEJET, Pesticide application-E-Spraying Systems
58 ADVACIDE A-T-O LIQUID, Bis(Tributyltin) oxide-F-Advance Div.
59 ADVACIDE PMA 18% LIQUID, Phenyl mercury acetate 18% Hg-F-Advance Div.
60 ADVACIDE PMO 11% LIQUID, Phenyl mercury oleate 11% Hg.-F-Advance Div.
61 ADVACIDE 60 POWDER, Phenyl mercury acetate 59.5% Hg.-F-Advance Div.
62 AERO® CYANAMID SPECIAL GRADE, Calcium cyanamide-H-Am. Cyanamid
63 AERO® CYANATE WEEDKILLER-H-Am. Cyanamid
64 AERO® HCN DISCOIDS, Hydrocyanic acid absorbed on carrier-IF-Am. Cyanamid
65 AERO® LIQUID HCN, Hydrocyanic acid-IF-Am. Cyanamid
66 AERO-MASTER FLY SPRAY, Piperonyl butoxide, pyrethrins-I-Aero-Master
67 AERO-MASTER FOGGING INSECTICIDE B-20-200, Piperonyl butoxide, pyrethrins-I-Aero-Master
68 AERO-MASTER FOGGING INSECTICIDE, MILL SPECIAL, Piperonyl butoxide, pyrethrins-I-Aero-Master
69 AERO-MASTER FOGGING MACHINE, Insecticide applicator-E-Aero-Master
70 AERO-MASTER MILL SPRAY, Allethrin, N-octyl bicycloheptene dicarboximide-I-Aero-Master
70.50 AERO-SAN, Trialkyltin compound 100%-F-Stecker
71 AERO-MASTER ROACH SPRAY, Piperonyl butoxide, pyrethrins-I-Aero Master
72 444 AEROSOL INSECTICIDE BOMB, Oil 12.8%, piperonyl butoxide 6%, pyrethrins 1.2%-IA-Chem. Spec. Corp.
73 444 AEROSOL INSECTICIDE BOMB, Oil 15.5%, piperonyl butoxide 4%, pyrethrins 0.5%-IA-Chem. Spec. Corp.
74 444 AEROSOL INSECTICIDE BOMB, Oil 18.2%, piperonyl butoxide 1.5%, pyrethrins 0.3%-IA-Chem. Spec. Corp.
75 AFC ALDRIN 4 LB. EMULS. CONC.-I-Am. Fluoride
76 AFC ANTU TECHNICAL-R-Am. Fluoride
77 AFC ANTU 20% TRACKING POWDER-R-Am. Fluoride
78 AFC ARSENIC WHITE POWDER-R-Am. Fluoride
79 AFC BARIUM CARBONATE-R-Am. Fluoride
80 AFC CHLORDANE, 46% E. C.-I-Am. Fluoride
81 AFC CHLORDANE, 62% E. C.-I-Am. Fluoride
82 AFC CHLORDANE, 72% E. C.-I-Am. Fluoride
83 AFC CHLORDANE, 20% O. S.-I-Am. Fluoride
84 AFC CHLORDANE, TECHNICAL-IC-Am. Fluoride
85 AFC CHLORDANE 40% WETTABLE POWDER-I-Am. Fluoride
86 AFC CHLORDANE 50% WETTABLE POWDER-I-Am. Fluoride
87 AFC DDT 25% EMULS. CONC.-I-Am. Fluoride
88 AFC 50% DDT MOUSE TRACKING POWDER-R-Am. Fluoride
89 AFC DDT 30% OIL SOLUBLE-I-Am. Fluoride

90 AFC DDT TECHNICAL-IC-Am. Fluoride
91 AFC DDT 50% WETTABLE POWDER-I-Am. Fluoride
91.50 AFC DDVP-IC-Am. Fluoride
92 AFC DIAZINON® 2D DUST, 2% Diazinon-I-Am. Fluoride
93 AFC DIAZINON® 25% E. C.-I-Am. Fluoride
94 AFC DIAZINON® 20% OIL SOLUBLE SOLUTION-I-Am. Fluoride
95 AFC DICAPTHON® 25% EMUL. CONC. OR OIL SOL.-I-Am. Fluoride
96 AFC DIELDRIN 1.5 LB. CONC.-I-Am. Fluoride
97 AFC DIELDRIN 50% WETTABLE POWDER-I-Am. Fluoride
97.50 AFC DIPHACIN-R-Am. Fluoride
98 AFC ENDRIN 1.6 LB. EMULS. CONC.-I-Am. Fluoride
98.50 AFC ENTEX®, O,O-Dimethyl O-[4-(methylthio)-*m*-tolyl] phosphorothioate-I-Am. Fluoride
98.70 AFC KEPONE®, Decahlorooctahdro-1,3,4-methano-2H-cyclobuta (cd), pentalene-2-one-I-Am. Fluoride
99 AFC LINDANE 10% EMULS. CONC.-I-Am. Fluoride
100 AFC LINDANE 20% EMULS. CONC.-I-Am. Fluoride
101 AFC LINDANE 10% OIL SOLUBLE-I-Am. Fluoride
102 AFC LINDANE TECHNICAL-IC-Am. Fluoride
103 AFC LINDANE 25% WETTABLE POWDER-I-Am. Fluoride
104 AFC MALATHION 50% E. C.-I-Am. Fluoride
105 AFC MALATHION 57% E. C.-I-Am. Fluoride
106 AFC MALATHION 90% OIL SOLUBLE-I-Am. Fluoride
107 AFC MALATHION 50% OIL SOLUBLE CONC. REFINED-I-Am. Fluoride
108 AFC MALATHION 25% WETTABLE POWDER-I-Am. Fluoride
109 AFC MIXED COLORED SEED, ½% and 1% Thallium-R-Am. Fluoride
110 AFC ORTHODICHLOROBENZENE-IF-Am. Fluoride
111 AFC PARADICHLOROBENZENE-IF-Am. Fluoride
112 AFC PENTACHLOROPHENOL 40% CONC.-WP-Am. Fluoride
113 AFC PIVALYL® 0.5% CONC. Pindone 0.5%-R-Am. Fluoride
114 AFC POISON CANARY SEED-R-Am. Fluoride
115 AFC PHOSPHOROUS PASTE SLOW DRYING-R-Am. Fluoride
116 AFC PYRETHRUM EMULS. CONC.-I-Am. Fluoride
117 AFC PYRETHRUM EXTRACT #20-IC-Am. Fluoride
118 AFC PYRETHRUM POWDER-I-Am. Fluoride
119 AFC PYRETHRUM #20N CONC.-IC-Am. Fluoride
120 AFC RED SQUILL POWDER FORTIFIED, 500 mg/kg-R-Am. Fluoride
121 AFC SODIUM FLUORIDE-I-Am. Fluoride
122 AFC THALLIUM SULPHATE-R-Am. Fluoride
123 AFC WARFARIN, 0.5% Concentrate-R-Am. Fluoride
124 AFC ZINC PHOSPHIDE-R-Am. Fluoride
125 AGAVENCO AIRCRAFT BOOM DUST SYSTEMS-E-Agr. Aviation
126 AGAVENCO AIRCRAFT SPRAY CONTROL VALVES-E-Agr. Aviation
127 AGAVENCO AIRCRAFT SPRAY PUMPS-E-Agr. Aviation
128 AGAVENCO AIRCRAFT SPRAY STRAINERS-E-Agr. Aviation
129 AGAVENCO AIRCRAFT SPRAY SYSTEMS-E-Agr. Aviation
130 AGAVENCO HELICOPTER SPRAY SYSTEMS-E-Agr. Aviation
131 AGGIEKIL CHLORDANE CONCENTRATE 76. Chlordane 76%-I-Aggie Chem.
132 AGGIEKIL-DENVERADO ROACH POWDER. Sodium fluoride, pyrethrum, rotenone-I-Aggie Chem.
133 AGGIEKIL PROFESSIONAL STRENGTH MOTH-CARPET BEETLE PROOFING CHEMICAL. Zinc, maganese silicofluoride, thiocarbamide-thiourea-MP-Aggie Chem.
134 AGKEM GARDEN DUSTER, Rotenone 1%, resinoids 2%, cuprous oxide 5%-FI-Agkem
135 AGR. SPECIALTIES AS-575 INSECTICIDE CONC., 25% p-Dioxanedithiol-bis-(O,O-diethylphosphorodithioate)-I-Agr. Specialties
136 AGR. SPECIALTIES CHLORDANE-4 SPECIAL (W. E. & O. S.), Chlordane 45%-I-Agr. Spec.
137 AGR. SPECIALTIES DELNAV®-EXTRA LIVESTOCK SPRAY AND DIP, 2,3,-p-Dioxane, S, S-bis (O,O-diethylphosphorodithioate) 30%-I-Agr. Specialties
138 AGR. SPECIALTIES DIELDRIN-18 W. E., Dieldrin 18%-I-Agr. Spec.
139 AGR. SPECIALTIES LINDANE-20 SPECIAL (W.E.&O.S.), Lindane 20%-I-Agr. Spec.
140 AGR. SPECIALTIES MALATHION-56, Malathion tech. 56%-I-Agr. Spec.
141 AGR. SPECIALTIES MALATHION 50. Malathion 50%-I-Agr. Spec.
142 AGRIMUL 70-A, Alkyl aryl polyether alcohols, emulsifier, 100%, nonionic-A-Nopco Chem.

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145 AGRIMUL N4R AND AGRIMUL N4S, Aromatic sulfonate-oxide consendate blend, emulsifier anionic-nonionic-A-Nopco Chem.
146 AGRIMUL TL, Aromatic sulfonate-oxide, emulsifier, 100%, anionic-A-Nopco Chem.
147 AGRIPES BRAND ALDRIN 2 LBS. PER GALLON, Aldrin 21.95%, oil 69.3%-I-Agricultural Pesticide
148 AGRIPES BRAND DDT 2.85 LBS. PER GALLON, DDT 32.8%, oil 64.2%-I-Agricultural Pesticide
149 AGRIPES BRAND DDT 3 LBS. PER GALLON, DDT 35.9%, oil 57.1%-I-Agricultural Pesticide
150 AGRIPES BRAND ENDRIN 19.5% EMULSIFIABLE, Endrin 1.6 lbs./gal.-I-Agricultural Pesticide
151 AGRIPES 40% METHYL PARATHION EMULSION-I-Agricultural Pesticide
152 AGRIPES BRAND POLVO PARA ALGODON 3-10-0, Gamma BHC 3%, DDT 10%-I-Agricultural Pesticide
153 AGRIPES 6 LB. TOXAPHENE PER GALLON EMULSIFIABLE CONCENTRATE, Toxaphene 60%, oil 35%-I-Agricultural Pesticide
154 AGRIPES 8 LB. TOXAPHENE PER GALLON EMULSIFIABLE CONCENTRATE, Toxaphene 70%, oil 16%-I-Agricultural Pesticide
155 AGRIPES 40-20 TOXAPHENE-DDT EMULSIFIABLE CONCENTRATE, Toxaphene 4 lbs./gal., DDT 2 lbs./gal.-I-Agricultural Pesticide
156 AGRIWET 9086, Fatty Derivative of an amino sulfonic acid, wetting agent, anionic-A-Nopco Chem.
157 AGRONYL R, Aromatic oil 100%-H-Socony-Mobil
158 AGROSOL, 2.2% Methyl mercury dicyandiamide-ST-Chipman (Can.)
159 AGROX,-Phenyl mercury urea 6.7% (mercury 4%)-ST-Chipman
160 AGROX C, Ethyl mercury chloride 1.06% (mercury equiv. 5%) Phenyl mercuric acetate 7.06%-ST-Chipman (Can.)
161 AGSCO ALDRIN E4, 4# Aldrin-I-Agsco
162 AGSCO BLITEX DI-6, Zineb-F-Agsco
163 AGSCO BLITEX T-7, *Tribasic Copper Sulfate-F-Agsco*
164 AGSCO BRUSH KILLER, Isoocytl Esters of 2,4-D and 2,4,5 T 2# each acid equiv.-H-Agsco
165 AGSCO 2,4-D-AMINE, Dimethylame salt of 2-4-D 49.4% (Equivalent to 41.0% 2,4-D#/gal.)-H-Agsco
166 AGSCO 2,4-D ISOPROPYL ESTER, Isopropyl ester of 2,4-D 45.3% (Equivalent to 38% 3,4-D or 3.34#/gal.-H-Agsco
167 AGSCO 2,4-D (LOW VOLATILE) ISOOCTYL ESTER, 4#/gal. acid equivalent-H-Agsco
168 AGSCO DDT 25-E, 2# DDT-I-Agsco
169 AGSCO DIELDRIN E 1.5 (1.5# Dieldrin/gal.)-I-Agsco
170 AGSCO ENDRIN 1.6, 1.6# Endrin-I-Agsco
171 AGSCO HEPTACHLOR E2-2# Heptachlor-I-Agsco
172 AGSCO KILL WEED DUST IE-5, Isopropyl esters 2,4-D (Acid equivalent 5%)-H-Agsco
173 AGSCO KILL WEED DUST IE-8, Isopropyl esters 2,4-D (Acid equivalent 8%)-H-Agsco
174 AGSCO KILL WEED DUST IE-10, Isopropyl esters 2,4-D (Acid equivalent 10%)-H-Agsco
175 AGSCO KILLER BLITEX D-3, Di-6, DDT Zineb-FI-Agsco
176 AGSCO KILLER BLITEX D-4, Di-6, DDT, Zineb-FI-Agsco
177 AGSCO KILLER BLITEX D-4, Tox-5, Di-6, DDT, Toxaphene, Zineb-FI-Agsco
178 AGSCO KILLER BLITEX D-5 T-7, DDT, Tribasic Copper Sulphate-FI-Agsco
179 AGSCO KILLER BLITEX THIO -3 DI-6 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzo-dioxathiepin-3-oxide, Zineb-FI-Agsco
180 AGSCO KILLER DUST D-4, TOX 5, DDT, Toxaphene-FI-Agsco
181 AGSCO KILLER DUST D-4 TOX-5, ZS-4, DDT, Toxaphene, Zinc Sulfate-FI-Agsco
182 AGSCO KILLER DUST D-5, DDT-I-Agsco
183 AGSCO KILLER BLITEX D-5, DI-6, DDT, Zineb-FI-Agsco
184 AGSCO KILLER DUST D-5 ZS-4, DDT, Zinc sulfate-FI-Agsco
185 AGSCO KILLER DUST THIO-4, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-Agsco
186 AGSCO KILLER DUST TOX-5 ZS-4, Toxaphene, Zinc sulfate-FI-Agsco
187 AGSCO MCP AMINE WEED KILLER, Dimethylamine MCP 4#/gal. acid equivalent-H-Agsco
188 AGSCO METHYL PARATHION, 2# Methyl Parathion-I-Agsco
189 AGSCO THIODAN®, 2# 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-Agsco
190 AGSCO TOXAPHENE E6, 6# Toxaphene-I-Agsco
191 AIR-CROP SPRAYER (For row crops)-E-John Bean
192 AIR-FLO GREEN, Cupric meta-arsenite 91.15%-I-Chipman
193 AIR-FLO GREEN (GRANULAR), Cupric meta arsenite 8.2%-I-Chipman
194 ALANAP® 3, N-1-Naphthyl phthalamic acid, sodium salt 23.7%-H-Calif. Chem.
195 ALANAP®-3, Sodium salt of N-1-naphthyl phthalamic acid 22%-H-U. S. Rubber (Naugatuck)
195.50 ALANAP®-CHLORO IPC®, Liquid sodium salt of N-1-naphthylphthalamic acid 22% & isopropyl N (3-chlorophenyl) carbamate 15.5%-H-U. S. Rubber (Naugatuck)
195.60 ALANAP®-CHLORO IPC® 12.5G, Sodium salt of N-1-naphthylphthalamic acid 7.5% & Isopropyl N (3-chlorophenyl) carbamate 5.0%-H-U. S. Rubber (Naugatuck)
196 ALANAP® 10 GRANULAR, N-1-Naphthyl phthalamic acid, sodium salt 10.8%-H-Calif. Chem.
197 ALANAP®-10G, Sodium Salt of N-1-naphthyl phthalamic acid 10.8%-H-U.S. Rubber (Naugatuck)
198 ALCO ALL PURPOSE WETTING & SPREADING AGENT, Alkyl aryl polyoxyethylene glycols-A-Alco
199 ALCO ANT SYRUP, Sodium Arsenite-IB-ALco
200 ALCO BUG BLAST, O,O-Diethyl 0-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, pyrethrins, piperonyl butoxide, MGK 264-I-Alco
201 ALCO BUG JUICE, DDVP, O,O-Diethyl 0-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, dieldrin-I-Alco
202 ALCO BUG JUICE CONCENTRATE, DDVP, O,O-Diethyl 0-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, dieldrin-I-Alco
203 ALCO CHLORDANE 72 E. C., Chlordane 72%-I-Alco
204 ALCO CHLORDANE 2.0 SPRAY, Chlordane 2%-I-Alco
205 ALCO CHLORDANE 20 O. B. SPRAY, Chlordane 20%-I-Alco
206 ALCO CIOTOX, *Alpha*-Methylbenzyl-3-(dimethoxyphosphinyloxy) *cis*-crotonate-I-Alco
207 ALCO CRAB GRASS KILLER, Disodium methylarsonate-H-Alco
208 ALCO DAIRY CATTLE DUST, Malathion, methoxychlor-I-Alco
209 ALCO DAIRY CATTLE & LIVESTOCK SPRAY, Hexahydro dibenzofurancarboxaldehyde, pyrethrins-I-Alco
210 ALCO DDT 2 SPRAY, DDT 25%-I-Alco
211 ALCO DDT 3 SPRAY, DDT 35%-I-Alco
212 ALCO DDT-TOXAPHENE 2-4 SPRAY, DDT, toxaphene-I-Alco
213 ALCO DDVP -1 SPRAY, DDVP 10.3%-I-Alco
214 ALCO DDVP 2 SPRAY OB, DDVP-I-Alco
215 ALCO DIAZINON® 3 DUST, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, 3%-I-Alco
216 ALCO DICAPTHON OIL SOLUBLE CONCENTRATE-I-Alco
217 ALCO DIELDRIN 1.5 SPRAY, Dieldrin 18.6%-I-Alco
218 ALCO FLY FIGHTER FLY BAIT, DDVP 0.5%-IB-Alco
219 ALCO FLY FIGHTER 2X FLY BAIT, DDVP-IB-Alco
220 ALCO FLY FIGHTER INSECT SPRAY PRESSURIZED, DDVP-IA-Alco
221 ALCO FLY FIGHTER LIQUID CONCENTRATE, DDVP-I-Alco
222 ALCO FLY FIGHTER SUPER XX STRENGTH LIQUID CONCENTRATE, DDVP-I-Alco
223 ALCO FLY FIGHTER SYRUP, DDVP-IB-Alco
224 ALCO FLY FIGHTER SYRUP, DDVP 0.5%-IB-Alco
225 ALCO FLY KILLER BAIT, DDVP 1%-IB-Alco
226 ALCO FLY-PELS, 1,2-Dibromo-2, 2-dichloroethyl dimethyl phosphate-I-Alco
227 ALCO FLY SPRAY, Pyrethrins 0.13%, Piperonyl butoxide 1.27%, oil 98.6%-I-Alco
228 ALCO FLY SPRAY WITH MGK REPELLANT, Pyrethrins 0.05%, Piperonyl butoxide 0.1%, MGK 264 0.16%, MGK R11 0.2%, Oil 98.49%-I-Alco
229 ALCO FLY SPRAY CONCENTRATE WITH MGK REPELLANT, Pyrethrins 0.83%, Piperonyl butoxide 1.67%, MGK 264 2.74%, MGK R11 4.77%, Oil 81.99%-I-Alco
230 ALCO FOG, DDVP 90%-I-Alco
231 ALCO FPI SPRAY, Pyrethrins, piperonyl butoxide, oils-I-Alco
231.50 ALCO GRUB KILLER POWDER, Rotenone, sulfur-FI-Alco
233 ALCO INSTANT KILL DAIRY & STOCK SPRAY, DDVP, hexahydro dibenzofurancarboxaldehyde-I-Alco
234 ALCO INSECT SPRAY, DDT 5.5%-I-Alco
235 ALCO LICE POWDER, 1-Naphthyl-N-methylcarbamate, rotenone, sulfur-FI-Alco
236 ALCO LINDANE 100 INSECTICIDE, LINDANE 100% IC-Alco
237 ALCO LINDANE SPRAY, Lindane 20%-I-Alco
238 ALCO LINDANE I SPRAY, Lindane 13%-I-Alco

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239 ALCO LIQUID GRUB KILLER, Methyl naphthalenes, pine oil, rotenone-I-Alco
240 ALCO L-T STOCK SPRAY, Lindane, toxaphene 95%-I-Alco
241 ALCO MALAPHENE D, Dioxane bis(diethyl)phosphorodithioate, malathion, toxaphene-I-Alco
242 ALCO MALATHION SPRAY, Malathion 57%-I-Alco
243 ALCO MALATHION 8 SPRAY, Malathion 80%-I-Alco
244 ALCO MALATHION 57 SPRAY, Malathion 57%-I-Alco
245 ALCO MBC 5, Chlorpicrin, methyl bromide-IF-Alco
246 ALCO PARADE, Hexahydro dibenzofurancarboxaldehyde, pyrethrins-I-Alco
247 ALCO PYRENONE® FLY SPRAY, Pyrethrins 0.06%, Piperonyl butoxide 0.63%, Oil 99.31%-I-Alco
248 ALCO PYRETHRIN 101 SPRAY CONCENTRATE, Pyrethrins, Piperonyl butoxide, Oil-I-Alco
249 ALCO RAT & MOUSE KILLER BAIT, Fumarin 0.025%-R-Alco
250 ALCO RESID, DDVP, ronnel-I-Alco
251 ALCO SCREW WORM KILLER, Benzol, chloroform, naphthalene-IR-Alco
252 ALCO 252 SPACE SPRAY SEMI-CONCENTRATE, Pyrethrin, Piperonyl butoxide, Oils,-I-Alco
253 ALCO STOP GROW, Maleic hydrazide-H-Alco
254 ALCO T LIVESTOCK SPRAY CONCENTRATE, Toxaphene-I-Alco
255 ALCO TICK-TOX, 2,3-p-dioxandithiol S, S-bis (O,O-diethyl phosphoro dethioate)-I-Alco
256 ALCOPHOS 1 SPRAY, DDVP 10.3%-I-Alco
256.50 ALDREC, 4 lb./gal. Emulsified aldrin-I-Chapman
257 ALDRIN, TECH., Purity as labeled. Minimum aldrin content 95% (equiv. to 90.3% hexachlorohexahydro-endo, exo-dimethanonaphthalene and 4.7% insecticidally active related compounds)-I-Shell
258 ALGRAN 10, Aldrin 10% (granular)-I-Chipman
259 ALGRAN 20, Aldrin 20% (granular)-I-Chipman
260 ALGRAN 25, Aldrin 25% (granular)-I-Chipman
261 ALL OVER FLEA POWDER, Organic thiocyanates I-Dill
262 ALLETHRIN, DL-2-Allyl-4-hydroxy-3-methyl-2-cyclopentanlone esterified with mixture of *cis* and *trans* DL-chrysanthemum carboxylic acid (allyl homolog of Cinerin I)-IC-Fairfield
263 ALLETHRIN 2.5%-IC-Fairfield
264 ALLETHRIN BUTOXIDE CONC. 6-30, Allethrin 5%, piperonyl butoxide 30%-IC-Fairfield
265 ALLETHRIN BUTOXIDE CONC. 10-25, Allethrin 10%, piperonyl butoxide 25%-IC-Fairfield
266 ALLETHRIN BUTOXIDE CONC. 10-30, Allethrin 10%, piperonyl butoxide 30%-IC-Fairfield
267 ALLETHRIN BUTOXIDE CONC. 20-33.2, Allethrin 20%, piperonyl butoxide 33.2%-IC-Fairfield
268 ALLETHRIN SOLN. 20%-IC-Fairfield
269 ALLETHRIN SOLN, 90%-IC-Fairfield
270 ALLEXCEL 20, Allethrin 1%, n-propyl isome 5%-IC-Penick
271 ALLIED CHEMICAL 5/25 ANTIRESISTANT®/DDT EMUL. CONC., 25% DDT, 5% Di-*n*-butyl-*p*-chlorobenzene sulfonate-I-Gen. Chem.
272 ALLIED CHEMICAL 5/25 ANTIRESISTANT/DDT OIL CONC., 25% DDT, 5% Di-*n*-butyl-*p*-chlorobenzene sulfonate-I-Gen. Chem.
273 ALLIED CHEMICAL ANTIRESISTANT®/DDT PYRETHRUM CONC., 27.75% DDT, 5.54% di-*n*-butyl-*p*-chlorobenzene sulfonate, 65.77% methylated naphthalenes, 0.75% piperonyl butoxide, 0.19% pyrethrums-I-Gen. Chem.
273.20 ALLIED CHEMICAL COMPOUND 4072 EM-2, Emulsifiable Conc. 2-chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate 2 lbs./gal.-I-Gen. Chem.
273.40 ALLIED CHEMICAL 10% COMPOUND 4072 GRANULAR, 2-Chloro-1-(2,4-dichlorophenyl) vinyl diethyl phosphate 10%-I-Gen. Chem.
273.60 ALLIED CHEMICAL DSMA "68", Disodium methylarsonate hexahydrate-H-Gen. Chem.
273.80 ALLIED CHEMICAL FIRE ANT BAIT "150", Mirex 0.15%-IB-Gen. Chem.
274 ALLIED CHEMICAL FIRE AND BAIT CONTAINS MIREX, Mirex 0.075%-IB-Gen. Chem.
274.20 ALLIED CHEMICAL HARVESTER ANT BAIT "150", Mirex 0.15%-IB-Gen. Chem.
274.25 ALLIED CHEMICAL HCA SEED CROP DESSICANT, Hexachloroacetone 95.0%-H-Gen. Chem.
274.30 ALLIED CHEMICAL HCA® WEED KILLER CONCENTRATE, Hexachloroacetone 95.0%-H-Gen. Chem.

Aiming to make weed killers? Investigate these new AMSCO AGRISOLV® solvents for the pesticide formulator

AMSCO AGRISOLV 52 A xylene-type solvent designed for formulations where low phytotoxicity is essential. Has a very narrow boiling range, almost completely aromatic – excellent substitute for xylene. Quality is exceptionally consistent, which eliminates formulating problems due to variations in solvent quality. Particularly suited for sensitive crop applications.

	AMSCO AGRISOLV 52*
Weight, Lbs./Gal. at 60°F.	7.24
Specific Gravity 60/60°F.	0.8702
Aromatics, %	99
Distillation Range, °F.	276-302
Flash Pt. °F. TCC	81

*DATA REPRESENTS TYPICAL VALUES

AMSCO AGRISOLV 75 A versatile heavy aromatic naphtha – low in cost. Characterized by high solvency for insecticides at low temperatures; readily emulsified. Excellent solvent for DDT, Lindane, Dieldrin, and other pesticides. Especially suited for use on cotton.

	AMSCO AGRISOLV 75*
Weight, Lbs./Gal. at 60°F.	7.76
Specific Gravity 60/60°F.	0.9320
Aromatics, %	84
Distillation Range, °F.	350-540
Flash Pt. °F. TCC	150

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274.35 ALLIED CHEMICAL KEPONE ANT & ROACH BAIT PELLETED, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one 0.125%-IB-Gen. Chem.
274.40 ALLIED CHEMICAL KEPONE® ANT & ROACH PASTE, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one 0.125%-IB-Gen. Chem.
274.45 ALLIED CHEMICAL 50% KEPONE® WETTABLE POWDER, Decachloro-octa-hydro-1,3,4-metheno-2H-cyclobuta (cd), pentalen-2-one 50%-I-Gen. Chem.
274.50 ALLIED CHEMICAL UROX-"D" 20 GRANULAR WEED KILLER, Diuron 20%-H-Gen. Chem.
274.55 ALLIED CHEMICAL UROX-"D" GRANULAR WEED KILLER, Diuron 8%-H- Gen. Chem.
274.60 ALLIED CHEMICAL UROX-"D" LIQUID OIL CONCENTRATE WEED KILLER, Dodecylbenzenesulfonate of diuron 46.12%-H-Gen. Chem.
274.65 ALLIED CHEMICAL UROX-"H" GRANULAR ISOCIL WEED KILLER, Isocil 4%-H-Gen. Chem.
274.70 ALLIED CHEMICAL UROX-"J" LIQUID GRASS AND WEED KILLER, Monuron trichloroacetate and sodium chlorate-H-Gen. Chem.
274.75 ALLIED CHEMICAL UROX LIQUID-OIL CONCENTRATE WEED KILLER, Monuron-TCA 32.4%-H-Gen. Chem.
277 ALLYL ALCOHOL, Min. purity 98%-H-Shell
278 ALPHA OIL B, Min. unsulphonatable residue petroleum oil 95%-I-Atlantic Ref.
279 ALPUNOD, Odorant for pesticide manufacturing-A-Florasynth
280 AMCHEM CRABGRASS KILLER PRE-EMERGENCE,O-(2,4-Dichlorophenyl O-methyl isopropylphosphoramidothioate 8%-H-Amchem Prods.
281 AMCHEM GARDEN WEEDER, 1.2% Sesone-H-Amchem Prods.
282 AMCHEM POISON IVY KILLER AEROSOL, 1% 3-Amino-1,2,4-triazole soluble powder 50%-H-Amchem Prods.
283 AMCHEM SESONE, Sodium 2,4-dichlorophenoxyethyl sulfate 90%-H-Amchem. Prods.
284 AMERICAN SMELTING ARSENIC-IC-Am. Smelt.
285 AMERICAN SMELTING THALLIUM SULFATE-IR-Am. Smelt.
286 AMIBEN, Ammonium salt of 3-amino-2,5dichlorobenzoic acid, 2 lb. acid equiv./gal.-H-Amchem Prods.
AMITROL-3-AMINO-1,2,4-TRIAZOLE
287 AMINO TRIAZOLE WEEDKILLER, 2-Amino-1,2,4-triazole 50%-H-Am. Cyanamid
288 AMITROLE-90, 3-Amino-1,2,4-triazole 90%-H-Am. Cyanamid
289 AMITROL T, 2 lbs. 3 Amino-1,2,4 triazole per gal.-H-Amchem
290 AMIZINE, Amitrole 15% and simazine 45%-H-Amchem Prods.
291 AMMATE® X WEED & BRUSH KILLER, Ammonium sulfamate 95%-H-DuPont (I & B)
293 AMMATE® WEED AND BRUSH KILLER, Ammonium sulfamate 80%-H-DuPont (F & F)
293.50 AMMATE® X WEED & BRUSH KILLER SOLN., Ammonium sulfamate 80%-H-Du Pont (I & B)
294 AMOBAM, Diammonium ethylene bisdithiocarbamate 42%-F-Roberts
295 AMSCO AGRISOLV, Am. Mineral Spirits
295.10 AMSCO AGRISOLV NO. 1, Petroleum derivative solvent-D-Am. Mineral Spirits
295.15 AMSCO AGRISOLV NO. 2, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.20 AMSCO AGRISOLV NO. 21, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.25 AMSCO AGRISOLV NO. 22, Petroleum deriv. solvent-D-Am. Mineral Spirits
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295.45 AMSCO AGRISOLV NO. 51, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.50 AMSCO AGRISOLV NO. 52, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.55 AMSCO AGRISOLV NO. 53 Petroleum deriv. solvent-D-Am. Mineral Spirits
295.60 AMSCO AGRISOLV NO. 54, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.65 AMSCO AGRISOLV NO. 58, Petroleum deriv. solvent-D-Am. Mineral Spirits
295.70 AMSCO AGRISOLV NO. 75, Petroleum deriv. solvent-D-Am. Mineral Spirits
310 AMSCO-SOLV H-SB, Petroleum Deriv.-D-Am. Mineral Spirits
315 AMSCO TOLUENE (solvent)-D-Am. Mineral Spirits
316 AMSCO XYLENE (Solvent)-D-Am. Mineral Spirits
317 ANDREWS BASIC COPPER SULFATE-F-Andrews
318 ANDREWS BASIC ZINC CARBONATE FERTILIZER COMPOUND, 56% zinc.-N-Andrews
319 ANDREWS COPPER SULFATES (Various sizes)-F-Andrews
320 "ANSAR" 138, Cacodylic acid tech.-H-Ansul
321 "ANSAR" 157, Ammonium methyl arsonate-H-Ansul
321.50 "ANSAR" 160, Cacodylic acid liquid-H-Ansul
321.75 "ANSAR" 170, Methanearsonic acid, sodium salt-H-Ansul

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"ANSAR" 290 METHYLARSONATE + 2, 4 D a combination herbicide effective on both broadleaf and grassy weeds.

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322 "ANSAR" 184, Disodium methyl arsenate-H-Ansul
323 "ANSAR" 201, Copper methyl arsonate-H-Ansul
323.50 "ANSAR" 290D, 2,4-D methanearsonic acid-H-Ansul
323.60 ANSCO-PREVENTOL GD, 2, 2'-Dihydroxy-5,5'-dichlorodiphenyl methane (dichlorophene) 96%-F-General Aniline
323.70 ANTARATE 9183, Oil soluble anionic/nonionic emulsifier-A-General Aniline
324 ANT-B-GON, Sodium arsenite 0.2%-IB-Calif. Chem.
325 ANT DINER, Thallium Sulfate-IB-Puro
326 ANT DINER, Thallium sulfate-IB-Sterling
327 ANT DOOM, Sodium fluoride-I-Murray
328 ANT-X, Thallium Sulfate-R-Nott
328.50 ANTH-OLA ANTHRACENE OIL, Coal tars-I-WP-Rockland
331 ANTI-CARIE, Hexachlorobenzene 40% & 80%-F-Agrochem
ANTIMONY POTASSIUM TARTRATE=TARTAR EMETIC
332 ANTIROT, Pentachlorphenol 4.5%, other chlorophenols 0.6%-WP-Woolfolk
333 ANTIROT-10X, Methyl naphthalene 28.9%, pentachlorophenol 37.1%, other chlorophenols 5.1%-WP-Woolfolk
334 ANTROL AFRICAN VIOLET & HOUSE PLANT BOMB, Pyrethrins 0.025%, rotenone 0.14%, rotenoids 0.25%, piperonyl butoxide 0.25%-IA-Boyle-Midway
335 ANTROL ANT KILLER, Sodium arsenite 0.61%-IB-Boyle-Midway
336 ANTROL ANT POWDER, Chlordane 1.5%, piperonyl butoxide 0.35%, pyrethrins 0.06%-I-Boyle-Midway
337 ANTROL ANT SYRUP, Sodium arsenite 0.61%, IB-Boyle-Midway
338 ANTROL ANT TRAP, Thallium sulfate 1.15%, IB-Boyle-Midway
339 ANTROL 72% CHLORDANE, Chlordane 72%, Oil 24%-I-Boyle-Midway
340 ANTROL CONCENTRATE-CHLORDANE SOIL INSECT KILLER, Chlordane 45.0%, oil 50%-I-Boyle-Midway
341 ANTROL CONCENTRATE-CRABGRASS AND CHICKWEED KILLER, Octyl Ammonium Methyl Arsonate 8%, Dodecyl Ammonium Methyl Arsonate 8%-H-Boyle-Midway
342 ANTROL CONCENTRATE-GARDEN INSECT KILLER, Malathion 6.5%, Methoxychlor 5%, Oil 83.5%-I-Boyle-Midway
343 ANTROL HOSE SPRAY CONCENTRATE-CHLORDANE SOIL INSECT KILLER, Chlordane 45%, oil 50%-I-Boyle-Midway
344 ANTROL HOSE-SPRAY CONC.-CRABGRASS AND CHICKWEED KILLER, Octyl Ammonium Methyl Arsonate 8%, Dodecyl Ammonium Methyl Aronsate 8%-H-Boyle-Midway
345 ANTROL HOSE SPRAY CONCENTRATE-2,4-D and 2,4,5-T Amine Weed and Brush Killer, Alkanolamine salts (of the Ethanol and isopropanol series) of 2,4-D 6.5%, Triethylamine salts of 2,4,5-T 3.5%-H-Boyle-Midway
346 ANTROL HOSE SPRAY CONCENTRATE-GARDEN INSECT KILLER, Malathion 6.5%, methoxychlor 5.0%, methylated naphthalenes 83.5%-I-Boyle-Midway
347 ANTROL 50% MALATHION, Malathion 50%, methylated naphthalenes 42%-I-Boyle-Midway
348 ANTROL MULTI-PURPOSE DUST, Malathion 4%, captan 4%, methoxychlor 5%, sulfur 25%-FI-Boyle-Midway
349 ANTROL MULTI-PURPOSE ROSE AND FLOWER DUST, Malathion 4%, captan 4%, methoxychlor 5%, sulfur 25%-FI-Boyle-Midway
350 ANTROL PUSH-BUTTON MULTI-PURPOSE ROSE SPRAY FLOWER BOMB, Lindane 1%, rotenone 0.2%, rotenoids 0.3%, captan 0.5%, 2,4-dinitro-6-(2-octyl) phenyl crotonate 1.25%, pyrethrins 0.02%, piperonyl butoxide 0.25%-FI-Boyle-Midway
351 ANTROL SQUEEZE 'N WEED DANDELION PLANTAIN-POISON IVY KILLER, Alkanolamine Salts (of the Ethanol and Isopropanol Series) of 2,4-D 0.6%, Triethylamine Salts of 2,4,5-T 0.4%-H-Boyle-Midway
ANTU=ALPHA NAPHTHYL THIOUREA
352 AO RESPIRATOR-GOGGLE COMBINATION R71658, American Optical
353 AO RESPIRATOR R6058, American Optical
354 AO DUST RESPIRATOR R9100-E-American Optical
355 AO SPLASH GOGGLE 484-B-E-American Optical
356 APCO 467, Petroleum derivative-D-APCO Oil Corp.
357 AQUAFIL DIATOMITE FILLERS, Diatomaceous Earth Technical-natural insert fillers-D-Aquafil
358 1-8 AQUAFIL (Diatomaceous earth technical for alfalfa seed spraying)-D-Aquafil
359 AQUA-KLEEN 20 GRANULAR, 20% 2,4-D acid equiv. as low volatile butoxy ethanol ester.-H-Amchem Prods.

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360 AQUALIN® (BIOCIDE, HERBICIDE, SLIMICIDE), 100% active, contains 85% acrolein-H-Shell
360.50 AQUATHOL® PLUS, Endothal 1.7 lb./gal. plus silvex acid as potassium salts, 2.4 lb./gal.-H-Pennsalt
362 ARAB AUTOMATIC FUMIGATOR, 1%, piperonyl butoxide 0.40% pyrethrins, 2% rennel I-Federal
364 ARAB MOTH KILLER-PROOFER, 2.05% Isobornyl thiocyanoacetate, 4.75% diethyl diphenyl dichloroethane, perthane, 0.4 MP-Federal
365 ARAB ROACH AND ANT SPRAY, 0.5% Diazinon, 0.525% piperonyl butoxide, 0.105% pyrethrins-I-Federal
366 ARAB U-DO-IT TERMITE CONTROL, 72% Technical chlordane; emulsifiable-I-Federal
366.50 ARAMITE®-3D, 2 (p-tert. butylphenoxy) isopropyl-2-chloroethyl sulfite 3%-I-U. S. Rubber (Naugatuck)
367 ARAMITE®-15W, 2-(p-tert-Butylphenoxy) isopropyl 2-chloroethyl sulfite 15%-I-U. S. Rubber (Naugatuck)
368 ARAMITE®-85E, 2-(p-*tert*-Butylphenoxy) isopropyl 2-chloroethyl sulfite 85%-I- U. S. Rubber (Naugatuck)
368.50 ARASAN® 75, Thiram 75%-ST-Du Pont (I & B)
368.75 ARASAN® 42-S, Thiram 42% (4 lb./gal.)-ANR-Du Pont (I & B)
373 ARASAN® SF-M, Methoxychlor 2%, thiram 75%-ST-DuPont (I & B)
374 ARASAN® SF-X, Thiram 75%-ST-DuPont (I & B)
375 ARBORITE, Tree Wound Paint, 40% Asphalt, 12% Volcanic clay, 48% Water-F-Garden Prods.
376 "ARNOLD" ARSEN-O-SPRAY INSECTICIDE Lead Arsenate-I-Garden Hose
377 "ARNOLD" CAPTAN SPRAY INSECTICIDE-F-Garden Hose
378 "ARNOLD" CHLORDANE SPRAY INSECTICIDE-I-Garden Hose
379 "ARNOLD" DDT SPRAY INSECTICIDE-I-Garden Hose
380 "ARNOLD" LINDANE SPRAY INSECTICIDE-I-Garden Hose
381 "ARNOLD" MALATHION SPRAY INSECTICIDE-I-Garden Hose
382 "ARNOLD" METHOXYCHLOR SPRAY INSECTICIDE-I-Garden Hose
382.50 "ARNOLD" MULTI-PURPOSE SPRAY INSECTICIDE, Captan, malathion, methoxychlor-FI-Garden Hose
383 "ARNOLD" NIC-O-SPRAY INSECTICIDE, Nicotine-I-Garden Hose
384 "ARNOLD" P-R SPRAY INSECTICIDE, Pyrethrum, Rotenone-I-Garden Hose
385 "ARNOLD" SULPH-O-SPRAY INSECTICIDE, Sulfur-FI-Garden Hose
387 ARROWHEAD® GRANULAR BENTONITE (Pesticide carrier)-D-Magnet Cove
389 ARWELL CHLORDANE EMULSIFIABLE 73½%-I-Arwell
389.50 ARWELL CYGON® 2E INSECTICIDE, 23.4% Dimethoate-I-Arwell
391 ARWELL 26.6% DDT EMULSION CONCENTRATE, DDT 26.6%, oil 23.6%-I-Arwell
392 ARWELL DDT OIL SOLN. 30%-I-Arwell
392.50 ARWELL DIAZINON 4E INSECTICIDE, 47.5%, diazinon-I-Arwell
392.60 ARWELL DRY FLY BAIT-10 LB. BAGS, 0.5%, DDVP, 1% malathion-IB-Arwell
392.70 ARWELL ELM TREE CONCENTRATE, 25%, DDT, 18% oil-I-Arwell
394 ARWELL FLY SPRAY, Piperonyl butoxide 0.40%, pyrethrins 0.08%-I-Arwell
395 ARWELL FOGGING INSECTICIDE, oil 82.61%, mineral oil 12.59%, isobornyl thiocyanoacetate 2.46%, piperonyl butoxide 1.50%, pyrethrins 0.30%-I-Arwell
396 ARWELL FOOD PLANT RESIDUAL, Lindane 0.5%, methoxychlor 3.5%-I-Arwell
396.50 ARWELL H-D AEROSOL BOMB-2½ LB., 4%, Piperonyl butoxide, 0.5% pyrethrins-IA-Arwell
397 ARWELL LINDANE 20% EMULSIFIABLE-I-Arwell
398 ARWELL 57% MALATHION, Malathion 57.0%, Solvent 33.1%-I-Arwell
400 ARWELL METHOXYCHLOR-LINDANE EMUL. CONC., Lindane 0.5%, methoxychlor 3.5%-I-Arwell
401 ARWELL MILL SPRAY, Piperonyl butoxide 1%, pyrethrins 0.20%-I-Arwell
402 ARWELL MOTH & INSECT SPRAY, DDT 2.5%, organic thiocyanates 2%, pyrethrins 0.04%-I-Arwell
403 ARWELL PYRENONE EMUL. CONC., Piperonyl butoxide 12%, pyrethrins 1.2%-I-Arwell
404 ARWELL RAT-MOUSE BAIT, 2-Isovaleryl-1,3 indandione 0.05%-R-Arwell
405 ARWELL ROACH SPRAY, Chlordane 2%-I-Arwell
406 ARWELL SUPER FOG, Oil 99.25%, N-octyl bicycloheptene dicarboximide 0.400%, piperonyl butoxide 0.250%, pyrethrins 0.125%-I-Arwell
407 ARWELL SUPER SPRAY, Piperonyl butoxide 1.50%, pyrethrins 0.30%-I-Arwell
408 ARWELL T-FOGGING INSECTICIDE, oil 81.0%, malathion 2.0%, organic thiocyanates 2%-I-Arwell

408.50 ASC-4, BRAND OF DIAPHENE, Synergistic mixture of brominated salicylanilides 100%-F-ST-Stecker
410 ASSOCIATED B.R.-TOX, 65% Toxaphene-I-Assoc. Sales
411 ASSOCIATED DAIRY CATTLE BARN & LIVESTOCK SPRAY, Pyrethrins, dibutyl succinate-I-IR-Assoc. Sales
412 ASSOCIATED DDT ELM-SHADE SPRAY, DDT 27% with white oil-I-Assoc. Sales
413 ASSOCIATED 25% DDT EMULSIFIABLE CONC., 2 lbs. DDT/gal.-I-Assoc. Sales
414 ASSOCIATED 1.5 DIELDRIN EMULSIFIABLE CONC., 1.5 lbs. Dieldrin/gal.-I-Assoc. Sales
415 ASSOCIATED T-45 LIVESTOCK SPRAY CONC., 45% Toxaphene, 1.95% BHC.-I-Assoc. Sales
416 ASSOCIATED LIVESTOCK TOXAPHENE CONC., 61% Toxaphene-I-Assoc. Sales
417 ASSOCIATED NEMAGON® EC, 4.3 lbs. 1,2-Dibromo-3-chloropropene/gal.-IF-Assoc. Sales
418 ASSOCIATED NEMAGON® G4, 1,2-Dibromo-3-chloropropene 17.3%-IF-Assoc. Sales
419 ASSOCIATED NEMAGON® OS, 4.3 lbs. 1,2-Dibromo-3-chloropropene/gal. oil solution-IF-Assoc. Sales
420 ASSOCIATED PY-II DAIRY CATTLE PROTECTANT, (Concentrate), Piperonyl butoxide, pyrethrins-I-Assoc. Sales
421 ASSOCIATED TOXAPHENE EMULSIFIABLE CONC., 6 lbs. Toxaphene/gal.-I-Assoc. Sales
422 ASSOCIATED WEED & BRUSHOFF 400, 17% 2,4-D and 8.3% 2,4,5-T as Diethylethanolamine Salts.-H-Assoc. Sales
423 ASSOCIATED ZING, DDT, Chlordane-I-Assoc. Sales
424 ATCO COLD DIP TAR, Preservative for fish nets, lines, etc.-WP-Amer. Tar Co.
425 ATCO COPPER PRESERVATIVE, Copper naphthenate-WP-Amer. Tar Co.
425.50 ATCO PENTA PRESERV-A-SEAL, 5% Pentachlorophenol-WP-Am. Tar Co.
425.60 ATCO PENTA TEN-TO-ONE CONCENTRATE, Pentachlorophenol-WP-Am. Tar Co.
425.70 ATCO PENTA WOOD PRESERVATIVE, 5% Pentachlorophenol-WP-Am. Tar Co.
426 ATCO SPECIFICATION CREOSOTE, AWPA Grand 1, for preserving wood, poles, etc.-WP-Amer. Tar Co.
427 ATCO TAR AND CREOSOTE, For wood shingles, fence posts, etc.-WP-Amer. Tar Co.
428 ATCO WOOD PRESERVATIVE, Light commercial grade creosote and refined coal tar for general use-WP-Amer. Tar Co.
429 ATLACIDE, Sodium chlorate 58%-H-Chipman (U.S. and Can.)
430 ATLACIDE, Sodium chlorate 59.2%-H-Chipman (Can.)
431 ATLACIDE WITH 2,4-D, Sodium chlorate 58%, 2,4-D 0.6%-H-Chipman
432 ATLANTIC BENZENE, Aromatic hydrocarbon-D-Atlantic Ref.
433 ATLANTIC ODORLESS SOLVENT, Highly refined alkylate solvent-D-Atlantic Ref.
434 ATLANTIC SOLVENTS 52 and 57, Petroleum derivatives-D-Atlantic Ref.
435 ATLANTIC ULTRAWETS, Xylene and toluene sulfonate, hydrotropes-A-Atlantic Ref.
436 ATLAS "A" Sodium arsenite 4 lbs. As_2O_3/gal.-H-Chipman
437 ATLAS "A" 6, Sodium arsenite 6 lbs. As_2O_3/gal.-H-Chipman
438 ATLAS "A" 8, Sodium arsenite 8 lbs./gal.-I-H-Chipman
439 ATLAS "A" 9.5, Sodium arsenite 9.5 lbs. As_2O_3/gal.-H-Chipman
440 ATLAS "A" DEBARKING COMPD., Sodium arsenite-H-Chipman
441 ATLAS "A" SP, Sodium arsenite 94%-H-I-Chipman
442 ATLAS CATTLE DIP IMPROVED, Soap 10.3%, Sodium arsenite 27%, sodium cresylate 11%-I-Chipman
443 ATLAS D DEBARKING COMPOUND, Sodium arsenite-H-Chipman
444 ATLAS "D" WEED KILLER, Sodium arsenite 40%-H-Chipman
445 ATLOX 1045-A, Polyoxyethylene sorbitol oleate-laurate-A-Atlas
445.50 ATLOX 1256, Polyoxyethylene sorbitoe tall oil-A-Atlas
454 ATLOX 3387, Complex anionic-nonionic blend-A-Atlas
455 ATLOX 3396, Alkyl aryl sulfonate blended with polyoxyethylene sorbitol hexaoleate-A-Atlas
456 ATLOX 3403, Complex anionic-nonionic blend-A-Atlas
457 ATLOX 3404, Complex anionic-nonionic blend-A-Atlas
458 ATLOX 3409, Complex anionic-nonionic blend-A-Atlas
459 ATLOX 8916P, Polyoxyethylene sorbitan esters of mixed fatty and resin acids-A-Atlas
460 ATLOX 8916T, Polyoxyethylene sorbitan esters of mixed fatty and resin acids-A-Atlas
461 ATOX, Rotenone 1%, -I-Chipman (Can.)
ATRAZINE—see GEIGY ATRAZINE
461.50 ATTACK INSECT SPRAY, Ethylhexyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-Uncle Sam
462 ATTACLAY, Attapulgite type carrier, diluent and grinding aid-D-Minerals & Chemicals Philipp Corp.

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463 ATTACLAY, Granular, Attapulgite type carriers for granular insecticides, fungicides, and herbicides. Available in four grades and five mesh sizes.-D-Minerals & Chemicals Philipp Corp.

464 ATTACLAY X-250, Attapulgite type carrier diluent, grinding aid, and conditioner -D-Minerals & Chemicals Philipp Corp.

465 ATTAGEL, Attapulgite type carrier and suspending aid for wetting powders; emulsion stabilizer for flowable pesticide concentrates-D-Minerals & Chemicals Philipp Corp.

465.50 AURAGREEN®, Auramine, crystal violet, malachite green-F-Mallinckrodt

465.75 AVENARIUS CARBOLINEUM®, Coal tar oils 50%-WP-Carbolineum

469 AZUR AEROSOL INSECT BOMB, DDT 2%, lethane 384, piperonyl 0.5%, pyrethrins 0.1%, Record Chem.

470 AZUR HOME & GARDEN BOMB, Pyrethrins 0.1%, piperonyl 1.0%, methoxychlor 2.0%, rotenone 0.15%-IA-Record Chem.

470.50 B & G RAT JIGGER-E-B & G Co.

471 B & G SPRAYER (Compressed air)-E-B & G Co.

472 B & G SPRAYER (Hand)-E-B & G Co.

473 B & G SPRAYER (Power)-E-B & G Co.

474 B & G SUB-SLAB INJECTOR, (Termite control equipment)-E-B & G Co.

475 BABBITT INSECT KILLER, Allethrin 0.1%, DDT 3%, methoxychlor 1%, organic thiocyanates 1%-IA-B.T. Babbitt, Inc.

476 BABBITT NON-TOXIC INSECT KILLER, Pyrethrins 0.2%, piperonyl butoxide 1%-IA-B. T. Babbitt, Inc.

477 BACCO, TDE 2 lb. E. C.-I-Daly-Herring

478 BACCO, TDE 10% Dust-I-Daly-Herring

480 BAINICIDE INSECT SPRAY, GRADE AA, Oil, piperonyl butoxide, pyrethrins-I-Lester

482 BAN-A-BUG, Chlordane 2%-I-Wipp

483 BANAFLY DRY BAIT, 0.5% DDVP, 1.0% Malathion-IB-Am. Sci. Labs.

484 BANAFLY SPRAY BASE, 0.6% Pyrethrins, 1.2% piperonyl butoxide, 2.0% N-octyl bicycloheptene dicarboximide, 50.0% butoxypolypropylene glycol, 15.0% methylated naphthalenes, 22.2% oil-I-Am. Sci. Lab.

485 BANAMOUSE WARFARIN BITS, 0.05% Warfarin-R-Am. Sci. Labs.

486 BANARAT WARFARIN BITS, 0.025% Warfarin-R-Am. Sci. Labs.

487 BANDANE TECH., Polychlorodicyclopentadiene isomers-IC-Velsicol

488 BANGA-BUG BUG KILLER, Cresylic acid 1%, DDT 2%, oil 97%-I-Jaylin

489 BANTA HI-FOG APPLICATOR-E-Banta

490 BANTA PORTABLE POWER SLAB-INJECTOR-E-Banta

491 BANTAM MIKRO-PULVERIZER (Pesticide grinding equip.)-E-Pulverizing Mach.

492 BANVEL D SOLUTION, 4 lbs./gal. 2 methoxy-3, 6-dichlorobenzoic acid (Dimethylamine salt)-H-Velsicol

493 BAR-X BRAND INSECTICIDE, 6% Rotenone-I-Woodbury

494 BARCO HOSE END X-25 PROPORTIONING SPRAYER-E-Barco

495 BARCO HOSE END X-30 FIXED PROPORTION SPRAYER-E-Barco

496 BARCO HOSE END SELECTOR SPRAYER-E-Barco

497 BARCO HOSE END STANDARD SPRAYER-E-Barco

498 BARCO HOSE MIX-IT SPRAY GUN-E-Barco

499 BARCO HOSE MIX'T MULTI-PURPOSE INSECTICIDE & FUNGICIDE SPRAY PELLETS, Captan 12.5%, malathion 5%, methoxychlor 15%-FI-Barco

500 BARCO HOSE MIX'T SOIL INSECT KILLER PELLETS, Chlordane 42%-I-Barco

501 BARCO MODEL 500 HAND OPERATED PUMP TYPE SPRAYER-E-Barco

502 BARDEN KAOLIN CLAY-D-Huber

503 BARNET CLAY-D-United Clay

504 BARNETT BLUE FLY INSECTICIDE BOMB, Piperonyl butoxide 4%, pyrethrins 0.5%-IA-Barnett

505 BARNETT BRAND 45% CHLORDANE EMULSIFIABLE CONC.-I-Barnett

506 BARNETT BRAND 72% CHLORDANE EMULSIFIABLE CONC.-I-Barnett

507 BARNETT BRAND 20% CHLORDANE OIL SOLUBLE CONC.-I-Barnett

508 BARNETT BRAND 50% DDT DUST AND WETTABLE POWDERS-I-Barnett

509 BARNETT BRAND GREEN FLY INSECTICIDE BOMB, Octyl bicycloheptene dicarboximide 1%, piperonyl butoxide 1%, pyrethrins 0.5%-IA-Barnett

510 BARNETT BRAND RED FLY INSECTICIDE BOMB, Butoxypolypropylene glycol 5%, piperonyl butoxide 4%, pyrethrins 0.5%-IA-IR-Barnett

511 BARNETT BRAND YELLOW FLY INSECTICIDE BOMB, di-n-butyl succinate 5%, oil, piperonyl butoxide, pyrethrins-IA-IR-Barnett

512 BARNETT BRAND THALLIUM SULFATE 99%-R-Barnett

513 BARON®, 2-(2,4,5-Trichlorophenoxy) ethyl 2,2-dichloropropionate 80.5%, related compounds 10.8%-H-Dow

514 BARTLETT'S ARSENATE OF LEAD WP-I-Bartlett Mfg. Co.

ATTACLAY | *Granular* **ATTACLAY** | **ATTACLAY X-250**

leading carriers and diluents for quality pesticide formulations at lower costs

ATTACLAY

Attaclay is a versatile carrier and diluent for the formulation of insecticides, fungicides, and other agricultural chemical dusts and powders.

Source — Attapulgite, a complex hydrated aluminum magnesium silicate — Chemical Analysis (volatile free basis)

SiO_2	67.0%
Al_2O_3	12.5%
MgO	11.0%
Fe_2O_3	4.0%
CaO	2.5%
Other	3.0%

Hardness — Degritted, non-abrasive.

Bulk Density — 27-31 lbs. cu. ft. (packed condition).

Fineness — 1-2 microns (surface mean diameter, by air permeation method).

pH — Neutral — no effect on acid- or alkali-sensitive materials.

Sorptive Capacity — Attaclay's ability to accept and carry large amounts of liquid or low melting point solid toxicants enables processors to make highly concentrated formulas which are dry and lump-free more efficiently than with other known carriers or diluents. It is possible to manufacture dusts or powders directly from liquids by a simple one-step impregnation.

Wettability, Suspensibility — Wets very rapidly, disperses readily.

Flowability — Accepts unusually large amounts of toxicants yet stays lump-free. Flows loosely during and after formulation and after long periods of storage, even under adverse conditions.

Compatibility — Physical and chemical compatibility is well established.

Dustability, Conditioning — Imparts lightness and fluffiness to dust base; adjusts volume-weight of finished dusts; conditions formulas for improved flowability and covering power.

Uses — *Grinding aid* for pesticide chemicals; *Carrier* for dust bases, wettable powders, impregnation formulas; *Diluent* for field strength dusts; *Conditioner* for finished formulas, fertilizers, and other chemicals such as ammonium sulfate.

ATTACLAY X-250

Recommended as a carrier and conditioner in those applications in which the superior sorptive capacity and fineness of Attaclay are not necessarily required. Attaclay X-250 is 96-97% finer than 200 Mesh and 100% finer than 100 Mesh, is 10-15% less sorptive than Attaclay, and has a bulk density (packed condition) of 34-36 lbs./cu. ft.

Granular ATTACLAY

Development of Granular Attaclay, based on our years of experience with granular grades, opens new opportunities for pesticide processors. Granular Attaclay provides a most efficient means of formulating granular pesticides and applying them to the soil and to water.

Source — same as Attaclay.

Bulk Density — 32-34 lbs. cu. ft.

Mesh Sizes — 15-30, 20-35, 21-48, 30-60

pH — see Attaclay.

Adsorptivity — see Attaclay; the following table illustrates these unique properties:

TYPICAL COMMERCIAL GRANULAR FORMULAS

TOXICANT	% ACTIVE INGREDIENT
Insecticides	
Aldrin	10, 20 and 25
Chlordane	10 and 20
DDT	5 and 10
Dieldrin	5 and 10
Endrin	2 and 4
Heptachlor	10, 20 and 25
Nemagon	17.3 and 30
Thimet	5 and 10
Herbicides	
2, 4-D and related compounds	10 and 20
CIPC (IPC-Chloro)	5 and 10
DN	8 and 10
Randox	20
Simazin	4 and 8

Formulation — Rotary drum-type mixers are recommended since particle breakdown is practically eliminated with this kind of equipment. Ribbon blending equipment is not recommended because of its undesirable attrition effect on the granules.

Application — Shows greatest superiority over dust and emulsion formulations when applied from the air. Distribution pattern extremely uniform. Ideal for mixing granular pesticide concentrates with fertilizer to eliminate segregation. Gives excellent distribution of toxicant in soil or water. Can be used in broadcast, band or row treatment with conventional equipment.

Toxicant Release — Can be controlled by various methods. "AA" RVM Granular Attaclay disintegrates in water and tends to release toxicants faster than does the "A" LVM Granular Attaclay. Indications are that specific surfactants can control toxicant release.

Compatibility — Well established through commercial formulations.

Uses — Carrier for liquid impregnations; Soil conditioner; Anti-caking agent.

Put our agricultural chemical products to your most exacting tests. Write for generous samples and technical assistance.

MCP

MINERALS & CHEMICALS PHILIPP CORP. / MENLO PARK, N. J.

958870122

515 BARTLETT'S COLLOIDAL ARSENATE OF LEAD-I-Bartlett Mfg. Co.
516 BARTLETT'S COLSUL, 48% Sulphur (colloidal) I-Bartlett Mfg. Co.
517 BARTLETT'S 7% COPPER WITH 3% DDT DUST-FI-Bartlett Mfg. Co.
518 BARTLETT'S 5% D.D.T. DUST-I-Bartlett Mfg. Co.
519 BARTLETT'S DUSTING SULPHUR, 95% Sulfur-FI-Bartlett Mfg. Co.
520 BARTLETT'S DUSTING SULPHUR WITH 5% DDT, 90% sulfur, 5% DDT-FI-Bartlett Mfg. Co.
521 BARTLETT'S ETHYLENE DICHLORIDE 50%-IF-Bartlett Mfg. Co.
522 BARTLETT'S FIXED COPPER 53 WP, 53% Copper-F-Bartlett Mfg. Co.
523 BARTLETT'S MALATHION 25% WP-I-Bartlett Mfg. Co.
524 BARTLETT'S MICROSCOPIC WP, 94% Sulphur-FI-Bartlett Mfg. Co.
525 BARTLETT'S MOUSE BAIT, 1.5% Zinc phosphide-R-Bartlett Mfg. Co.
526 BARTLETT'S NICOBAC 40% NICOTINE SULPHATE-I-Bartlett Mfg. Co.
527 BARTLETT'S PARATHION 15% WP-I-Bartlett Mfg. Co.
528 BARTLETT'S PHYGON WP, 50% Dichlone, 50% sulphur-FI-Bartlett Mfg. Co.
529 BARTLETT'S PREPICK WP, 98%, Sulphur-FI-Bartlett Mfg. Co.
530 BARTLETT'S ROPELLENT, 1.2 lbs. Thiram/gal-ANR-Bartlett Mfg. Co.
531 BARTLETT'S SELF-EMULSIFYING DORMANT SPRAY OIL, 99.4% mineral oil-I-Bartlett Mfg. Co.
532 BARTLETT'S SUN DORMANTOIL, 100% Mineral oil-I-Bartlett Mfg. Co.
533 BAYTEX® SPRAY CONCENTRATE, *O,O*-Dimethyl *O*- (4-(methylthio) -m-tolyl) phosphorothioate-I-Chemagro
533.50 JOHN BEAN FLY-MOSQUITO CONTROL SPRAYERS, High pressure and Air-type-E-John Bean
534 JOHN BEAN GENERAL PURPOSE HIGH-PRESSURE SPRAYERS-E-John Bean
534.50 JOHN BEAN SPRAY BOOMS-E-John Bean
534.75 JOHN BEAN SPRAYING ACCESSORIES (guns, reels, controls, etc.) -E-John Bean
535 BEATSALL INSECT SPRAY, Organic thiocyanates 2%, oil 97.9%, lindane 0.1%-I-Theo. Meyer
536 BEETLE-NOT, N-Trichloromethyl thiophthalimide, 1-naphthyl-N-methlycarbamate-FI-Nott
537 BENESAN, Lindane 50%-I-Chipman (Can.)
537.50 BENSON-MACLEAN BIRD AND ANIMAL REPELLENTS, Oil of mustard-ANR-Benson-Maclean
538 BENZABOR, Disodium tetraborate pentahydrate 54.5%, disodium tetraborate decahydrate 35.5%, trichlorobenzoic acid 8%-H-U. S. Borax
539 BENZAC 354, Polychlorobenzoic acids 4 lb./gal.-H-Amchem. Prods.
540 BENZAC 1281, 2,3,6-trichlorobenzoic acid 2 lb./gal. H-Amchem Prods.
541 BENZAHEX LIQUID, Gamma BCH 1 lb./gal.-I-Chipman
542 BENZAHEX W-12, Gamma BHC 12%-I-Chipman
BENZENE HEXACHLORIDE = 1,2,3,4,5,6-HEXACHLOROCYCLOHEXANE
543 BENZEX, Gamma BHC 6%, other isomers 30%-I-Woolfolk
544 BERLOU INSTANT SPRAY ANT & ROACH KILLER, Diazinon 0.5%, piperonyl butoxide 0.375%, pyrethrins 0.075%-I-Berlou
545 BERLOU INSTANT SPRAY HOUSE & GARDEN INSECT KILLER, Piperonyl butoxide 1%, pyrethrins 0.25%-I-Berlou
546 BERLOU INSTANT SPRAY MOTH PROOFER, Diethyl diphenyl dichloroethane and related products 5%-MP-Berlou
547 BERLOU MOTHSPRAY, Thiocarbamate 0.5%, Zinc silicofluoride 1%-MP-Berlou
548 BETE FOG NOZZLES-E-Bete
549 BETE SPRAY NOZZLES-E-Bete
BHC = BENZENE HEXACHLORIDE
549.50 BIDRIN®, Insecticide, Technical (formerly SD 3562) purity as labeled. Approximate BIDRIN content 80%W (equivalent to 80%W, 3-dimethoxyphosphinyloxy) -N,N-dimethyl-cis-crotonamide) -IC-Shell
552 BIG STINKY FLY TRAP-E-Dioptron
553 BIG STINKY FLY TRAP CONTROL FLUID, DDT, 1.5%, parachlorophenyl parachlorobenzene sulfonate 1.5%-I-Dioptron
BINAPACRYL=2-*sec*-BUTYL-4,6-DINITROPHENYL-3-METHYL-2-BUTENOATE
554 BIN-FUME, Carbon tetrachloride 63.6%, ethylene dibromide 7.2%, ethylene dichloride 29.2%-IF-Howard
555 BIN-TREAT, Lindane 8%-I-Howard
556 BINE-TROL, Dinethylamine salt of MCP 52.4%-H-Chipman
557 BINE-TROL GRANULAR, Ethanolamine salt of MCP 20% acid equiv.-H-Chipman
557.50 BIONOL A-50, Alkyldimethyl benzylammonium chloride 50%-F-General Aniline
557.60 BIONOL RO-50, Alkyldimethylbenzylammonium chloride 50%-F-General Aniline
557.70 BIOPAL VRO-20, Iodine-alkylphenoxy poly (ethyleneoxy) ethanol complex-F-General Aniline

BARTLETT

Scientific spraying through research and experience

All spray materials, used by Bartlett, are field tested at the Bartlett Tree Research Laboratories and Experimental Grounds. In methods and materials, the Bartlett Way is based on continued scientific investigation, each year adding to the store of Bartlett knowledge.

Bartlett operates one of the largest fleets of mist blower, hydraulic, airplane and helicopter sprayers. For complete information regarding this service, consult your phone book, or write to the home office.

INSECTICIDES • FUNGICIDES • HERBICIDES

BARTLETT TREE EXPERTS

Home Office, 2770 Summer Street, Stamford, Conn.

Research Laboratories and Experimental Grounds, North Stamford, Conn.

MAINE TO FLORIDA AND WEST TO ILLINOIS AND ALABAMA

958870123

561 BIRD RID-ANR-Bird-Rid
562 BIRDSOFF, Red Pepper, 5%, Sulphur 5%-ANR-Destruxol
563 BIRD TANGLEFOOT, Hydrogenated castor oil, polybutenes-ANR-Tanglefoot
563.50 BIRD TANGLEFOOT AEROSOL, Pressurized, hydr. castor oil, polybutene, etc.-ANR-Tanglefoot
564 BLACK DIAMOND SPRAY DISCS & WHIRLS-F-Cooley
565 BLACK FLAG ANT TRAP, Thallium Sulfate 1.17%-IB-Boyle-Midway
566 BLACK FLAG 25% DDT EMUL. CONC., DDT 25%, oil 70%-I-Boyle-Midway
567 BLACK FLAG DDVP ANT AND ROACH KILLER, Dieldrin 0.3%, oil 69.5%, DDVP 0.186%-I-Boyle-Midway
568 BLACK FLAG DDVP GUARANTEED BUG KILLER, Dieldrin 0.3%, Oil, 99.5%, DDVP 0.186%-I-Boyle-Midway
568.50 BLACK FLAG DWIN INSECT BOMB, Allethrin 0.12%, oil 12.5%, sulfoxide 1.76%-IA-Boyle-Midway
569 BLACK FLAG FLEA-TICK & LOUSE POWDER, Piperonyl butoxide 1%, pyrethrins 0.1%, rotenone 0.5%, rotenoids 1%-I-Boyle-Midway
570 BLACK FLAG GARDEN DUSTER, Captan 4%, methoxychlor 5%, piperonyl butoxide 0.5%, pyrethrins 0.05%, rotenoids 0.5%, rotenone 0.25%, sulfur 25%-FI-Boyle-Midway
571 BLACK FLAG HOUSE AND GARDEN INSECT KILLER, DDT 1%, methoxychlor 1%, pyrethrins 0.2%, piperonyl butoxide 0.25%, rotenone 0.1%, rotenoids 0.2%, oil 0.97%-IA-Boyle-Midway
572 BLACK FLAG INSECT BOMB, Allethrin 0.22%, DDT 1%, methoxychlor tech. 1%, oil 12.53%, piperonyl butoxide 0.25%-IA-Boyle-Midway
573 BLACK FLAG INSECT REPELLENT, N,N-diethyl-*meta*-toluamide 6.5%, other isomers 0.5%, Di-n-propyl isocinchomerate 0.5%, 2,3,4,5-bis (delta 2 butylene) tetrahydrofurfural 0.5%, N-octyl bicycloheptene dicarboximide 2%-IR-Boyle-Midway
574 BLAC KFLAG INSECTICIDE POWDER, Chlordane 1.5%, piperonyl butoxide 0.35%, pyrethrins 0.06%-I-Boyle-Midway
575 BLACK FLAG INSECT SPRAY, DDT 5%, methylated naphthalenes 8.5%, organic thiocyanates 1%, oil 85.5%-I-Boyle-Midway
576 BLACK FLAG INSTITUTIONAL NON-TOXIC INSECT KILLER, Pyrethrins 0.2%, piperonyl butoxide 1%-I-Boyle-Midway
577 BLACK FLAG MOTH-DED, Paradichlorobenzene 50%, oil 50 %,terpene polychlorinates (66% chlorine) 5%-MP-Boyle-Midway
578 BLACK FLAG ROSE AND FLOWER SPRAY, Lindane 1%, rotenone 0.2%, rotenoids 0.3%, captan 0.5%, 2,4-dinitro-6 (2-octyl) phenyl crotonate 0.25%, pyrethrins 0.02%, piperonyl butoxide 0.25%-FI-Boyle-Midway
579 BLACK FLAG TERMITE KILLER, Heptachlor 31.4%, methylated naphthalenes 49.4%-I-Boyle-Midway
580 BLACK FLAG WARFARIN RAT & MOUSE KILLER, Warfarin 0.025%-R-Boyle-Midway
582 BLACK LEAF CURB, Dieldrin 5%-I-Canada Rex
583 BLACK LEAF "40", Nicotine sulphate 40%-I-Canada Rex
584 BLACK LEAF 2,4-D, 38.4 oz. 2,4D/gal.-H-Canada Rex
585 BLACK LEAF LAWN INSECT SPRAY, Chlordane 16%-I-Canada Rex
586 BLACK LEAF MALATHION EMULSIFIABLE, Malathion 50%-I-Canada Rex
587 BLACK LEAF ROSE DUST, DDT 3%, Malathion 2%, captan 5%-FI-Canada Rex
588 BLACK LEAF ROSE & FLORAL SPRAY, Pyrethrins 0.25%, piperonyl butoxide 0.25%, rotenone 0.128%-I-Canada Rex
589 BLACK LEAF VEGETABLE DUST, Pyrethrins 0.3%, copper 5%, rotenone 0.5%, piperonyl butoxide 0.3%-FI-Canada Rex
590 BLACK LEAF WARFARIN BAIT, Warfarin 0.25%-R-Canada Rex
591 BLACK LEAF WARFARIN CONCENTRATE, Warfarin 0.5%-R-Canada Rex
592 BLACK WIDOW SPIDER BOMB, Terpene polychlorinates 2%, piperonyl butoxide 0.5%, pyrethrins 0.1%-IA-Destruxol
593 BLACKWELL HAND SPRAYERS-E-Blackwell Burner Co.
593.50 BLANCOL, Sodium salt of a sulfonated naphthalene condensate 90%-A-General Aniline
595 BLIGHTROL A, Copper zinc chromate complex 89%-F-Destruxol
596 444 BLUE LABEL INSECTICIDE, Oil 98.2%, piperonyl butoxide 1.5%, pyrethrins 0.3%-I-Chem. Spec. Corp.
597 BLUE LINE HAND SPRAYERS-E-John Blue
598 BLUE LINE POWER SPRAYERS-E-John Blue
599 BLUE LINE SELF PROPELLED SPRAYERS-E-John Blue
600 BLUE LINE SPRAYER PUMPS-E-John Blue
601 BLUE LINE SPRAYER REGULATORS-E-John Blue
602 BLUE LINE TRACTOR & TRAILER SPRAYERS-E-John Blue
603 BLUE SOAPSTONE TALC, Silicate mineral diluent and carrier,-D-Blue Ridge Talc

604 BLUE-STAR RESIDUAL OIL BASE INSECTICIDE, Oil 96.85%, piperonyl butoxide 3%, pyrethrins 0.15%-I-Huntington
604.50 B-NINE®, N-Dimethylaminosuccinamic acid 5%-PH-U. S. Rubber (Naugatuck)
605 BOLT INSECT KILLER, Allethrin 0.1%, MGK 264 0.166%, DDT 3%, Methoxychlor 1%, organic thiocyanates 1%-IA-B. T. Babbitt, Inc.
606 BONE'S A-1 (FOR SCREW WORMS), Benzene, diphenylamine pine oil and tar-IR-Crown Prod.
607 BONE'S A-L BOMB (FOR SCREW WORMS), Lindane 3%, pine oil 20%, pyrethrins 0.015%, piperonyl butoxide 0.038%, oil 26.947%-IA-Crown Prod.
608 BONIDE AIR-TOX, Pyrethrins 0.25%, piperonyl butoxide 2%, oil 12.75%-I-Bonide
609 BONIDE ANT DUST, Aldrin, chlordane, MNP-I-Bonide
610 BONIDE ANTZIX, Thallium sulfate 1%-IB-Bonide
611 BONIDE BLUE DEATH, Phosphorus paste-R-Bonide
612 BONIDE BONSUL, Sulfur 95%-FI-Bonide
613 BONIDE CHLORDANE, Chlordane 72% & 48%-I-Bonide
614 BONIDE CRO-TOX REPELLENT, Tar, turpentine-ANR-Bonide
614.50 BONIDE 25% DDT LIQUID-I-Bonide
616 BONIDE DIELDRIN, Dieldrin 18%-I-Bonide
617 BONIDE DIOWEED, 2,4-D acid 20%-H-Bonide
618 BONIDE DOGZIX, Bone oil-ANR-Bonide
619 BONIDE DORMATOX, Superior oil 98%-H-Bonide
620 BONIDE FATAL, Warfarin-R-Bonide
621 BONIDE GLADUST, DDT 5%-I-Bonide
622 BONIDE JAPIDE, DDT, 1-Naphthyl N-methylcarbamate-I-Bonide
623 BONIDE KILBRUSH, Butyl ester 2,4-D-20% ester, 2,4,5-T-9.8%-H-Bonide
624 BONIDE KRAB, Potassium cyanate 75%-H-Bonide
625 BONIDE LINTOX, Lindane 25%-I-Bonide
626 BONIDE LIQUID DISOMAR, Disodium monoethyl arsonate 18.9%-H-Bonide
627 BONIDE 50% E MALATHION-I-Bonide
628 BONIDE MOLETOX, (Poison raw peanut bait), 1% Thallium-R-Bonide
629 BONIDE NEUTOX, DDT 50%-I-Bonide
630 BONIDE NEW KARKAP, Captan, malathion, methoxychlor-FI-Bonide
631 BONIDE OUTDOOR AND GARDEN SPRAY, DDT 5%, 4,4'-dichloro-alpha-trichloromethylbenzhydrol lindane 5%, malathion 12.5%, methyl naphthalenes 45.7%, oil 25.8%-I-Bonide
632 BONIDE OVOTOX, DDT, ferbam, lindane, ovotran-FI-Bonide
633 BONIDE PENTIDE WOOD PRESERVER, Pentachlorophenol-WP-Bonide
634 BONIDE QUIX FLEA POWDER, Methyl naphthalenes 2.05%, organic thiocyanates 1%, rotenone 1.25%, rotenoids 2.5%-I-Bonide
635 BONIDE ROSETOX, Captan 6.0%, DDT 5%, Malathion 5.09%, 1-naphthyl-N-methylcarbamate 1%, sulfur 23.4%-FI-Bonide
636 BONIDE RO-TON, Organic thiocyanates 5%-I-Bonide
637 BONIDE ROTO SYN, Rotenone 1%-I-Bonide
638 BONIDE SANASEED, Strychnine,-R-Bonide
639 BONIDE SOILCLOR, Chlordane 50%-I-Bonide
639.50 BONIDE TOMATOX, Carbaryl 0.75%, copper 7%, methyl naphthalenes 0.85%, rotenone 0.5%, rotenoids 1%-FI-Bonide
641 BONIDE TOPZOL, Red squill-R-Bonide
642 BONIDE TREETOX, Captan 6%, DDT 6.6%, malathion 5%, sulfur 33.4%-FI-Bonide
642.50 BONTOX, Carbaryl 1.25%, copper 7%, naphthyl-N-methylcarbamate, methyl naphthalenes 0.85%, rotenoids 1%, rotenone 0.50%-FI-Bonide
644 BONUS (Weed & Feed), 2,4-D 1%-H-Scott
645 BONUS FOR DICHONDRA LAWNS, Neburon 1.1%-H-Scott
646 BONUS FOR ST. AUGUSTINE LAWNS, Atrazine 0.54%-H-Scott
647 BOON, DDT 5%, Malathion 4.5%, pyrethrins 0.1%-I-Scott
647.50 BOOST®, Carbaryl 1.59%-I-Scott
648 BORASCU®, CONCENTRATE, Sodium borate, boron trioxide 63%-H-U. S. Borax
649 BOREA H-25, Isocil 2.5%, sodium metaborate 50%-H-Chipman
650 BOREA K-10, Diuron 8% sodium metaborate 50%-H-Chipman
651 BOREA T-10, Monuron 8%, sodium metaborate 50%, Chipman
652 BOREKIL, BHC 8%-I-Lethelin
653 BORERSOL, Ethylene dichloride 50%-IF-Destruxol
654 BORER-TOX, Benzene hexachloride 63%-I-Garden Prods.
655 BOTANO DE LUXE GARDEN DUST, Captan 5%, lindane 1%, methoxychlor 5%, ziram 3%-FI-Calif. Chem.
655.50 BOTRAN 8% DUST, 8% 2,6-Dichloro-4-nitroaniline (dichloran)-F-Upjohn
655.75 BOTRAN 50% WP, 50% 2,6-Dichloro-4-nitroaniline (dichloran)-F-Upjohn

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656 BOURBON BRAND 2 LB ALDRIN EQUIVALENT, Aldrin 23.4%, oil 68.6%-I-Bourbon Co.
657 BOURBON BEAN DUST, 1¾% 1Naphthyl-N-methylcarbamate-I-Bourbon Co.
658 BOURBON BRAND CAPTAN 7½% & MALATHION 5% READY MIXED DUST-FI-Bourbon Co.
659 BOURBON BRAND 5% CHLORDANE DUST-I-Bourbon Co.
660 BOURBON BRAND CHLORDANE WETTABLE POWDER-I-Bourbon Co.
661 BOURBON BRAND NO. 56 CRESOSOTE OIL, Creosote oil 97%-WP-Bourbon Co.
662 BOURBON BRAND 10% DDT READY MIXED DUST-I-Bourbon Co.
663 BOURBON BRAND DDT 50% WETTABLE POWDER-I-Bourbon Co.
664 BOURBON BRAND DIP AND DISINFECTANT Coal tar hydrocarbons, soap, coal tar acids-I-Bourbon Co.
665 BOURBON BRAND KYLEY FLEA POWDER, 1% Rotenone-I-Bourbon Co.
666 BOURBON BRAND ENDRIN EMULSIBLE CONCENTRATE, Endrin 19.5%, oil 70.5%-I-Bourbon Co.
667 BOURBON BRAND FLY BAIT, Malathion 2%-IB-Bourbon Co.
668 BOURBON BRAND FRUIT & VEGETABLE SPRAY, Methoxychlor 12.5%, captan 10%, malathion 7.5%-FI-Bourbon Co.
669 BOURBON BRAND HOPPER AND WORM SPRAY, Dieldrin 1.96%, TDE 24.71%, oil 69.94%-I-Bourbon Co.
670 BOURBON BRAND LAWN & GARDEN GRANULES, Dieldrin 2.125%-I-Bourbon Co.
671 BOURBON BRAND 20% LINDANE TRANSPLANTER SOLUTION-I-Bourbon Co.
672 BOURBON BRAND LIVESTOCK SPRAY, oil, pine oil, isobornyl thiocyanoacetate-I-Bourbon Co.
673 BOURBON BRAND 5% MALATHION-I-Bourbon Co.
674 BOURBON BRAND 7½% METHOXY GARDEN DUST-I-Bourbon Co.
675 BOURBON BRAND 50% METHOXYCHLOR WETTABLE POWDER-I-Bourbon Co.
676 BOURBON 10% RHOTHANE® DUST, TDE 10%-I-Bourbon Co.
677 BOURBON BRAND 25% RHOTHANE® EMULSION, TDE, 24.37%-I-Bourbon Co.
678 BOURBON BRAND ROSE DUST, Zineb 6%, DDT 5%, aramite 1.5%, lindane 1% 2,4-dinitro 6-(2-octyl) phenyl crotonate 0.9%-FI-Bourbon Co.
679 BOURBON BRAND 1% ROTENONE, Rotenone 1%, rotenoids 1.75%-I-Bourbon Co.
680 BOURBON BRAND 0.75% ROTENONE DUST, Rotenone 0.75%, rotenoids 1.25%-I-Bourbon Co.
681 BOURBON BRAND STRAWBERRY INSECT DUST, DDT 5%, malathion 5%-I-Bourbon Co.
682 BOURBON BRAND TOBACCO INSECT SPRAY Aldrin 5.57%, oil 66.01%-I-Bourbon Co.
683 BOURBON BRAND TOMATO DUST, Copper 8.0%-F-Bourbon Co.
684 BOURBON BRAND WOOD PRESERVATIVE, Pentachlorophenol 4.15%, oil 90%-WP-Bourbon Co.
685 BOURBON VEGETABLE DUST, 5% 1-Naphthyl-N-methylcarbamate-I-Bourbon Co.
686 BPR DUST BASE, Piperonyl butoxide 2.5%, pyrethrins 0.25%, rotenone 1.25%, rotenoids 2.5%-IC-Fairfield
687 BPR-GP PLANT SPRAY, Piperonyl butoxide 0.512%, pyrethrins 0.051%, rotenone 0.256%, rotenoids 0.472%-I-Fairfield
688 BPR PLANT SPRAY CONC. NO. 2, Piperonyl butoxide 1.024%, pyrethrins 0.012%, rotenone 0.512%, rotenoids 0.944%-I-Fairfield
689 BRAMBLECIDE AMINE TRIETHYLAMINE SALT 2,4,5-T 59%-H-Thomp. Chem.
690 BRAMBLECIDE 5, Pentyl 2,4,5-T 57.8%-H-Thomp. Chem.
691 BRAMBLCIDE 5 L.V., Isoocytl 2,4,5-T 63%-H-Thomp. Chem.
692 BRAMBLCIDE 4-2,4,5-T BRUSH KILLER, Pentyl 2,4,5-T 46%-H-Thomp. Chem.
693 BRAMBLE WEEDICIDES, Pentyl 2,4,5-T 29%, pentyl 2,4-D 30%-H-Thomp. Chem.
694 BRAMBLE WEEDICIDE 5 L.V., Isooctyl 2,4,5-T 32%, isooctyl 2,4-D 33%-H-Thomp. Chem.
695 BRAMBLE-WEEDICIDE, Pentyl 2,4,5-T 23%, pentyl 2,4-D 24%-H-Thomp. Chem.
695.50 BRAYTON CIODRIN® EMULSIFIABLE (3.2 LB.), a-Methylbenzyl-3-dimethoxyphosphinyloxy), cis-crotonate-I-Brayton
695.75 BRAYTON CIODRIN® WITH VAPONA, DDVP, DDVP, *a*-methylbenzyl-3-(dimethoxyphosphinyloxy)-cis-crotonate-I-Brayton
697 BRAYTON CHLORDANE ROACH SPRAY, Chlordane, Oil-I-Brayton
697.50 BRAYTON DAIRY FARM SPRAY FLY KILLER WITH CRAG REPELLENT, Butoxypolypropylene glycol-I-Brayton
699 BRAYTON DIAZINON® ROACH AND FLY SPRAY, O, O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.5%, oil-I-Brayton
701 BRAYTON DORMANT SPRAY OIL-I-Brayton
702 BRAYTON EB-5 GRAIN FUMIGANT, Ethylene dibromide 7.2%, ethylene dichloride 29.2%, carbon tetrachloride 63.6%-IF-Brayton

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Chemagro
CHEMAGRO CORPORATION
KANSAS CITY 20 • MISSOURI

It is the Chemagro Corporation trademark. You see it on all chemical products manufactured by Chemagro. More often, it is called the Chemagro bullseye.
The blue bullseye is well known throughout all areas of agriculture. Insecticides, pesticides and defoliants identified by it result from years of continuous research.
Currently we have fourteen products marked with the familiar bullseye. Soon there will be more. Watch for them. They will be easily identified by the blue bullseye.
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703 BRAYTON ECONOMY SIZE AERSOL INSECT KILLER, Pyrethrins, piperonyl butoxide, N-octyl bicycloheptene dicarboximide, oil-IA-Brayton
704 BRAYTON EMULSIFIABLE DIARY FARM SPRAY T-143, Pyrethrins, piperonyl butoxide, oil-I-Brayton
705 BRAYTON EMULSIFIABLE PYRENONE CONC 10-1, OIL BASE, Pyrethrins, piperonyl butoxide-I-Brayton
706 BRAYTON FLOUR EQUIPMENT FUMIGANT Ethylene dichloride 70.2%, carbon tetrachloride 29.8%-IF-Brayton
707 BRAYTON FLY KILLER DRY BAIT WITH DDVP, DDVP-IB-Brayton
708 BRAYTON FLY KILLER WITH 264 PLUS TABATREX® REPELLENT, Di-N-butyl succinate, N-octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins, Oil-I-Brayton
711 BRAYTON GRAIN FUMIGANT MIXTURE 75-25, Ethylene dichloride 70.2%, carbon tetrachloride 29.8%-IF-Brayton
712 BRAYTON GRAIN FUMIGANT 80-20 MIXTURE, Carbon tetrachloride 83.5%, carbon bisulfide 16.5%-IF-Brayton
713 BRAYTON GRAIN PROTECTANT 30-3 SPRAY, Piperonyl butoxide 30%, pyrethrins 3%-I-Brayton
714 BRAYTON GRAIN PROTECTANT 60-6 SPRAY Piperonyl butoxide 60%, pyrethrins 6%-I-Brayton
715 BRAYTON INDUSTRIAL PYRENONE SPRAY HEAVY DUTY OIL BASE, Pyrethrins, piperonyl butoxide, oil-I-Brayton
716 BRATON LIME SULFUR SOLN., Calcium polysulfides-FI-Brayton
717 BRAYTON MALATHION 25% WETTABLE POWDER-I-Brayton
718 BRAYTON MILL-BIN-WAREHOUSE SPRAY, N-Octyl bicycloheptene dicarboximide 0.66%, piperonyl butoxide 0.40%, pyrethrins 0.20%, oil 98.7%-I-Brayton
719 BRAYTON P-B FOG CONCENTRATE, Pyrethrins, piperonyl butoxide, deodorized oil-I-Brayton
720 BRAYTON P-B INSECT SPRAY, Pyrethrins 0.25%, piperonyl butoxide 0.2%, oil 99.55%-I-Brayton
720.50 BRAYTON PROLIN® RAT & MOUSE KILLER, Warfarin, sulfoquinoxalin-R-Brayton
722 BRAYTON PYRENONE® GRAIN SPRAY, Piperonyl butoxide 2.0%, pyrethrins 0.2%, oil 97.8%-I-Brayton
723 BRAYTON PYRENONE® KDK SPRAY, OIL BASE, Pyrethrins, piperonyl butoxide, oil-I-Brayton
724 BRAYTON PYRENONE® SPACE SPRAY, OIL BASE, Pyrethrins, piperonyl butoxide, oil-I-Brayton
725 BRAYTON RATICIDE-WARFARIN PREPARED CEREAL BAIT-R-Brayton
726 BRAYTON RESIDUAL INSECTICIDE FOR FOOD PLANTS, Methoxychlor 3%, lindane 0.5%, oil-I-Brayton
727 BRAYTON ROTENONE 5% SPRAY, Rotenone 2.5%, rotenoids-I-Brayton
727.50 BRAYTON VAPONA DDVP EMULSIFIABLE CONCENTRATE (2# gal)-I-Brayton
727.60 BRAYTON VAPONA DDVP FLY BAIT-IB-Brayton
727.70 BRAYTON VAPONA KNOCK OUT FLY SPRAY (1% DDVP IN OIL)-I-Brayton
728 BRAYTON WEEVIL GAS GRAIN FUMIGANT, Carbon disulfide 19.2%, carbon tetrachloride 78.8%, sulfur dioxide 1%-IF-Brayton
729 BRECK'S AFRICAN VIOLET SPRAY, Pyrethrins 0.025%, piperonyl cyclopene 0.256% rotenone 0.128%, rotenoids 0.236%, oil 0.102%... dichlone 0.12%-IA-Breck's
730 BRECK'S ANT & EAR-WIG SPRAY DUST, Chlordane 6%-I-Breck's
731 BRECK'S ANT SPRAY, Pyrethrins 0.046%, piperonyl butoxide 0.115%, chlordane 2%, orthodichloro benzene 23%, oil 9.839%-IA-Breck's
732 BRECK'S CHLORDANE 72-E, Chlordane 72%-I-Breck's
733 BRECK'S CHLORDANE 50-W, Technical Chlordane 50%-I-Breck's
734 BRECK'S CRABGRASS KILLER, Disodium monomethyl arsonate pentalhydrate 50.00%-H-Breck's
735 BRECK'S D-STROY, Di-Sodium monomethyl arsonate hexhydrate 2.65%-H-Breck's
737 BRECK'S FLY & MOSQUITO CONTROL, Oil 17.3%, terpene polychlorinates 2% (66% chlorine), piperonyl butoxide 0.50%, pyrethrins 0.20%-I-Breck's
738 BRECK'S FRUIT TREE SPRAY DUST, Malathion 5%, captan 6%, DDT 6.6%, sulfur 33.4%-FI-Breck's
739 BRECK'S GRUBTROL, Chlordane 9%, aldrin 1%-I-Breck's
740 BRECK'S JAP BEETLE SPRAY DUST, DDT 44.1%, chlordane 6.1%-I-Breck's
741 BRECK'S LAWN WEED KILLER, 2,4,5-T Butoxy ethoxy propanol ester 5.17%, 2,4-D botoxy ethoxy propanol ester 10.90%-H-Breck's
742 BRECK'S MALATHION 50-E, Malathion 50%-I-Breck's
743 BRECK'S MANY PURPOSE SPRAY, Methoxychlor 15%, captan 10%, malathion 5%-FI-Breck's
744 BRECK'S ROSE AND FLOWER SPRAY, Pyrethrins 0.025%, piperonyl cyclonene 0.256%, rotenone 0.128%, rotenoids 0.236%, oil 0.102%, dichlone 0.120%-FI-Breck's
745 BRECK'S ROSE & FLOWER SPRAY DUST, Rotenone 0.75%, rotenoids 1.5%, DDT 5.1%, sulfur 33%, gamma isomer of BHC 1%, ferbam 5%-FI-Breck's
746 BRECK'S STOP, (pre-emergence crabgrass control), O-(2,4-Dichlorophenyl) O-methyl isopropyl phosphoromidothioate 4.4%-H-Breck's
747 BRECK'S VEGETABLE SPRAY DUST, DDT 3%, copper 7%, rotenoids 1%, rotenone 0.50%, methyl naphthalenes 0.85%-FI-Breck's
748 BRIDGEPORT ANT-ROACH KILLER, Chlordane 2%, oil 59.4%, DDT 3%, piperonyl butoxide 0.125%, pyrethrins 0.005%, N-octyl bicycloheptene dicarboximide 0.125%, orthodichlorobenzene 10%-I-Shulton
749 BRIDGEPORT BUG-BOMB, Allethrin 0.113%, n-octyl bicycloheptene dicarboximide 0.250%, methoxychlor technical 1.26, oil 12.652%, thiocyanoacetates 1.0%-IA-Shulton
750 BRIDGEPORT EASY PUMP ANT-ROACH KILLER, Dieldrin 0.5%, Pyrethrins 0.05%, piperonyl butoxide 0.125%, N-octyl bicyloheptene dicarboximide 0.125%, oil 99.2%-I-Shulton
751 BRIDGEPORT FLOWER GUARD, Lindane 0.5%, ovex 0.125%, n-propyl isome 0.25%, pyrethrins 0.025%, folpet 0.5%-FI-Shulton
752 BRIDGEPORT MOTH PROOFER, Terpene polychlorinates 5%, oil 15%-MP-Shulton
753 BRIDGEPORT SLUG-A-BUG, N-Octyl bicycloheptene dicarboximide 0.625%, oil 18.0%, piperonyl butoxide 0.625% pyrethrins 0.25%-I-Shulton
754 BRIDGEPORT SOLUTION 45 INSECT KILLER, Pyrethrins 0.08%, N-octyl biclo-heptene dicarboximide 0.2%, piperonyl butoxide 0.2%, oil 99.52%-I-Shulton
755 BROYHILL FARM CHEMICAL SPRAY EQUIPMENT-E-Broyhill
756 BROYHILL HIGH PRESSURE PESTICIDE SPRAYERS-E-Broyhill
757 BROYHILL LIQUID FERTILIZER APPLICATORS-E-Broyhill
758 BROYHILL PRE & POST EMERGENCE APPLICATORS-E-Broyhill
758.50 BROZONE®, Methyl bromide 68.6%, chloropicrin 1.4%-IF-Dow
760 BRULIN'S BRUSH KILLER, Amyl ester 2,4,5-T 28%, Butyl ester 2,4-D 27.6%-H-Brulin
761 BRULIN'S CHLORDANE EMUL. CONC., Chlordane 46%, oil 44%-I-Brulin
762 BRULIN'S 4-X CONCENTRATE, DDT 18%, organic thiocyanates 6.5%, malathion 4.9%, pine oil 3.6%, oil 67%-I-Brulin
763 BRULIN'S 7-X CONCENTRATE, Organic thiocyanates 10.5%, malathion 15.7%, oil 73.8%-I-Brulin
764 BRULIN'S 2,4-D LIQUID WEED KILLER, Triethanolamine 2,4-D 33.3%-H-Brulin
765 BRULIN'S FORMULA #200 INSECTICIDE, Oil 98.8%, Piperonyl butoxide 1%, pyrethrins 0.2%-I-Brulin
766 BRULIN'S INSECTICIDAL AEROSOL, Oil 17.3%, Piperonyl butoxide 0.5%, pyrethrins 0.2%, terpene polychlorinates 2%-IA-Brulin
767 BRULIN'S INSECTO-FOG, DDT 5%, organic thiocyanates, oil, malathion 1%, pine oil-I-Brulin
768 BRULIN'S LIQUID NO-TOX, Oil 97.7%, organic thiocyanates 1.1%, piperonyl butoxide 1.0%, pyrethrins 0.2%-I-Brulin
769 BRULIN'S MALAFOG, Organic thiocyanates 1.6%, chlordane 1%, malathion 2.5%, oil 94.9%-I-Brulin
770 BRULIN'S NON-SELECTIVE WEEDKILLER, Sodium arsenite-H-Brulin
771 BRULIN NO-TOX AEROSOL, N-Octyl bicycloheptene dicarboximide 1.63%, oil 16.84%, piperonyl butoxide 1%, pyrethrins 0.5%-IA-Brulin
772 BRULIN'S 4-POUND 2,4-D ACID AMINE WEED-KILLER, Dimethylamine 2,4-D 49.4%-H-Brulin
773 BRUSHOFF, 437, 2 lbs. 2,4,5-T & 2 lbs. 2,4-D acids/gal., BEP esters-H-Assoc. Sales
774 BRUSHOFF 447, 4 lbs. 2,4,5-T acid/gal. BEP esters-H-Assoc. Sales
774.30 BRUSH-RHAP® B-2D-2T, 2 Lbs. 2,4-D & 2 lbs. 2,4,5-T acid equiv. per gal., butyl ester-H-Hercules
774.40 BRUSH-RHAP B-4T, 4 Lbs. 2,4,5-T acid equiv. per gal., butyl ester-H-Hercules
774.50 BRUSH-RHAP INJECTION FLIUD LOW VOLATILE 2D-2T, 2 Lbs. 2,4-D & 2 lbs. 2,4,5-T acid equiv. per gal. 2-ethyl hexyl ester-H-Hercules
774.60 BRUSH-RHAP INJECTION FLIUD LOW VOLATILE 4T, 4 Lbs. 2,4,5-T acid equiv. per gal. 2-ethyl hexyl low volatile-H-Hercules
774.70 BRUSH-RHAP LOW VOLATILE 2D-2T, 2 Lbs. 2,4-D, 2 lbs. 2,4,5-T acid equiv. per gal. 2-ethyl hexyl ester, low volatile-H-Hercules
774.80 BRUSH-RHAP LOW VOLATILE 4T, 4 Lbs. 2,4,5-T acid equiv. per gal., 2-ethyl hexyl ester, low volatile-H-Hercules
781 BUFFALO POWER SPRAYERS-E-Buffalo Turbine
782 BUFFALO TURBINE AIR BLAST SPRAYER ATTACHMENT-E-Buffalo Turbine
783 BUFFALO TURBINE DUSTERS-E-Buffalo Turbine

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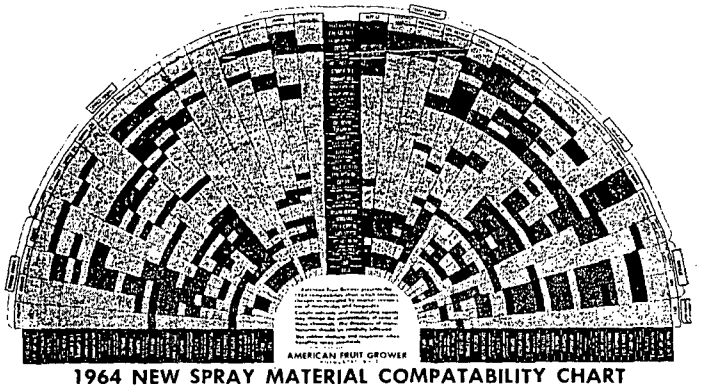
784 BUFFALO TURBINE GRANULAR APPLICATOR-E-Buffalo Turbine
785 BUFFALO TURBINE MIST TYPE POWER SPRAYERS-E-Buffalo Turbine
786 BUFFALO TURBINE MITY MITE BACK PACK-E-Buffalo Turbine
787 BUFFALO TURBINE POWER DUSTERS-E-Buffalo Turbine
788 BUFFALO TURBINE PTO OPERATED SPRAYERS-E-Buffalo Turbine
789 BUFFALO TURBINE SPRAYER-DUSTERS-E-Buffalo Turbine
790 BUG BLAST AEROSOL INSECTICIDE, Oil 18%, piperonyl butoxide 1.5%, pyrethrins 0.3%-IA-Huntington
792 BUGG-SHOTT ALL PURPOSE AEROSOL BOMB, DDT 5%, isobornyl thiocaynaol acetate 2.46%, oil 52%-IA-Jaylin
793 BUGMASTER ELECTROCUTING INSECT LANTERNS-E-Detjen
794 BUG-NOT 72% CHLORDANE E. C.-I-Nott
795 BUG-TAB TABLETS, Lindane 20%-I-Cont. Chem
796 BUG-TOX AEROSOL, 2% Chlordane-IA-Canada Rex
797 BUHACH INSECT POWDER, Pyrethrins 0.9%-I-Internatl Labs.
798 "BUR-CO" BIRD REPELLENT-ANR-Burr Chemical
799 BUTOXIDE AMINE, 4-(2-4-DB) dimethylamine salt, contains 2 lbs./gal.-H-Chipman
800 BUTOXIDE DUST BASE NO. 5, Piperonyl butoxide 5%-IC-Fairfield
801 BUTOXONE ESTER, 4(2,4-DB) iso-octyl ester, contians 2 lbs./gal.-H-Chipman
802 BUTOXONE SB, Dimethylamine salt of 4-(2,4-DB) 23%-H-Chipman
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL-2-CHLOROETHYL SULFITE = ARAMITE
802.50 BUTYNEDIOL, 1,4-Butynediol, defoliant for cotton-H-General Aniline
804 BUTYRAC 118, Amine salt of 4-(2,4-D B-2 lbs. acid equiv./gal.-H-Amchem. Prods.
806 C-4 CHLORDANE 45% CONC.-I-Coopers Creek
807 C-4 DIP & DISINFECTANT COEFFICIENT 6, Coal tar oils 50%, cresylic acids 17%, soap 24%-I-Coopers Creek
808 C-4 SODIUM ARSENITE 42.5%-I-Coopers Creek
809 C-4 WOOD PRESERVATIVE BLACK CREOSOTE OIL, Coal tar, raw coal tar, coal tar acids-WP-Coopers Creek
810 CABELL'S CHLORDANE DUST, Chlordane 6%-I-Cabell
811 CABELL'S 11-DUST, 2% 1-Naththyl-N-methylcarbamate, 5% ineb-FI-Cabell
812 CABELL'S DUSTOX, Rotenone 0.75%, rotenoids 1.35%-I-Cabell
813 CABELL'S 1% DUSTOX, Rotenone 1%, rotenoids 1.8%-I-Cabell
814 CABELL'S LIME-SULPHUR, LIQUID, Calcium polysulfides-FI-Cabell
815 CABELL'S POTATO DUST, DDT 3%, copper oxychloride (copper 6.75%)-FI-Cabell
816 CABELL'S 5% ROTENONE, Rotenone 5%, rotenoids 7.2%-I-Cabell
817 CABELL'S SEVIN® DUST, 2% 1-Naphthyl-N-methylcarbamate-I-Cabell
818 CABELL'S TOMATO DUST, Copper oxychloride (copper 7%)-RI-Cabell
819 CABELL'S ZINEB DUST, Zineb 6.5%-F-Cabell
820 CADDY, Cadmium chloride 20.1%-F-Cleary
821 CADMINATE®, Cadmium succinate 60% (cadmium 29%)-F-Mallinckrodt
822 CAD-TRETE, a wettable powder, 75% thiram and 8.3% cadmium chloride hydrate-F-Cleary
CALCIUM POLYSULFIDES = LIME SULFUR
823 CALIFORNIA HEATER CO. ORCHARD SPRAYERS-E-Calif. Heater Co.
824 CALIFORNIA HEATER CO. WEED SPRAYERS-E-Calif. Heater Co.
824.50 CALO-CLOR®, Mercuric chloride, mercurous chloride-F-Mallinckrodt
824.60 CALOCURE®, Mercury 36.5%-F-Mallinckrodt
824.70 CALOGREEN®, Calomel (mercury 85%)-F-Mallinckrodt
828 CALSUL, Calcium polysulfide 1%, oil 67.9%-FI-Destruxol
829 CALUMET BROWN COPPER OXIDE, Copper 75%-F-N-Calumet
830 CANUCK ALDRIN 50% WIREWORM, Aldrin 50%-I-Gallowhur
831 CANUCK LIQUID HEPTACHLOR WIREWORM, Heptachlor 25%-I-Gallowhur
833 CANUCK LIQUID MERCURY READY-TO-USE, Phenyl mercury acetate 6.5%-F-Gallowhur
834 CANUCK MERCURY-ALDRIN DUAL COMBINATION, Ethyl mercury chloride 0.4%, phenyl mercury acetate 2.86%, aldrin 40%-FI-Gallowhur
835 CANUCK MERCURY-HEPTACHLOR LIQUID DUAL, Phenyl mercury acetate 1.8%, heptachlor 25%-FI-Gallowhur
836 CANUCK ORGANIC MERCURY, Ethyl mercury chloride 1.06%, phenyl mercury acetate 7.06%-F-Gallowhur
837 CAPITOL CHLORDANE EMULSIFIABLE CONC. I-Capitol Chem.
838 CAPITOL LINDANE 20% SOLN.-I-Capitol Chem.
CAPTAN = N-TRICHLOROMETHYLTHIOTETRAHYDROPHTHALIMIDE
CARBARYL = 1-NAPHTHYL-N-METHYLCARBAMATE (SEVIN®)
839 CARBOLA DISINFECTING WHITE PAINT, Coal tar neutral oils 1.4%, phenols 1.6%, ronnel 0.5%-I-Carbola



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840 CARBOLA SUPER D DRY DUST, Cresols 3%, malathion 0.66%, methyl dodecyl benzyl trimethyl ammonium chloride 1.66%, methyl dodecyl xylylene bis 0.4%-FI-Carbola
840.50 CARBOLINEUM®, Coal tar oils-WP-Carbolineum
843 No. 2 CARBOSOL, (Weed and Termite Killer), potassium soap, sodium arsenite, sodium cresylate-HI-Ind. Materials
alpha-2-CARBOMETHOXY-1-METHYLVINYL DIMETHYL PHOSPHATE = PHOSDRIN®
844 CARBYNE, 4-Chloro-2-butynyl m-chlorocarbanilate (barban) 11.8%-H-Spencer
844.20 CARMEL GH-15 MULTI-USE FOGGING, Chlorobenzilate-I-Carmel Chem.
844.30 CARMEL GH-16 MULTI-USE FOGGING, Lindane, malathion, and ovicide-I-Carmel Chem.
844.40 CARMEL GH-17 MULTI-USE FOGGING, Kelthane, lindane and ovicide-I-Carmel Chem.
844.50 CARMEL GH-18 MULTI-USE FOGGING, Dibromo dichloroethyl dimethyl phosphate (Naled)-I-Carmel Chem.
844.60 CARMEL GH-19 MULTI-USE FOGGING, Dimethyl dichlorovinyl phosphate (DDVP)-I-Carmel Chem.
844.70 CARMEL GH-29 MULTI-USE FOGGING, Dichloro diphenyl dichlor (TDE)-I-Carmel Chem.
844.80 CARMEL GH-31 MULTI-USE FOGGING, Bis (*p*-chlorophenyl trichloroethanol) (Kelthane)-I-Carmel Chem.
862 CAROLINA CHEMICALS SPRAY EQUIPMENT, Pumps, spray nozzles, gauges, strainers, etc.-E-Carolina
862.50 CAROLINA 20% TOXAPHENE-40% SULPHUR DUST-FI-Carolina Chem. Corp.
862.60 CAROLINA 60% TOXAPHENE E. C.-I-Carolina Chem. Corp.
862.70 CARRICLAY® LVM GRADE ATTAPULGITE (Pesticide Carrier)-Magnet Cove
935 CATTLEKOTE, Butoxypolypropylene glycol oil piperonyl butoxide, pyrethrins-I-Douglas
936 CATTLEKOTE EMULSION CONCENTRATE, Butoxypolypropylene glycol, oil, piperonyl butoxide, pyrethrins-I-Douglas
937 CCC 6% CHLORDANE POWDER-I-Carbola
938 CCC 72% CHLORDANE-I-Carbola
940 CCC COPPER ROTE, Copper 6%, rotenone 0.4%, rotenoids 1.05%, organic thiocyanates 0.75%-FI-Carbola
941 CCC 50% DDT POWDER-I-Carbola
942 CCC-DILUENT, Surface treated calcium carbonate-D-Calcium Carbonate Co.
944 CCC 3/7 DUST, DDT 3%, copper 7%-FI-Carbola
945 CCC FRUIT TREE SPRAY, Captan 7.5%, DDT 7%, lindane 0.5%, sulfur 83%-FI-Carbola
946 CCC GARDEN INSECT SPRAY, DDT 5%, 2,4-dichlorophenyl ester benzesulfonic acid 3%, lindane 5%, malathion 12.5%-I-Carbola
947 CCC GARDEN ROTE, Rotenone 0.75%-I-Carbola
948 CCC LAWN WEED KILLER, Ethyl hexyl esters-2,4-D 10%, 2,4,5-T 5%-H-Carbola
949 CCC LOUSE KILLER, Org. thiocyanates 0.75%, rotenoids 1.05%, rotenone 0.04%, sodium fluosilicate 10%, sulfur-FI-Carbola
950 CCC 50% MALATHION SPRAY-I-Carbola
951 CCC 25/31 POTATO SPRAY, DDT, copper 31%-I-Carbola
952 CCC ROSE DUST & SPRAY, DDT 5%, captan 7.5%, rotenone 0.75%, rotenoids 1.5%, *lindane 0.5%, sulfur 20%-FI-Carbola*
953 CELATOM MN-39 Natural diatomaceous earth type diluent and carrier-D-Eagle Picher
954 CELATOM MP-78 Calcined diatomaceous silica carrier for granular formulations-D-Eagle-Picher
955 CELITE®, Diatomaceous silica, absorbent grinding aid, inert carrier, and diluent-D-Johns-Manville
956 CELLU-CONC., Copper 8-quinolinolate 1.5%-WP-Darworth
957 CELLU-PEL, Copper quinolinolate-WP-Darworth
958 CELLU-SAN WOOD PRESERVATIVE, *Zinc petr. sulfonate 15%-WP-Darworth*
959 CENOL BOXELDER BUG SPRAY, Dieldrin 0.5%-I-Cenol
960 CENOL 6% CHLORDANE DUST-I-Cenol
961 CENOL FLOWER & VEGETABLE DUST, Pyrethrins 0.03%, piperonyl butoxide 0.3%, rotenone 0.5%, rotenoids 1%-I-Cenol
962 CENOL HOUSE & GARDEN SPRAY, Pyrethrins 0.25%, piperonyl butoxide 0.8%, oil 1%-I-Cenol
963 CENOL LINDANE POWDER 1%-I-Cenol
964 CENOL LINDANE POWDER 25%-I-Cenol
965 CENOL NICOTINE SULPHATE, Nicotine 40%-I-Cenol
966 CENOL POISON CORN, Strychnine alkaloid 0.25%-ANR-Cenol
967 CENOL POISON PEANUTS (Mole Killer), Sodium arsenite 13.88%-ANR-Cenol

968 CENOL POISONED WHEAT, Strychnine alkaloid 0.25%-ANR-Cenol
969 CENOL ROSE DUST, Zineb 3.9%, dinitro 0.9%, lindane 1%, DDT 5%, 1,1 bis (chlorophenyl) 2,2,2-trichloroethanol 1.5%-FI-Cenol
970 CENOL SODIUM FLUORIDE, Sodium fluoride 90%-I-Cenol
971 CENTURY ENGINE PUMP SPRAYERS-E-Century
973 CENTURY HAND GUN SPRAYERS-E-Century
976 CENTURY POWER JET SPRAYERS-E-Century
977 CNTURY SPRAYER ACCESSORIES-E-Century
978 CENTURY TRACTOR MOUNTED POWER SPRAYERS-E-Century
979 CENTURY TRAILER SPRAYERS-E-Century
984 CERESAN® L, Methyl mercury acetate 0.62%, methyl mercury 2,3-dihydroxy propyl mercaptide 2.89%-ST-DuPont (I & B)
984.50 CERESAN® M, Ethyl mercuric p-toluene sulfonanilide 7.7%-ST-Du Pont (I & B)
986 CERESAN® M-DB, Ethyl mercury *p*-toluene sulfonanilide 1.93%-ST-DuPont (I & B)
986.50 "CERESAN"® 2% RED, Ethyl mercuric chloride 2%-ST-DuPont (I & B)
987 CERTOX INSECT KILLER, O,O diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl phosphorothioate 0.5%, piperonyl butoxide, pyrethrins 0.52%, oil 99.187%-I-York Chem.
988 CERTOX INSECT SPRAY, Chlordane, oil, piperonyl butoxide, pyrethrins-I-York Chem.
989 CERTOX MIST SPRAY, Piperonyl butoxide, pyrethrins, ronnel 1.5%-I-York Chem.
990 CERTOX MOUSE TRACKER, DDT 50%-R-York Chem.
991 CERTOX P-5 WOOD PRESERVER RTU, Pentachlorophenol 5%-WP-York Chem.
992 CERTOX P-40 WOOD PRESERVER, Pentachlorophenol 40%-WP-York Chem.
993 CERTOX R-1 MOUSE SEED, 0.5% Strychnine Sulphate-R-York Chem.
994 CERTOX RAT AND MOUSE MEAL, Warfarin 0.025%-R-York Chem.
994.50 CFS ACTIVATOR SPREADER-A-Calif. Farm Supply
995 CFS ALDRIN 4 lb. E.C.-I-Calif. Farm Supply
996 CFS ARAMITE® 8E, 2-(*p-tert*-butylphenoxy)-isopropyl-E-chloroethyl sulfate 8 lbs./gal.-I-Calif. Farm Supply
997 CFS ARAMITE® 15% W.P.-I-Calif. Farm Supply
998 CFS ARAMITE®-DDT-SULFUR DUST 3-5-50-FI-Calif. Farm Supply
999 CFS ARAMITE® DUST 3-I-Calif. Farm Supply
1000 CFS BACILLUS DUST, Bacillus thurigniensis spores-I-Calif. Farm Supply
1001 CFS BHC 12 W.P.-I-Calif. Farm Supply
1003 CFS CAPTAN 10 DUST-F-Calif. Farm Supply
1004 CFS CHLORDANE DUST 5-I-Calif. Farm Supply
1005 CFS CHLORDANE 8E-I-Calif. Farm Supply
1006 CFS CHLORDANE 50% W.P.-Calif. Farm Supply
1007 CFS COPPER DUST NO. 3-F-Calif. Farm Supply
1008 CFS COPPER LIME DUST 20-80-F-Calif. Farm Supply
1009 CFS COPPER ZINC DUST, 36-F-Calif. Farm Supply
1014 CFS DDD-DUST 5, 5% TDE-I-Calif. Farm Supply
1015 CFS DDD-DUST 10, 10% TDE-I-Calif. Farm Supply
1016 CFS DDD-S DUST 5-25, Sulfur 25%, TDE 5%-FI-Calif. Farm Supply
1017 CFS DDD-S DUST 5-50, Sulfur 50%, TDE 5%-FI-Calif. Farm Supply
1018 CFS DDD SULFUR DUST 10-50, Sulfur 50%, TDE 10%-FI-Calif. Farm Supply
1019 CFS DDD SULFUR DUST 5-75, Sulfur 75%, TDE 5%-FI-Calif. Farm Supply
1020 CFS DDD SULFUR DUST 10-75, Sulfur 75%, TDE 10%-FI-Calif. Farm Supply
1021 CFS DDT DUST 5,-I-Calif. Farm Supply
1022 CFS DDT DUST 10-I-Calif. Farm Supply
1023 CFS DDT 2 LB. E.C.-I-Calif. Farm Supply
1024 CFS DDT 10 OIL 2 DUST-I-Calif. Farm Supply
1025 CFS DDT-S DUST 5-50-FI-Calif. Farm Supply
1026 CFS DDT SULFUR DUST 5-25-FI-Calif. Farm Supply
1027 CFS DDT SULFUR DUST 10-50-FI-Calif. Farm Supply
1028 CFS DDT SULFUR DUST 5-75-FI-Calif. Farm Supply
1029 CFS DDT SULFUR DUST 10-75-FI-Calif. Farm Supply
1030 CFS DDT-TOXAPHENE 5-15-I-Calif. Farm Supply
1031 CFS DDT TOXAPHENE SULFUR DUST 5-15-40-FI-Calif. Farm Supply
1032 CFS DDT 50% W.P.-I-Calif. Farm Supply
1034 CFS DIAZINON® 3 DUST, 3% O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate-I-Calif. Farm Supply
1035 CFS DIELDRIN 1.5 LB. E. C.-I-Calif. Farm Supply
1035.50 CFS DIELDRIN 50% WETTABLE POWDER-I-Calif. Farm Supply
1037 CFS DORMANT FLOWABLE EMULSION, OIL-I-Calif. Farm Supply
1038 CFS DORMANT OIL EMULSIVE-I-Calif. Farm Supply
1039 CFS DUSTING SULFUR-FI-Calif. Farm Supply
1040 CFS DUSTING SULFUR-75%-FI-Calif. Farm Supply

1041 CFS ENDRIN DUST 1.5-I-Calif. Farm Supply
1042 CFS ENDRIN 1.6 LB. E.C.-I-Calif. Farm Supply
1043 CFS ENDRIN SULFUR DUST, 1.5-FI-Calif. Farm Supply
1044 CFS HEPTACHLOR DUST 2.5-I-Calif. Farm Supply
1045 CFS HEPTACHLOR 2 LB. E.C.-I-Calif. Farm Supply
1045.50 CFS HEPTACHLOR GRANULAR 2.5-I-Calif. Farm Supply
1046 CFS KELTHANE®-DDT DUST 3-10, 4,4'-Dichloro *alpha*-trichloromethylbenzhydrol, TDE-I-Calif. Farm Supply
1047 CFS KELTHANE®-DDT DUST 4-10, 4,4 dichloro-*alpha*-trichloromethylbenzhydrol 4%, TDE 10%-I-Calif. Farm Supply
1048 CFS KELTHANE® DUST 3, 4,4'Dichloro-*alpha*-trichloromethylbenzhydrol-I-Calif. Farm Supply
1049 CFS KELTHANE®-SULFUR DUST 3-50, 4,4' Dichloro-*alpha*-trichloromethylbenzhydrol 3%, sulfur 50%-FI-Calif. Farm Supply
1050 CFS MALATHION DUST 5-I-Calif. Farm Supply
1051 CFS MALATHION 8 E, 8 lbs./gal.-IF-Calif. Farm Supply
1052 CFS MALATHION 5 LB. E.C.-I-Calif. Farm Supply
1053 CFS MALATHION SULFUR DUST 4-25-FI-Calif. Farm Supply
1054 CFS MALATHION SULFUR DUST NO. 4-50-FI-Calif. Farm Supply
1055 CFS MALATHION 25% W.P.-I-Calif. Farm Supply
1055.50 CFS NEMACIDE®-8.6E, O,O-Diethyl O-2,4-dichlorophenyl phosphorothioate-I-Calif. Farm Supply
1057 CFS PARATHION DDT SULPHUR 2-5-50-FI-Calif. Farm Supply
1058 CFS PARATHION DUST 2%-I-Calif. Farm Supply
1059 CFS PARATHION 4 LB. E.C.-I-Calif. Farm Supply
1060 CFS PARATHION SULPHUR DUST NO. 2 50-FI-Calif. Farm Supply
1061 CFS PARATHION 25% W.P. (Dustless)-I-Calif. Farm Supply
1062 CFS PENTA 40 CENCENTRATE, Pentachlorophenol-WP-Calif. Farm Supply
1063 CFS PHOSDRIN® 4E. 2-Carbomethoxy-1-propene 2-yl dimethyl phosphate 4 lbs./gal.-I-Calif. Farm Supply
1064 CFS SEVIN® 5 DUST, 1-Naphthyl N-methylcarbamate 5%-I-Calif. Farm Supply
1065 CFS SEVIN® 7.5 DUST, 1-Naphthyl N-methylcarbamate 10%-I-Calif Farm Supply
1066 CFS SEVIN®-SULFUR 5-50 DUST, 1-Naphthyl N-methylcarbamate 5%, sulfur 50%-FI-Calif. Farm Supply
1067 CFS SEVIN®-SULFUR 5-75 DUST, 1-Naphthyl N-methylcarbamate 5%, sulfur 50%-FI-Calf. Farm Supply
1067.50 CFS SODIUM ARSENITE SOLUTION-H-Calif. Farm Supply
1069 CFS SOIL ALDRIN 3-I-Calif. Farm Supply
1070 CFS SUMMER OIL EMULSION FLOWABLE LIGHT MEDIUM-I-Calif. Farm Supply
1071 CFS TEPP 40-I-Calif. Farm Supply
1072 CFS TERRACLOR® 20 DUST, Pentachloronitrobenzene 20%-F-Calif. Farm Supply
1073 CFS TERRACLOR® 40 DUST, Pentachloronitrobenzene 40%-F-Calif. Farm Supply
1074 CFS TOXAPHENE DUST 10-I-Calif. Farm Supply
1075 CFS TOXAPHENE SULFUR DUST 10-50-FI-Calif. Farm Supply
1076 CFS TOXAPHENE-DDT E.C.-I-Calif. Farm Supply
1077 CFS TOXAPHENE 6 LB. E.C.-I-Calif. Farm Supply
1077.50 CFS WETTABLE SULFUR-FI-Calif. Farm Supply
1080 CHAMBERLAIN POWER SPRAYERS-E-Chamberlain
1080.02 CHAMPION 25% ALDRIN-I-Carolina Chem. Corp.
1080.04 CHAMPION 2.5% ALDRIN-5% DDT-I-Carolina Chem. Corp.
1080.06 CHAMPION 2.5% ALDRIN-5% DDT-40% SULPHUR-FI-Carolina Chem. Corp.
1080.08 CHAMPION 2.5% ALDRIN DUST-I-Carolina Chem. Corp.
1080.10 CHAMPION 5% ALDRIN DUST-I-Carolina Chem. Corp.
1080.12 CHAMPION 10% ALDRIN DUST-I-Carolina Chem. Corp.
1080.14 CHAMPION 25% ALDRIN DUST BASE-IC-Carolina Chem. Corp.
1080.16 CHAMPION 40% ALDRIN DUST BASE-IC-Carolina Chem. Corp.
1080.18 CHAMPION 40% ALDRIN EMULSIFIABLE CONC.-I-Carolina Chem. Corp.
1080.20 CHAMPION 5% ALDRIN GRANULAR-I-Carolina Chem. Corp.
1080.22 CHAMPION 10% ALDRIN GRANULAR-I-Carolina Chem. Corp.
1080.24 CHAMPION 20% ALDRIN GRANULAR-I-Carolina Chem. Corp.
1080.26 CHAMPION 25% ALDRIN GRANULAR-I-Carolina Chem. Corp.
1080.28 CHAMPION BEETLE AND WORM SPRAY E.C., DDT, endrin-I-Carolina Chem. Corp.
1080.30 CHAMPION 3% BHC-5% DDT DUST-I-Carolina Chem. Corp.
1080.32 CHAMPION BHC LIQUID E.C. (1# BHC)-Carolina Chem. Corp.
1080.34 CHAMPION 72% CHLORDANE-I-Carolina Chem. Corp.
1080.36 CHAMPION 40% CHLORDANE DUST BASE-IC-Carolina Chem. Corp.

1080.38 CHAMPION 4% COPPER-5% METHOXYCHLOR-70% SULPHUR-FI-Carolina Chem. Corp.
1080.40 CHAMPION 4% COPPER-80% SULPHUR-5% DDT DUST-FI-Carolina Chem. Corp.
1080.42 CHAMPION 2% COPPER NAPHTHENATE, Copper 2%-WP-Carolina Chem. Corp.
1080.44 CHAMPION 4% COPPER-80% SULPHUR-FI-Carolina Chem. Corp.
1080.46 CHAMPION 4% COPPER-90% SULPHUR-FI-Carolina Chem. Corp.
1080.48 CHAMPION COTTON SPECIAL DUST, DDT 7%, toxaphene 14%-Carolina Chem. Corp.
1080.50 CHAMPION COTTON SPECIAL E. C. (4# Toxaphene-2# DDT)-I-Carolina Chem. Corp.
1080.52 CHAMPION 5% DDT DUST-I-Carolina Chem. Corp.
1080.54 CHAMPION 10% DDT DUST-I-Carolina Chem. Corp.
1080.56 CHAMPION 5% DDT-7% COPPER DUST-FI-Carolina Chem. Corp.
1080.58 CHAMPION 25% DDT EMULSIFIABLE-I-Carolina Chem. Corp.
1080.60 CHAMPION 25% DDT OIL SOLUTION (No emusifier)-I-Carolina Chem. Corp.
1080.62 CHAMPION 50% DDT W. P.-I-Carolina Chem. Corp.
1080.64 CHAMPION 15% DIELDRIN-I-Carolina Chem. Corp.
1080.66 CHAMPION 5% DIELDRIN DUST-I-Carolina Chem. Corp.
1080.68 CHAMPION 10% DIELDRIN DUST-I-Carolina Chem. Corp.
1080.70 CHAMPION 5% DIELDRIN GRANULAR-I-Carolina Chem. Corp.
1080.72 CHAMPION 10% DIELDRIN GRANULAR-I-Carolina Chem. Corp.
1080.74 CHAMPION 25% DIELDRIN GRANULAR-I-Carolina Chem. Corp.
1080.76 CHAMPION 10% DITHANE®-3% DDT DUST, DDT 3%, zineb 10%-FI-Carolina Chem. Corp.
1080.78 CHAMPION 6% DITHANE®-1% PARATHION DUST, Parathion 1%, zineb 6%-FI-Carolina Chem. Corp.
1081 CHAMPION DOUBLE-ACTION DUSTER-E-Champion
1082 CHAMPION DUSTING MACHINE-E-Champion
1082.10 CHAMPION 1% ENDRIN DUST-I-Carolina Chem. Corp.
1082.20 CHAMPION 1½% ENDRIN DUST-I-Carolina Chem. Corp.
1082.30 CHAMPION 2% ENDRIN DUST-I-Carolina Chem. Corp.
1082.40 CHAMPION 1% ENDRIN-5% DDT-I-Carolina Chem. Corp.
1082.50 CHAMPION 1½% ENDRIN-10% DDT-I-Carolina Chem. Corp.
1082.60 CHAMPION 25% ENDRIN EMULSIFIABLE-I-Carolina Chem. Corp.
1082.70 CHAMPION 12% FERMATE®-3% DDT DUST, DDT 3%, ferbam 12%-FI-Carolina Chem. Corp.
1082.80 CHAMPION 15% FERMATE® DUST, Ferbam 15%-F-Carolina Chem. Corp.
1082.90 CHAMPION 2.5% HEPTACHLOR-I-Carolina Chem. Corp.
1083 CHAMPION HAND DUSTER NO. 103-E-Champion
1083.20 CHAMPION 2.5% HEPTACHLOR DUST-I-Carolina Chem. Corp.
1083.25 CHAMPION 5% HEPTACHLOR DUST-I-Carolina Chem. Corp.
1083.30 CHAMPION 10% HEPTACHLOR DUST-I-Carolina Chem. Corp.
1083.35 CHAMPION 25% HEPTACHLOR DUST-I-Carolina Chem. Corp.
1083.40 CHAMPION 2.5% HEPTACHLOR GRANULAR-I-Carolina Chem. Corp.
1083.45 CHAMPION 5% HEPTACHLOR GRANULAR-I-Carolina Chem. Corp.
1083.50 CHAMPION 10% HEPTACHLOR GRANULAR-I-Carolina Chem. Corp.
1083.55 CHAMPION 25% HEPTACHLOR GRANULAR-I-Carolina Chem. Corp.
1083.60 CHAMPION 25% HEPTACHLOR LIQUID-I-Carolina Chem. Corp.
1083.65 CHAMPION HOPPER AND WORM SPRAY E. C. (2# TDE-33 oz. dieldrin)-I-Carolina Chem. Corp.
1084 CHAMPION KNAPSACK SPRAYER NO. 1, Champion
1085 CHAMPION LAWN SPREADER NO. LS18/LS20, Champion
1085.50 CHAMPION 20% LINDANE E. C.-I-Carolina Chem. Corp.
1086 CHAMPION LITTLE CHAMP DUSTER-E-Champion
1087 CHAMPION LITTLE CHAMP SLIDE SPRAYER NO. 207-E-Champion
1087.10 CHAMPION 4% MALATHION-I-Carolina Chem. Corp.
1087.15 CHAMPION 55% MALATHION EMULSIFIABLE-I-Carolina Chem. Corp.
1087.20 CHAMPION 2% MANEB DUST-F-Carolina Chem. Corp.
1087.25 CHAMPION 24% METHOXYCHLOR-I-Carolina Chem. Corp.
1087.30 CHAMPION 5% METHOXYCHLOR DUST-I-Carolina Chem. Corp.
1087.35 CHAMPION 50% METHOXYCHLOR DUST-I-Carolina Chem. Corp.
1087.40 CHAMPION 2% METHYL PARATHION-5% DDT-I-Carolina Chem. Corp.
1087.45 CHAMPION 2% METHYL PARATHION DUST-I-Carolina Chem. Corp.
1087.50 CHAMPION 2% METHYL PARATHION LIQUID-I-Carolina Chem. Corp.
1087.55 CHAMPION NEMAGON® E.C.-2, 1,2,-Dibromo-3-chloropropane-IF-Carolina Chem. Corp.
1087.60 CHAMPION 17.3% NEMAGON® GRANULAR, 1,2-Dibromo-3-chloropropane 17.3%-IF-Carolina Chem. Corp.

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1087.65 CHAMPION 30% NEMAGON® GRANULES, 1,2-Dibromo-3-chloropropane 30%-IF-Carolina Chem. Corp.
1087.70 CHAMPION 25% PARATHION-I-Carolina Chem. Corp.
1087.75 CHAMPION 1% PARATHION DUST-I-Carolina Chem. Corp.
1087.80 CHAMPION 10% PARATHION DUST-I-Carolina Chem. Corp.
1087.85 CHAMPION 40% PENTA DESSICANT, Pentachlorophenol 40%-H-Carolina Chem. Corp.
1088 CHAMPION POWER SPRAYER NO. 600-E-Champion
1089 CHAMPION POWER SPRAYER NO. 701-E-Champion
1090 CHAMPION ROTARY HAND DUSTER NO. 90[illegible]-E-Champion
1090.40 CHAMPION 10% RHOTHANE® DUST, TDE 10%-I-Carolina Chem. Corp.
1090.50 CHAMPION 25% RHOTHANE® EMULSIFIABLE, TDE 25%-I-Carolina Chem. Corp.
1090.60 CHAMPION 1% ROTENONE DUST-I-Carolina Chem. Corp.
1090.70 CHAMPION 5% ROTENONE E.C.-I-Carolina Chem. Corp.
1090.80 CHAMPION 20% SABADILLA DUST-I-Carolina Chem. Corp.
1091 CHAMPION SLIDE SPRAYER NO. 204-E-Champion
1091.20 CHAMPION TERRAFUME-2, Pentachloronitro benzene 2%-F-Carolina Chem. Corp.
1091.30 CHAMPION TOBACCO SPECIAL E.C. (1.4# DDT-55# Endrin)-I- Carolina Chem. Corp.
1091.40 CHAMPION 10% TOXAPHENE DUST-I-Carolina Chem. Corp.
1091.50 CHAMPION 20% TOXAPHENE DUST-I-Carolina Chem. Corp.
1091.60 CHAMPION TRANSPLANTOX (5% LINDANE E.C.)-I-Carolina Chem. Corp.
1091.70 CHAMPION WARFARIN RAT BAIT-R-Carolina Chem. Corp.
1092 CHAMPION WHEELBARROW SPRAYER NO. 700-E-Champion
1093 CHAPIN HAND-OPERATED SPRAYERS AND EQUIPMENT-E-Chapin
1094 CHAPIN HOSE ATTACHMENT WATER-OPERATED SPRAYERS-E-Chapin
1096 CHAPMAN BHC-1 EMULSIFIABLE, Gamma BHC 1 lb./gal.-I-Chapman
1097 CHAPMAN CHLORDANE DUST 5% or 10%-I-Chapman
1098 CHAPMAN CHLORDANE DUST, Chlordane 10%, I-Chapman
1099 CHAPMAN CHLORDANE-8 EMULSIFIABLE, Chlordane 8 lb./gal.-I-Chapman
1101 CHAPMAN DDT-2 EMULSIFIABLE, DDT 2 lb./gal.-I-Chapman
1102 CHAPMAN DDT-30, 30% DDT oil concentrate-I-Chapman
1103 CHAPMAN 50% DDT TRACKING POWDER-R-Chapman
1105 CHAPMAN EMULSIFIABLE LINDANE, Lindane 20%, oil 80%-I-Chapman
1107 CHAPMAN PCO DUAL-SYNERGIZED PYRETHRUM AEROSOL, Pyrethrins 0.5%, piperonyl butoxide 1.0%, N-octyl bicycloheptene dicarboximide 1.66%, oil 16.84%-IA-Chapman
1108 CHAPMAN ROACH & PEST KILLER CONC., Chlordane 20%, oil 80%-I-Chapman
1111 CHASE'S AERO INSEKILLER, Oil 13.1%, piperonyl butoxide 0.6%, N-octyl bicycloheptene dicarboximide 1%, pyrethrins 0.3%-IA-Chase
1112 CHASE'S ANT KILLER, Sodium arsenate 2.38%-IB-Chase
1113 CHASE'S BUG & ANT KILLER, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorotioate 0.5%, oil 74.184%, N-octyl bicycloheptene dicarboximide 0.166%, piperonyl butoxide 0.1%, pyrethrins 0.05%-IA-Chase
1114 CHASE'S CHASE-MM, Dimethyl phthalate 12.06%, 2-ethyhexanediol-1,3 4.0%, butyl dimethyl dihydrogammapyrone carboxylate 4.02%-IR-Chase
1115 CHASE'S GARBAGE CAN DEODORIZER, DDT 5%, Orthodichlorobenzene 20%-I-Chase
1116 CHASE'S HOUSE & GARDEN INSEKILLER SPRAY, Methoxychlor 2%, piperonyl butoxide 1%, pyrethrins 0.2%, rotenone 0.15%, rotenoids 0.3%, oil 1.02%-IA-Chase
1117 CHASE'S MOTHPROOFER SPRAY, Terpene polychlorinates 5%, oil 35%-MP-Chase
1118 CHASE'S NEW INSECT BOMB, DDT 5%, organic thiocyanates 2.05%, oil 12.5%-IA-Chase
1119 CHASE'S ROSE-PLANT-EVERGREEN INSECT SPRAY, Dinitro phenyl crotonate 0.11%, methoxychlor 0.3%, N-octyl bicycloheptene dicarboximide 0.3%, oil 0.115%, pyrethrins 0.02%, rotenone 0.1%, rotenoids 0.2%-I-Chase
1120 CHECK PEST 11% GAMMA BHC EMULSIFIABLE CONC., Gamma BHC 1 lb./gal.-I-Assoc. Sales
1121 CHECK PEST 4-LB. CHLORDANE EMULSIFIABLE CONC., Chlordane 4 lbs./gal.-I-Assoc. Sales
1122 CHECK PEST 8-LB. CHLORDANE EMULSIFIABLE CONC., Chlordane 8 lbs. gal.-I-Assoc. Sales
1123 CHECK PEST 20% LINDANE SPRAY CONC., Lindane 1.66 lbs./gal.-I-Assoc. Sales
1124 CHECK PEST MALATHION FLY SPRAY CONC. Malathion 50%-IC-Assoc. Sales
1125 CHECK PEST OMPA SYSTMEIC INSECTICIDE SPRAY, Octamethylpyrophosphoramide 18.5%-IS-Assoc. Sales

1126 CHECK PEST 25% PARATHION EMULSIFIABLE CONC., Parathion 2 lbs./gal.-I-Assoc. Sales
1126.20 CHEELOX B-13, Mixture of soluble salts of amino carboxylic acids 37%-A-General Aniline
1126.40 CHEELOX BF-13, Tetrasodium ethylenediamine tetra-acetate 37%-A-General Aniline
1126.60 CHEELOX BF-78, Tetrasodium ethylenediamine tetra-acetate 78%-A-General Aniline
1126.80 CHEELOX BF ACID, Ethylenediamine tetra-acetate acid 100%-A-General Aniline
1131 CHEM-ALDRIN, 2 lbs. Aldrin/gal.-I-Chem. Ins.
1132 CHEM-ALDRIN DDT, 1 lb. Aldrin 2 lb. DDT/gal.-I-Chem. Ins.
1133 CHEM-BAM, Liquid nabam fungicide-F-Chem. Ins.
1134 CHEM-CHLOR 50%, Wettable chlordane powder 50%-I-Chem. Ins.
1135 CHEM CHLORO IPC, Chloro IPC 40%-H-Chem. Ins.
1136 CHEM-DRIN, Dieldrin 15% emulsifiable-I-Chem. Ins.
1137 CHEM DRIN 15% EMULSIFIABLE, Dieldrin 15%-I-Chem. Ins.
1138 CHEM ENDRIN E. C.-I-Chem. Ins.
1139 CHEM FISH REGULAR, Rotenone-I-Chem. Ins.
1140 CHEM FISH REGULAR O. F., Rotenone emul.-I-Chem. Ins.
1141 CHEM FISH SPECIAL, Rotenone-I-Chem. Ins.
1142 CHEM FISH SPECIAL O. F., Rotenone emul-I-Chem. Ins.
1143 CHEM FISH SYNERGIZED, Rotenone, piperonyl butoxide-I-Chem. Ins.
1144 CHEM FISH SYNERGIZED O.F., Rotenone emul.-I-Chem. Ins.
1145 CHEM-FOG 30%, DDT 30% soln.-I-Chem. Ins.
1146 CHEM FOG T, DDT, Pyrethrin-I-Chem. Ins.
1146.50 CHEM NEB, Maneb 80% wettable powder-F-Chem. Ins.
1147 CHEMFORM AG-STREP, Streptomycin 8.5%-F-Chem. Formulators
1148 CHEMFORM 20% ALDRIN GRANULES-I-Chem. Formulators
1149 CHEMFORM ALDRIN NO. 2 (Liquid conc.), 2 lb. Aldrin/gal.-I-Chem. Formulators
1150 CHEMFORM ALUMINUM SULFATE-A-Chem. Formulators
1151 CHEMFORM ANTI-STAIN, Sodium pentachlorophenate, ethyl mercury phosphate-WP-Chem. Formulators
1152 CHEMFORM APHID SPRAY 50% MALATHION-I-Chem. Formulators
1153 CHEMFORM BARACIDE, Methoxychlor 2%, malathion 3%, sulfur 5%-FI-Chem. Formulators
1154 CHEMFORM BHC EMUL. LIQUID CONC., 1 lb. gamma BHC/gal.-I-Chem. Formulators
1155 CHEMFORM BORE-KILL, Ethylene dichloride 35%, propylene dichloride 15%-IF-Chem. Formulators
1156 CHEMFORM BUTOXY BRUSH KILLER, 2,4-D and 2,4,5-T Butoxy propanol esters-H-Chem. Formulators
1157 CHEMFORM CAPTAN FUNGICIDE, 50% W.P.-F-Chem. Formulators
1158 CHEMFORM 5% CHLORDANE DUST-I-Chem. Formulators
1159 CHEMFORM 40% CHLORDANE EMULS. LIQUID CONC.-I-Chem. Formulators
1160 CHEMFORM 40% CHLORDANE GRANULES-I-Chem. Formulators
1161 CHEMFORM 62½% CHLORDANE LIQUID CONC.-I-Chem. Formulators
1162 CHEMFORM 72%CHLORDANE LIQUID CONC.-I-Chem. Formulators
1163 CHEMFORM 40% WP CHLORDANE-I-Chem. Formulators
1164 CHEMFORM 7½% COPPER DUST-F-Chem. Formulators
1165 CHEMFORM 53 COPPER FUNGICIDE-F-Chem. Formulators
1166 CHEMFORM DAIRY CATTLE SPRAY, Butoxypolypropylene glycol 6.2%, pyrethrins 0.026%, piperonyl butoxide 0.205%, oil 93.06%-I-Chem. Formulators
1167 CHEMFORM 25% DDT EMULS. LIQUID CONC.-I-Chem. Formulators
1168 CHEMFORM 5% DDT GARDEN DUST-I-Chem. Formulators
1169 CHEMFORM 10% DDT GRANULES-I-Chem. Formulators
1170 CHEMFORM 50% W DDT-I-Chem. Formulators
1171 CHEMFORM 5% DIELDRIN GRANULES-I-Chem. Formulators
1172 CHEMFORM DIELDRIN LIQUID CONC., 2 lb. Dieldrin/gal.-I-Chem. Formulators
1173 CHEMFORM DORMANT SPRAY OIL, Paraffinic Base Oil 85%-I-Chem. Formulators
1174 CHEMFORM DSMA CRABGRASS KILLER, Disodium methyl arsonate anhydrous 12.6%-H-Chem. Formulators
1175 CHEMFORM 55 DUST, Zineb 5%, methoxychlor 5%-FI-Chem. Formulators
1176 CHEMFORM DUSTING SULFUR-FI-Chem. Formulators
1177 CHEMFORM EVERGREEN SPRAY, Malathion, toxaphene-I-Chem. Formulators
1178 CHEMFORM FARM & HOME WEED KILLER, Dimethylamine 2,4-D 49.4%-H-Chem. Formulators
1179 CHEMFORM FERBAM (WETTABLE POWDER) 65%-F-Chem. Formulators
1180 CHEMFORM 15% FERBAM DUST-F-Chem. Formulators
1181 CHEMFORM 40% FORMALDEHYDE, USP-F-Chem. Formulators

1182 CHEMFORM FRUIT & ORNAMENTAL SPRAY-DDT 10, Captan 4%, ferbam 7%, malathion 4%, sulfur 15%-FI-Chem. Formulators
1183 CHEMFORM GRAPE AND BERRY SPRAY, DDT, Ferbam-FI-Chem. Formulators
1184 CHEMFORM HOME TERMITE CONC., BHC 0.3%, DDT 3%, chlordane 47%-I-Chem. Formulators
1185 CHEMFORM HOUSEHOLD PEST DUST, 3% Chlordane, 0.5% O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate-I-Chem. Formulators
1186 CHEMFORM LIME SULFUR SOLN., Calcium polysulfides-FI-Chem. Formulators
1187 CHEMFORM 5% MALATHION DUST-I-Chem. Formulators
1188 CHEMFORM 50% MALATHION LIQUID CONC.-I-Chem. Formulators
1189 CHEMFORM 5% METHOXYCHLOR DUST-I-Chem. Formulators
1190 CHEMFORM METHOXYCHLOR 50% WP-I-Chem. Formulators
1191 CHEMFORM 25% RHOTHANE® LIQUID CONC., TDE 25%-I-Chem. Formulators
1192 CHEMFORM 50% WP RHOTHANE®, TDE 50%-I-Chem. Formulators
1193 CHEMFORM ROSE DUST, 1-Naphthyl N-methylcarbamate 2%, lindane 1%, 2,4,5,4' tetrachlorodiphenyl sulphone 0.5%, maneb 6.4%, sulfur 20%-FI-Chem. Formulators
1194 CHEMFORM 75 ROTENONE, Rotenone 0.75%-I-Chem. Formulators
1195 CHEMFORM 100 ROTENONE, Rotenone 1%-I-Chem. Formulators
1196 CHEMFORM 5% ROTENONE WP-I-Chem. Formulators
1197 CHEMFORM SEVIN® DUST, 3% 1-Naphthyl N-methylcarbamate-I-Chem. Formulators
1198 CHEMFORM SLUG & SNAIL BAIT, Metaldehyde 2%-IB-Chem. Formulators
1199 CHEMFORM SPECIAL GARDEN DUST, FORMULA 444, Malathion 4%, methoxychlor 4%, zineb 4%-FI-Chem. Formulators
1200 CHEMFORM SPECIAL POTATO DUST, Copper 5%, DDT 5%-FI-Chem. Formulators
1201 CHEMFORM SPECIAL TOMATO DUST, Copper 7.5%, rotenoids 1.5%, rotenone 0.75%-FI-Chem. Formulators
1202 CHEMFORM SPRAY ZINEB, Zineb 65%-F-Chem. Formulators
1203 CHEMFORM STEMITE GRANULES, O,O-diethyl-O (and S)-2-ethylmercapto)-ethyl thiophosphate 0.89%-I-Chem. Formulators
1204 CHEMFORM STRAWBERRY DUST, Chlordane 5%, DDT 5%-I-Chem. Formulators
1205 CHEMFORM 10% TDE (DDD) DUST FOR TOBACCO-I-Chem. Formulators
1206 CHEMFORM 75% THIRAM WP-F-Chem. Formulators
1207 CHEMFORM THIRAM LAWN FUNGICIDE TABLETS-F-Chem. Formulators
1208 CHEMFORM TURFACIDE, Dieldrin granules 5%-I-Chem. Formulators
1209 CHEMFORM WOOD PRESERVATIVE, Copper Naphthenate-WP-Chem. Formulators
1210 CHEMFORM WOOD PRESERVATIVE 30%, Copper Naphthenate Liquid Concentrate-WP-Chem. Formulators
1211 CHEMFORM ZINEB BLIGHT DUST, Zineb 8%-F-Chem. Formulators
1212 CHEMFORM 65% ZINEB, WP-F-Chem. Formulators
1213 CHEM HEPTA, 23% emul. 2# heptachlor-I-Chem. Ins.
1214 CHEM HEPTA, 40% emul. 4# heptachlor-I-Chem. Ins.
1215 CHEM-HEX FORMULA T, 15% Lindane plus synergized pyrethrum-I-Chem. Ins.
1216 CHEM-HEX 11% SOLN., Gamma BHC 11%-I-Chem. Ins.
1217 CHEM-HEX 12% WETTABLE, Gamma BHC 12%-I-Chem. Ins.
1218 CHEMI-CASTER, (Grandular pesticide applicator)-E-Noble
1219 CHEM-KLOR 46% EMULSIFIABLE, Chlordane 46%-I-Chem. Ins.
1220 CHEM-KLOR 50% EMULSIFIABLE, Chlordane 50%-I-Chem. Ins.
1221 CHEM-KLOR 62% EMULSIFIABLE, Chlordane 62%-I-Chem. Ins.
1222 CHEM-KLOR 73% EMULSIFIABLE, Chlordane 73%-I-Chem. Ins.
1223 CHEM-KLOR 20% SOLN., Chlordane 20%-I-Chem. Ins.
1224 CHEM-LIN 10% EMULSIFIABLE, Lindane 10%-I-Chem. Ins.
1225 CHEM-LIN 20% EMULSIFIABLE, Lindane 20%-I-Chem. Ins.
1226 CHEM-LIN 20% SOLN., Lindane 20%-I-Chem. Ins.
1227 CHEM-LIN 25% WETTABLE, Lindane 25%-I-Chem. Ins.
1228 CHEM-MITE, Rotenone-I-Chem. Ins.
1229 CHEM-O-BAM, Ammonium ethylene bisdithiocarbamate-F-Chem. Ins.
1230 CHEMOX P. E., Triethanolamine and isopropanolamine salts of dinitro-o-sec-butyl phenol-H-Chem. Ins.
1230.50 CHEMOX PE-G-(Granular), Triethanolamine and isopropylamine salts of dinitro-o-sec-butylphenol-H-Chem. Ins.
1231 CHEMPAR ALDRIN 10 D CONC., aldrin 10%-IC-Chempar
1232 CHEMPAR ALDRIN 25D CONC., 25%-IC-Chempar
1233 CHEMPAR ALDRIN 40D CONC., 40%-IC-Chempar
1234 CHEMPAR ALDRIN 50D CONC., 50%-IC-Chempar
1235 CHEMPAR ALDRIN 2 EC, 2 lbs. Aldrin/gal.-I-Chempar
1236 CHEMPAR ALDRIN 4 EC, 4 lbs. Aldrin/gal.-I-Chempar

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• FUNGICIDES
• HERBICIDES
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A low cost formulation, which meets Federal Specifications, for wood treaters.

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PURIFIED DDT — NABAM
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Years of scientific research at Pennsylvania State University recently produced and proved the chemical that is Magic Circle Deer Repellent. It works by irritating an animal's keen sense of smell. Sprayed in a band around plants, grain fields, orchards, gardens, or nurseries, it gives 30-day foolproof protection.

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1237 CHEMPAR ALDRIN GRANULAR 10, 10%-I-Chempar
1238 CHEMPAR ALDRIN 25 WP, 25%-I-Chempar
1239 CHEMPAR ALDRIN 40 WP, 40%-I-Chempar
1240 CHEMPAR ALDRIN 50 WP, 50%-I-Chempar
1241 CHEMPAR BHC 25D 25%-IC-Chempar
1242 CHEMPAR BHC 12D CONC., 12%-IC-Chempar
1243 CHEMPAR BHC 30D CONC., 30%-IC-Chempar
1244 CHEMPAR BHC-DDT 3-5 COTTON DUST, DDT 5%, Gamma BHC 3%-I-Chempar
1245 CHEMPAR BHC-DDT-PARATHION 3-5-1 COTTON DUST, DDT 5%, Gamma BHC 3%, parathion 1%-I-Chempar
1246 CHEMPAR BHC-DDT SULFUR 3-10-40 COTTON DUST, DDT 10%, Gamma BHC 3%, sulfur 40%-I-Chempar
1247 CHEMPAR BHC 1EC, 1.16 lb./gal.-I-Chempar
1248 CHEMPAR BHC 30% TECHNICAL CONCENTRATE-IC-Chempar
1249 CHEMPAR BHC 12 WP, 12%-I-Chempar
1250 CHEMPAR BHC 25 WP, 25%-I-Chempar
1251 CHEMPAR BHC 30 WP, 30%-I-Chempar
1252 CHEMPAR BRUSH KILLER 2-2EC, 2 lbs. Isooctyl ester of 2,4-D and 2 lbs. isooctyl ester of 2,4,5-T-H-Chempar
1253 CHEMPAR CHLORDANE 10 DUST CONC., 10%-IC-Chempar
1254 CHEMPAR CHLORDANE 20 DUST CONC., 20%-IC-Chempar
1255 CHEMPAR CHLORDANE E.C., 8 lbs. Chlordane/gal.-I-Chempar
1256 CHEMPAR CHLORDANE 40 WP, 40%-I-Chempar
1257 CHEMPAR CHLORDANE 50 WP, 50%-I-Chempar
1258 CHEMPAR CHLORO IPC LIQUID, 4 lbs. gal.-H-Chempar
1259 CHEMPAR DDT 10% DUST CONC.-IC-Chempar
1260 CHEMPAR DDT 50 DUST CONC.-IC-Chempar
1261 CHEMPAR DDT 2 EC., 2 lb. DDT/gal.-I-Chempar
1262 CHEMPAR DDT 2.85 EC, 2.85 lbs. DDT/gal.-I-Chempar
1263 CHEMPAR 2,4-D AMINE 4 EC, 4 lb. Dimethylamine salt of 2,4-D/gal.-H-Chempar
1264 CHEMPAR, 2,4-D AMINE 6 EC, 6 lbs. Dimethylamine salt of 2,4-D/gal.-H-Chempar
1265 CHEMPAR 2,4-D BUTYL ESTER 2.65 EC, 2.65 lbs. butyl ester, 2,4-D/gal.-H-Chempar
1266 CHEMPAR 2,4-D BUTYL ESTER 4 EC, 4 lbs. 2,4-D/gal.-H-Chempar
1267 CHEMPAR 2,4-D BUTYL ESTER 6 EC, 6 lbs. 2,4-D/gal.-H-Chempar
1268 CHEMPAR 2,4-D ISOPROPYL ESTER 6 EC, 6.34 lbs. Isopropyl ester of 2,4-D-H-Chempar
1269 CHEMPAR 2,4-D LV ESTER 4 EC, 4 lbs. Isooctyl ester of 2,4-D/gal.-H-Chempar
1270 CHEMPAR DDT 100% TECH CONCENTRATE-IC-Chempar
1271 CHEMPAR DDT 50 WP, 50%-I-Chempar
1272 CHEMPAR DDT 75 WP, 75%-I-Chempar
1273 CHEMPAR DIELDRIN 1.5 EC, 1.5 lbs. dieldrin/gal.-I-Chempar
1274 CHEMPAR DIELDRIN 50 WP, 50%-I-Chempar
1275 CHEMPAR ENDRIN 1.6 EC, 1.6 lbs. Endrin/gal.-I-Chempar
1276 CHEMPAR FERBAM 76 WETTABLE POWDER, 76%-F-Chempar
1277 CHEMPAR HEPTACHLOR 2 EC, 2 lbs. Heptachlor/gal.-I-Chempar
1278 CHEMPAR HEPTACHLOR 4 EC, 4 lbs. Heptachlor/gal.-I-Chempar
1279 CHEMPAR HEPTACHLOR 25% WP-I-Chempar
1280 CHEMPAR HEPTACHLOR 40% WP-I-Chempar
1281 CHEMPAR LEAD ARSENATE, Lead arsenate 98%-I-Chempar
1282 CHEMPAR LINDANE 25 WP, 25%-I-Chempar
1283 CHEMPAR MALATHION 5 EC, 5 lbs. Malathion/gal.-I-Chempar
1284 CHEMPAR MALATHION 50 EC, 4.4 lbs. Malathion/gal.-I-Chempar
1285 CHEMPAR MALATHION 25 WP, 25%-I-Chempar
1286 CHEMPAR PARATHION 1% DUST-I-Chempar
1287 CHEMPAR PARATHION 2% DUST-I-Chempar
1288 CHEMPAR PARATHION 25 EC, 2 lb. Parathion/gal.-I-Chempar
1289 CHEMPAR PARATHION 47 EC, 4 lb. Parathion/gal.-I-Chempar
1290 CHEMPAR PARATHION 15W, 15%-I-Chempar
1291 CHEMPAR PARATHION 25 W, 25%-I-Chempar
1292 CHEMPAR PARIDOL 40 EC, 3.2 lbs. Methyl parathion/gal.-I-Chempar
1293 CHEDPAR PARIDOL 47.5 EC., 4 lbs. Methyl parathion/gal.-I-Chempar
1294 CHEMPAR PARIDOL 50 EC, 4.25 lbs. Methyl parathion/gal.-I-Chempar
1295 CHEMPAR PARIS GREEN, Copper aceto arsenite I-Chempar
1296 CHEMPAR TOXAPHENE 10D CONC., 10%-IC-Chempar
1297 CHEMPAR TOXAPHENE 20 D CONC., 20%-IC-Chempar
1298 CHEMPAR TOXAPHENE-DDT 20-10D CONC., DDT 10%, toxaphene 20%-IC-Chempar

1299 CHEMPAR TOXAPHENE-DDT 20-15D CONC., DDT 15%, toxaphene 20%-IC- Chempar
1300 CHEMPAR TOXAPHENE-DDT 40-20D CONC., DDT 20%, toxaphene 40%-IC-Chempar
1301 CHEMPAR TOXAPHENE-DDT 4-2EC, 4 lbs. Toxaphene and 2 lbs. DDT/gal.-I-Chempar
1302 CHEMPAR TOXAPHENE 6 EC, 6 lb. Toxaphene/gal.-I-Chempar
1303 CHEMPAR TOXAPHENE 8 EC, 8 lb. Toxaphene/gal.-I-Chempar
1304 CHEMPAR TOXAPHENE 40 WP, 40%-I-Chempar
1305 CHEMPAR SULFUR DUST CONDITIONED, Sulfur 93%-FI-Chempar
1306 CHEMPAR SULFUR DUST SUPERCONDITIONED, Sulfur 98%-FI-Chempar
1307 CHEMPAR SULFUR DUST UNCONDITIONED, Sulfur 99.5%-FI-Chempar
1308 CHEMPAR SULFUR WETTABLE CONDITIONED, Sulfur 95%-FI-Chempar
1309 CHEMPAR THIRAM 80 WP, (80%)-ST-Chempar
1310 CHEMPAR 2,4,5-T AMINE 4 EC, 4 lbs. Triethylamine salt of 2,4,5-T/gal.-H-Chempar
1311 CHEMPAR 2,4,5-T ESTER 4 EC, 4 lbs. Butyl esters of 2,4,5-T/gal.-H-Chempar
1312 CHEMPAR ZIRAM 76 WP, 76%-F-Chempar
1313 CHEMPAR ZINEB 75 WP, 75%-F-Chempar
1314 CHEM PELS B, BHC Granules-I-Chem. Ins.
1315 CHEM-PELS 2,4-D, Impregnated 2,4-D granules-H-Chem. Ins.
1316 CHEM PELS T, 10% Granular DDT-I-Chem. Ins.
1317 CHEM-PENTA 39% PENTACHLOROPHENOL-H-WP-Chem. Ins.
1318 CHEM-PHENE 4 LBS. TOXAPHENE PER. GAL.-I-Chem. Ins.
1319 CHEM-PHENE 6 LBS. TOXAPHENE PER GAL.-I-Chem. Ins.
1320 CHEM-PHENE 8 LBS. TOXAPHENE PER GAL.-I-Chem. Ins.
1321 CHEM PRO RUB-OUT LIVESTOCK INSECTICIDE, Di-n-butyl succinate 5%, mono and di-isopropyl cresols 5.38%, oils, piperonyl butoxide 1.50%, rotenoid 1.88%, rotenond 1.25%,-I-Chem. Prods. Corp.
1322 CHEMRAT, Pindone 0.5% conc.-R-Chem. Ins.
1323 CHEM-SECT BRAND 50% DDT DISPERSIBLE-I-Chem. Ins.
1324 CHEM-SECT BRAND 25% DDT EMULSIFIABLE-I-Chem. Ins.
1325 CHEM-SECT BRAND 30% DDT EMULSIFIABLE-I-Chem. Ins.
1326 CHEM-SECT BRAND 10% DDT POWDER-I-Chem. Ins.
1327 CHEM-SECT BRAND 6% DDT SOLN.-I-Chem. Ins.
1328 CHEM-SECT BRAND 12% DDT SOLN.-I-Chem. Ins.
1329 CHEM-SECT BRAND 25% DDT SOLN.-I-Chem. Ins.
1330 CHEM-SECT BRAND 30% DDT SOLN.-I-Chem. Ins.
1331 CHEM-SECT BRAND 50% DDT WETTABLE-I-Chem. Ins.
1332 CHEM-SECT BRAND PYRETHRUM EXTRACT-IC-Chem. Ins.
1333 CHEM-SECT BRAND RED SQUILL POWDER 500 MG./KG.-R-Chem. Ins.
1334 CHEM-SECT BRAND ROTENONE EMULSIFIABLE, Rotenone 5%-I-Chem. Ins.
1335 CHEM-SECT BRAND ROTENONE EXTRACTS 5%, Rotenone 10%-I-Chem. Ins.
1336 CHEM-SECT BRAND ROTENONE RESINS 30%-40%ROTENONE-IC-CHEM. Ins.
1337 CHEMSECT D-25 O.F., Homogenized DDT liquid-I-Chem. Ins.
1338 CHEMSECT PARATHION 25% EMULSIFIABLE-I-Chem. Ins.
1339 CHEMSECT PARATHION 40% O.F., Homogenized Parathion-I-Chem. Ins.
1340 CHEMSECT PARATHION 80% O.F., Homogenized Parathion-I-Chem. Ins.
1341 CHEMSECT PARATHION 25% DUST CONCENTRATE-I-Chem. Ins.
1342 CHEMSECT PARATHION 15% WETTABLE POWDER-I-Chem. Ins.
1343 CHEM-SECT ZINEB-F-Chem. Ins.
1344 CHEM-SEN 47%, Sodium arsenite-H-Chem. Ins.
1345 CHEM-SEN 50% SOLN., Sodium arsenite 50%-H-Chem. Ins.
1346 CHEM-SEN 56% SOLN., Sodium arsenite 56%-H-Chem. Ins.
1347 CHEM SILVEX, 4 lbs. Acid per gal.-H-Chem. Ins.
1348 CHEM-SOIL APPLICATORS MIXERS, For band and in-furrow soil application of pesticides-E-Gustafson
1349 CHEM-TOL 5% PENTACHLOROPHENOL-WP-Chem. Ins.
1350 CHEM-TOL 40% PENTACHLOROPHENOL-WP-Chem. Ins.
1351 CHEM-TWIN APPLICATORS-for granular pesticides-E-Gustafson
1352 CHEM-VAPE, Sodium methyl dithiocarbamate 40% soln.-IF-Chem. Ins.
1353 CHEM-WEED, 2,4,5-T Isooctyl ester 4 lbs. acid per gal.-H-Chem. Ins.
1354 CHEM-WEED AQUATIC, 2,4-D & 2,4,5-T, 4 lbs. acid per gal.-H-Chem. Ins.
1355 CHEM-WEED, POISON IVY & BRUSH KILLER, 2,4-D & 2,4,5-T lbs./gal.-H-Chem. Ins.
1356 CHEM-WEED 2,4-D BUTYL ESTER, Butyl ester 2,4-D 40%-H-Chem. Ins.
1357 CHEM-WEED 2,4-D ISOPROPANOLAMINE SALT 2,4-D, 4 lb./gal.-H-Chem. Ins.
1358 CHEM-WEED 2,4-D 44% ISOPROPYL ESTER, 2,4-D 44% (3.34 lbs./gal.) -H-Chem. Ins.

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1358.02 CHEMWEST 40% ALDRIN DUST BASE-IC-Chemwest, Inc
1358.04 CHEMWEST 25% ALDRIN EMULSIFIABLE-I-Chemwest, Inc.
1358.06 CHEMWEST 25% ALDRIN WETTABLE POWDER-I-Chemwest, Inc.
1358.08 CHEMWEST 40% ALDRIN WETTABLE POWDER-I-Chemwest, Inc.
1358.10 CHEMWEST BENZENE HEXACHLORIDE DRY POWDER, Gamma BHC 12%-IC-Chemwest, Inc.
1358.12 CHEMWEST BENZENE HEXACHLORIDE WETTABLE POWDER, Gamma BHC 12%-I-Chemwest, Inc.
1358.14 CHEMWEST 20% CHLORDANE CONC., Chlordane 20%, oil 80%-I-Chemwest, Inc.
1358.16 CHEMWEST 5% CHLORDANE DUST-I-Chemwest, Inc.
1358.18 CHEMWEST 10% CHLORDANE DUST-I-Chemwest, Inc.
1358.20 CHEMWEST 44% CHLORDANE EMULSIFIABLE-I-Chemwest, Inc.
1358.22 CHEMWEST 72% CHLORDANE EMULSIFIABLE-I-Chemwest, Inc.
1358.24 CHEMWEST 40% CHLORDANE WETTABLE POWDER-I-Chemwest, Inc.
1358.26 CHEMWEST 50% CHLORDANE WETTABLE POWDER-I-Chemwest, Inc.
1358.28 CHEMWEST CRYOLITE (Synthetic)-I-Chemwest, Inc.
1358.30 CHEMWEST 5-25 DDD-SULFUR DUST, Sulfur 25%, TDE 5%-FI-Chemwest, Inc.
1358.32 CHEMWEST 5-50 DDD-SULFUR DUST, Sulfur 50%, TDE 5%-FI-Chemwest, Inc.
1358.34 CHEMWEST 50% DDD, WETTABLE, TDE 50%-I-Chemwest, Inc.
1358.36 CHEMWEST 50% DDT DRY POWDER IC-Chemwest, Inc.
1358.38 CHEMWEST 25% DDT EMULSIFIABLE-I-Chemwest, Inc.
1358.40 CHEMWEST 25% DDT LIQUID CONC., DDT 25%, oil 75%-I-Chemwest, Inc.
1358.42 CHEMWEST 5% DDT POWDER-I-Chemwest, Inc.
1358.44 CHEMWEST 10% DDT POWDER-I-Chemwest, Inc.
1358.46 CHEMWEST 4-80 DDT-SULFUR DUST, DDT 4%, sulfur 80%-FI-Chemwest, Inc.
1358.48 CHEMWEST DDT 5%-SULPHUR 50% POWDER-FI-Chemwest, Inc.
1358.50 CHEMWEST DDT 5%-75% SULPHUR POWDER-FI-Chemwest, Inc.
1358.52 CHEMWEST 10%DDT-50% SULPHUR POWDER -FI-Chemwest, Inc.
1358.54 CHEMWEST DDT TECH.-IC-Chemwest, Inc
1358.56 CHEMWEST 50% DDT WETTABLE POWDER-I-Chemwest, Inc.
1358.58 CHEMWEST 75% DDT WETTABLE POWDER-I-Chemwest, Inc.
1358.60 CHEMWEST 50% DIELDRIN DUST BASE-IC-Chemwest, Inc.
1358.62 CHEMWEST 50% DIELDRIN WETTABLE POWDER-I-Chemwest, Inc.
1358.64 CHEMWEST ENDRIN EMULSIFIABLE, 1.6# Endrin per gal.-I-Chemwest, Inc.
1358.66 CHEMWEST 25.0% HEPTACHLOR WETTABLE POWDER-I-Chemwest, Inc.
1358.68 CHEMWEST 50% IPC WETTABLE POWDER-H-Chemwest, Inc.
1358.70 CHEMWEST MALASPRAY 500, 5# Malathion per gal.-I-Chemwest, Inc.
1358.72 CHEMWEST 25% MALATHION WETTABLE POWDER-I-Chemwest, Inc.
1358.74 CHEMWEST 15% PARATHION WETTABLE POWDER-I-Chemwest, Inc.
1358.76 CHEMWEST 25% PARATHION, WETTABLE-I-Chemwest, Inc.
1358.78 CHEMWEST PENTACHLOROPHENOL WOOD PRESERVATIVE, Oil 95%, pentachlorophenol 4.15%-WP-Chemwest, Inc.
1358.80 CHEMWEST PHOSDRIN® EMULSIFIABLE, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2 lb./gal.-I-Chemwest, Inc.
1358.82 CHEMWEST PYRETHRUM CONC. 20, Oil 97.6%, pyrethrins 2.4%-IC-Chemwest, Inc.
1358.84 CHEMWEST PYRETHRUM POWDER, Pyrethrins 5%-I-Chemwest, Inc.
1358.86 CHEMWEST SILIKIL, Silica aerogel-I-Chemwest, Inc.
1358.88 CHEMWEST SODIUM FLUORIDE-I-Chemwest, Inc.
1358.90 CHEMWEST SODIUM FLUORIDE TECHNICAL 97-98.5 NaF.-IC-Chemwest, Inc.
1358.92 CHEMWEST SYNTHETIC CRYOLITE TECHNICAL-IC-Chemwest, Inc.
1358.94 CHEMWEST TETRAETHYL PYROPHOSPHATE, TEPP 40%, other phosphates 60%-IC-Chemwest, Inc.
1358.96 CHEMWEST 40% TOXAPHENE POWDER-I-Chemwest, Inc.
1358.98 CHEMWEST 60% TOXAPHENE EMULSIFIABLE-I-Chemwest, Inc.
1359 CHEM ZINEB, 65%-F-Chem. Ins.
1360 CHEVRON LINDANE TECHNICAL, Lindane 100%-IC-Calif. Chem.
1362 CHICK-NOT, Potassium cyanate 36.8%, Sodium arsenite 45.33%-H-Nott
1362.50 CHINCH BUG SPRAY, DDT 9.3%, ethion 18.6%-I-Destruxol
1363 CHIP-CAL, Tri-calcium arsenate 85%-H-I-Chipman
1364 CHIP-CAL GRANULAR, Tri-calcium arsenate 48%-H-Chipman
1365 CHIPCO ALDRIN 2L, Aldrin 2 lbs./gal.-I-Chipman
1366 CHIPCO ATLAS "A", Sodium arsenite 4 lbs. As_2O_3/gal.-H-Chipman
1366.50 CHIPCO BOREA H-25, Bromacil 2%, sodium metaborate 50%-H-Chipman
1366.60 CHIPCO BOREA K-10, Diuron 8%, sodium metaborate 42%-H-Chipman
1366.70 CHIPCO BOREA T-10, Monuron 8%, sodium metaborate 50%-H-Chipman
1367 CHIPCO CHLORDANE 5% DUST-I-Chipman
1368 CHIPCO CHLORDANE 8L, Chlordane 8 lbs. gal.-I-Chipman
1369 CHIPCO CHLORDANE W-50, Chlordane 50%-I-Chipman
1370 CHIPCO CLORGRAN 5, (granular) chlordane 5%-I-Chipman

Backed by 52 Years of Experience

CHIPMAN

INSECTICIDES
FUNGICIDES
HERBICIDES
DEFOLIANTS

A BROAD LINE

Weed and Brush Killers for industry, agriculture, golf courses; home and aquatic use. Most complete line available.

Insecticides for agriculture and pest control work.

Defoliants for cotton, rice, beans, tomatoes and milo.

Seed Protectants for small grains, flax and rice.

Arsenic Acid, Sodium Arsenate, Sodium Arsenite, 2,4-D and MCP Acids for formulating or manufacturing.

See Products Listings

CHIPMAN CHEMICAL COMPANY
Head Office: Burlingame, California

Nationwide Service . . . Eight Offices and Plants

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1371 CHIPCO CLORGRAN 10, (Granular) Chlordane 10%-I-Chipman
1372 CHIPCO CLORGRAN 25 (granular) Chlordane 25%-I-Chipman
1373 CHIPCO DACTHAL CRABGRASS PREVENTIVE, (granular) Dimethyl ester of tetrachloroterephthalic acid 4.92%-H-Chipman
1374 CHIPCO DDT 2LX, DDT 2 lbs./gal.-I-Chipman
1375 CHIPCO DDT W-50, DDT 50%-I-Chipman
1376 CHIPCO DIELDRIN L5L, Dieldrin 1.5 lbs./gal.-I-Chipman
1377 CHIPCO DIELDRIN W-50, Dieldrin 50%-I-Chipman
1378 CHIPCO DIELGRAN 5, (granular) dieldrin 5%-I-Chipman
1379 CHIPCO DIELGRAN 10, (granular) Dieldrin 10%-I-Chipman
1380 CHIPCO FORE NO. 3 LAWN AND TURF FUNGICIDE, Cadmium carbonate 5%, folpet 60%, thiram 10%-F-Chipman
1381 CHIPCO HEPTACHLOR 2L, Heptachlor 2 lbs./gal.-I-Chipman
1382 CHIPCO HEPTAGRAN 2½ (granular) heptachlor 2.5%-I-Chipman
1383 CHIPCO HEPTAGRAN 10, (granular) Heptachlor 10%-I-Chipman
1384 CHIPCO HI-TEST LEAD ARSENATE, Di-ortho (acid) lead arsenate 98%-I-Chipman
1385 CHIPCO MALATHION 50% LIQUID, Malathion 50%-I-Chipman
1385.50 CHIPCO MCPP TURF HERBICIDE, Dimethylamine salt of 2-(2-methyl-4-chlorophenoxy) propionic acid (dextro rotary isomer) 26.1%-H-Chipman
1386 CHIPCO TURF HERBICIDE, 2,4-D 22.4%, 2,4,5-T 16.2%-H-Chipman
1387 CHIPCO TURF HERBICIDE "D", Dimethylamine salt, contains 4 lbs. 2,4-D/gal.-H-Chipman
1387.50 CHIPCO TURF HERBICIDE "T", Triethylamine salt of 2,4,5-T 56.7%-H-Chipman
1388 CHIPCOTE 25, Methyl mercury nitrile 5.41% (2.5% mercury)-ST-Chipman
1389 CHIPCOTE 75, Methyl mercury nitrile 1.85% (1.5% mercury)-ST-Chipman
1390 CHIP-KIL, Toxaphene 30.4%, DDT 20.4%, methyl parathion 7.63%-I-Chipman
1391 CHIP-KIL "S", Terpene polychlorinate 30.7%, DDT 20.5%, methyl parathion 7.6%-I-Chipman
1392 CHIPMAN ADDITIVE, Spreader, depositor, penetrant-A-Chipman
1393 CHIPMAN AGRI-MYCIN 500 ANTIBIOTIC COPPER SPRAY POWDER, Streptomycin 1.76%, copper 42.4%, oxytetracycline (terramycin brand) 0.18%-F-Chipman
1394 CHIPMAN AGRI-MYCIN 100 ANTIBIOTIC SPRAY POWDER, Oxytetracycline (terramycin brand) 1.5%, streptomycin 15%-F-Chipman
1395 CHIPMAN ALDRIN 2L, 2 lbs. aldrin/gal.-I-Chipman
1396 CHIPMAN ALDRIN 3L, Aldrin 3 lbs./gal.-I-Chipman
1397 CHIPMAN ALDRIN 4L, 4 lbs. aldrin/gal.-I-Chipman
1398 CHIPMAN 5% ALDRIN DUST-I-Chipman (Can.)
1399 CHIPMAN 20% ALDRIN GRANULAR-I-Chipman (Can.)
1400 CHIPMAN ALDRIN W-50-I-Chipman
1401 CHIPMAN 50% ALDRIN WETTABLE POWDER-I-ST-Chipman (Can.)
1402 CHIPMAN AMINE 20, Dimethyl amine salts 2,4-D 12% acid equiv. 20 oz./Imp. gal.-H-Chipman (Can.)
1403 CHIPMAN AMINE 80, Dimethyl amine salts 2,4-D acid equiv. 80 oz./Imp. gal.-H-Chipman (Can.)
1404 CHIPMAN ANT & GRUB KILLER, Aldrin 5%-I-Chipman (Can.)
1405 CHIPMAN ARAMITE® 15% SPRAY POWDER 2-(*p-tert* Butylphenoxy) isopropyl 2-chloroethyl sulfite 15%-I-Chipman
1406 CHIPMAN ARSENIC ACID 75, (desiccant)-H-Chipman
1407 CHIPMAN BASIC COPPER FUNGICIDE, Copper 53% (basic copper sulfate)-F-Chipman
1408 CHIPMAN BRUSH KILLER 76, Isooctyl ester 2,4-D acid equiv. 38.4 oz./Imp. gal. isooctyl ester 2,4,5-T acid equiv. 38.4 oz./Imp. gal.-H-Chipman (Can.)
1409 CHIPMAN CALCIUM ARSENATE, Tri-calcium arsenate 70%-I-Chipman
1410 CHIPMAN 7½ CAPTAN DUST-F-Chipman (Can.)
1411 CHIPMAN CHLORAX 40, Monuron, sodium chlorate 40%, sodium metaborate 58%-H-Chipman
1412 CHIPMAN CHLORAX LIQUID, Sodium chlorate 18.5%, sodium metaborate 10%-H-Chipman
1413 CHIPMAN CHLORDANE 5% DUST-I-Chipman
1414 CHIPMAN CHLORDANE 10% DUST-I-Chipman
1415 CHIPMAN CHLORDANE 4L, Chlordane 4 lbs./gal.-I-Chipman
1416 CHIPMAN CHLORDANE 8L, 8 lbs. chlordane/gal.-I-Chipman
1417 CHIPMAN CHLORDANE W-40-I-Chipman
1418 CHIPMAN CHLORDANE W-50-I-Chipman
1419 CHIPMAN CUCURBIT DUST, Zineb 3.9%, methoxychlor 3%-FI-Chipman (Can.)
1420 CHIPMAN 2,4-D AMINE NO. 2 (WEED KILLER), Alkanolamine salts of 2,4-D contains 4 lbs./gal. 2,4,-D acid-H-Chipman

1421 CHIPMAN 2,4-D AMINE NO. 4 (WEED KILLER), Dimethylamine salts of 2,4-D contains 4 lbs./gal. 2,4-D acid-H-Chipman
1422 CHIPMAN 2,4-D AMINE NO. 6', Dimethylamine salt, contains 6 lbs. 2,4-D/gal.-H-Chipman
1423 CHIPMAN 2,4-D BUTYL ESTER 6 (WEED KILLER), Contains 6 lbs. 2,4-D acid/gal.-H-Chipman
1424 CHIPMAN 2,4-D BUTYL ESTER 6E, Butyl ester 2,4-D 6 lbs./gal.-H-Chipman
1425 CHIPMAN 2,4-D BUTYL ESTER 265E, Butyl ester 2,4-D 2.65 lbs./gal.-H-Chipman
1426 CHIPMAN 2,4-D BUTYL ESTER 6 (WEED KILLER), Contains 6 lbs. 2,4D acid/gal.-H-Chipman
1427 CHIPMAN 2,4-D ESTER 5% DUST-H-Chipman
1428 CHIPMAN 2,4-D ESTER 8% DUST-H-Chipman
1429 CHIPMAN 2,4-D ESTER 10% DUST-H-Chipman
1430 CHIPMAN 2,4-D GRAN 20, 2,4-D isooctyl ester 20.17% equiv. to 20% 2,4-D acid-H-Chipman
1431 CHIPMAN 2,4-D ISOPROPYL ESTER 6E, 2,4-D isopropyl ester, contains 6 lbs./gal.-H-Chipman
1432 CHIPMAN 2,4-D ISOPROPYL ESTER 334E, Isopropyl ester 2,4-D 3.34 lbs. acid equiv./gal.-H-Chipman
1433 CHIPMAN 2,4-D LOW VOLATILE ESTER 4 L, Isooctyl ester 2,4-D, 4 lbs. 2,4-D acid/-gal.-H-Chipman
1434 CHIPMAN 2,4-D LOW VOLATILE ESTER 6L, 2,4-D iso-octyl ester, contains 6 lbs./gal.-H-Chipman
1435 CHIPMAN 7½ DDD DUST, TDE, 7.5%-I-Chipman (Can.)
1436 CHIPMAN 50% DDD W.P., TDE 50%-I-Chipman (Can.)
1437 CHIPMAN DDT 5% DUST-I-Chipman
1438 CHIPMAN DDT 10% DUST-I-Chipman
1439 CHIPMAN DDT CL-40, DDT 40% (colloidal)-I-Chipman
1440 CHIPMAN DDT D-50-IC-Chipman
1441 CHIPMAN DDT 2IX, 2 lbs. Tech. DDT/gal.-I-Chipman
1442 CHIPMAN DDT 2L, 2 lbs. Tech. DDT/gal.-I-Chipman
1443 CHIPMAN DDT-METHYL PARATHION 3-.75, DDT 3 lbs./gal., methyl parathion 0.75 lb./gal.-I-Chipman
1444 CHIPMAN DDT 30% OIL CONCENTRATE-I-Chipman
1445 CHIPMAN DDT 5%-PARATHION 1% DUST-I-Chipman
1446 CHIPMAN DDT 10%-SULFUR 40% DUST-FI-Chipman
1447 CHIPMAN DDT 10%-SULFUR 50% DUST-FI-Chipman
1448 CHIPMAN DDT W-50-I-Chipman
1449 CHIPMAN DDT W-75, DDT 75%-I-Chipman
1450 CHIPMAN DDT-ZINEB DUST, DDT 6%, zineb 3.9%-FI-Chipman (Can.)
1451 CHIPMAN DIBROM® 8L, 1,2-Dibromo-2,2-dichloroethyl dimethyl phosphate 8 lbs./-gal.-I-Chipman
1452 CHIPMAN DIELDRIN 15L, 1.5 lbs. dieldrin/gal.-I-Chipman
1453 CHIPMAN DIELDRIN 16L, dieldrin 1.6 lb./gal.-I-Chipman
1454 CHIPMAN DIELDRIN W-50, Dieldrin 50%-I-Chipman
1455 CHIPMAN DIELDRIN W-75, Dieldrin 75%-ST-Chipman
1456 CHIPMAN ENDRIN CL-30, Endrin 30% (colloidal)-I-Chipman
1457 CHIPMAN 1% ENDRIN DUST-I-Chipman
1458 CHIPMAN 20% ENDRIN EMULSIFIABLE CONC.-I-Chipman (Can.)
1459 CHIPMAN ENDRIN 16L, 1.6 lbs. endrin/gal.-I-Chipman
1460 CHIPMAN ENDRIN W-75, Endrin 75%-I-Chipman
1461 CHIPMAN ESTER 64, Mixed butyl esters 2,4-D acid equiv. 64 oz./Imp. gal-H-Chipman (Can.)
1462 CHIPMAN ESTER 80 (LOW VOLATILE), Isooctyl ester 2,4-D acid equiv. 80 oz./Imp. gal.-H-Chipman (Can.)
1463 CHIPMAN ESTER 128, Mixed butyl esters 2,4-D acid equiv. 128 oz./Imp. gal.-H-Chipman (Can.)
1464 CHIPMAN FERBAM DUST, Ferbam 10%-F-Chipman (Can.)
1465 CHIPMAN FERBAM W-76, Ferbam 76%-F-Chipman
1466 CHIPMAN FLOWABLE PARATHION 8L, Parathion 8 lbs./gal.-I-Chipman
1467 CHIPMAN HEPTACHLOR 2L, 2 lbs. Heptachlor/gal.-I-Chipman
1468 CHIPMAN HEPTACHLOR W-25, Heptachlor 25%-I-Chipman
1469 CHIPMAN HEPTACHLOR W-50, Heptachlor 50%-ST-Chipman
1470 CHIPMAN HI-TEST LEAD ARSENATE, Lead arsenate 98%-I-Chipman
1471 CHIPMAN IPC 2L, IPC 2 lbs./gal.-H-Chipman
1472 CHIPMAN IPC 3L, IPC 3 lbs./gal.-H-Chipman
1473 CHIPMAN IPC 400, IPC 40%-H-Chipman

1474 CHIPMAN LINDANE CL-40, Lindane 40% (colloidal)-I-Chipman
1475 CHIPMAN LINDANE 16L, Lindane 16 lbs./gal.-I-Chipman
1476 CHIPMAN LINDANE W-25, Lindane 25%-I-Chipman
1477 CHIPMAN 25% LINDANE WETTABLE POWDER, Gamma BHC 25%-I-Chipman (Can.)
1478 CHIPMAN LIQUID WIREWORM SEED DRESSING, Heptachlor 2.5 lb./gal.-ST-Chipman (Can.)
1479 CHIPMAN LOUSE POWDER, Rotenone 0.5%, I-Chipman (Can.)
1480 CHIPMAN LOW VOLATILE BRUSH KILLER NO. 2, 2,4-D and 2,4,5-T acids 2 lbs. each/gal.-H-Chipman
1481 CHIPMAN LOW VOLATILE BRUSH KILLER NO. 3, 2,4-D and 2,4,5-T, 3 lbs. each/gal.-H-Chipman
1482 CHIPMAN MALATHION CL-40, Malathion 40% (colloidal)-I-Chipman
1483 CHIPMAN MALATHION 4% DUST-I-Chipman
1484 CHIPMAN MALATHION 5% DUST-I-Chipman
1485 CHIPMAN MALATHION 4.4L, Malathion 4.4 lbs./gal.-I-Chipman
1486 CHIPMAN MALATHION 5L, 5 lbs. malathion/gal.-I-Chipman
1487 CHIPMAN MALATHION 8L, 8 lbs. malathion/gal.-I-Chipman
1488 CHIPMAN MALATHION 50% LIQUID, Malathion 50%-I-Chipman
1489 CHIPMAN MALATHION W-25, Malathion 25%-I-Chipman
1490 CHIPMAN MERCURIAL APPLE SPRAY, Mercury equiv. 2.5%-F-Chipman (Can.)
1491 CHIPMAN METHYL PARATHION 2L, 2 lbs. Methyl parathion/gal.-I-Chipman
1492 CHIPMAN METHYL PARATHION 4L, Methyl parathion 4 lbs./gal.-I-Chipman
1493 CHIPMAN NABAM LIQUID-F-Chipman (Can.)
1494 CHIPMAN PARATHION CL-40, Parathion 40% (colloidal)-I-Chipman
1495 CHIPMAN PARATHION 1% DUST-I-Chipman
1496 CHIPMAN PARATHION 2% DUST-I-Chipman
1497 CHIPMAN PARATHION 5% DUST-I-Chipman
1498 CHIPMAN PARATHION 2L, Parathion 2 lbs./gal.-I-Chipman
1499 CHIPMAN PARATHION 4L, Parathion 4 lbs./gal.-I-Chipman
1500 CHIPMAN PARATHION 15% SPRAY POWDER-I-Chipman
1501 CHIPMAN PARATHION 25% SPRAY POWDER-I-Chipman
1502 CHIPMAN PARIS GREEN, Copper aceto arsenite 97.1%-I-Chipman
1503 CHIPMAN PHOSDRIN® 2L, 2-Carbomethoxy-1-propene-2yl-dimethyl phosphate 2 lbs./gal.-I-Chipman
1504 CHIPMAN PHOSDRIN® 4L, 4 lbs./gal., 2-Carbomethoxy-1-propene-2yl-dimethyl phosphate-I-Chipman
1505 CHIPMAN PHYGON® XL, Dichlone 50%-F-Chipman
1506 CHIPMAN PHYGON®-XL-50, Dichlone 5%-F-Chipman (Can.)
1507 CHIPMAN POTATO DUST SPECIAL, Copper 7% (copper hydroxysulfate), DDT 5%-FI-Chipman
1508 CHIPMAN RAT-RID BAIT, Warfarin 0.025%-R-Chipman (Can.)
1509 CHIPMAN ROTENONE 5% SPRAY POWDER-I-Chipman
1510 CHIPMAN SILVEX 4L, Silvex 4 lbs./gal.-H-Chipman
1511 CHIPMAN SODIUM ARSENATE (DRY POWDER), Sodium arsenate 97.07%-H-I-Chipman
1512 CHIPMAN SODIUM CHLORATE 99%-H-Chipman
1513 CHIPMAN SODIUM TCA 94%-H-Chipman
1514 CHIPMAN STANDARD LEAD ARSENATE 10% DUST-I-Chipman
1515 CHIPMAN STANDARD LEAD ARSENATE 40% DUST-I-Chipman
1516 CHIPMAN STOCK SPRAY NO. 5, Toxaphene 5%-I-Chipman
1517 CHIPMAN STOCK SPRAY NO. 15, Pyrethrins 0.03%, piperonyl butoxide 0.06%, N-octyl bicyclo-heptene dicarboximide 0.1%, 2,3,4,5-bis (-butylene) tetrahydrofurfurol 0.2%-I-Chipman
1518 CHIPMAN STOCK SPRAY NO. 20, Pyrethrins 0.1%, piperonyl butoxide 1%-I-Chipman
1519 CHIPMAN STOCK SPRAY 100, BHC 1.32%, Toxaphene 44.15%-I-Chipman
1520 CHIPMAN STOCK SPRAY 150, Toxaphene 6 lbs./gal.
1521 CHIPMAN STOCK SPRAY 800, Lindane 25%, malathion 5% (colloidal)
1522 CHIPMAN STOCK SPRAY SPECIAL, Toxaphene 4 lbs./gal., malathion .47 lb./gal.-I-Chipman
1523 CHIPMAN STREPTOMYCIN 500 DUST, Streptomycin 0.05%-F-Chipman
1524 CHIPMAN STROBANE® 6L, Terpene polychlorinates 60.9%-I-Chipman
1525 CHIPMAN STROBANE® DDT-4-2 LIQUID, DDT 20%, terpene polychlorinate 40%-I-Chipman
1526 CHIPMAN SYSTOX®, Demeton 2 lbs./gal.-IS-Chipman
1527 CHIPMAN 2,4,5-T AMINE 4L, 2,4,5-T 4 lbs. gal.-H-Chipman

1528 CHIPMAN 2,4,5-T LOW VOLATILE ESTER 4L, Isooctyl ester 2,4,5-T contains 4 lbs. 2,4,5-T acid/gal.-H-Chipman
1529 CHIPMAN 2,4,5-T LOW VOLATILE ESTER 6L, 2,4,5-T iso-octyl ester, 6 lbs./gal.-H-Chipman
1530 CHIPMAN 2,4,5-T 76 (LOW VOL.), 2,4,5-T acid equiv. 76.8 oz./Imp. gal.-H-Chipman (Can.)
1531 CHIPMAN TCA, Sodium TCA 94%-H-Chipman (Can.)
1532 CHIPMAN TEPP 21, TEPP 20%, other ethyl phosphate 30%-I-Chipman
1533 CHIPMAN TEPP 4L, TEPP 40%, other ethyl phosphate 60%-I-Chipman
1534 CHIPMAN THIRAM SF 75, Thiram 75%-F-Chipman (Can.)
1535 CHIPMAN TOMATO DUST, Tri-calcium arsenate 14%, copper 7% (copper hydroxysulfate)-FI-Chipman
1536 CHIPMAN TOP KILLER 128, Arsenic 34.7% (8 lbs. arsenic trioxide/gal.)-H-Chipman (Can.)
1537 CHIPMAN TOX-DDT 4-2 LIQUID, Contains 4 lbs. toxaphene and 2 lbs. DDT/gal.-I-Chipman
1538 CHIPMAN TOXAPHENE 10% DUST-I-Chipman
1539 CHIPMAN TOXAPHENE 20% DUST-I-Chipman
1540 CHIPMAN TOXAPHENE 8L, Toxaphene 8 lbs./gal.-I-Chipman
1541 CHIPMAN TOXAPHENE 60% LIQUID, Contains 6 lbs. toxaphene/gal.-I-Chipman
1542 CHIPMAN TOXAPHENE 40% SPRAY POWDER-I-Chipman
1544 CHIPMAN TOXAPHENE 20%-SULFUR 40% DUST-FI-Chipman
1545 CHIPMAN WETTABLE SULFUR, Sulfur 98.5%-FI-Chipman
1546 CHIPMAN X-77, Spreader Activator-A-Chipman
1547 CHIPMAN ZINEB DUST, Zineb 3.9%-F-Chipman (Can.)
1548 CHIPMAN ZINEB W-70, Zineb 70%-F-Chipman
CHLORANIL = TETRACHLOROQUINONE
1549 CHLORDANE, TECH., 1,2,4,5,6,7,8,8a-octachloro-4-7-methano-3a,4,7,7a-tetrachydroindane-IC-Velsicol
1549.50 CHLORDEC-4 EMULSIFIABLE, Chlordane 4 lb./gal.-I-Chapman
1550 CHLOREA 3, Sodium chlorate 40%, sodium metaborate 54%, monuron 2.4%-H-Chipman
1551 CHLOREA 125, Sodium chlorate 40%, sodium metaborate 57%, monuron 1%-H-Chipman
1552 CHLOREA GRANULAR, Sodium chlorate 40%, sodium metaborate 51%, monuron 2.4%-H-Chipman
1553 CHLOREA GRANULAR, Sodium chlorate 40%, sodium metaborate 51%, monuron 2.4%-H-Chipman (Can.)
CHLORBENSIDE = *p*-CHLOROBENZYL *p*-CHLOROPHENYL SULFIDE
CHLOROBENZILATE = ETHYL 4,4'-DICHLOROBENZILATE
1553.50 CHLOREA-K GRANULAR, Diuron 2.4%, sodium chlorate 40%, sodium metaborate 51%-H-Chipman
1554 CHLOROCIDE, 20% CHLORDANE EMULSION CONCENTRATE, oil 77.8%, chlordane 20%-I-Lester
CHLORO IPC = ISOPROPYL N-(3-CHLOROPHENYL) CARBAMATE
1555 CHLOROPHEN 49-160, 86% Pentachlorophenol-WP-Reichhold
1556 CHLOROPHEN 49-161, 84% Pentachlorophenol, 2% oil added to prevent dusting-WP-Reichhold
1557 CHLOROPHEN 49-162, 86% Pentachlorophenol-WP-Reichhold
1558 CHLOROPHEN 49-163, 75% Sodium pentachlorophenate, 13% sodium salts of other chlorinated phenols-H-Reichhold
p-CHLOROPHENYL PHENYL SULFONE—see STAUFFER SULPHENONE
1559 CHLORPAX EMULSION CONCENTRATE, Chlordane 74.1%, oil 15.9%-I-Bioceria Corp.
1560 CHLORSCENT, Concentrated reodorant for insecticide formulations-A-Aromatic
1560.50 CHLORVAR GRANULAR, Bromacil 1.6%, sodium chlorate 40%, sodium metaborate 51%-H-Chipman
1562 CIODRIN®, Insecticide, Technical (formerly SD 4294) purity as labeled. Approximate CIODRIN content 85%w. (equivalent to 85% w *alpha*-methylbenzyl 3-(dimethoxyphosphinyloxy) -*cis*-crotonate-IC-Shell
1563 CLEARTOX, Oil, pentachlorophenol 5%-WP-Lorenz
1564 CLEARTOX NO. 16 CONC., Methyl naphthalenes 19%, oil 22%, pentachlorophenol 59%-WP-Lorenz
1565 CLORGRAN 5, Chlordane 5% (granular)-I-Chipman
1566 CLORGRAN 10, Chlordane 10% (granular)-I-Chipman
1567 CLORGRAN 25, Chlordane 25% (granular)-I-Chipman
1568 CLOUT, Di Sodium methyl arsonate hexahydrate 2.5%-H-Scott

1568.50 CLOVER CHEMICAL PHENOTHIAZINE, Anthelmintic-F-Clover Chem.
1569 CLOVER CHEMICAL WATER SOLUBLE FERTILIZERS, For mixing with pesticides various formulations-N-Clover Chemical
1569.30 CMA SPRAY WETTABLE, Copper 40%, manganese 9.85%, zinc 3.75%-FN-Kilgore
1569.40 CMZ BEAN SPRAY, Copper 4.77%, Mang 7.38%, sulfur 53.55%, zinc 5.20%-FN-Kilgore
1569.50 CMZ-Fe GARDEN SPRAY WETTABLE, Copper 17.5%, iron 5.50%, manganese 16.50%, zinc 2.50%-FN-Kilgore
1569.60 CMZ-Fe SPRAY WETTABLE, Copper 26.5%, iron 1%, manganese 3.9%, zinc 16.1% FN-Kilgore
1569.70 COLLOIDAL Z-1, Sodium sulphonates-A-Colloidal
1569.80 COLOR-SET®, -(2, 4,5-Trichlorophenoxy) propionic acid triethanolamine salt 10.6%-PH-Dow
1572 COLUMBIA "GRADE 98V" INSECTICIDE DILUENT, (Pulverized Limestone)-D-Columbia Quarry
1573 COLUMBIA PULVERIZED LIMESTONE, Diluent for pesticides-D-Columbia Quarry
1577 COMMERCIAL MINERALS SOAPSTONE-D-Com. Min.
1578 COMMERCIAL MINERALS TALC-D-Com. Min
1579 COMMERCIAL MINERALS WHITING (Calcium Carbonate)-D-Com. Min.
1580 COMMON SENSE COCKROACH PREPARATION, Phosphorus-IB-Common Sense
1581 COMMON SENSE INSECT SPRAY, Pyrethrins-I-Common Sense
1582 COMMON SENSE INSECT SPRAY WITH DDT, Pyrethrins, DDT-I-Common Sense
1583 COMMON SENSE RAT PREPARATION, Phosphorus-R-Common Sense
1584 CONRAY ALDRIN-I-Conray
1585 CONRAY ARSENIC 99%, Arsenic trioxide-IC-R-Conray
1586 CONRAY CHLORDANE-I-Conray
1587 CONRAY COPPER SULPHATE-F-Conray
1588 CONRAY DDT-IC-Conray
1589 CONRAY DIELDRIN-I-Conray
1590 CONRAY LEAD ARSENATE-I-Conray
1591 CONRAY LINDANE-IC-Conray
1592 CONRAY MALATHION-I-Conray
1593 CONRAY NICOTINE ALKALOID, 99%-IC-Conray
1594 CONRAY NICOTINE SULPHATE, 40%-I-Conray
1595 CONRAY PARADICHLOROBENZENE-IF-Conray
1596 CONRAY PARATHION-I-Conray
1597 CONRAY PARIS GREEN, Copper acetoarsenite-I-Conray
1598 CONRAY RED SQUILL-R-Conray
1599 CONRAY ROTENONE-I-Conray
1600 CONRAY SODIUM ARSENITE-H-Conray
1601 CONRAY SODIUM CHLORATE-H-Conray
1602 CONRAY STRYCHNINE-R-Conray
1603 CONRAY THALLIUM SULPHATE-R-Conray
1604 CONTINENTAL® CLAY-D-Vanderbilt
1604.50 CONTOURMATIC SPRAYER, Roadside maintenance-F-John Bean
1605 COOLEY-JET NOZZLES-E-Cooley
1606 COOLEY-MIST CONCENTRATE SPRAYER (Potts-Spencer model), Wheelbarrow and skid models-E-Cooley
1607 COOPERSOTE CREOSOTE OIL, Coal tar distillate, raw coal tar, coal tar acids-WP-Coopers Creek
1607.50 COPE®, Technical chlordane 8%-H-I-Scott
1609 COP-E-NATE, Copper naphthenate 20%-WP-Crown Prod.
1610 COP-O-ZINC 48%, Zinc 4%-F-N-Tenn. Corp.
COPPER ACETOARSENATE = PARIS GREEN
1611 COPPER-CURE, Copper naphthenate 20%, oil 80%-WP-Apperson Chem.
1612 COPPER HYDRO BORDO, (Copper hydroxysulfate) Copper 13%-F-Chipman
1613 COPPER OXIDE, 50% and 75% Cu-F-Sylvan
1614 COPPER SULFATE, 25% Copper, Sylvan
1616 COPPO KING NAPHTHENATE PRESERVATIVE, Oil 90%, copper naphthenate 10%-WP-King Chemical
1617 COP-R-NAP, Copper naphthenate 27% plus water repellent-WP-Osmose
1618 CO-RAL® WETTABLE POWDER, O,O-Diethyl O-(3-chloro-4-methyl-7-courmainyl) phosphorothioate-IS-Chemagro
1619 CORNELL 46% CHLORDANE EMULSIFIABLE-I-Cornell
1620 CORNELL 66% CHLORDANE EMULSIFIABLE-I-Cornell
1621 CORNELL 72% CHLORDANE EMULSIFIABLE-I-Cornell
1622 CORNELL 20% CHLORDANE OIL CONC., Chlordane 20%, oil 80%-I-Cornell
1623 CORNELL CHLORDANE RESIDUAL SPRAY, Chlordane 2%, oil 98%-I-Cornell
1624 CORNELL 25% DDT EMULSIFIABLE CONC.-I-Cornell

1625 CORNELL 30% DDT OIL SOLUTION-I-Cornell
1626 CORNELL 5% DDT RESIDUAL SPRAY-I-Cornell
1627 CORNELL DIELDRIN EC, Dieldrin 18.6%-I-Cornell
1628 CORNELL 20% DIELDRIN OIL SOLUTION-I-Cornell
1629 CORNELL DIELDRIN RESIDUAL SPRAY, Dieldrin 0.5%-I-Cornell
1630 CORNELL DIFACE, DDVP 0.5%-IB-Cornell
1631 CORNELL DOG GARD, Piperonyl butoxide, polyoxyethylene sorbitol mixed ether ester, pyrethrins-I-Cornell
1632 CORNELL EQ 53 MOTHPROOFER, DDT-MP-Cornell
1633 CORNELL FOOD INDUSTRY SPRAY, Piperonyl butoxide, polyoxyethylene sorbitol mixed ether ester, pyrethrins-I-Cornell
1634 CORNELL GRAIN GARD, Piperonyl butoxide, pyrethrins-I-Cornell
1635 CORNELL 20% LINDANE EMULSIFIABLE-I-Cornell
1636 CORNELL LIVESTOCK & BARN SPRAY, Piperonyl butoxide, polyoxyethylene sorbitol mixed ether ester, pyrethrins-I-Cornell
1637 CORNELL LYCTICIDE, Chlordane, oil, pentachlorophenol-I-Cornell
1638 CORNELL MALATHION 5 LB. EMULSIFIABLE-I-Cornell
1639 CORNELL MAL-LIN FOG SPRAY, Lindane, malathion, oil-I-Cornell
1640 CORNELL PENTA-GARD 5, Pentachlorophenol 5%-WP-Cornell
1641 CORNELL PENTA-GARD 40, Pentaclorophenol 40%-WP-Cornell
1642 CORNELL PYRENONE® FOG SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Cornell
1643 CORNELL PYRENONE® INSECT SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Cornell
1644 CORNELL PYRENONE® SPACE SPRAY, Oil, piperonyl butoxide, pyrethrins,-I-Cornell
1644.50 CORNELL RABBIT & DEER REPELLENT, Thiram-ANR-Cornell
1644.75 CORNELL RABBIT & DEER REPELLENT CONCENTRATE, Thiram-ANR-Cornell
1645 CORNELL ROACH GARD, Chlordane, diazinon, oil, piperonyl butoxide, pyrethrins-I-Cornell
1646 CORNELL SAFE GARD, Oil, piperonyl butoxide, pyrethrins-I-Cornell
1647 CORNELL SAFE-T-FOG, Oil, piperonyl butoxide, pyrethrins-I-Cornell
1648 CORNELL VAPONA® EMULSIFIABLE, DDVP-22.88%-I-Cornell
1649 CORNELL VAPONA® FOG INSECTICIDE, DDVP, trichlorethane, oil-I-Cornell
1650 CORNELL VAPONA® POINT FIVE, 0.5% DDVP-I-Cornell
1651 CORNELL VAPONA® TWENTY, DDVP 20%-I-Cornell
1652 CORNELL WO5 RODENTICIDE, Warfarin 0.5%-R-Cornell
1653 CORNELL WO25 RODENTICIDE, Warfarin 0.025%-R-Cornell
1654 COROMATE, Ferbam 76%-F-Corona
1655 COROMERC, Phenylmercury 10%-F-Corona
1656 COROMERC LIQUID, Phenylmercury 10%-F-Corona
1657 CORONA 26, Copper 26%-F-Corona
1658 CORONA 53, Copper 53%-F-Corona
1659 CORONA ARSENATE OF LEAD-I-Corona
1660 CORONA BHC, Gamma BHC 10%-I-Corona
1661 CORONA COPPERCARB NO. 20, Copper carbonate 20%-ST-Corona
1662 CORONA 50-50 W DDT, DDT 50%-I-Corona
1663 CORONA 75-25 W DDT, DDT 75%-I-Corona
1664 CORONA 10% DDT DUST-I-Corona
1665 CORONA DIELDRIN 50% WETTABLE POWDER-I-Corona
1666 CORONA DINITRO POWDER, DNOC 40%-I-Corona
1667 CORONA DUST NO. 5, DDT 5%-I-Corona
1668 CORONA DUST NO. 7, Copper 7%-F-Corona
1669 CORONA 1% ENDRIN DUST-I-Corona
1670 CORONA 4 LB. FLOWABLE PHOSDRIN®, 2-Carbomethoxy-1-propene-2yl-dimethyl phosphate-I-Corona
1671 CORONA GLYOXIDE DRY, 2-Heptadecylimidazoline 70% W.P.-F-Corona
1672 CORONA 4% MALATHION DUST-I-Corona
1673 CORONA MALATHION 25% WETTABLE POWDER-I-Corona
1674 CORONA 625 MALATHION 62.5% WETTABLE POWDER-I-Corona
1675 CORONA MICRONIZED DUSTING SULFUR, Sulfur 90%-FI-Corona
1676 CORONA MICRONIZED SULFUR-PHYGON® DUST, Sulfur 90%, dichlone 0.75%-F-Corona
1677 CORONA MICRONIZED WETTABLE SULFUR, Sulfur 95%-FI-Corona
1678 CORONA PARATHION DUSTLESS, Parathion 15%-I-Corona
1679 CORONA PHYBAM-S, Sulfur 71%, ferbam 6.5%, dichlone 3%-FI-Corona
1680 CORONA 3% PHYGON® DUST, Dichlone 3%-F-Corona
1681 CORONA PHYGON® XL, Dichlone 50%-F-Corona

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1682 CORONA POTATO SPRAY MIXTURE, DDT 16%, tribasic copper sulfate 33%-FI-Corona
1683 CORONA RHOTHANE® 50% WETTABLE POWDER, TDE 50%-I-Corona
1685 CORONA 1% ROTENONE DUST-I-Corona
1686 CORONA SUPERFINE DDT 75% WETTABLE POWDER-I-Corona
1687 CORONA SUPERFINE ENDRIN 75% WETTABLE POWDER-I-Corona
1688 COROSUL S, Sulfur 95%-FI-Corona
1689 COROTRAN, Ovex 50%-I-Corona
1690 CORRY'S SLUG & SNAIL DEATH, Metaldehyde 2%-IB-Matson
1690.50 COTN (DUST), DDT 7%, methyl parathion 2½%-I-Daly-Herring
1690.75 COTN E.C., DDT 2 lb., methyl parathion 1 lb. I-Daly-Herring
1691 COTTON STATES BEAN DUST, 2% 1-Naphthyl N-methylcarbamate-I-Cotton States
1692 COTTON STATES 3% GAMMA BHC-5% DDT-40% SULFUR DUST-FI-Cotton States
1693 COTTON STATES 10% CHLORDANE DUST-I-Cotton States
1694 COTTON STATES 8 LB. CHLORDANE EMULSIFIABLE-I-Cotton States
1695 COTTON STATES 45% CHLORDANE EMULSIFIABLE-I-Cotton States
1696 COTTON STATES 2% DIELDRIN DUST I-Cotton States
1697 COTTON STATES 10% DIELDRIN GRANULES-I-Cotton States
1698 COTTON STATES 315 EMULSIFIABLE, 3 lb. DDT, 1.5 lb. methyl Parathion-I-Cotton States
1699 COTTON STATES #375 EMULSIFIABLE, 3 lb. DDT, 1 lb. methyl parathion-I-Cotton States
1700 COTTON STATES 25% EMULSIFIABLE METHYL PARATHION-I-Cotton States
1701 COTTON STATES 2% ENDRIN DUST-I-Cotton States
1702 COTTON STATES ENDRIN EMULSIFIABLE 1.6 lb.-I-Cotton States
1703 COTTON STATES 2% ENDRIN GRANULES-I-Cotton States
1704 COTTON STATES FLEA GRANULES, 3% Gamma BHC, 5% DDT-I-Cotton States
1705 COTTON STATES 10%HEPTACHLOR GRANULES-I-Cotton States
1706 COTTON STATES KETOKIL NO. 2 EMULSIFIABLE, DDT 2 lbs.-I-Cotton States
1707 COTTON STATES KETOKIL NO. 3, DDT 3 lbs. emulsifiable-I-Cotton States
1708 COTTON STATES KETOKIL NO. 6 EMULSIFIABLE, Toxaphene 6 lbs.-I-Cotton States
1709 COTTON STATES KETOKIL NO. 18 EMULSIFIABLE Aldrin 2 lbs-I-Cotton States
1710 COTTON STATES KETOKIL NO. 42 EMULSIFIABLE, DDT 2 lbs. Toxaphene 4 lbs.-I-Cotton States
1711 COTTON STATES KETOKIL NO. 97 EMULSIFIABLE, Dieldrin 1.5 lb.-I-Cotton States
1712 COTTON STATES 5% MALATHION DUST-I-Cotton States
1713 COTTON STATES MALATHION EMULSIFIABLE 57, Malathion 57%, oil 35%-I-Cotton States
1714 COTTON STATES 2½% METHYL PARATHION, 10% DDT dust-I-Cotton States
1715 COTTON STATES 2½% METHYL PARATHION-5% DDT-I-Cotton States
1716 COTTON STATES 5-5 METHYL PARATHION-DDT DUST-I-Cotton States
1717 COTTON STATES 5-10 METHYL PARATHION-DDT DUST-I-Cotton States
1718 COTTON STATES 4 LB. METHYL PARATHION EMULSIFIABLE-I-Cotton States
1719 COTTON STATES 216 MP-ENDRIN, Methyl parathion 22.5%, endrin 17.5%-I-Cotton States
1720 COTTON STATES 1% PARATHION DUST-I-Cotton States
1721 COTTON STATES 25% PARATHION EMULSIFIABLE, (2 lb./gal.)-I-Cotton States
1722 COTTON STATES 7½ SEVIN® DUST, 7.5% 1-Naphthyl-Methylcarbamate-I-Cotton States
1723 COTTON STATES 10% SEVIN® DUST-1-Naphthyl-N-methylcarbamate 10%-Cotton-States
1724 COTTON STATES 5% SEVIN® GARDEN DUST, 5% 1-Naphthyl N-Methylcarbamate-I-Cotton States
1725 COTTON STATES SEVIN® SUPER TOMATO DUST, 6% Zineb, 10% 1-Naphthyl N-methylcarbamate
1726 COTTON STATES ST. AUGUSTIN SPECIAL, Pentachloronitrobenzene 6.25%, DDT 10%-FI-Cotton States
1727 COTTON STATES TOXANE CATTLE SPRAY 15% Toxaphene, 5% malathion-I-Cotton States
1728 COTTON STATES 20% TOXAPHENE, 10% DDT dust-I-Cotton States
1729 COTTON STATES TOXAPHENE 20% DUST-I-Cotton States
1730 COTTON STATES TOXAPHENE 20%-40% DUST, Sulfur 40%, toxaphene 20%-FI-Cotton States
1731 COTTON STATES TURF-TEC D, BHC 3.07%, DDT 5.0%-I-Cotton States

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1732 COTTON STATES TURF-TEC T, Pentachloronitrobenzene 6.25%-F-Cotton States
1733 COTTON STATES VAPONA® 2 Em., 2 lb. DDVP (emulsifiable)-I-Cotton States
1734 COTTON STATES VAPONA® 2 OS, 2 lb. DDVP (oil solution)-I-Cotton States
1735 COTTON STATES VAPONA® FACE FLY SOLUTION, DDVP 0.2%-I-Cotton States
1736 COTTON STATES VEGETABLE DUST 5% 1-Naphthyl-N-methylcarbamate 5%, zineb 6%-FI-Cotton States
COUMACHLOR = 3-(*Alpha*-ACETONYL-4-CHLOROBENZYL)-4-HYDROXY-COUMARIN
COUMAFURYL = 3-(1-FURYL-2-ACETYLETHYL)-4-HYDROXYCOUMARIN
1737 COWFLY POWDER, Methoxychlor 10%-I-Howard
1739 COWPEST POWDER, Rotenone-I-Howard
1740 COWPEST SPRAY, 25% Methoxychlor-I-Howard
1741 COVER-ODOR, Odorant for pesticide manufacturing-A-Florasynth
1742 CPA CATTLE GRUB POWDER, Rotenone 1.6%, sulfur 45%-I-Cotton Prod.
1743 CPA 5% CHLORDANE DUST-I-Cotton Prod.
1744 CPA COPPER CRYOLITE DUST, Copper 7%, sodium fluoaluminate 35%-FI-Cotton Prod.
1745 CPA 6.5 COPPER DUST-F-Cotton Prod
1746 CPA 10-90 COPPER SULPHUR 3.4%, sulfur 90%-FI-Cotton Prod.
1747 CPA 2.5-5 COTTON DUST, Aldrin 2.5%, DDT 5%-I-Cotton Prod.
1750 CPA 3-5 COTTON DUST, BHC 3%, DDT 5%-I-Cotton Prod.
1752 CPA 3-5-40 COTTON DUST, BHC 3%, DDT 5%, sulfur 40%-FI-Cotton Prod.
1753 CPA 3-10 COTTON DUST, BHC 3%, DDT 10%-I-Cotton Prod.
1755 CPA 3-10-40 COTTON DUST, BHC 3%, DDT 10%, sulfur 40%-FI-Cotton Prod.
1756 CPA 3-20 COTTONDUST, (3% BHC 20% DDT)-I-Cotton Prod.
1757 CPA 20-5 COTTON DUST, DDT 5%, toxaphene 20%-I-Cotton Prod.
1759 CPA 20-10 COTTON DUST (20% Toxaphene-10% DDT)-I-Cotton Prod.
1760 CPA 20-40 COTTON DUST, Sulfur 40%, toxaphene 20%-FI-Cotton Prod.
1761 CPA 2½ DDT-COPPER-SULFUR DUST, Copper 3.4%, DDT 2.5%, sulfur 82%-FI-Cotton Prod.
1762 CPA 5% DDT-COPPER-SULFUR DUST, Copper 3.4%, DDT 5%, sulfur 76%-FI-Cotton Prod.
1763 CPA 10% DDT-COPPER-SULFUR PEANUT DUST, (3.4% Copper-73% Sulfur)-FI-Cotton Prod.
1764 CPA 5% DDT DUST-I-Cotton Prod.
1765 CPA 10% DDT DUST-I-Cotton Prod.
1766 CPA 2½% DDT-SULFUR DUST, DDT 2½%, sulfur 90%-FI-Cotton Prod.
1767 CPA 5% DDT SULFUR DUST, DDT 5%, sulfur 87%-FI-Cotton Prod.
1768 CPA 10% DDT-74% SULFUR, COTTON & PEANUT DUST-FI-Cotton. Prod.
1769 CPA 15% FERMATE DUST, Ferbam 11.4%-I-Cotton Prod.
1772 CPA 5% MALATHION DUST-I-Cotton Prod.
1773 CPA 10-5 MALATHION DUST, (10% Malathion-5%DDT)-I-Cotton Prod.
1773.50 CPA MANEB PEANUT DUST, Maneb 4%-I-Cotton Prod.
1774 CPA 2½-5 METHYL PARATHION DUST, 2½% Methyl parathion-5% DDT)-I-Cotton Prod.
1775 CPA 2½-10 METHYL PARATHION DUST (2½% Methyl Parathion-10% DDT)-I-Cotton Prod.
1776 CPA ONE-SHOT DUST NO. 1, Parathion 1%-I-Cotton Prod.
1777 CPA ONE-SHOT DUST NO. 2, Parathion 2%-I-Cotton Prod.
1778 CPA ONE-SHOT DUST NO. 2-5, Parathion 2%, TDE 5%-I-Cotton Prod.
1779 CPA ONE-SHOT DUST NO. 2-10, Parathion 2%, TDE 10%-I-Cotton Prod.
1780 CPA ONE-SHOT DUST NO. 5, Parathion 1%, TDE 5%-Cotton Prod.
1781 CPA ONE-SHOT DUST NO. 10, Parathion 1%, TDE 10%-I-Cotton Prod.
1782 CPA ONE-SHOT DUST NO. 15, Endrin 1.5%-I-Cotton Prod.
1783 CPA ONE-SHOT DUST NO. 20-2% ENDRIN-I-Cotton Prod.
1783.50 CPA ONE-SHOT POULTRY DUST, O,O-Diethyl O-3-chloro-4-methyl-1-oxo-2H-1-benzopyran-7-yl phosphorothioate 0.5%-I-Cotton Prod.
1783.75 CPA ONE-SHOT POULTRY, CATTLE, SWINE & PET DUST, Malathion 4%-I-Cotton Prod.
1784 CPA ONE-SHOT 5% ROTENONE DUST-I-Cotton Prod.
1785 CPA ONE-SHOT VEGETABLE DUST (6.5% Zineb-10% TDE)-FI-Cotton Prod.
1786 CPA ONE-SHOT ZP DUST, Parathion 1%, zineb 6.5%-FI-Cotton Prod.
1787 CPA ROTENONE NO. 100 DUST, Rotenone 1%-I-Cotton Prod.
1788 CPA SABADILLA DUST NO. 10-Sabadilla seed 10%-I-Cotton Prod.
1789 CPA SPECIAL COTTON DUST, Parathion 1%, toxaphene 20%-I-Cotton Prod.
1790 CPA 5% TDE DUST-I-Cotton Prod.
1791 CPA 10% TDE DUST-I-Cotton Prod.

1792 CPA 20% TOXAPHENE COTTON DUST-I-Cotton Prod.
1793 CPA 10% TOXAPHENE DUST-I-Cotton Prod.
1794 CPA 2% TRITHION® DUST, O,O-Diethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate-I-Cotton Prod.
1795 CPA ZINEB DUST NO. 10, Zineb 6.5%-F-Cotton Prod.
1795.50 CRAB BAN GRANULES, Oil, polychlorbicyclo-pentadiene isomers (Bandane) 7.5%-H-Tobacco States
1796 CRAB-E-RAD, Disodium methyl arsonate hexahydrate organoarsenical deriv.-H-Vineland
1797 CRAB-E-RAD 30, Disodium methyl arsonate 18.90%-H-Vineland
1797.50 CRAB-E-RAD 70 (HERBICIDE), Methanearsonic acid, sodium salt 34.66%-H-Vineland
1798 CRAB-E-RAD, PRE-EMERGENT AND POST-EMERGENT, Calcium propyl arsenate 24%-H-Vineland
1798.50 CRAB GRASS KILL, Methanearsonic acid, disodium salt, (DSMA) 20%-H-Thomp. Chem.
1800 CRAB-NOT, Potassium cyanate 86%-H-Nott
1801 CRAB-NOT AEROSOL, AMA & Silvex-H-Nott
1802 CRAG GLYODIN, 2-Heptadecyl glyoxalidine acetate in isopropanol 30% soln.-F-Union Carbide
1803 CRAG MYLONE® TECHNICAL GRADE, 3,5-Dimethyltetrahydro-1,3,5-2H-thiadiazine-2-thione 96%-F-Union Carbide
1807 CRANE'S ARGENTINE ANT-EX, Sodium arsenite 0.18%-I-Crane
1808 CRANE'S EARWIG KILLER, Chlordane 5%, Gamma BHC 1%-I-Crane
1809 CRANE'S M D P (MOTH DAMAGE PREVENTATIVE), Magnesium silico-fluoride 0.75%-MP-Crane
1810 CRANE'S RATAWAY, Warfarin 0.025%-R-Crane
1811 CREEK-O-NITE #6, Montmorillonite type carrier, diluent conditional, extender-D-Star Enterprises
1812 CREEK-O-NITE GRANULES, Montmorillonite type carrier for granular pesticides, herbicides, fungicides, etc.-D-Star Enterprises
1813 CREOLE BRAND PINE TAR-IR-Crown Prod.
1814 CRE-O-TOX ALTOX, Aldrin 50%-I-Cre-O-Tox
1815 CRE-O-TOX CHLORDANE 25% to 73%-I-Cre-O-Tox
1816 CRE-O-TOX WARFARIN FOR RATS AND MICE-R-Cre-O-Tox
1817 CRE-O-TOX A-10 WOOD PRESERVATIVE, Pentachlorophenol 40%-WP-Cre-O-Tox
1818 CROWLEY AEROSOL SOLVENT-D-Crowley
1819 CROWLEY ANTHRACENE OIL-WP-Crowley
1820 CROWLEY ASPHALTIC OILS-I-Crowley
1821 CROWLEY COAL TAR, ANR-WP-Crowley
1822 CROWLEY COAL TAR CRESOTE-WP-Crowley
1823 CROWLEY COAL TAR OILS, ANR-I-WP-Crowley
1824 CROWLEY CREOSOTE OIL, ANR-WP-Crowley
1825 CROWLEY CRESOLS-I-WP-Crowley
1826 CROWLEY CRESYLIC ACIDS, ANR-F-Crowley
1827 CROWLEY INSECTICIDE FOGGING OIL-D-Crowley
1828 CROWLEY METHYLATED AROMATIC SOLVENT-D-Crowley
1829 CROWLEY NAPHTHA, Hi-Flash-D-Crowley
1830 CROWLEY NAPHTHALENE-IF-Crowley
1831 CROWLEY PETROLEUM AIRPLANE SPRAY SOLVENT-D-Crowley
1832 CROWLEY PETROLEUM AROMATIC SOLVENT-D-Crowley
1833 CROWLEY PETROLEUM SEMI-REFINED AROMATIC SOLVENT-D-Crowley
1834 CROWLEY PHENOLS-F-Crowley
1835 CROWLEY SAF-T-SOL-D-Crowley
1836 CROWLEY TAR ACID OILS-I-WP-Crowley
1837 CROWLEY TREE SPRAY OILS-I-Crowley
1838 CROWLEY TOLUENE-D-Crowley
1839 CROWLEY TOLUENE SUBSTITUTE-D-Crowley
1840 CROWLEY XYLENE PURE AND SEMI-REFINED-D-Crowley
1841 CROWLEY XYLENE SUBSTITUTE-D-Crowley
1842 CROWN 35% CHLORDANE SPRAY-I-Crown Prod.
1843 CROWN 35% DDT EMULSION-I-Crown Prod.
1844 CROWN 3-5-0 DUST FOR COTTON, DDT 3%, BHC 5%-I-Crown Prod.
1845 CROWN 3-10-0 DUST FOR COTTON, BHC 10%, DDT 3%-I-Crown Prod.
1846 CROWN 1-5 DUST FOR TOBACCO, Parathion 1%, TDE 5%-I-Crown Prod.
1847 CROWN 1-10 DUST FOR TOBACCO, Parathion 1%, TDE 10%-I-Crown Prod.
1848 CROWN 15% FERMATE DUST-F-Crown Prod.
CRYOLITE = SODIUM FLUOALUMINATE

1849 CUBOR DUST 75, Rotenone 0.75%, rotenoids 1.5%-I-Chipman
1850 CUBOR DUST 100, Rotenone 1%, rotenoids 2%-I-Chipman
1851 CUPRINOL CLEAR NO. 20, 24% Zinc naphthenate-WP-Darworth
1852 CUPRINOL GREEN NO. 10, 24% Copper naphthenate-WP-Darworth
1853 C.W.K. CHICKWEED KILLER, Potassium cyanate 34.58%, sodium arsenite 47.50%-H-Garden Prods.
1854 CYANOGAS® ANT KILLER, Calcium cyanide-IF-Am. Cyanamid
1855 CYANOGAS® G, Calcium cyanide-IF-Am. Cyanamid
CYCLETHRIN = 3-(2-CYLOPENTEN-1-YL)-2-METHYL-2-OXO-2-CYLCOPENTEN-1-YL CHRYSANTHEMUMATE
1856 CYCOCEL (2-Chloroethyl) trimethylammonium chloride-PH-Am. Cyanamid
1857 CYGON DIMETHOATE, O,O-dimethyl S-(methylcarbamoylmethyl) phosphorodithioate-IC-Am. Cyanamid
1858 CYPREX®, Dodine (n-dodecylguanidine acetate)-F-Am. Cyanamid
1859 CYTROL AMITROLE-T LIQUID WEEDKILLER, 3-Amino-1,2,4-trizole-H-Am. Cyanamid
2,4-D = 2,4-Dichlorophenoxyacetic acid
1860 D & P DAP-CAL, Mercuric chloride, mercurous chloride-F-Doggett-Pfeil
1861 D & P DAPCHLORDANE 72%, Chlordane 72%-I-Doggett-Pfeil
1862 D & P LINDANE-ARAMITE, Aramite 5%, lindane 6%-I-Doggett-Pfeil
1863 D & P MALATHION 50% EMULSIFIABLE CONCENTRATE-I-Doggett-Pfeil
1864 D & P 10% PHENYL MERCURY ACETATE-F-Doggett-Pfeil
1865 D & P TURF-TOX, Thiram 75%-F-Doggett-Pfeil
1866 D & P TURF TOX MC, Thiram 50%, mercuric and mercurous chloride (mercury 7.97%)-F-Doggett-Pfeil
1867 D & P WEED KILLER, Sodium arsenite 35%-H-Doggett-Pfeil
1868 DAIRY BARN AND LIVESTOCK SPRAY, Aromatic oil 68%, tonnel 24%-I-Dow
DALAPON = 2,2-DICHLOROPROPIONIC ACID (SODIUM SALT)
1869 DAL-E-RAD, Disodium methyl arsonate 100%-H-Vineland
1870 DARVAN®, Dispersing agent-A-Vanderbilt
1870.20 DAVIS CANISTERS FOR GAS MASKS-E-Davis
1870.40 DAVIS GAS MASKS-E-Davis
1870.60 DAVIS RESPIRATORS-E-Davis
1870.80 DAVIS TOXIC GAS DETECTOR KIT-E-Davis
1871 DAWSON BULK FUMIGANT APPLICATOR-E-Ferguson
1872 DAWSON 37 FUMIGANT, 30% Ethylene dibromide, 70% methyl bromide-IF-Ferguson
1873 DAWSON FUMIGANT FORMULA 73 Ethylene dibromide 70%, methyl bromide 30%-IF-Ferguson
1874 DAWSON FUMIGANT FORMULA 73 SHOT CANS, Ethylene dibromide 70%, methyl bromide 30%-IF-Ferguson
1875 DAWSON FUMILATOR PORTABLE GRAIN FUMIGANT RECIRCULATORS-E-Ferguson
1876 DAWSON LITTLE SQUIRT SPOT FUMIGANT APPLICATORS-E-Ferguson
1877 DAWSON NO. 1 INSECTICIDE-CLEAN-UP CONCENTRATE, 32.28% Methoxychlor, Gamma BHC, oil, piperonyl butoxide, pyrethrins-I-Ferguson
1878 DAWSON NO. 3 INSECTICIDE-MALATHION CONCENTRATE, Malathion, oil, piperonyl butoxide, pyrethrins, methylene chloride-I-Ferguson
1879 DAWSON NO. 2 INSECTICIDE-PYRENONE CONCENTRATE, Oil 60%, piperonyl butoxide 6%, pyrethrins 14%-I-Ferguson
1880 DAWSON NO. 4 INSECTICIDE-RESIDUAL CONCENTRATE, DDT, oil, piperonyl butoxide, pyrethrins-I-Ferguson
1881 DAWSON SEMI-AUTOMATIC CYLINDER FILLER-F-Ferguson
1882 DAY BLENDERS (FOR BLENDING PESTICIDES)-E-J. H. Day
1883 DAY MIXERS (FOR MIXING PESTICIDES)-E-J. H. Day
1884 DAYSOLVER (FOR DISSOLVING PESTICIDES)-E-J. H. Day
1885 DB GRANULAR, Disodium tetraborate pentahydrate 55%, disodium tetraborate decahydrate 35.5%, 2,4-D, 7.5%-H-U. S. Borax
1886 DC-120X (DDT-CHLORDANE EMUL. CONC.), Chlordane 11.8%, DDT 23.6%, metylated naphthalenes 48.4%, oil 7.2%-I-Lorenz
DDD = TDE
DDT = DICHLORODIPHENYL TRICHLOROETHANE (2,2-*bis* (*p*-CHLOROPHENYL) 1,1,1-TRICHLOROETHANE)
1887 D-D SOIL FUMIGANT, C_3 Chlorinated hydrocarbons (100%), 1,3-dichloropropene,3,-3-dichloropropene, 1,2-dichloropropene,2,3-dichloropropene, and related C_3 hydrocarbons-IF-Shell
1888 DDTgran 5, DDT 5% (granular)-I-Chipman

1889 DDTgran 10, DDT 10% (granular)-I-Chipman
1890 DDTgran 50, DDT 50% (granular)-I-Chipman
1890.20 DDT-KILCOP DUST NO. 2, Copper 7.42%, DDT 5%-Kilgore
1890.40 DDT-KILCOP-SULPHUR DUST NO. 1, Copper 5.30%, DDT 3%, sulphur 63%-FI-Kilgore
1890.60 DDT-KILCOP-SULPHUR DUST NO. 2, Copper 2.50%, DDT 5%, sulphur 72%-FI-Kilgore
1890.80 DDT-MANGANESE-ZINC-KILCOP-SULPHUR DUST NO. 1, Copper 1.80%, DDT 5%, manganese 2.36%, sulphur 54%, zinc 1.87%-IN-Kilgore
1891 DDTol 50% DUST, DDT 50%-I-Sherwin-Williams
1892 DDTol 25% EMULSIFIABLE CONC., DDT 25%-I-Sherwin-Williams
1893 DDTol 50% WETTABLE POWDER, DDT 50%-I-Sherwin-Williams
DDVP = DIMETHYL 2,2-DICHLOROVINYL PHOSPHATE
1894 DEADLY BRAND TUBULAR RODENT DESTROYER, Paraffin oil 7%, soda nitrate 54%, sulfur 31%-R-U. S. Rodent
1895 DEATH-O-FLY, ELECTROCUTING FLY SCREENS AND FLY TRAPS-E-Detjen
1895.05 DED-WEED 40, 2,4-D 4 lb./gal. amine salts-H-Thomp.-Hayward
1895.10 DED-WEED AMINE-T, 4 lb. 2,4,5-T/gal.-H-Thomp.-Hayward
1895.15 DED-WEED 2-1 BRUSH KIL, 1.33 lb. 2,4-D and 0.66 lb. 2,4,5-T acid/gal.-H-Thomp.-Hayward
1895.20 DED-WEED 50-50 BRUSH-KIL, 2 lb. 2,4-D 2 lb. 2,4,5-T-H-Thomp.-Hayward
1895.25 DED-WEED BUTYRIC SB, 1.75 lb. 2,4-DB/gal.-H-Thomp.-Hayward
1895.30 DED-WEED FOR LAWNS, 2,4-D and 2,4,5-T, Low volatile-H-Thomp.-Hayward
1895.35 DED-WEED LV-2, 2 lb. 2,4-D/gal. Low volatile ester-H-Thomp.-Hayward
1895.40 DED-WEED LV-6, 4 lb. 2,4,5-T/gal. Low volatile-H-Thomp.-Hayward
1895.45 DED-WEED LV-9, 6 lb. 2,4,5-T/gal. Low volatile-H-Thomp.-Hayward
1895.50 DED-WEED LV-69, 4 lb. LV ester 2,4-D-H-Thomp.-Hayward
1895.55 DED-WEED LV-33 BRUSH KIL, 2 lb. 2,4-, 2 lb. 2,4,5-T Low volatile esters/gal.-H-Thomp.-Hayward
1895.60 DED-WEED LV-20 GRANULAR, 20% 2,4-D, Low volatile-H-Thomp.-Hayward
1895.65 DED-WEED T6 BRUSH KIL, 4 lb. 2,4,5-T/gal. amyl ester-H-Thomp.-Hayward
1895.70 DED-WEED MCP, 4 lb./gal. amine salts-H-Thomp.-Hayward
1895.75 DED-WEED ME-4, 2.66 lb./gal., butyl ester 2,4-D-H-Thomp.-Hayward
1895.80 DED-WEED ME-5, 3.33 lb./gal. ester 2,4-D-H-Thomp.-Hayward
1895.85 DED-WEED ME-6, 4 lb./gal. butyl ester 2,4-D-H-Thomp.-Hayward
1895.90 DED-WEED ME-9, 6 lb. butyl ester 2,4-D-H-Thomp.-Hayward
1895.95 DED-WEED SILVEX LV, 4 lb./gal., low volatile-H-Thomp.-Hayward
1896 DEE AITCH ALDRIN 2 lb. E. C.-I-Daly-Herring
1897 DEE AITCH ALDRIN 10% DUST-I-Daly-Herring
1898 DEE AITCH ALDRIN 10% GRANULAR-I-Daly Herring
1899 DEE AITCH CHLORDANE 74% E. C.-I-Daly-Herring
1900 DEE AITCH COPPER 7% DDT 5%-FI-Daly-Herring
1901 DEE AITCH COPPER 4% DDT 5% SULPHUR 74%-FI-Daly-Herring
1902 DEE AITCH DDT 10% DUST-I-Daly-Herring
1903 DEE AITCH DDT 50% W. P.-I-Daly-Herring
1904 DEE AITCH DITHANE® 10% DUST-ZINEB 10%-F-Daly-Herring
1905 DEE AITCH ENDRIN 1.6 LB. E. C.-I-Daly-Herring
1906 DEE AITCH ENDRIN 1.5% DUST-I-Daly-Herring
1907 DEE AITCH FERBAM-F-Daly-Herring
1908 DEE AITCH HEPTACHLOR 2 LB. E. C.-I-Daly-Herring
1909 DEE AITCH NEMAGON® EC-2, 1,2-Dibromo-3-chloropropene-IF-Daly-Herring
1910 DEE AITCH NEMAGON® G-4 GRANULAR, 1,2-Dibromo-3-chloropropene-IF-Daly-Herring
1911 DEE AITCH 41% PENTA, Pentachlorophenol-WP-Daly-Herring
1912 DEE AITCH PHOSDRIN® 2% DUST, 2-Carbomethoxy-1-propene-2yl dimethyl phosphate-I-Daly-Herring
1913 DEE AITCH ROTENONE 1% DUST-I-Daly-Herring
1913.50 DEE AITCH SABADILLA 20% DUST-I-Daly-Herring
1914 DEE AITCH TOXAPHENE 20% DUST-I-Daly-Herring
1915 DEECOP 3-7 DUST, Copper 7%, DDT 3%-FI-Chipman (Can.)
1916 DEECOP 5-7 DUST, Copper 7%, DDT 5%-FI-Chipman (Can.)
1917 DEECOP SPRAY, Copper 30%, DDT 15%-FI-Chipman (Can.)
1918 DEEP-TREAT WOOD PRESERVATIVE-CONCENTRATE, Aromatic oils 30%, pentachlorophenol 34.1%-WP-King Chemical
1919 DEEP-TREAT WOOD PRESERVATIVE-READY TO USE, Oil 94.8%, pentachlorophenol 4.37%, other phenols 0.37%-WP-King Chemical
DEET = N,N-DIETHYL *m*-TOLUAMIDE
1920 DEF® DEFOLIANT, S,S,S,-Tributyl phosphorotrithioate-H-Chemagro

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1921 DELAVAN ADAPTERS (DOUBLE AND SINGLE SWIVEL)-E-Delavan
1922 DELAVAN BOOM CONTROL VALVES-E-Delavan
1923 DELAVAN BROADCAST NOZZLES-E-Delavan
1924 DELAVAN CONE SPRAY NOZZLES-E-Delavan
1925 DELAVAN FLAT SPRAY NOZZLES-E-Delavan
1926 DELAVAN HAND GUN TRIGGER ADAPTER-E-Delavan
1927 DELAVAN NOZZLE STRAINERS-E-Delavan
1928 DELAVAN NYLON EYELET T AND L CONNECTORS-E-Delavan
1929 DELAVAN NYLON NOZZLES-E-Delavan
1930 DELAVAN PRESSURE RELIEF VALVES-E-Delavan
1931 DELAVAN ROLLER PUMPS-E-Delavan
1932 DELAVAN SPRAYER ACCESSORIES FOR BOOM TYPE AND BROADCAST SPRAYERS-E-Delavan
1933 DELAVAN SUCTION STRAINERS-E-Delavan
1934 DELAVAN SWIVEL NOZZLES-E-Delavan
1935 DELAVAN Y TYPE LINE STRAINERS-E-Delavan
1936 DELMO-Z-SPRAY, ZINC 50%-F-Calif. Chem.
1936.50 DELNAV T, Technical 2,3-p-Dioxanedithiol S, S-bis (O,O-diethyl phosphorodithioate) (dioxathion) -IC-Hercules
1938 DELSAN® A-D SEED PROTECTANT, Dieldrin 15%, thiram 60%-ST-DuPont (1 & B)
DEMETON = O,O-DIETHYL-O-2-ETHYLMERCAPTOETHYL THIOPHOSPHATE
1939 DEODORIZED APCO 125, Petroleum derivative-D-APCO Oil Corp.
1940 DEODORIZED APCO 140, Petroleum derivative-D-APCO Oil Corp.
1941 DEODORIZED APCO 467, Petroleum derivative-D-APCO Oil Corp.
1941.01 DE-PESTER ALDRIN E-2, 2 lb./gal.-I-Thomp.-Hayward
1941.02 DE-PESTER ALDRIN E-4, 4 lb./gal.-I-Thomp.-Hayward
1941.03 DE-PESTER ALDRIN 20% GRANULAR-I-Thomp.-Hayward
1941.04 DE-PESTER ALDRIN 25% GRANULAR-I-Thomp.-Hayward
1941.05 DE-PESTER ALDRIN LFB-E-4, Liquid fertilizer emulsifiable, 4 lb./gal.-Thomp.-Hayward
1941.06 DE-PESTER ALDRIN LIQUID SEED-TREAT (4 lb./gal.) -Thomp.-Hayward
1941.07 DE-PESTER ALDRIN W-50 (50%) -Thomp.-Hayward
1941.08 DE-PESTER ALDRIN W-75 (75%) -I-Thomp.-Hayward
1941.09 DE-PESTER BHC E-1 (1 lb./gal.) -I-Thomp.-Hayward
1941.10 DE-PESTER BHC E-12 (12% gamma isomer) I-Thomp.-Hayward
1941.11 DE-PESTER CATTLE GRUB DUST, 1.6% Rotenone, rotenoids-I-Thomp.-Hayward
1941.12 DE-PESTER CATTLE GRUB POWDER, 5% Rotenone, 7.5% rotenoids-Thomp.-Hayward
1941.13 DE-PESTER CATTLE GRUB SPRAY, Rotenone, rotenoids-I-Thomp.-Hayward
1941.14 DE-PESTER CHLORDANE DUST NO. 6 (6% Chlordane) -I-Thomp.-Hayward
1941.15 DE-PESTER CHLORDANE DUST NO. 10 (10% Chlordane) -I-Thomp.-Hayward
1941.16 DE-PESTER CHLORDANE E-8 (8 lb./gal.) -I-Thomp.-Hayward
1941.17 DE-PESTER CHLORDANE 10% GRANULAR-I-Thomp.-Hayward
1941.18 DE-PESTER CHLORDANE OS-20 (20% oil soluble) -I-Thomp.-Hayward
1941.19 DE-PESTER CHLORDANE W-40 (40% Wettable) -I-Thomp.-Hayward
1941.20 DE-PESTER CIODRIN® E-1, Alpha-methylbenzyl 3-(dimethoxyphosphinyloxy) - cis-crotonate 14.4%-I-Thomp.-Hayward
1941.21 DE-PESTER CRABGRASS KILLER, O-(2,4-Dichlorophenyl) O-methyl isopropylphosphramidothioate-H-Thomp.-Hayward
1941.22 DE-PESTER DAIRY CATTLE DUST, Malathion methoxychlor-I-Thomp.-Hayward
1941.23 DE-PESTER DDT ANTI-RESISTANT 50-10, 50% DDT, 10% N,N-dibutyl-p-chlorobenzesulfonamide wettable powder-I-Thomp.-Hayward
1941.24 DE-PESTER DDT DUST NO. 10 (10%) -I-Thomp.-Hayward
1941.25 DE-PESTER DDT E-2 (2 lb./gal.) -I-Thomp.-Hayward
1941.26 DE-PESTER DDT G-5 (5% Granular) -I-Thomp.-Hayward
1941.27 DE-PESTER DDT G-10 (10% Granular) -I-Thomp.-Hayward
1941.28 DE-PESTER DDT W-50 (50% Wettable) -I-Thomp.-Hayward
1941.29 DE-PESTER DDT W-75 (75% Wettable) -I-Thomp.-Hayward
1941.30 DE-PESTER DIELDRIN EC 1.5 (1.5 lb./gal.) -I-Thomp.-Hayward
1941.31 DE-PESTER DIELDRIN G-5 (5% Granular) -I-Thomp.-Hayward
1941.32 DE-PESTER DIELDRIN W-50 (50%) -I-Thomp.-Hayward
1941.33 DE-PESTER DIELDRIN W-75 (75%) -I-ST-Thomp.-Hayward
1941.34 DE-PESTER DROP LEAF COTTON DEFOLIANT, 2 lb. sodium chlorate/gal.-H-Thomp.-Hayward
1941.35 DE-PESTER ELM SPRAY E-2, 25% DDT-I-Thomp.-Hayward
1941.36 DE-PESTER ENDRIN E-1.6 (1.6 lb./gal.) -I-Thomp.-Hayward
1941.37 DE-PESTER ENDRIN G-2 (2% Granular) -I-Thomp.-Hayward
1941.38 DE-PESTER FARM BIN SPRAY, Methoxychlor, oil, organic thiocyanates-I-Thomp.-Hayward

1941.39 DE-PESTER FOGGING SPRAY, 2.54% Piperonyl butoxide, 0.26% pyrethrins-I-Thomp.-Hayward
1941.40 DE-PESTER FOLEX® COTTON DEFOLIANT, 71.2% Tributyl phosphorotrithioate-H-Thomp.-Hayward
1941.41 DE-PESTER FRUIT TREE SPRAY, Captan 7%, malathion 5%, methoxychlor 10%-FI-Thomp.-Hayward
1941.42 DE-PESTER FUMIGANT NO. 2, Carbon bisulfide 12.1%, carbon tetrachloride 81.3%, ethylene dibromide 6.6%-IF-Thomp.-Hayward
1941.43 DE-PESTER FUMIGANT 82FR, Carbon bisulfide 16.5%, carbon tetrachloride 83.1%, n-pentane 0.4%-IF-Thomp.-Hayward
1941.44 DE-PESTER GARDEN DUST AND SPRAY, Methoxychlor 3%, rotenone 0.75%, rotenoids 1.5%, zineb 3.9%-FI-Thomp.-Hayward
1941.45 DE-PESTER GRAIN CONDITIONER AND WEEVIL KILLER, Carbon tetrachloride 27.4%, ethylene dibromide 5%, ethylene dichloride 64.6%, sulfur dioxide 3%-IF-Thomp.-Hayward
1941.46 DE-PESTER HERBICIDE SURFACTANT-A-Thomp.-Hayward
1941.47 DE-PESTER HEPTACHLOR E-2 (2 lb./gal.) -I-Thomp.-Hayward
1941.48 DE-PESTER HEPTACHLOR E-3 (3 lb./gal.) -I-Thomp.-Hayward
1941.49 DE-PESTER 10% HEPTACHLOR GRANULAR-I-Thomp.-Hayward
1941.50 DE-PESTER 20% HEPTACHLOR GRANULAR-I-Thomp.-Hayward
1941.51 DE-PESTER 25% HEPTACHLOR GRANULAR-I-Thomp.-Hayward
1941.52 DE-PESTER HEPTACHLOR LFB E-3 (3 lb./gal. for liquid fertilizer formulations) -I-Thomp.-Hayward
1941.53 DE-PESTER HEPTACHLOR W-25 (25%) -I-Thomp.-Hayward
1941.54 DE-PESTER K-N CONCENTRATE E-2, Ronnel 2 lb./gal.-I-Thomp.-Hayward
1941.55 DE-PESTER LINDANE DUST NO. 10 (10%) -I-Thomp.-Hayward
1941.56 DE-PESTER LINDANE E-1 (1 lb./gal.) -I-Thomp.-Hayward
1941.57 DE-PESTER LINDANE W-25 (25%) -I-Thomp.-Hayward
1941.58 DE-PESTER LIVESTOCK BACKRUBBER CONCENTRATE, Butoxy polypropylene glycol, DDT, lindane-I-Thomp.-Hayward
1941.59 DE-PESTER MALATHION DUST NO. 5 (5%) -I-Thomp.-Hayward
1941.60 DE-PESTER MALATHION E-5 (5 lb./gal.) -I-Thomp.-Hayward
1941.61 DE-PESTER MALATHION W-25 (25%) -I-Thomp.-Hayward
1941.62 DE-PESTER MALATHION GRAIN PROTECTANT NO 57 (57%) -I-Thomp.-Hayward
1941.63 DE-PESTER METHYL PARATHION E-2 (2 lb./gal.) -I-Thomp.-Hayward
1941.64 DE-PESTER METHYL PARATHION E-4 (4 lb./gal.) -I-Thomp.-Hayward
1941.65 DE-PESTER NABAM (22%) -F-Thomp.-Hayward
1941.66 DE-PESTER NEMAGON®, 1,2-Dibromo-3-chloropropene-IF-Thomp.-Hayward
1941.67 DE-PESTER PARATHION E-2 (2 lb./gal.) -I-Thomp.-Hayward
1941.68 DE-PESTER PARATHION E-4 (4 lb./gal.) -I-Thomp.-Hayward
1941.69 DE-PESTER PARATHION E-6 (6 lb./gal.) -I-Thomp.-Hayward
1941.70 DE-PESTER PARATHION E-8 (8 lb./gal.) -I-Thomp.-Hayward
1941.71 DE-PESTER PARATHION W-15 (15% WP) -I-Thomp.-Hayward
1941.72 DE-PESTER PENTA-MR, Pentachlorophenol 5%-WP-Thomp.-Hayward
1941.73 DE-PESTER PERMAGARD DEFOLIANT CONCENTRATE, 40% Pentachlorophenol-H-Thomp.-Hayward
1941.74 DE-PESTER PHOSDRIN® 2-E, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2 lb./gal.-I-Thomp.-Hayward
1941.75 DE-PESTER POTATO DUST, DDT 3%, zineb 3.9%-FI-Thomp.-Hayward
1941.76 DE-PESTER POULTRY & PET DUST, 5% Carbaryl-I-Thomp.-Hayward
1941.77 DE-PESTER PYRTOX CONTACT SPRAY, 1.5% Piperonyl butoxide, 0.15% pyrethrins-I-Thomp.-Hayward
1941.78 DE-PESTER PYRTOX NO. 20 NEW, 1.66% Ethylhexyl bicycloheptene dicarboximide, 1.28% piperonyl butoxide, 0.5% pyrethrins-I-Thomp.-Hayward
1941.79 DE-PESTER RAT-TROL BAIT, Diphacin 0.025%-R-Thomp.-Hayward
1941.80 DE-PESTER RAT-TROL CONCENTRATE, Diphacin 0.5%-R-Thomp.-Hayward
1941.81 DE-PESTER RAT-TROL PELLETS, Diphacin 0.025%-R-Thomp.-Hayward
1941.82 DE-PESTER ROTENONE 1% DUST-I-Thomp.-Hayward
1941.83 DE-PESTER SODIUM ARSENITE S-4-H-Thomp.-Hayward
1941.84 DE-PESTER SPREADER-ACTIVATOR-A-Thomp.-Hayward
1941.85 DE-PESTER STICKER-A-Thomp.-Hayward
1941.86 DE-PESTER SUPER DRY INSECTICIDE, Naphthalene 15%, nicotine 0.05%, sodium fluosilicate 1%, sulfur 20%-I-Thomp.-Hayward
1941.87 DE-PESTER SUPER FUMIGAS, Carbon bisulfide 16.34%, carbon tetrachloride 82.2%, n-pentane 0.36%, sulfur dioxide 1%-IF-Thomp.-Hayward
1941.88 DE-PESTER TEDION® 3% DUST, Tetradifon 3%-I-Thomp.-Hayward
1941.89 DE-PESTER TEDION® E-1, Tetradifon 1 lb./gal.-I-Thomp.-Hayward
1941.90 DE-PESTER TEDION® W-25, Tetradifon 25%-I-Thomp.-Hayward

1941.91 DE-PESTER TOMATO DUST, TDE 5%, zineb 3%-FI-Thomp.-Hayward
1941.92 DE-PESTER TOXAPHENE BACKRUBBER CONCENTRATE-I-Thomp.-Hayward
1941.93 DE-PESTER TOXAPHENE-LINDANE STOCK SPRAY AND DIP, 1% Lindane, 45% toxaphene-I-Thomp.-Hayward
1941.94 DE-PESTER TOXAPHENE RUB OIL, Malathion 0.25%, oil 94.25%, toxaphene 5%-I-Thomp.-Hayward
1941.95 DE-PESTER TOXAPHENE STOCK SPRAY & DIP, Toxaphene 61%-I-Thomp.-Hayward
1941.96 DE-PESTER VAPONA® DAIRY SPRAY, DDVP-I-Thomp.-Hayward
1941.97 DE-PESTER VAPONA® E-I, 15% DDVP-I-Thomp.-Hayward
1941.98 DE-PESTER WEEVIL KILL, Carbon tetrachloride 63.6%, ethylene dibromide 7.2%, ethylene dichloride 29.2%-IF-Thomp.-Hayward
1941.99 DE-PESTER ZINEB W-75 (75%)-F-Thomp.-Hayward
1942 DESTRUXOL 45% CHLORDANE-I-Destruxol
1943 DESTRUXOL 75% CHLORDANE-I-Destruxol
1944 DESTRUXOL, CHLORDANE 6% DUST-I-Destruxol
1945 DESTRUXOL 10% CHLORDANE DUST-I-Destruxol
1946 DESTRUXOL CONTACT WEED KILLER, Aromatic oils 80%, paraffinic and naphthenic oils 5%-H-Destruxol
1947 DESTRUXOL CUTWORM KILL, Chlordane 10%, DDT 25%-I-Destruxol
1948 DESTRUXOL DIELDRIN 20%-I-Destruxol
1949 DESTRUXOL DOG REPELLENT, Nicotine 6%, phenols 1%, pine tar 11.5%, sodium cyanide 4%, wood creosote 10%-ANR-Destruxol
1950 DESTRUXOL DUAL PURPOSE ROSE AND FLOWER BOMB, Dichlone 0.12%, 2,4-dinitro-6-(2-octyl) phenyl crotonate 0.113%, methoxychlor 0.3%, pyrethrin 0.02%, rotenone 0.1%-IA-Destruxol
1951 DESTRUXOL EARWIG BAIT, Sodium fluosilicate 6%-IB-Destruxol
1952 DESTRUXOL HOUSEHOLD SPRAY, Butoxy polypropylene glycol 1%, oil, piperonyl butoxide 0.58%, pyrethrins 0.06%-I-IR-Destruxol
1954 DESTRUXOL MALATHION 50%-I-Destruxol
1956 DESTRUXOL ROSE DUST, Copper zinc chromate complex 2%, piperonyl butoxide 0.60%, pyrethrins 0.06%, sulfur 30%-FI-Destruxol
1957 DESTRUXOL ROSE SPRAY, Copper 5%, ethylene dichloride 4.0%, nicotine 6.4%-FI-Destruxol
1958 DESTRUXOL SOWBUG & CUTWORM BAIT, Copper aceto-arsenite 10%-IB-Destruxol
1959 DESTRUXOL, SPIDER-SMITE, 4,4-Dichloro-*alpha*-trichloromethylbenzhydrol 18.5%-I-Destruxol
1960 DESTRUXOL SUPER EMULSION, Ammonia 0.8%, nicotine 1.2%, oil 62.0%, pine oil 5.5%-I-Destruxol
1961 DESTRUXOL TENDER LEAF PLANT SPRAY, Nicotine 7%, oil 65%-I-Destruxol
1962 DESTRUXOL TERRASOL, Nitrogen 16%, phosphoric acid 4%, potash 2%, sodium N Hydroxyethylenediamenetriacetate 2.28%, iron 0.36%, manganese 0.32%, zinc 0.21%-N-Destruxol
1963 DETAMIDE 95, 95% *Meta*-N,N-diethyletoluamide R-Cowles
1964 DETHDIET BRAND RED SQUILL POWDER 500 MG/KG-R-Penick
1965 DETHMOR, Warfarin 0.5%-R-Penick
1966 DETHMOR WATER SOLUBLE, Sodium salt of warfarin 0.54%-R-Penick
1967 DETHNEL RAT POWDER, Warfarin-R-U. S. Sanit. Sp.
1968 DETJEN ELECTROCUTING FLY SCREENS FOR DOORS AND WINDOWS-E-Detjen
1969 DETJEN ELECTROCUTING FLY SCREEN PANELS-E-Detjen
1970 DETJEN ELECTROCUTING FLY TRAPS, COMMERCIAL AND MEDIUM SIZES-E-Detjen
1971 DETJEN INSECT ELECTROCUTING LANTERNS FOR DESTROYING NIGHT-FLYING INSECTS-E-Detjen
1972 DETJEN INSECT ELECTROCUTING PANELS FOR DESTROYING NIGHT-FLYING INSECTS-E-Detjen
1973 DETJEN INSECTOCUTOR LANTERN, Insect trap-E-Detjen
1974 DETJEN INSECTOCUTOR PANEL, Insect trap-E-Detjen
1975 DETJEN PORCH LIGHTS AND INSECT ELECTROCUTORS-E-Detjen
1976 DETJEN POST LANTERNS AND INSECT ELECTROCUTORS-E-Detjen
1977 DEXON®, *p*-Dimethylaminobenzenediazo sodium sulfonate-F-Chemagro
1978 DIAMOND D-50, DDT 50%-IC-Diamond
1979 DIAMOND E-25, DDT 25% emuls. conc.-I-Diamond
1980 DIAMOND S-30, DDT 30%, oil base conc.-I-Diamond
1981 DIAMOND W-50, DDT 50%, wettable powder-I-Diamond
1982 DIAMOND BHC D-12, BHC 12% dust base conc.-IC-Diamond

THINK FIRST OF Diamond Chemicals
for dependable Insecticides and Herbicides

TECHNICALS AND FORMULATIONS

INSECTICIDES

Technical BHC ..... Low gamma and high gamma isomer

BHC Concentrates ..... Wettable powders, emulsifiable and dust concentrates

Technical DDT ..... Flake, powder, or lump

DDT Concentrates ..... Wettable powders, emulsifiable, dust and oil solution concentrates

HERBICIDES

Dacthal® W-75
Dacamine
Fence Rider®, Line Rider® and Crop Rider® Formulations
Technical 2, 4-D & 2, 4, 5-T (Acid & Esters)
Concentrates 2, 4-D & 2, 4, 5-T (Amines & Esters)
Custom Formulations (Amines & Esters)

Diamond research is constantly seeking new and better insecticides, herbicides and other pesticides and working with formulators, custom sprayers and agricultural chemists in the development of more efficient forms and application methods. We will be glad to work with you. For information on Diamond Chemicals and technical cooperation, write Diamond Alkali Company, 300 Union Commerce Building, Cleveland 14, Ohio.

Diamond Chemicals

958870141

1983 DIAMOND BHC E-11, BHC 11%, gamma emuls. conc.-I-Diamond
1984 DIAMOND BHC 15% TECH.-IC-Diamond
1985 DIAMOND BHC 45% TECH.-IC-Diamond
1986 DIAMOND BHC W-12 WETTABLE POWDER, BHC 12%-I-Diamond
1987 DIAMOND BUTYL-D TECH., Butyl Ester of 2,4-D 99%-H-Diamond
1988 DIAMOND BUTYL-T TECH., Butyl ester of 2,4,5-T 98%-H-Diamond
1989 DIAMOND THE CROP RIDER, Butyl ester of 2,4-D, 56.5%-H-Diamond
1990 DIAMOND CROP RIDER "45", 2-Ethyl hexyl ester of 2,4-D 35.8%-H-Diamond
1991 DIAMOND CROP RIDER AMINE 4D-2, Dimethyl amine salts of 2,4-D 49%-H-Diamond
1992 DIAMOND CROP RIDER AMINE 6D-2, Dimethyl amine salts of 2,4-D 70%-H-Diamond
1993 DIAMOND CROP RIDER AMINE 4T-2, Triethyl amine salts of 2,4,5-T 57%-H-Diamond
1994 DIAMOND CROP RIDER 20% AQUA GRANULAR, 2-Ethyl hexyl ester of 2,4-D 20%-H-Diamond
1995 DIAMOND CROP RIDER 2.67D, Butyl ester of 2,4-D 40%-H-Diamond
1996 DIAMOND CROP RIDER 3.34D-2, Isopropyl ester of 2,4-D 46%-H-Diamond
1997 DIAMOND CROP RIDER 6D, Butyl ester of 2,4-D 78%-H-Diamond
1998 DIAMOND CROP RIDER 6D-OS, Butyl ester of 2,4-D, 78% (oil soluble only)-H-Diamond
1999 DIAMOND CROP RIDER LV-4D, 2-Ethyl hexyl ester of 2,4-D 69%-H-Diamond
2000 DIAMOND CROP RIDER LV-6D, 2-Ethyl hexyl ester of 2,4-D 92.8%-H-Diamond
2000.50 DIAMOND CROP RIDER MCP AMINE, Alkyl amine salts of MCP 52%-H-Diamond
2002 DIAMOND CROP RIDER SILVEX LV-4TP, Iso-octyl ester of 2, (2,4,5-trichlorophenoxy) propionic acid 65.2%-H-Diamond
2003 DIAMOND CROP RIDER 2,4-D SODIUM SALT 95%-H-Diamond
2004 DIAMOND CROP RIDER 10% TERRA GRANULAR, 2-Ethyl hexyl ester of 2,4-D 10%-H-Diamond
2005 DIAMOND CROP RIDER 20% TERRA GRANULAR, 2-Ethyl hexyl ester of 2,4-D 20%-H-Diamond
2005.15 DIAMOND DACAMINE 2D, N-Oleyl 1,3 propylene diamine salt of 2,4-D, 33.9%-H-Diamond
2005.30 DIAMOND DACAMINE 4D, N-Oleyl 1,3 propylene diamine salt of 2,4-D, 61.6%-H-Diamond
2005.45 DIAMOND DACAMINE 2D/2T, N-Oleyl 1,3-propylene diamine salt of 2,4-D and 2,4,5-T 60.6%-H-Diamond
2005.60 DIAMOND DACAMINE 1D/1T, N-Oleyl 1,3 propylene diamine salt of 2,4-D and 2,4,5-T 33.7%-H-Diamond
2005.75 DIAMOND DACAMINE 2T, N-Oleyl 1,3-propylene diamine salt of 2,4,5-T 33.7%-H-Diamond
2005.90 DIAMOND DACAMINE 4T, N-Oleyl 1,3-propylene diamine salt of 2,4,5-T, 59.9%-H-Diamond
2006 DIAMOND DACTHAL® W-50, Dimethyl ester of tetrachloroterephthalic acid 50%-H-Diamond
2007 DIAMOND DACTHAL® W-75, Dimethyl ester of tetrachloroterephthalic acid 75%-H-Diamond
2008 DIAMOND DACFIA GRAIN FUMIGANT, Carbon disulfide, carbon tetrachloride, petroleum hydrocarbon-IF-Diamond
2009 DIAMOND 2,4-D ACID, 99%-H-Diamond
2010 DIAMOND DDT D-75, DDT 75% dust conc.-IC-Diamond
2011 DIAMOND DDT G-5, DDT 5% granular-I-Diamond
2012 DIAMOND DDT G-10, DDT 10% granular-I-Diamond
2013 DIAMOND DDT G-50, DDT 50% granular-I-Diamond
2014 DIAMOND DDT TECH., DDT 100%-IC-Diamond
2015 DIAMOND DDT W-75, DDT 75% wettable powder-I-Diamond
2016 DIAMOND 2-ETHYL HEXYL-D TECH., 2-Ethyl hexyl ester of 2,4-D 97%-H-Diamond
2017 DIAMOND 2-ETHYL HEXYL-T TECH., 2-Ethyl hexyl ester of 2,4,5-T 98%-H-Diamond
2018 DIAMOND FENCE RIDER 22, Butyl ester of 2,4-D, 28% and butyl ester of 2,4,5-T 27%-H-Diamond
2019 DIAMOND FENCE RIDER "45", 2-Ethyl hexyl ester of 2,4-D 25.6% and 2-ethyl hexyl ester of 2,4,5-T 12.2%-H-Diamond
2020 DIAMOND FENCE RIDER 4T, Butyl ester of 2,4,5-T 53.6%-H-Diamond
2021 DIAMOND FENCE RIDER 3.34-T, Isopropyl ester of 2,4,5-T 43%-H-Diamond
2022 DIAMOND FENCE RIDER 6T, Butyl ester of 2,4,5-T 72.5%-H-Diamond

2023 DIAMOND FENCE RIDER LV-22, 2-Ethyl hexyl ester of 2,4-D 34.0% and 2-ethyl hexyl ester of 2,4,5-T 32.5%-H-Diamond
2024 DIAMOND FENCE RIDER LV-3D/3T, 2-Ethyl hexyl ester of 2,4-D 46% and 2-ethyl hexyl ester of 2,4,5-T 43.7%-H-Diamond
2025 DIAMOND FENCE RIDER LV-4T, 2-Ethyl hexyl ester of 2,4,5-T 64%-H-Diamond
2026 DIAMOND FENCE RIDER LV-6T, 2-Ethyl hexyl ester of 2,4,5-T 86.4%-H-Diamond
2027 DIAMOND "75-25" GRAIN FUMIGANT, Ethylene dichloride, carbon tetrachloride-IF-Diamond
2028 DIAMOND "80-20" GRAIN FUMIGANT, Carbon disulfide, carbon tetrachloride-IF-Diamond
2029 DIAMOND HEXACHLOROBENZENE TECH.-ST-Diamond
2030 DIAMOND ISOPROPYL-D TECH., Isopropyl ester of 2,4-D 99%-H-Diamond
2031 DIAMOND TECHNICAL ISOPROPYL-T, Isopropyl ester of 2,4,5-T 96%-H-Diamond
2032 DIAMOND THE LINE RIDER, 2-Ethyl hexyl ester of 2,4-D 34.0% and 2-Ethyl hexyl ester of 2,4,5-T 32.5%-H-Diamond
2033 DIAMOND LINE RIDER 22, Butyl ester of 2,4-D 28% and butyl ester of 2,4,5-T 27%-H-Diamond
2034 DIAMOND LINE RIDER AMINE 22, Dimethyl amine salts of 2,4-D 23.7% and dimethyl amine salts of 2,4,5-T 23.2%-H-Diamond
2035 DIAMOND LINE RIDER AMINE 4T-2, Alkyl amine salts of 2,4,5-T 57%-H-Diamond
2035.20 DIAMOND LINE RIDER INVERT D/T, 2 Ethylhexylester of 2,4-D and 2,4,5-T, 19.1% and 18.3%-H-Diamond
2035.40 DIAMOND LINE RIDER INVERT D/T CONCENTRATE, 2 Ethylhexylester of 2,4-D and 2,4,5-T, 33.9% and 32.4%-H-Diamond
2035.60 DIAMOND LINE RIDER INVERT T, 2 Ethylhexylester of 2,4,5-T, 36.4%-H-Diamond
2035.80 DIAMOND LINE RIDER INVERT T CONCENTRATE, 2 Ethylhexylester of 2,4,5-T 64.2%-H-Diamond
2036 DIAMOND LINE RIDER 4T, Butyl ester of 2,4,5-T 53.6%-H-Diamond
2037 DIAMOND LINE RIDER DACAMIE 1D/1T, Oleyl 1,2propylene diamine salt of 2,4-D and 2,4,5-T 34.9%-H-Diamond
2040 DIAMOND LINE RIDER LV-21, 2-Ethyl hexyl ester of 2,4-D 45.9% and 2-ethyl hexyl ester of 2,4,5-T 21.8%-H-Diamond
2041 DIAMOND LINE RIDER LV-4D, 2-Ethyl hexyl ester of 2,4-D 69%-H-Diamond
2042 DIAMOND LINE RIDER LV-6D, 2-Ethyl hexyl ester of 2,4-D 92.8%-H-Diamond
2043 DIAMOND LINE RIDER LV-4T, 2-Ethyl hexyl ester of 2,4,5-T 64%-H-Diamond
2044 DIAMOND LINE RIDER LV-6T, 2-Ethyl hexyl ester of 2,4,5-T 86.4%-H-Diamond
2045 DIAMOND LINE RIDER LV-6T-OIL SOLUBLE, 2-Ethyl hexyl ester of 2,4,5-T 86.4%-H-Diamond
2046 DIAMOND LINE RIDER LV-3D/3T, 2-Ethyl hexyl ester of 2,4-D 46.0% and 2-ethyl hexyl ester of 2,4,5-T 43.7%-H-Diamond
2047 DIAMOND LINE RIDER LV-3D/3T-OIL SOLUBLE, 2-Ethyl hexyl ester of 2,4-D 46.0% and 2-ethyl hexyl ester of 2,4,5-T 43.7%-H-Diamond
2048 DIAMOND LINE RIDER SILVEX LV-4TP, Iso-octyl ester of 2, (2,4,5-trichlorophenoxy) propionic acid 65.2%-H-Diamond
2049 DIAMOND MILL BRAND GRAIN FUMIGANT, Ethylene dibromide, ethylene dicloride, carbon tetrachloride-IF-Diamond
2050 DIAMOND MILL BRAND "H" GRAIN FUMIGANT, Carbon tetrachloride 57.0%, ethylene dibromide 20.4%, ethylene dichloride 19.6%-IF-Diamond
2051 DIAMOND MILL BRAND "R" GRAIN FUMIGANT, Ethylene dibromide 7.2%, ethylene dichloride 29.2%, carbon tetrachloride 63.6%-IF-Diamond
2052 DIAMOND PREMIUM BRAND GRAIN FUMIGANT "A", Carbon disulfide, carbon tetrachloride, sulfur, dioxide, petroleum ether-IF-Diamond
2053 DIAMOND 2,4,5-T ACID, 98%-H-Diamond
2054 DIAMOND VACATE, Disodium tetraborate penta and decahydrate 89%, monuron 8%-H-Diamond
2054.50 DIANOL LIQUID PAINT INSECTICIDE, DDVP 2%, dieldrin 23%-I-Dianol
2055 DIANOL MIL-DO-WAY, Paradichlorobenzene 50%, paraformaldehyde 50%-FI-Dianol
2056 DIANOL MILDEW WASH, Zineb 65%-F-Dianol
2058 DIANOL PAINT MILDEWCIDE, Zineb 52.5%-F-Dianol
2061 DIASCENT, Reodorant masking agent and perfume for insecticide formulations containing Diazinon-A-Aromatic
2062 DIAX WEED KILLER, Isopropylamine salt of 2,4-D 93% (acid equiv. 73.%)-H-J. Wilson
DIAZINON® = O,O-DIETHYL-O-(2-ISOPROPYL-4-METHYL-6-PYRIMIDINYL) PHOSPHOROTHIOATE
DIBROM® see ORTHO DIBROM (=NALED)
1,2-DIBROMO-3-CHLOROPROPANE = NEMAGON®
DICHLONE = 2,3,-DICHLORO-1,4-NAPHTHOQUINONE

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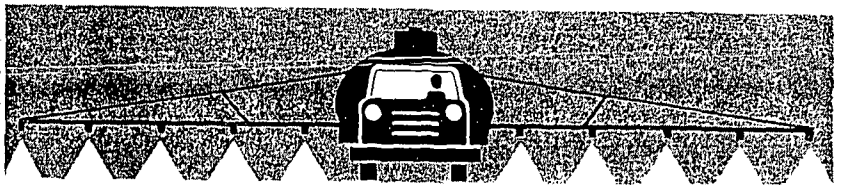
2063 DI-CHLOR-MULSION, Ethylene dichloride 90% H-Woolfolk
1,1-DICHLORO-2,2-*Bis* (*p*-CHLOROPHENYL) ETHANE = TDE
DICHLORO DIPHENYL TRICHLOROETHANE = DDT
4,4'-DICHLORO-alpha-TRICHLORO-METHYLBENZHYDROL = KELTHANE®
2064 DICHONDRA FERTILIZER, Carbaryl 1.89%-I-Scott
2065 DICHONDRA PAX CRABGRASS AND SOIL PEST CONTROL WITH UREA, Arsenous oxide 0.40%, lead arsenate 50%-H-P.S.
2065.50 DIELDREC EMULSIFIABLE CONC., Dieldrin 1.5 lb./gal.-I-Chapman
2066 DIELDRIN, TECH., Minimum dieldrin content 1.5%, (equiv. to 85.0% hexachloro-epoxyortahydro-endo, exo-dimethanonaphthalene and 15.0% insecticidally active related compounds) -IC-Shell
2067 DIELDRI-SOL, Dieldrin 15.1%, related compds. 5.1%, oil 75.4%-I-Woolfolk
2068 DIELGRAN 2½, Contains 2.5% dieldrin (granular) I-Chipman
2069 DIELGRAN 5, Dieldrin 5% (granular) -I-Chipman
2070 DIELGRAN 10, Contains 10% dieldrin (granular) -I-Chipman
2071 DIFUSO, Oil 97.24% piperonyl butoxide 2.31%, pyrethrins 0.45%-I-Tanglefoot
2072 DIFUSO AERSOL, Piperonyl butoxide 1.5%, pyrethrins 0.3%, oil 18.2%-IA-Tanglefoot
2073 DIFUSOLIER, Insecticide applicator-E-Tanglefoot
DILAN® = MIXTURE OF NITRO CHLOROPHENYL BUTANE AND PROPANE
2073.50 DIHEPTANE EMULSIFIABLE, Heptachlor 2 lb. actual/gal.-I-Chapman
2074 DILL HOUSEHOLD INSECTICIDE AEROSOL, Chlordane, piperonyl butoxide, pyrethrins-IA-Dill
2075 DILL-SPRAY HOUSEHOLD SPACE AEROSOL, Oil, piperonyl butoxide, pyrethrins-IA-Dill
2076 DILL HOUSEHOLD INSECTICIDE SPRAY, Chlordane, oil, piperonyl butoxide, pyrethrins-I-Dill
2077 DILL-SPRAY HOUSEHOLD SPACE SPRAY Oil piperonyl butoxide, pyrethrins-I-Dill
2078 DILU-DUST® (Pesticide diluent and carrier Kaolinite type) -A-Magnet Cove
2079 DILUEX, Fullers earth (attapulgite) carrier-D-Floridin
2080 DILUEX A, Fullers earth (attapulgite) carrier-D Floridin
DIMETHOATE = O,O-DIMETHYL S-(N-METHYL CARBAMOLY-METHYL) PHOSPHORODITHIOATE
DIMETHRIN=2,4-DIMETHYLBENZYL CHRYSANTHEMUMATE
O,O-DIMETHYL-1-HYDROXY-2,2-TRICHLOROETHYL PHOSPHONATE = DIPTEREX®
O,O-DIMETHYL S-(4-OXO-1, 2,3-BENZOTRIAZININYL-3-METHYL) PHOSPHORODITHIOATE = GUTHION®
3,5-DIMETHYL-1,3,5,2H-TETRAHYDROTHIADIAZINE-2-THIONE = MYLONE®
2081 DIMITE®, 1,1-*bis* (*p*-chlorophenyl) ethanol-I-Sherwin-Williams
2082 DINOXOL, Non-emulsifiable low volatile ester of 2,4-D and 2,4,5-T; 2 plus 2 lbs. acid equiv./gal.-H-Amchem Prods.
2083 DIP & DISINFECTANT, Coal tar oils 56%, coal tar phenols 14%, soap 20%-F-Hess & Clark
DIPHACINONE = 2-DIPHENYLACETYL 1,3-INDADIONE
2084 DIPHENYLAMINE, Apple scald control-F-Am. Cyanamid
2085 DIPTEREX® SUGAR BAIT, O,O-Dimethyl-1-hydroxy-2,2,2-trichloroethylphosphonate-IB-Chemagro
2086 DIRAM, Sodium dimethyl dithiocarbamate 40%-F-Roberts
2087 DIRAM A, Ammonium dimethyl dithiocarbamate 41.7%-F-Roberts
DI-SYSTON® = O,O-DIETHYL S-2-(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE
2088 DI-SYSTON® GRANULAR, O,O-Diethyl S-2 (ethylthio) ethyl phosphorodithioate-I-Chemagro
2089 DITHANE® A-40, Nabam 93%-F-Rohm & Haas
2090 DITHANE® D-14, Nabam 22%-F-Rohm & Haas
2091 DITHANE® M-22, Maneb 80%-F-Rohm & Haas
2092 DITHANE® M-45, Co-ordination product of zinc iron and manganese ethylene bisdithiocarbamate 80%-F-Rohm & Haas
2093 DITHANE® S-31, 72% Maneb-nickel sulfate combination-F-Rohm & Haas
2094 DITHANE® Z-78, Concentrate 85%-F-Rohm & Haas
2095 DITHANE® Z-78, Zineb 75%-F-Rohm & Haas
DIURON = 3-(3,4-DICHLOROPHENYL) -1-1-DIMETHYLUREA
2096 DIWEEVIL, Carbon tetrachloride 25%, ethylene dichloride 75%-IF-Woolfolk
2097 DIWEEVIL GRAIN PROTECTANT DUST, 1% Malathion-I-Woolfolk



ROHM & HAAS AGRICULTURAL CHEMICALS

Fungicides

DITHANE M-45 (80% coordination product of zinc ion and manganese ethylene bisdithiocarbamate)

DITHANE M-22 (80% manganese ethylene bisdithiocarbamate, maneb)

DITHANE Z-78 (75% zinc ethylene bisdithiocarbamate, zineb)

DITHANE A-40 (93% disodium ethylene bisdithiocarbamate, nabam)

DITHANE D-14 (22% disodium ethylene bisdithiocarbamate, nabam)

KARATHANE WD (25% dinitro [1-methyl heptyl] phenyl crotonate and related compounds)

KARATHANE LC (48% dinitro [1-methyl heptyl] phenyl crotonate and related compounds)

Herbicides

STAM F-34 (3,4-dichloropropionanilide)

Insecticides

LETHANE 384 (53% beta butoxy beta'thiocyano diethylether)

PERTHANE EC (47.3% diethyl diphenyl dichloroethane and related products)

RHOTHANE WP-50 (50% dichloro diphenyl dichloroethane)

Miticides

KELTHANE MF (42% 1,1-bis[chlorophenyl] 2,2,2-trichloroethanol)

KELTHANE AP, W & EC (18.5% 1,1-bis[chlorophenyl] 2,2,2-trichloroethanol)

Spreader-Sticker

TRITON B-1956 (a water-dispersible, resin-based surfactant)

DITHANE, KARATHANE, KELTHANE, LETHANE, PERTHANE, RHOTHANE, STAM *and* TRITON *are trademarks, Reg. U. S. Pat. Off. and in principal foreign countries.*

Write us, or contact one of our field men for detailed information as to crops protected and pests controlled by any of the above products.

ROHM & HAAS
PHILADELPHIA 5, PA.

958870143

2098 DIWEEVIL GRAIN PROTECTANT SPRAY, 57% Malathion-I-Woolfolk
DMA = DISODIUM METHYLARSONATE
DMC = 1,1-*Bis* (*p*-CHLOROPHENYL) ETHANOL
2099 DN®-289, Dinitro-sec-butylphenol, triethanolamine salt 36%-FI-Dow
DNAP = 4,6-DINITRO-*Ortho*-*Sec*. AMYLPHENOL
DNC = DINITRO-ORTHO-CRESOL
DNOCHP = DINITRO=ORTHO=CYCLOHEXYLPHENOL
DODINE = *n*-DODECYLGUANIDINE ACETATE
2100 DOG-CHECK, Dog and cat repellent-ANR-Nott
2100.10 DOGGETT FISON DAP CAL, Mercuric chloride, mercurous chloride-F-Doggett Fison
2100.20 DOGGETT FISON DAP CHLORDANE, 72% Chlordane-I-Doggett Fison
2100.30 DOGGETT FISON LINDANE ARAMITE, 2-(*p-tert*-Butylphenoxy)-isopropyl-2'-chloroethyl sulfite 6%, lindane 5%-I-Doggett Fison
2100.40 DOGGETT FISON MALATHION 50% EMULSIFIABLE-I-Doggett Fison
2100.50 DOGGETT FISON 10% PHENYL MERCURIC ACETATE-F-Doggett Fison
2100.60 DOGGETT FISON TURF TOX, 75% Thiram-F-Doggett Fison
2100.70 DOGGETT FISON TURF TOX MC, Mercurous and mercuric chloride (mercury 7.97%), 50% thiram-F-Doggett Fison
2100.80 DOGGETT FISON WEED KILLER, 35% Sodium arsenite-H-Doggett Fison
2101 DOLGE FOGGING INSECTICIDE, Malathion-I-Dolge
2102 DOLGE FOGGING INSECTICIDE, Organic thiocyanates, DDT-I-Dolge
2103 DONACO LIQUID BAIT DISPENSER-E-Donco
2104 DONACO MOUSE BAIT STATION-E-Donco
2105 DONACO PMP CONCENTRATE, Calcium 2-isovaleryl-1,3-indandione 1.1%-R-Donco
2106 DONACO PMP DRY MEAL BAIT, Calcium 2-isovaleryl-1,3-indandione 0.055%-R-Donco
2107 DONACO PMP 1% STARCH CONCENTRATE, 2-isovaleryl-1,3-indandione-R-Donco
2108 DONACO PMP TRACKING POWDER, 2-isovaleryl-1,3-indandione-R-Donco
2109 DONACO PMP WATER SOLUBLE BAIT Sodium 2-isovaleryl-1,3-indandione-R-Donco
2110 DONACO UNIVERSAL CONCENTRATE, 2-Isovaleryl-1,3-indandione-R-Donco
2111 DOOM MILKY DISEASE SPORES, Mixed culture of not less than 100 million viable spores of resistant stages of either or both *Bacillus popilliae* and *Bacillus lentimorbus* per gram-I-Murray
2112 DOUGLAS FUMEKOTE LIQUID GRAIN PROTECTANT, Carbon tetrachloride, ethylene dibromide, malathion, oil, piperonyl butoxide, pyrethrins-IF-Douglas
2113 DOUGLAS GRAINKOTE LIQUID GRAIN PROTECTANT, Carbon tetrachloride, malathion, oil, piperonyl butoxide, pyrethrins-I-Douglas
2113.15 DOUGLAS HI PO "22" FORTIFIED ALL PURPOSE SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Douglas
2113.30 DOUGLAS PIVALYN (Water Soluble Rat & Mouse Killer with Pivalyn), Sodium salt nates-I-Douglas
2113.45 DOUGLAS PIVALYN (Water Solube Rat & Mouse Killer with Pivalyn), Sodium salt of pindone-R-Douglas
2113.60 DOUGLAS PROLIN, Sulfaquinoxaline, warfarin-R-Douglas
2113.75 DOUGLAS PROTECKOTE LIQUID GRAIN PROTECTANT, Carbon tetrachloride, malathion, oil, piperonyl butoxide, pyrethrins-IF-Douglas
2113.90 DOUGLAS RODENT-A-FUME BURROW FUMIGANT, Benzene, carbon tetrachloride, ethylene dibromide, sulfur dioxide-R-Douglas
2114.10 DOUGLAS SPECIAL MILL SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Douglas
2114.20 DOUGLAS SPECIAL MILL SPRAY CONCENTRATE, Oil, piperonyl butoxide, pyrethrins-I-Douglas
2114.30 DOUGLAS TETRAFUME GRAIN FUMIGANT, Benzene, carbon tetrachloride, ethylene dibromide, sulfur dioxide-IF-Douglas
2114.40 DOUGLAS TETRAKIL GRAIN FUMIGANT, Benzene, carbon tetrachloride, ethylene dibromide, sulfur dioxide-IF-Douglas
2114.60 DOUGLAS TETRASPOT MILL SPOT FUMIGANT, Benzene, carbon tetrachloride, ethylene dibromide, sulfur dioxide-IF-Douglas
2114.80 DOUGLAS TOPKOTE "77", Carbon tetrachloride, malathion, oil, piperonyl butoxide, pyrethrins-I-Douglas
2114.90 DORLONE®, Mixed dichloropropenes 79%, ethylene dibromide 19%-IF-Dow
2115 DOW BUTYL 265, Butyl esters of 2,4-D 39.0%-H-Dow
2116 DOW BUTYL 400, Butyl esters of 2,4-D 55.4%-H-Dow
2117 DOW CRABGRASS KILLER LIQUID, O-(2,4-Dichlorophenyl) O-methyl isopropylphosphoramidothioate 35%-H-Dow
2117.50 DOW CRABGRASS KILLER S & T, O-(2,4-Dichlorophenyl) O-Methylisopropylphosphoramidothioate 8%-H-Dow

2118 DOW 2,4-D SODIUM SALT, 2,4-Dichlorophenoxyacetate monohydrate, minimum 95%-H-Dow
2120 DOW ETHYLENE DIBROMIDE, Ethylene dibromide 100%-IF-Dow
2121 DOW GENERAL WEED KILLER, Dinitro-sec-butylphenol 55%-H-Dow
2122 DOW MCP AMINE WEED KILLER, Alkanolamine salts of MCP acid 69.1%-H-Dow
2123 DOW METHYL BROMIDE, Methyl bromide 100%-IF-H-Dow
2124 DOW SODIUM TCA 95%-H-Dow
2125 DOWFUME® 75, Ethylene dichloride 70%, carbon tetrachloride 30%,IF-Dow
2126 DOWFUME® C, Carbon bisulfide 12.1%, carbon tetrachloride 81.3%, ethylene dibromide 6.6%-IF-Dow
2127 DOWFUME® EB-5, Carbon tetrachloride 64%, ethylene dibromide 7%, ethylene dichloride 29%-IF-Dow
2128 DOWFUME® EB-15 INHIBITED, Carbon terachloride 57%, ethylene dibromide 20%, ethylene dichloride 20%-IF-Dow
2129 DOWFUME® EB-30, Ethylene dibromide 30%, methyl bromide 70%-IF-Dow
2130 DOWFUME® EB-59, Carbon tetrachloride 32%, ethylene dichloride 9%, ethylene dibromide 59%-IF-Dow
2131 DOWFUME® EB-70, Ethylene dibromide 70%, methyl bromide 30%-IF-Dow
2132 DOWFUME® F, Carbon tetrachloride 27%, ethylene dibromide 5%, ethylene dichloride 65%, sulfur dioxide 3%-IF-Dow
2133 DOWFUME® MC-2, Chloropicrin 2%, methyl bromide 98%-IF-Dow
2133.50 DOWFUME® MC-33, Chloropicrin 33%, methyl bromide 67%-IF-Dow
2134 DOWFUME® V, Carbon tetrachloride 85.1%, ethylene dibromide 2.8%, ethylene dichloride 12.1%-IF-Dow
2135 DOWFUME® W 85, Ethylene dibromide 83%-IF-Dow
2136 DOWICIDE® 1, Orthophenylphenol 98%-F-Dow
2137 DOWICIDE® 2, Trichlorophenol 95%-F-Dow
2138 DOWICIDE® 2S, 2,4,6-*Trichlorophenol* 90%-F-Dow
2139 DOWICIDE® 4, 2-Chloro-4-phenyl phenol 88%-F-Dow
2140 DOWICIDE® 6, Tetrachlorophenol 9%-F-Dow
2141 DOWICIDE® 6 CONC., Tetrachlorophenol 64%-F-Dow
2142 DOWICIDE® 7, Pentachlorophenol 86%, other chlorophenols 10%-WP-Dow
2143 DOWICIDE® 31, Chlor-*o*-phenylphenol 90%-F-Dow
2144 DOWICIDE 32, Chlor-*o*-phenylphenol 90%-F-Dow
2146 DOWICIDE® A, Sodium *o*-phenylphenate-4H_2O 97%-F-Dow
2147 DOWICIDE® B, Sodium trichlorophenate 85%-F-Dow
2148 DOWICIDE® F, Sodium tetrachlorophenate 80%-F-Dow
2149 DOWICIDE® G, Sodium pentachlorophenate 79%, sodium salts of other chlorophenols 11%-F-Dow
2151 DOWPON®, Sodium 2,2-dichloropropionate 85%-H-WP-Dow
2152 DOWPON GRASS KILLER BAR, Diethylene glycol bis-ester of dalapon 20%-H-Dow
2152.50 DOWZENE® 34, Piperazine monohydrochloride 44%-IC-Dow
2153 DOWZENE® DHC, Piperazine dihydrochloride 97%-IC-Dow
2154 DR. LOEBEL'S 5% RESIDUAL INSECTICIDE, DDT 5%, n-octyl bicycloheptene dicarboximide 0.161%, piperonyl butoxide 0.098%, pyrethrins 0.049%, oil 94.51%-I-Huntington
2155 DR. LOEBEL'S MILL INSECTICIDE, N-Octyl bicycloheptene dicarboximide 0.161%, oil 99.692%, piperonyl butoxide 0.098%, pyrethrins 0.049%-I-Huntington
2157 DR. MERRICK'S SCRATCHEX MEDICATED POWDER FOR DOGS, Gamma BHC (from lindane) 1%, hexachlorophene 0.5%, mercaptobenzothiazole 1.5%, propylene glycol 3%, essential oil 0.2%-FI-Westchester Vet. Prod.
2158 DR. MERRICK'S SCRATCHEX MEDICATED POWDER FOR CATS, Boric acid 3%, (butyl carbityl) (6-propyl piperonyl) ether 0.4%, essential oil 0.2%, hexachlorophene .25%, piperonyl butoxide 0.5%, propylene glycol 2%, pyrethrins 0.05%, rotenoids 0.5%, rotenone 0.25%-I-Westchester Vet. Prod.
2159 DRAGON FLOWER DUST, 2-(*p-tert* Butylphenoxy) isopropyl 2-chloroethyl sulfite 1.5%, DDT 5%, lindane 1%, sulfur 25%, zineb 6%-FI-J. M. Harris
2160 DRAGON ROSE DUST 2-(*p-tert* Butylphenoxy) isopropyl, 2-chloroethyl sulfite 1.5%, DDT 5%, lindane 1%, sulfur 25%, zineb 6%-FI-J. M. Harris
2161 DRAGON SABADILLA DUST, Alkaloids of sabadilla 0.80%-I-J. M. Harris
2162 DRAGON TOMATO DUST, Copper 7% (tri-basic copper sulphate)-F-J. M. Harris
2163 DRAGON VEGETABLE DUST, Methoxychlor 5%, rotenone 0.75%, rotenoids 1.25%, sulfur 10%, zineb 5%-FI-J. M. Harris
2164 DRAGON SEVIN® 50 WETTABLE, Carbaryl 50%-I-J. M. Harris
2165 DRIANONE, Ammonium fluosilicate 1.88%, oil 49%, piperonyl butoxide 10%, pyrethrins 1%, silica gel 38.1%-I-Empire
2165.50 DRI-DIE INSECTICIDE #67, Silica aerogel-I-Fairfield
2166 DRINOX, Aldrin 30%-ST-I-Morton

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2167 DRINOX H-34, Heptachlor 24.5%-ST-I Morton
2169 DROP-TOX CHLORDANE DUST 6%-I-Stephenson
2170 DROP-TOX DDT DUST 10%-I-Stephenson
2171 DROP-TOX DDT 50% WETTABLE POWDER-I-Stephenson
2172 DROP-TOX PINE BEETLE & TURPENTINE BEETLE SPRAY, BHC 1 lb./gal. emul conc.-I-Stephenson
2173 DROP-TOX ROTENONE 0.75% DUST-I-Stephenson
2174 DROP-TOX ROTENONE 1% DUST-I-Stephenson
2175 DRYCIDE, Coal tar phenols 0.25%, DDT 1%, naphthalene 1.5%-F-Hess & Clark
2176 DRY VANCIDE 51, Sodium dimethyldithiocarbamate 82.8%, sodium 2-mercapto-benzothiazole 7.2%. For industrial use.-F-Vanderbilt
2177 DUAL-TRETE, Aldrin 25%, hexachlorobenzene 17%-ST-Chipman
2178 DUBL-DETH, Chlordane 10%, dieldrin 10%, malathion 13%, toxaphene 5%, xylene 55%-I-Destruxol
2179 DU-MORE, Knapsack sprayer-E-Hudson
2180 DU PONT APHID & MITE SPRAY, Malathion 50%-I-DuPont (F & F)
2181 DU PONT 6% CHLORDANE DUST-I-DuPont (I & F)
2182 DU PONT 72% CHLORDANE INSECTICIDE, Chlordane 72%-I-DuPont (F & F)
2184 DU PONT CRABGRASS KILLER, Dodecyl ammonium methyl arsenate 8%, octyl ammonium methyl arsonate 8%-H-DuPont (F & F)
2184.50 DU PONT CRABGRASS KILLER DSMA, Methanearsonic acid, disodium salt 3%-H-Du Pont (F & F)
2185 DU PONT DAIRY CATTLE INSECTICIDE, Methoxychlor 50%-I-DuPont (I & B)
2186 DU PONT 50% DDT INSECTICIDE-I-Du Pont (F & F)
2187 DU PONT DEENALL, Carbaryl 5%, 4,4'-dichloro-*alpha*-trichloromethylbenzyhydrol 3%, folpet 7.5%-FI-Du Pont (F & M)
2189 DU PONT DORMANT AND SUMMER SPRAY OIL, Malathion 12.75%, paraffinic type petroleum oils 54.2%-I-DuPont (F & F)
2190 DU PONT EMULSIFYING AGENT A, Amine salts of alkyl, and alkyl aryl sulfonates-A-DuPont (I & B)
2191 DU PONT EPN 300 INSECTICIDE (WETTABLE POWDER), Ethyl-*p*-nitrophenylthionobenzenephosphonate 25%-I-DuPont (I & B)
2192 DU PONT "FERMATE® FERBAM FUNGICIDE (76%)-F-Du Pont (F & F)
2193 DU PONT FRUIT TREE SPRAY, Ferbam 15.2%, methoxychlor 12.5%, sulfur 24.2%-FI-Du Pont (F & F)
2194 DU PONT JAPANESE BEETLE KILLER, Carbaryl 50%-I-Du Pont (F & F)
2195 DU PONT LAWN INSECTICIDE, Chlordane 2[illegible]%-I-DuPont (F & F)
2196 DU PONT LAWN WEED KILLER, Dimethylamine 2,4-D 13.9%-H-DuPont (F & F)
2197 DU PONT LAWN WEED KILLER NO. 2, Dimethylamine 2,4-D 26.7%-H-DuPont (F & F)
2197.50 DU PONT "OUST" CRABGRASS PREVENTER D, Dimethyl ester of tetrachloroterephthalic acid 5.0%-H-Du Pont (F & F)
2198 DU PONT ROSE CANE SEALER, Asphaltic oils-I-DuPont (F & F)
2200 DU PONT 1% ROTENONE SPRAY OR DUST, 1.5% Rotenoids, 1% rotenone-I-DuPont (F & F)
2200.50 DU PONT SMITH GARDEN INSECTICIDE, Malathion 12.5%, methoxychlor 12.5%-I-Du Pont (F & F)
2201 DU PONT SPREADER-STICKER, Sodium sulfates of 1 mixed long chain alcohol fatty acid esters and diethylene glycol abietate 88%-A-DuPont (I & B) (F & F)
2202 DU PONT "SULFORON"® X WETTABLE SULFUR, Sulfur 95%-FI-Du Pont (F & F)
2202.50 DU PONT 50% TECH. METHOXYCHLOR INSECTICIDE-I-Du Pont (F & F)
2203 DU PONT 90% TECHNICAL METHOXYCHLOR OIL CONCENTRATE, Methoxychlor 90%-IC-DuPont (I & B)
2203.50 DU PONT "TERSAN"® 75, Thiram 75%-F-Du Pont (F & F)
2204 DU PONT TOMATO-VEGETABLE SPRAY OR DUST, Methoxychlor 5%, rotenone 0.75%, zineb 5.2%-FI-DuPont (F & F)
2205 DU PONT TREE WOUND DRESSING, Asphaltic oils-I-Du Pont (F & F)
2206 DU PONT VPM SOIL FUMIGANT, Sodium methyl dithiocarbamate 32.7%-IF-Du Pont (I & B)
2207 DURASET-20W, N-*meta*-tolyl phthalamic acid 20%-PH-U. S. Rubber (Naugatuck)
2208 DUSTOX (Dust, spray, or dip), Rotenone 1.67%-I-Agkem
2209 DWIN AEROSOL INSECT BOMB, Allethrin 0.[illegible]%, octyl sulfoxide of isosafrole 1.76%, oil 12.59%, pyrethrins 0.10%-IA-Boyle-Midway
2210 DYBAR®FENURON WEED & BRUSH KILLER, Fenuron 25%-H-Du Pont (I & B)
2210.50 DYLOX® SOLUBLE POWDER, Trichlorofon-I-Chemagro Corp.
2211 DYNA-FOG "70" INSECTICIDE FOG GENERATOR-E-Curtis
2212 DYNA-FOG "150" INSECTICIDE FOG GENERATOR-E-Curtis
2213 DYNA-FOG "300" INSECTICIDE FOG GENERATOR-E-Curtis

DU PONT
PEST CONTROL CHEMICALS

FUNGICIDES

- MANZATE® D maneb fungicide
- MANZATE® maneb fungicide
- PARZATE® C zineb fungicide
- FERMATE® ferbam fungicide
- ZERLATE® ziram fungicide
- THYLATE® thiram fungicide

INSECTICIDES

- MARLATE® methoxychlor insecticides
- DEENATE® DDT insecticide
- EPN insecticide

OTHER CHEMICALS

- VPM soil fumigant
- TERSAN® thiram turf fungicides
- SPREADER-STICKER
- SURFACTANT WK

WEED & BRUSH KILLERS

- TELVAR® monuron weed killer
- KARMEX® diuron weed killer
- KLOBEN® neburon weed killer
- DYBAR® fenuron weed and brush killer
- TRYSBEN® 200 weed and brush killer
- AMMATE® X weed and brush killer
- LOROX™ linuron weed killer
- HYVAR® X Bromacil weed killer

SEED DISINFECTANTS

- CERESAN® seed disinfectants liquid and dry
- ARASAN® seed disinfectant and protectants
- SEMESAN® seed disinfectants
- MERSECT™ aldrin seed insecticide

On All Chemicals Follow Labeling Instructions and Warnings Carefully

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INDUSTRIAL AND BIOCHEMICALS DEPT. • Wilmington 98, Delaware

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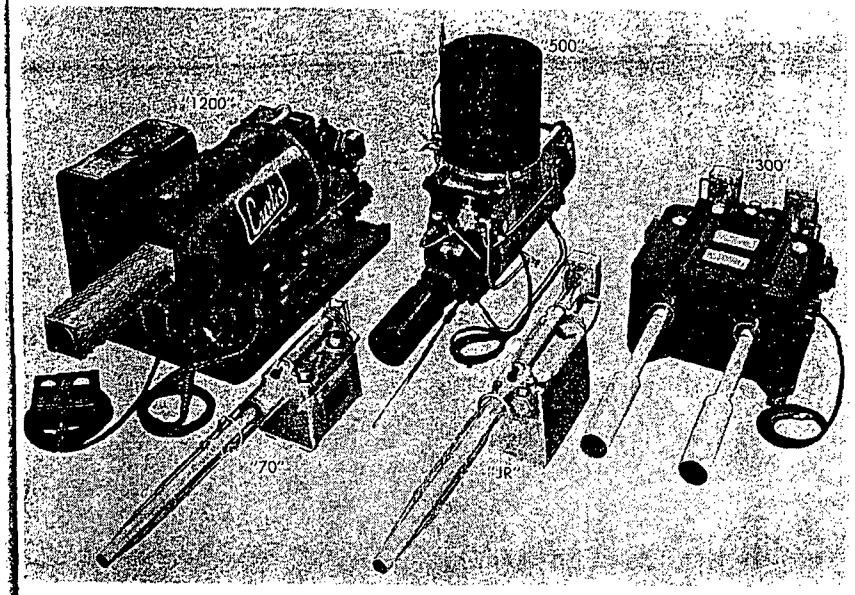
2214 DYNA-FOG "400" INSECTICIDE FOG GENERATOR-E-Curtis
2215 DYNA-FOG "500" INSECTICIDE FOG GENERATOR-E-Curtis
2216 DYNA-FOG "1200" INSECTICIDE FOG GENERATOR-E-Curtis
2217 DYRENE®, 2,4-Dichloro-6-(o-chloroanilino) triazine-F-Chemagro
2218 EASTERN STATES ANT-CUTWORM DUST, Chlordane 10%-I-Eastern States
2219 EASTERN STATES ANT-ROACH SPRAY, 0.046 Pyrethrins, 0.115% piperonyl butoxide, 2.0% chlordane, 0.839% oil-I-Eastern States
2220 EASTERN STATES 5% CAPTAN DUST-F-Eastern States
2221 EASTERN STATES 5% CHLORDANE DUST-I-Eastern States
2222 EASTERN STATES CHLORDANE INSECT SPRAY, 73.1% Chlordane-I-Eastern States
2223 EASTERN STATES 7% COPPER-5% DDT DUST, Basic copper sulfate, DDT-FI-Eastern States
2224 EASTERN STATES 7% COPPER 1% ROTENONE DUST, Copper 7%, rotenone 1%, rotenoids 3%-FI-Eastern States
2225 EASTERN STATES 5% DDT DUST-I-Eastern States
2226 EASTERN STATES DDVP FLY BAIT, DDVP 0.5%-IB-Eastern States
2227 EASTERN STATES DUOCIDE CONC., Pindone 0.25%-R-Eastern States
2228 EASTERN STATES DUOCIDE MIXED BAIT, Pindone 0.25%-R-Eastern States
2229 EASTERN STATES DUOCIDE SOLUBLE BAIT, Sodium salt of pindone 0.14%-R-Eastern States
2230 EASTERN STATES DUOCIDE CHUCKS, Pindone 0.025%-R-Eastern States
2231 EASTERN STATES FACE FLY BAIT, DDVP 0.5%-IB-Eastern States
2232 EASTERN STATES GARDEN AND ORCHARD DUST, Captan 7%, methoxychlor 5%, malathion 4%-FI-Eastern States
2233 EASTERN STATES GARDEN AND ORCHARD SPRAY, Captan 18.75%, malathion 6.25%, methoxychlor 12.50%, 1,1 bis (chlorophenyl) 2,2,2-trichloro-ethanol 1.73%-FI-Eastern States
2234 EASTERN STATES GARDEN WEED KILLER NO. 1, Simazine 4%-H-Eastern States
2235 EASTERN STATES GARDEN WEED KILLER NO. 2, Dinitrobutylphenol 10%-H-Eastern States
2236 EASTERN STATES INSECT REPELLENT, N,N-diethyl-metatoluamide 12.75%-IR-Eastern States
2237 EASTERN STATES LAWN PESTICIDE, Aldrin 1.95%-I-Eastern States
2238 EASTERN STATES LIVESTOCK SPRAY, Di-n-propyl isocinchomeronate 0.4%, N-octyl bicycloheptene dicarboximide 0.166%, oil 98.684%, organic thiocyanates 0.6%, piperonyl butoxide 0.10%, pyrethrins 0.05%-I-Eastern States
2239 EASTERN STATES LOUSE, TICK, AND FLEA POWDER, Malathion 4%-I-Eastern States
2240 EASTERN STATES 4% MALATHION DUST-I-Eastern States
2241 EASTERN STATES 5% METHOXYCHLOR DUST-I-Eastern States
2242 EASTERN STATES MOTH CRYSTALS, 100% P-dichlorobenzene-IF-Eastern States
2243 EASTERN STATES MOTHPROOFER, Terpene polychlorinates 5%-MP-Eastern States
2244 EASTERN STATES NAA-800, 800 grams Naphthalene acetic acid per gallon-PH-Eastern States
2245 EASTERN STATES NAA SPRAY, Contains 1 gram naphthalene acetic acid per fluid ounce-PH-Eastern States
2246 EASTERN STATES ORNAMENTAL SPRAY, DDT 11.86%, dimethoate 11.86%-I-Eastern States
2247 EASTERN STATES 1% PARATHION DUST-I-Eastern States
2248 EASTERN STATES PET SPRAY, 1-Naphthyl N-methylcarbamate 0.50%, oil 0.12%, piperonyl butoxide 0.50%, pyrethrins 0.05%-I-Eastern States
2249 EASTERN STATES 10% PHENYL MERCURY ACETATE-F-Eastern States
2250 EASTERN STATES PHENYL MERCURY LACTATE, 7.5% Phenyl mercuric triethanol ammonium lactate-F-Eastern States
2250.50 EASTERN STATES POULTRY DUST, Carbaryl 5%-Eastern States
2251 EASTERN STATES POULTRY PESTICIDE Malathion 50%-I-Eastern States
2252 EASTERN STATES ROSE AND FLORAL DUST, 1.5% 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite, 5% DDT, lindane 1%, 5.2% zineb, 2,4-dinitro-6-(2-octyl) phenyl crotonate-FI-Eastern States
2253 EASTERN STATES ROSE AND FLORAL MIST, Folpet 0.7%, 1-naphthyl n-methylcarbamate 1%, oil 0.06%, piperonyl butoxide 0.256%, pyrethrins 0.025%, rotenone 0.128%-FI-Eastern States
2254 EASTERN STATES ROSE AND FLORAL SPRAY, 4% 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite, 13.80% DDT, 2.60% lindane, 14.40% zineb, 2.6% 2,4-dinitro-6-(2-octyl) phenyl crotonate-FI-Eastern States
2255 EASTERN STATES 1% ROTENONE DUST, 1% Rotenone, 3% rotenoids-I-Eastern States
2256 EASTERN STATES 5% SEVIN® DUST, Carbaryl 5%-I-Eastern States

FOREMOST IN FOGGING

DYNA-FOG TRADE-MARK

INSECTICIDE APPLICATORS

The World's Most Complete Family of Fogging Equipment



There's a DYNA-FOG to Fit Your Fogging Application, Indoors or Outdoors

DYNA-FOG equipment is:

- Efficient — produces more fog per pound of weight and dollar of cost than any other known device.
- Safe — no high pressure tanks of explosive gases.
- Guaranteed — carries the famous Curtis One Year Guarantee, unexcelled in the field.

Remote fog control available on Models "400" and "500" — Model "1200" fully remote controlled.

DYNA-FOG Insecticide Fogging Machines obtain their exceptional efficiency by the speed in which liquid insecticide is vaporized. All models, excepting the "1200," utilize resonant pulse jet engines which produce greatest insecticide output with least weight. Only one moving metallic part in these gasoline-operated jets creates power sufficient for great clouds of fog. For broadest area application, most economically, the DYNA-FOG "1200" utilizes automatic household type fuel oil heat for insecticide vaporization. There is a DYNA-FOG model for every fogging application.

Model	Output Capacity	Weight (lbs.)
70	7 gals/hr	18
150	15 gals/hr	21
400	30 gals/hr	110
500	50 gals/hr	100
1200	120 gals/hr	595

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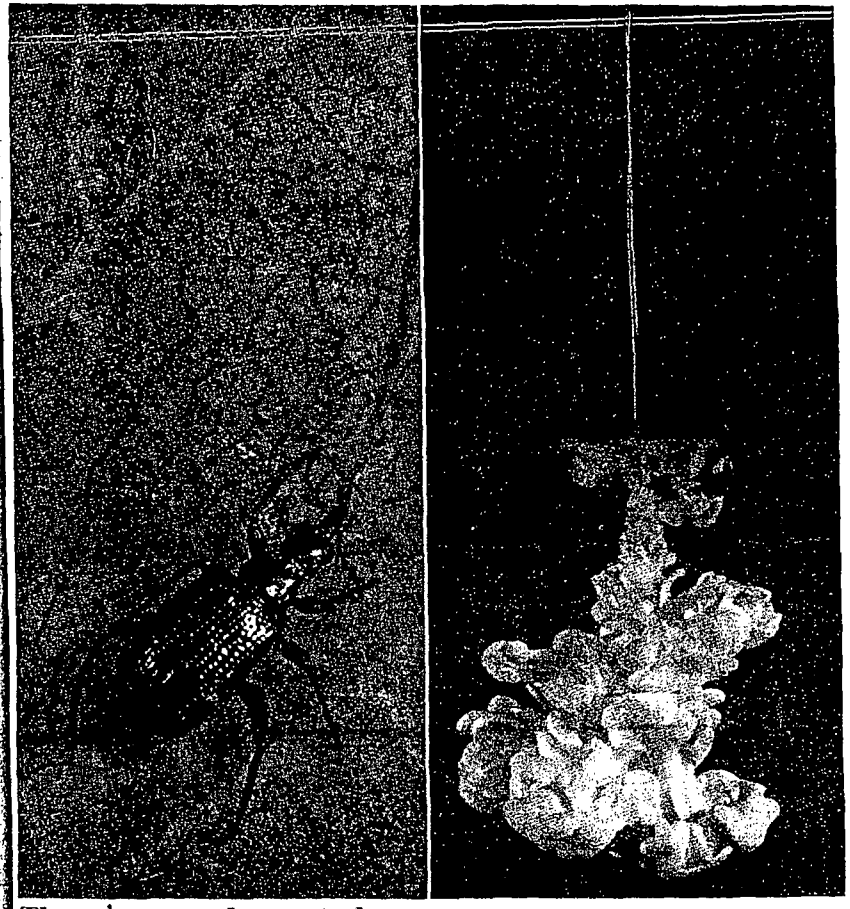
2257 EASTERN STATES SLAYMIST INSECTICIDE, Oil bicycloheptene dicarboximide 1%, oil 18.1%, piperonyl butoxide 0.6%, pyrethrins 0.3%-I-Eastern States
2258 EASTERN STATES SPRAY OIL, Oils 99.25%-I-Eastern States
2259 EASTERN STATES THIODAN® MISCIBLE OIL, Endosulfan 24%, oil-I-Eastern States
2260 EASTERN STATES 7.5% THIRAM DUST-F-Eastern States
2261 EASTERN STATES TOMATO POTATO DUST, Endosulfan 3%, zineb 5%-FI-Eastern States
2262 EASTERN STATES 10% ZERLATE®-3% METHOXYCHLOR DUST-FI-Eastern States
2263 EATON'S A-C FORMULA RAT & MOUSE BAIT, Coumafuryl 0.025%-R-Eaton
2264 EATON'S "ALL-WEATHER" BAIT BLOCKS WITH DIPHACIN (0.005%)-R-Eaton
2265 EATON'S "ALL-WEATHER" BAIT BLOCKS WITH FUMARIN (0.025%), Coumafuryl 0.025%-R-Eaton
2266 ECCOTHAL, Thallium sulfate 99%-I-R-European Chem.
2267 ECON-O-MIST, Orchard and Grove Air Blast High Concentrate sprayer-E-Marlow Pumps
EDB = ETHYLENE DIBROMIDE
EDC = ETHYLENE DICHLORIDE
2269 EDCO MBX, Methyl bromide 26%-IF-Edco
2270 EDCO NEMADRENCH, 1,2-Dibromo-3-chloropropane 67.2%, related compounds 3.8%-IF-Edco
2271 EDCO OMAZENE 50W, Copper 50%, dihydrazinium sulfate-F-Edco
2272 ELCO CBM, (Fabric pest killer), Malathion, DDT, pyrethrins, oil, piperonyl, butoxide-I-Elco
2273 ELCO-CIDE, Chlordane 2%, DDT 3%, oil, pyrethrins 0.018%, synergist 0.07%-I-Elco
2274 ELCO CREOSOTE, Coal tar oils 97%-WP-Elco
2275 ELCO PENTA CHLORDANE TERMITE KILLER RTU, Chlordane 0.5%, oil, pentachlorophenol 5%-WP-Elco
2276 ELCO ROACH & ANT POWDER, Chlordane 2%, DDT 5%, sodium fluoride 50%-I-Elco
2277 ELCO TURF PEST KILLER, Chlordane 50%, oil-I-Elco
2278 ELEC-TREX, Oil 98%, piperonyl butoxide 1.5%, pyrethrins 0.5%-I-Rex
2279 E-LECTRIC, ELECTROCUTING FLY SCREENS AND FLY TRAPS-E-Detjen
2280 444 ELECTRIC FOG SPRAYER (Insecticide Applicator)-E-Chem. Spec. Corp.
2281 E-LECTRIC, INSECT ELECTROCUTING LANTERNS-E-Detjen
2282 ELGETOL®, Sodium dinitro-*o*-creyslate 19%-F-Niagara Chem.
2283 ELGETOL® 318, Triethanolamine salt of 4,6-dinitro-*o*-*sec*-butyl phenol 36%-F-Niagara Chem.
2284 EMCOL H-2A TYPE, Emusifier for liquid herbicide-liquid fertilizer mixtures-A-Witco Chem. Co.
2285 EMCOL H-53, Emulsifier for dormant spray oil concentrates-A-Witco Chem. Co.
2286 EMCOL H-65C, Solubilizer for liquid chlordane concentrates-A-Witco Chem. Co.
2287 EMCOL H-83T, Emusifier for toxaphene, aldrin, and chlordane emulsifiable concentrates-A-Witco Chem. Co.
2288 EMCOL H-85T, Emulsifier for DDT, phosdrin, endrin emulsifiable concentrates-A-Witco Chem. Co.
2289 EMCOL H-140, Emulsifier for malathion emulsifiable concentrates-A-Witco Chem. Co.
2290 EMCOL H-141, Emulsifier malathion concentrates-A-Witco Chem. Co.
2291 EMCOL H-300X & EMCOL H-500X, Matched pair emulsifiers for broad range of insecticide emulsifiable concentrates-A-Witco Chem. Co.
2292 EMCOL H-710, 2,4-D and 2,4,5-T ester concentrate emulsifier-A-Witco Chem. Co.
2293 EMCOL H-712, 2,4-D and 2,4,5-T ester concentrate emulsifier-A-Witco Chem. Co.
2294 EMCOL H-714, 2,4-D and 2,4,5-T ester concentrate emulsifier-A-Witco Chem. Co.
2295 EMCOL H-A, Emulsifier for liquid pesticide-liquid fertilizer mixtures-A-Witco Chem. Co.
2296 EMCOL H-B, Emulsifier for liquid pesticide-liquid fertilizer mixtures-A-Witco Chem. Co.
2297 EMCOL H-C, Emulsifier for liquid pesticide-liquid fertilizer mixtures-A-Witco Chem. Co.
EMMI® = N-ETHYLMERCURI-1,2,3,6-TETRAHYDRO-3,6-ENDOMETHANO-3,4,5,-6,7,7-HEXACHLOPHTHALIMIDE
2297.50 EMDANE, Chlordane 2%, oil 98%-I-Empire
2298 EM-N-O, Manganous oxide-55% Manganese-N-Andrews
2299 EMTAL 33A TALC-Eastern Magnesia
2300 EMTAL-42A TALC-D-Eastern Magnesia
2301 EMULPHOR EL-620, Polyoxyethylated vegetable oil 100%-A-General Aniline
2302 EMULPHOR EL-719, Polyoxyethylated vegetable oil 96%-A-General Aniline
2303 EMULPHOR VN-430, Polyxyethylated fatty acid 100%-A-General Aniline



There's a good way to keep the wallop in pesticides

Emcol® emulsifiers.

Interested in improving the stability of your emulsifiable pesticide concentrates? Why not try Emcol emulsifiers. The longer shelf life you get will please you. Emcol emulsifiers offer extra savings, too. Use levels are low with no sacrifice in performance.
What's more, Emcol emulsifiers have real talent for versatility. Only a few emulsifiers are needed for formulating a wide variety of concentrates. And that means fewer inventory problems.
Stability, economy and versatility like this are possible only through the precise balance of just the right combination of ingredients—a balance that Emcol has achieved through years of experience in agricultural emulsifiers.
If you have a formulation problem, maybe we can help. We welcome your inquiries.

WITCO CHEMICAL CO., INC.
Organic Chemicals Division, Dept. __
122 East 42nd St., New York 17, New York

958870147

2304 EMULSAMINE BRUSH KILLER, Oil soluble amine of 2,4-D and 2,4,5-T; 1½ plus, 1½ lb. acid equiv./gal.-H-Amchem Prods.
2305 EMULSANE-T, Oil soluble amine of 2,4,5-T; 3 lb. acid equiv./gal.-H-Amchem Prods.
2306 ENCO HERBICIDAL OIL 527, Petroleum hydrocarbons 100%-H-Humble
2307 ENCO ORCHEX 696, Mineral oil 100%-I-Humble
2308 ENCO ORCHEX 780, Mineral oil 100%-I-Humble
2309 ENCO ORCHEX 792, Mineral oil 100%-I-Humble
2310 ENCO ORCHEX 796, Mineral Oil 100%-I-Humble
2311 ENCO ORCHEX 1080, Mineral oil 100%-I-Humble
2312 ENCO ORCHEX N-790, Mineral oil 99.6%-I-Humble
2313 ENCO WEED KILLER 35, Petroleum hydrocarbons 100%-H-Humble
2314 ENCO WEED KILLER 38, Petroleum hydrocarbons 100%-H-Humble
2315 ENCO WEED KILLER 75, Petroleum hydrocarbons 100%-H-Humble
2316 ENCO WEED KILLER 76, Petroleum hydrocarbons 100%-H-Humble
2317 END-o-LAWN WEED SPRAY (Hose Sprayer), Butoxy ethoxy propanol ester of 2,4-D 7.5%, butoxy ethoxy propanol ester of 2,4,5-T 2.5%-H-Swift
2318 END-o-PEST ANT & LAWN INSECT DUST, Chlordane 8%, lethane 1%-I-Swift
2319 END-o-PEST ANT & LAWN INSECT LIQUID, Chlordane 45%-I-Swift
2320 END-o-PEST EVERGREEN & ORNAMENTAL SPRAY (Hose Sprayer), 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 2%, malathion 8%, TDE 5%-I-Swift
2321 END-o-PEST GARDEN DUST, Pyrethrins 0.10%, rotenone 1%, rotenoids 1.50%, sulfur 10%, zineb 3.25%-FI-Swift
2322 END-o-PEST ROSE DUST, Captan 7.5%, DDT 5%, 2,4-dinitro-6-(2-octyl) phenyl crotonate, malathion 4.5%-FI-Swift
2323 END-o-PEST ROSE AND GARDEN SPRAY (Aerosol), DDT 0.12%, dichlone 0.12%, methoxychlor 0.3%, MGK 264, pyrethrins 0.02%, rotenoids 0.2%, rotenone 0.1%, synergist 0.30%-IA-Swift
2324 END-o-WEED, 2,4-D WEED KILLER, Butoxy ethoxy propanol esters of 2,4-D 10.98%, and 2,4,5-T 5.18%-H-Swift
ENDOSULFAN = 6,7,8,9,10,10-HEXACHLORO-1,5,5a,6,9,9a-HEXAHYDRO-6,9-METANO-2,4,3-BENZODIOXATHIEPIN-3-OXIDE (THIODAN®)
ENDOTHALL=DISODIUM SALT OF 3,6-ENDOXOHEXAHYDROPHTHALIC ACID
ENDOTHION = S-(5-METHOXY-4-OXO-4H-PYRAN-2YL) O,O-DIMETHYL PHOSPHOROTHIOATE or O,O-DIMETHYL S-(5-METHOXY-4-OXO-4H-PYRAN-2YL) PHOSPHOROTHIOATE
2325 ENDRIN, TECHNICAL, Purity as labeled, minimum endrin content 95% (equivalent to 95% hexachloroepoxyoctahydro-endo, endo-dimethanonaphthalene)-IC-Shell
2326 ENDRIN, TECHNICAL 92%, 1,2,3,4,10,10-Hexachloro-6,7-epoxy-1,4,4a,5,6,7,8,8a-octahydro-1,4-*endo, endo*-5,8-dimethanoaphthalene-IC-Velsicol
2327 ENDRI-SOL, Endrin 19.5%-I-Woolfolk
2328 ENDURO SPRAY SULPHUR, Sulfur 90%-FI-Fla. Agri. Supply Co.
2329 ENIDE 50W, 50% N,N-dimethyl-2,2-diphenylacetamide (diphenamid)-H-Upjohn
2330 ENTEX® INSECTICIDE, O-O-dimethyl O-(4-(methylthio)-m-tolyl) phosphrothioate-IB-Penick
2331 ENTEX® SPRAY CONCENTRATE, O'O-Dimethyl O-(4-methylthio m-tolyl) phosphorthioate-I-Chemagro
2332 ENVERT-DT, Invert emulsion of 2,4-D and 2,4,5-T; 1 plus 1 lb. acid equiv./gal.-H-Amchem Prods.
2333 ENVERT-T, Invert emulsion of 2,4,5-T, 2 lb. acid equiv./gal.-H-Amchem Prods.
2334 EPN® TECHNICAL, Ethyl p-nitrophenyl thionobenzene phosphonate-IC-Du Pont (I & B)
EPTC = ETHYL DI-n-PROPYLTHIOLCARBAMATE
2335 ERASE, Methanearsonic acid 7.2%-H-Scott
ERBON = 2,(2,4,5-TRICHLOROPHENOXY) ETHYL 2,2-DICHLOROPROPIONATE
2335.50 ERBON®, 2-(2,4,5-*Trichlorophenoxy*) *ethyl 2,2-dichloropropionate* 42%-H-Dow
2336 ERSKIN'S ROSE & FLORAL DUST, Ferbam 10%, malathion 4%, rotenoids 1.85%, rotenone 1%, sulfur 20%-FI-Chem. Formulators
2337 ES-MIN-EL, Boron, copper, iron, manganese, magnesium, zinc-N-Tenn. Corp.
2338 ESPESOL 1, Aromatic solvent and diluent for pesticides-D-Signal
2339 ESPESOL 2, Aromatic solvent and diluent for pesticides-D-Signal
2340 ESPESOL 3, Aromatic solvent and diluent for pesticides-D-Signal
2341 ESPESOL 3-A, Aromatic solvent and diluent for pesticides-D-Signal
2342 ESPESOL 3-B, Aromatic solvent and diluent for pesticides-D-Signal
2343 ESPESOL 5, Aromatic solvent and diluent for pesticides-D-Signal
2344 ESPESOL 5-X, Aromatic solvent and diluent for pesticides-D-Signal
2345 ESPESOL 5° XYLENE, Aromatic solvent and diluent for pesticides-D-Signal
2346 ESSO BAYOL N-350, Specially refined petroleum distillate 94%, tobacco desuckering-H-Humble

VELSICOL PESTICIDES:

INSECT, WEED, AND PLANT DISEASE CONTROLS

Velsicol pesticides have demonstrated great utility, throughout the world. If you are interested in the protection of food or fiber crops, public health, pest control operation, or related fields, we would like to offer you technical information about these versatile compounds. Please write Velsicol Chemical Corporation, 341 E. Ohio Street, Chicago, Ill. 60611

HERBICIDES	BANDANE	Pre-emergence crabgrass control that's safe for new and established lawns.
	BANVEL D	A herbicide for control of broadleaved perennial weeds in turf.
INSECTICIDES	CHLORDANE	A broad range chlorinated hydrocarbon insecticide. The leading lawn, garden, household insecticide.
	ENDRIN	An insecticide that is effective against many hard to kill insect pests of cotton, tobacco, tree fruits, etc.
	HEPTACHLOR	A versatile chlorinated hydrocarbon insecticide. Widely used for soil insect control on major crops.
	METHYL PARATHION	A versatile insecticide used in combination with Endrin in all purpose sprays and dusts.
FUMIGANTS	ETHYLENE DIBROMIDE	An insecticidal fumigant, nematocide and soil insecticide. Usually used in combination with methyl bromide.
	METHYL BROMIDE	An insecticidal fumigant, rodenticide, nematocide, and herbicide.
FUNGICIDES	EMMI	Used for control of smut, blight, and decay on small grains. Also controls scab, fusarium and curvularia on gladiolus corms. Also used to control dollar spot and brown patch on St. Augustine, Bermuda and Zoysia grasses.
	FERBAM	Fungicide used in control of scab and cedar apple rust and as a protective fungicide for other crops. Also used to control blue mold in tobacco plant beds.
	ZIRAM	Fungicide used extensively on vegetables and on some fruit crops. Best used as a preventive treatment.
	2-1	Turf fungicide used to control brown patch, dollar spot, snow mold and other turf diseases.
	PMA	An organic foliage fungicide also used for post emergence crabgrass control, seed treatment, and turf disease control.

VELSICOL

VELSICOL CHEMICAL CORPORATION/341 E. Ohio St., Chicago, Ill. 60611
VELSICOL INTERNATIONAL CORP., C.A./P. O. Box 1687, Nassau, Bahamas, B.W.I.
VELSICOL CORPORATION OF CANADA, LIMITED/2 Carlton St., Suite 1018, Toronto 2, Canada
VELSICOL INTERNACIONAL DE MEXICO S.A. DE C.V./Morelos No. 110-Desp. 809, Mexico 6, D.F.

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2347 ESSO ORCHEX 696, Mineral oil 100%-I-Humble
2348 ESSO ORCHEX 780, Mineral Oil 100%-I-Humble
2349 ESSO ORCHEX, Mineral oil 100%-I-Humble
2350 ESSO ORCHEX 796, Mineral oil 100%-I-Humble
2351 ESSO ORCHEX 1080, Mineral oil 100%-I-Humble
2352 ESSO ORCHEX N-790, Mineral oil 99.6%-I-Humble
2353 ESSO WEED KILLER 35, Petroleum hydrocarbons 100%-H-Humble
2354 ESSO WEED KILLER 38, Petroleum hydrocarbons 100%-H-Humble
2355 ESSO WEED KILLER 75, Petroleum hydrocarbons 100%-H-Humble
2356 ESSO WEED KILLER 76, Petroleum hydrocarbons 100%-H-Humble
2357 ESSO WEED KILLER 80, Petroleum hydrocarbons 100%-H-Humble
2358 ESTERON® 44, Isopropyl ester 2,4-D 44%-H-Dow
2359 ESTERON® 99, Propylene glycol butyl ether esters 2,4-D 38% (acid equiv. 23.5%)-H-Dow
2360 ESTERON® BRUSH KILLER O.S., 2,4-D, propylene glycol butyl ether esters 34.8%, 2,4,5-T, propylene glycol butyl ether esters 33.6%-H-Dow
2361 ESTERON® BRUSH KILLER 3-3 O.S., Propylene glycol butyl ether esters of 2,4-D 47.5%, propylene glycol butyl ether esters of 2,4,5-T 45% (total acid equiv. 6 lb. per gal.)-H-Dow
2362 ESTERON® 245 CONCENTRATE, Propylene glycol butyl ether esters of 2,4,5-T 91% (6 lb. 1 gal. equivalent)-H-Dow
2363 ESTERON® 76-E, Isopropyl ester of 2,4-D 36.8%, butyl esters of 2,4-D 38.8%, (total acid equiv. 61.8%)-H-Dow
2364 ESTERON® 67-33 O.S., Propylene glycol butyl ether esters of 2,4-D 46.5%, propylene glycol butyl ether esters of 2,4,5-T 22%-H-Dow
2365 ESTERON® 245 O.S., 2,4,5-T propylene glycol butyl ether esters 65.3%-H-Dow
2366 ESTERON® T6 O.S., Propylene glycol butyl ether esters of 2,4,5-T 90.4% (6 lb. acid equiv. per gallon)-H-Dow
2367 ESTERON® TEN-TEN, Propylene glycol butyl ether esters 2,4-D 70.5% (acid equiv. 43.5%)-H-Dow
2368 ETHYL DNBP, 2-*sec*-butyl-4,6-dinitrophenol-I-H-Ethyl Corp.
2369 EULAN CN, Sodium pentachlorodihydroxy triphenyl methane sulfonate 88%-MP-General Aniline
2370 EULAVA SM, Magnesium silicofluoride-MP-General Aniline
2372 EUROPEAN CHEMICAL OMPA SCHRADAN-IC-European Chem.
2373 EUROPEAN CHEMICAL MERCURIC CHLORIDE-F-European Chem.
2374 EUROPEAN CHEMICAL MERCUROUS CHLORIDE-F-European Chem.
2375 EUROPEAN CHEMICAL NICOTINE ALKALOID-IC-European Chem.
2376 EUROPEAN CHEMICAL NICOTINE SULFATE-I-European Chem.
2377 EUROPEAN CHEMICAL STRYCHNINE ALKALOID-R-European Chem.
2378 EUROPEAN CHEMICAL STRYCHNINE SULFATE-R-European Chem.
2379 EUROPEAN CHEMICAL TETRAETHYL DITHIOPYROPHOSPHATE-IC-European Chem.
2380 EUROPEAN CHEMICAL THALLIUM SULFATE-IR-European Chem.
2381 EVANS HOME ORCHARD SPRAY OR DUST, Captan 15%, diazinon 15%, methoxychlor 15%, zineb 15%-FI-Evans
2382 EVANS ROSE SPRAY, Diazinon 12.5%, folpet 25%-FI-Evans
2383 EVANS SPECIAL BAGWORM & MITE SPRAY, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 4%, toxaphene 32.7%-I-Evans
2383.50 EXCELCIDE AEROSOL BOMB, N-Ethylhexyl bicycloheptene carboximide, piperonyl butoxide, pyrethrins-IA-Huge
2384 EXCELCIDE BAIT CAKES, Diphacin-R-Huge
2384.50 EXCELCIDE BEVERAGE CASE INSECT KILLER-REPELLENT, 2-Hydroxyethyl-N-octyl sulfide, N-octyl bicycloheptene, piperonyl butoxide, pyrethrins-I-Huge
2385 EXCELCIDE BIRD LIGHTS, To discourage bird-roosting-ANR-Huge
2385.50 EXCELCIDE BOTTLE CASE KILLER-REPELLENT, Dibutyl succinate, pyrethrins-I-Huge
2386 EXCELCIDE BUG-E-VICT DUST, Piperonyl butoxide, pyrethrins-I-Huge
2386.50 EXCELCIDE BVI INSECT FOGGER MODEL F-980, Portable electric sprayer-E-Huge
2387 EXCELCIDE CLOUD IX KILLER, Lindane-I-Huge
2387.50 EXCELCIDE CUNILATE MOLD INHIBITOR, 10%, copper 8-quinolinolate-WP-Huge
2388 EXCELCIDE DAIRY CATTLE, LIVESTOCK & BARN SPRA, N-Ethylhexyl biclheptene dicarboximide, di-n-butyl succinate, piperonyl butoxide, pyrethrins-IR-Huge
2388.50 EXCELCIDE DIPHACIN, Rodenticide in self-feeder-R-Huge
2389 EXCELCIDE DRIPOLATORS, For automatic dispensing of fumigant-E-Huge
2389.50 EXCELCIDE DROSOPHILA DUST, Pyrethrins in talc base-I-Huge
2390 EXCELCIDE DYNA-FOG CONTACT SPRA, Piperonyl butoxide, pyrethrins, tetrachloroethane-I-Huge

2390.50 EXCELCIDE DYNA-FOG FLY SPRA WITH VAPONA®, DDVP, piperonyl butoxide, pyrethrins, tetrachloroethane-IF-Huge
2390.75 EXCELCIDE DYNA-FOG MACHINES, Power foggers-E-Huge
2391 EXCELCIDE ELECTRIC CHALLENGER SPRAYER-E-Huge'
2392 EXCELCIDE EXCELFUME, Carbon tetrachloride, ethylene dichloride-IF-Huge'
2393 EXCELCIDE EXTENDED TRIGGER MOUSETRAPS-E-Huge'
2396 EXCELCIDE FLY CHASER FANS, For air curtain protection over openings-E-Huge'
2397 EXCELCIDE FLY CORDS, Parathion-treated cords-IB-Huge
2398 EXCELCIDE FLY SPRA, N-Octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins-I-Huge'
2399 EXCELCIDE FOGGING MIST FOR DYNA-FOG, DDT, DDVP, organic thiocyanates, malathion, pyrethrins, piperonyl butoxide-I-Huge
2399.50 EXCELCIDE FUMARIN, Coumafuryl-R-Huge
2400 EXCELCIDE KETCH-ALL MOUSE TRAP-E-Huge
2401 EXCELCIDE LARVAE CONCENTRATE, Malathion, methoxychlor, lindane, pyrethrins-I-Huge
2402 EXCELCIDE LIQUID AND DRY BAIT BOX (RODENTICIDE)-E-Huge
2403 EXCELCIDE MILL SPRA, Piperonyl butoxide, pyrethrins-I-Huge
2404 EXCELCIDE OUTSIDE RESIDUAL, Diazinon, malathion, with attractants-IB-Huge
2405 EXCELCIDE PIVAL, Pindone-R-Huge
2406 EXCELCIDE PIVALYN, Pindone, sodium salt-R-Huge
2409 EXCELCIDE REMELIN, Methoxychlor, lindane-I-Huge'
2410 EXCELCIDE VAPO SPRA, N-octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins-I-Huge'
2410.05 EXCELCIDE RESIFUME, DDVP, Diazinon-I-Huge
2410.10 EXCELCIDE RESIDUAL SPRA, N-Ethylhexyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins-I-Huge
2410.15 EXCELCIDE RESIDUAL TANK-TYPE SPRAYER, Compressed air sprayer-E-Huge
2410.20 EXCELCIDE SEED & GRAIN WAREHOUSE SPRA, Organic thiocyanates, piperonyl butoxide, pyrethrins-I-Huge
2410.25 EXCELCIDE SEED & GRAIN WAREHOUSE SPRA CONCENTRATE FOR DYNA-FOG, N-Ethylhexyl bicycloheptene dicarboximide, methoxychlor, organic thiocyanates, perchlorethylene, piperonyl butoxide, pyrethrins-I-Huge
2410.30 EXCELCIDE SEED WAREHOUSE SPRA, DDVP, Diazinon-I-Huge
2410.35 EXCELCIDE SEED WAREHOUSE SPRA CONCENTRATE FOR DYNA-FOG, DDVP, Diazinon, perchlorethylene-I-Huge
2410.40 EXCELCIDE SPECIAL 2-A, Lindane, methoxychlor, pyrethrins-I-Huge
2410.45 EXCELCIDE SPECIAL FLY SPRA FOR DYNA-FOG, N-Ethylhexyl bicycloheptene dicarboximide, perchlorethylene, piperonyl butoxide, pyrethrins-I-Huge
2410.50 EXCELCIDE SPECIAL RESIDUAL 2-B, Lindane, methoxychlor-I-Huge
2410.60 EXCELCIDE STRO-MAL #1 RESIDUAL SPRA, Diazinon, lindane, malathion, piperonyl butoxide, pyrethrins, terpene polychlorinates-I-Huge
2410.65 EXCELCIDE SURFACE TREATMENT RESIDUAL SPRA, Piperonyl butoxide, pyrethrins, tonnel-I-Huge
2410.70 EXCELCIDE TERRATOX WEED KILLER, Monuron, sodium borates, sodium chlorate-H-Huge
2410.75 EXCELCIDE TID-BITS FLY BAIT, DDVP, Malathion, tonnel-IB-Huge
2410.80 EXCELCIDE TOSSITS, Capsules of DDT and lindane for control of larvae in water-I-Huge
2410.85 EXCELCIDE VAPO-FLY SPRA, DDVP, N-ethylhexyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins-I-Huge
2415 EXCELCIDE WAREHOUSE RESIDUAL, DDVP, Diazinon, lindane-I-Huge
2417 EXCELCIDE STROBANE® MALATHION RESIDUAL, Diazinon, lindane, malathion, piperonyl butoxide, pyrethrins, terpene polychlorinates-I-Huge
2418 EXCELCIDE WARFARIN-R-Huge
2421 EXCELCIDE X-L JETS, Automatic overhead foggers-E-Huge'
2422 EXTENDITE "S" CLAY-D-United Clay
2423 EXTERM TERMITE DESTROYER, Oil, coal tar neutral oil, coal tar acid, raw coal tar.-I-Coopers Creek
2424 EXTERMITE CONCENTRATE, Organic solvents 80.15%, pentachlorophenol 16.87%, other chlorophenols 2.98%-WP-Biocerta Corp.
2425 EXTO, Chlordane-I-Dolge
2426 E-Z-FLO ALDRIN EMULSION 4 LB.-I-E-Z-Flo
2427 E-Z-FLO ALDRIN 25-W WETTABLE-I-E-Z-Flo
2428 E-Z-FLO AMOBAM-F-E-Z-Flo
2429 E-Z-FLO CHLORDANE 72% EMULSION-I-E-Z-Flo
2430 E-Z-FLO CHLORDANE 40-W-I-E-Z-Flo

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2431 E-Z-FLO COPPER 53% TRI-BASIC-F-E-Z-Flo
2432 E-Z-FLO 5% DDD-6% '658' DUST-FI-E-Z-Flo
2433 E-Z-FLO DDD (TDE) EMULSION-I-E-Z-Flo
2434 E-Z-FLO 5% DDT-1% PARATHION-6% '658' DUST-FI-E-Z-Flo
2435 E-Z-FLO DDT 25% EMULSION-I-E-Z-Flo
2436 E-Z-FLO DDT 50-W-I-E-Z-Flo
2437 E-Z-FLO DDT 75-W-I-E-Z-Flo
2438 E-Z-FLO 100 SEC. DORMANT OIL-I-E-Z-Flo
2439 E-Z-FLO DUST NO. 1, Parathion 1%-I-E-Z-Flo
2440 E-Z-FLO DUST NO. 1-DP, 0.11% Pyrethrin-I-E-Z-Flo
2441 E-Z-FLO DUST NO. 3-CY, 3% Dodine-F-E-Z-Flo
2442 E-Z-FLO DUST NO. 4-CY, 4% Dodine-F-E-Z-Flo
2443 E-Z-FLO DUST NO. 5-DY, 5% Trichlorofon-IS-I-Z-Flo
2444 E-Z-FLO DUST NO. 1-PS, Dichlone, sulfur 84%-FI-E-Z-Flo
2445 E-Z-FLO DUST NO. 2, Parathion 2%-I-E-Z-Flo
2446 E-Z-FLO DUST NO. 2-DA, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 1.5%-I-E-Z-Flo
2447 E-Z-FLO DUST NO. 2-S, 2% Carbaryl-I-E-Z-Flo
2448 E-Z-FLO DUST NO. 2-SPD, DDT 5%, parathion 1½%, sulfur 20%-FI-E-Z-Flo
2449 E-Z-FLO DUST NO. 3, DDT 3%-I-E-Z-Flo
2450 E-Z-FLO DUST NO 3-A, Purified DDT 3%-I-E-Z-Flo
2451 E-Z-FLO DUST NO. 3.75 CA, Captan 3.5%-F-E-Z-Flo
2452 E-Z-FLO DUST NO. 3-G, O,O-Dimethyl S-4-oxo-1,2,3-benzotriazin-3(44)-ylmethyl phosphorodithioate 3%-I-E-Z-Flo
2453 E-Z-FLO DUST NO. 3-M, Methoxychlor 3%-I-E-Z-Flo
2454 E-Z-FLO DUST NO. 3-T, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6, 9-methano-2,4,3-benzodioxathiepin-3-oxide 3%-I-E-Z-Flo
2455 E-Z-FLO DUST NO. 4-DA, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 4%-I-E-Z-Flo
2456 E-Z-FLO DUST NO. 4-E, Ethion 4%-I-E-Z-Flo
2457 E-Z-FLO DUST NO. 4-MA, Malathion 4%-I-E-Z-Flo
2458 E-Z-FLO DUST NO. 4-P, Dichlone 2%-F-E-Z-Flo
2459 E-Z-FLO DUST NO. 4-P-8, Dichlone 2%, sulfur 80%-FI-E-Z-Flo
2460 E-Z-FLO DUST NO. 4-P-20, Dichlone 2%, sulfur 20%-FI-E-Z-Flo
2461 E-Z-FLO DUST NO. 4-P-30, Dichlone 2%, sulfur 30%-FI-E-Z-Flo
2462 E-Z-FLO DUST NO. 4-T, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexohydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 4%-I-E-Z-Flo
2463 E-Z-FLO DUST NO. 5, DDT 5%-I-E-Z-Flo
2464 E-Z-FLO DUST NO. 5-C, Chlordane 5%-I-E-Z-Flo
2465 E-Z-FLO DUST NO 5-CA, Captan 5%-F-E-Z-Flo
2466 E-Z-FLO DUST NO. 5-D, 2,4-Dichloro-6-(o-chloro-anilaino)-s-triazine 5%-F-E-Z-Flo
2467 E-Z-FLO DUST NO. 5-DA, O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 5%-I-E-Z-Flo
2468 E-Z-FLO DUST NO. 5-M, Methoxychlor 5%-I-E-Z-Flo
2469 E-Z-FLO DUST NO. 5-MA, Malathion 5%-I-E-Z-Flo
2470 E-Z-FLO DUST NO. 5-M-Z-78-S, Methoxychlor 5%, zineb 7%-FI-E-Z-Flo
2471 E-Z-FLO DUST NO. 5-S, Carbaryl 5%-I-E-Z-Flo
2472 E-Z-FLO DUST NO. 6-C-Z-C, Copper-zinc-chromate 6%-F-E-Z-Flo
2473 E-Z-FLO DUST NO. 6-P, Dichlone 3%-F-E-Z-Flo
2474 E-Z-FLO DUST NO. 6-P-20, Dichlone 3%, sulfur 20%-FI-E-Z-Flo
2475 E-Z-FLO DUST NO. 6-P-30, Dichlone 3%, sulfur 30%-FI-E-Z-Flo
2476 E-Z-FLO DUST NO. 6-S, Carbaryl 3%-I-E-Z-Flo
2477 E-Z-FLO DUST NO. 6-Z-78, Zineb 6%-F-E-Z-Flo
2478 E-Z-FLO DUST NO. 6-Z-78-S, Zineb 6%, sulfur 30%-FI-E-Z-Flo
2479 E-Z-FLO DUST NO. 7.5CA, Captan 7.5%-I-E-Z-Flo
2480 E-Z-FLO DUST NO. 7.5CA, Captan 7.5%-I-E-Z-Flo
2481 E-Z-FLO DUST NO. 7-CP, Captan 5-W 7.5%, parathion 1%-FI-E-Z-Flo
2482 E-Z-FLO DUST NO. 7-MN, Maneb 7%-F-E-Z-Flo
2483 E-Z-FLO DUST NO. 7-Z-78-S, sulfur 20%, zineb 7%-FI-E-Z-Flo
2484 E-Z-FLO DUST NO. 7.5T, Toxaphene 7½-I-E-Z-Flo
2485 E-Z-FLO DUST NO. 10, DDT 10%-I-E-Z-Flo
2486 E-Z-FLO DUST NO. 10-F, Ferbam 10%-F-E-Z-Flo
2487 E-Z-FLO DUST NO. 10-T, Toxaphene 10%-I-E-Z-Flo
2488 E-Z-FLO DUST NO. 10-Z, Ziram 10%-F-E-Z-Flo
2489 E-Z-FLO DUST NO. 10Z-3, DDT 3%, ziram 10%-I-E-Z-Flo
2490 E-Z-FLO DUST NO. 10-Z-3A, Purified DDT 3%, ziram 10%-FI-E-Z-Flo
2491 E-Z-FLO DUST NO. 13, DDT 3%, parathion 1%-I-E-Z-Flo

2492 E-Z-FLO DUST NO. 14-I-G, Calcium arsenate 7%-I-E-Z-Flo
2493 E-Z-FLO DUST NO. 14-I-T, Calcium arsenate with sticker 7%-I-E-Z-Flo
2494 E-Z-FLO DUST NO. 15, DDT, 5%, parathion 1%-I-E-Z-Flo
2495 E-Z-FLO DUST NO. 15-D, Dieldrin 1.5%-I-E-Z-Flo
2496 E-Z-FLO DUST NO. 15-P, Zineb 9.75%-F-E-Z-Flo
2497 E-Z-FLO DUST NO. 16, Copper 7%-F-E-Z-Flo
2498 E-Z-FLO DUST NO. 20, Copper 7%, sulfur 20%-FI-E-Z-Flo
2499 E-Z-FLO DUST NO. 21, Copper 7%, parathion 1%, sulfur 20%-FI-E-Z-Flo
2500 E-Z-FLO DUST NO. 23, Copper 7%, DDT 3%, sulfur 20%-FI-E-Z-Flo
2501 E-Z-FLO DUST NO. 24-P, Zineb 15%-F-E-Z-Flo
2502 E-Z-FLO DUST NO. 25, DDT 5%, parathion 2%-I-E-Z-Flo
2503 E-Z-FLO DUST NO. 36, Copper 7%, DDT 5%, sulfur 30%-FI-E-Z-Flo
2504 E-Z-FLO DUST NO. 36-C-Z-C, Copper-zinc-chromate 6%, DDT 3%-FI-E-Z-Flo
2505 E-Z-FLO DUST NO. 37, Copper 7%, DDT 3%-FI-E-Z-Flo
2506 E-Z-FLO DUST NO. 37-T, Copper 7%, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 3%-FI-E-Z-Flo
2507 E-Z-FLO DUST NO. 38-Z78, DDT 3%, zineb 6%-FI-E-Z-Flo
2508 E-Z-FLO DUST NO. 50, Calcium arsenate 7%, copper 5%-FI-E-Z-Flo
2509 E-Z-FLO DUST NO. 51-DZ, DDD (TDE) 5%, ferbam 76 10%-FI-E-Z-Flo
2510 E-Z-FLO DUST NO. 53-M, Copper 5%, methoxychlor 3%-FI-E-Z-Flo
2511 E-Z-FLO DUST NO. 56-RC, Copper 7%, DDD 5%-FI-E-Z-Flo
2512 E-Z-FLO DUST NO. 57, Copper 7%, DDT 5%-FI-E-Z-Flo
2513 E-Z-FLO DUST NO. 61-C-Z-C, Copper-zinc-chromate 6%, parathion 1%-FI-E-Z-Flo
2514 E-Z-FLO DUST NO. 71, Copper, parathion 1%-FI-E-Z-Flo
2515 E-Z-FLO DUST NO. 71-Z-78-S, parathion 1%, sulfur 20%, zineb 7%-FI-E-Z-Flo
2516 E-Z-FLO DUST NO. 75, Rotenone 0.75%-I-E-Z-Flo
2517 E-Z-FLO DUST NO. 75-CD, Captan 50-W 3.75%, DDT 5%-FI-E-Z-Flo
2518 E-Z-FLO DUST NO. 75.MD, DDD (TDE) 5%, maneb 7%-FI-E-Z-Flo
2519 E-Z-FLO DUST NO. 75-MN, Maneb 7%, methoxychlor 5%-FI-E-Z-Flo
2520 E-Z-FLO DUST NO. 75-PR, Pyrethrum 0.75%, rotenone 0.75%-I-E-Z-Flo
2521 E-Z-FLO DUST NO. 77-½-T, Copper 7%, toxaphene 7.5%-FI-E-Z-Flo
2522 E-Z-FLO DUST NO. 80, Lead arsenate 5%, sulfur 80%-FI-E-Z-Flo
2523 E-Z-FLO DUST NO. 80-S, Bentonite, sulfur 80%-FI-E-Z-Flo
2524 E-Z-FLO DUST NO. 85, DDT 5%, sulfur 80%-FI-E-Z-Flo
2525 E-Z-FLO DUST NO. 100, Rotenone 1%-I-E-Z-Flo
2526 E-Z-FLO DUST NO. 150-S, Rotenone 1.5%, sulfur 10%-FI-E-Z-Flo
2527 E-Z-FLO DUST NO. 200, DDT, ferbam, rotenone, sulfur-FI-E-Z-Flo
2528 E-Z-FLO DUST NO. 250, Rotenone 2.5%-I-E-Z-Flo
2529 E-Z-FLO 5% DYRENE®-5% MALATHION DUST, 2,4-Dichloro-6-(o-chloro-anilino)-s-triazine 5%, malathion 5%-FI-E-Z-Flo
2530 E-Z-FLO ETHION 4 LB. EMULSION-I-E-Z-Flo
2531 E-Z-FLO ETHION GRANULAR 5%-I-E-Z-Flo
2532 E-Z-FLO ETHION GRANULAR 5% W/3% ARASAN®, Ethion, thiram-FI-E-Z-Flo
2533 E-Z-FLO ETHION GRANULAR 5% W/4½% ARASAN®, Ethion, thiram-FI-E-Z-Flo
2534 E-Z-FLO ETHION GRANULAR 5% W/6% ARASAN®, Ethion, thiram-FI-E-Z-Flo
2535 E-Z-FLO ETHION 25-W-I-E-Z-Flo
2536 E-Z-FLO FERBAM 76,-F-E-Z-Flo
2537 E-Z-FLO FRUIT GUARD, Captan 10%, malathion 5%, methoxychlor 15%-FI-E-Z-Flo
2538 E-Z-FLO LEAD ARSENATE-I-E-Z-Flo
2539 E-Z-FLO LINDANE 25-W-I-E-Z-Flo
2540 E-Z-FLO MALATHION EMULSION EM-5 LB.-I-E-Z-Flo
2541 E-Z MALATHION 25-W-I-E-Z-Flo
2542 E-Z-FLO MELON & CUCUMBER DUST, Methoxychlor 3%, 5.7% 658-FI-E-Z-Flo
2543 E-Z-FLO DIELDRIN EMULSION 1.5 LB.-I-E-Z-Flo
2544 E-Z-FLO METHOXYCHLOR EMULSION-I-E-Z-Flo
2545 E-Z-FLO METHOXYCHLOR 50-W-I-E-Z-Flo
2546 E-Z-FLO MOSQUITO GUARD, Chlordane 15%, DDT 20%, lindane 5%-I-E-Z-Flo
2547 E-Z-FLO NABAM-F-E-Z-Flo
2548 E-Z-FLO PHYGON® XL, Dichlone-F-E-Z-Flo
2549 E-Z-FLO PURATIZED® APPLE SPRAY, Phenylmercuric monoethanolammonium lactate-F-E-Z-Flo
2550 E-Z-FLO PURATIZED® AGRICULTURAL SPRAY, Phenylmercuric triethanolammonium lactate-F-E-Z-Flo
2551 E-Z-FLO ROSE GUARD, Captan 10%, DDT 9.3%, dinitro capryl phenyl crotonate 0.93%, malathion 6.2%-FI-E-Z-Flo
2552 E-Z-FLO PARATHION 15-W-I-E-Z-Flo
2553 E-Z-FLO 3% SEVIN®-6% '658' DUST, 1-Naphthyl-N-methylcarbamate-FI-E-Z-Flo

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2554 E-Z-FLO SEVIN® 50-W, 1-Naphthyl-N-methylcarbamate-I-E-Z-Flo
2555 E-Z-FLO SPRAY NO. 44, Rotenone 4%-I-E-Z-Flo
2556 E-Z-FLO SPRAY NO. 52, Copper, DDT-FI-E-Z-Flo
2557 E-Z-FLO SPRAY NO. 7-PS, Dichlone 3.5%, sulfur 78%-I-E-Z-Flo
2558 E-Z-FLO 20% TERRACHLOR® DUST, PCNB-I-E-Z-Flo
2559 E-Z-FLO THIODAN® 2 LB. EMULSION, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-E-Z-Flo
2560 E-Z-FLO THIODAN® 50-W, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3,-benzodioxathiepin-3-oxide 50%-I-E-Z-Flo
2561 E-Z-FLO 5% THYLATE® DUST, Thiram 5%-I-E-Z-Flo
2562 E-Z-FLO TOMATO & POTATO DUST, DDD 5%, thiram 7%-FI-E-Z-Flo
2563 E-Z-FLO TOXAPHENE-I-E-Z-Flo
2564 E-Z-FLO VEGA GUARD, Malathion 5%, zineb 1[illegible]%-FI-E-Z-Flo
2565 E-Z-FLO ZIRAM-F-E-Z-Flo
2566 F & B CAPTAN 7.5% DUST-F-Faesy & Besthoff
2567 F & B CHLORDANE 5% DUST-I-Faesy & Besthoff
2568 F & B CHLORDANE 10% DUST-I-Faesy & Besthoff
2569 F & B CHLORDANE 50% SPRAY POWDER-I-Faesy & Besthoff
2570 F & B CHLORDANE 72% SPRAY, Chlordane tech. 73.7%-I-Faesy & Besthoff
2572 F & B DDT 10% DUST-I-Faesy & Besthoff
2573 F & B DIELDRIN 18% SPRAY-I-Faesy & Besthoff
2574 F & B DDT 25% SPRAY, DDT 24.8%-I-Feasy & Besthoff
2575 F & B DORMANT SPRAY, Oil 96%-I-Feasy & Besthoff
2576 F & B DRIED BLOOD DEER REPELLENT-ANR-Faesy & Besthoff
2576.50 F & B EVERGREEN & ORNAMENTAL SPRAY, DDT, 2,4-dichlorophenyl ester of benzenesulfonic acid, lindane, malathion-I-Fasey & Besthoff
2577 F & B LEAD ARSENATE-I-Faesy & Besthoff
2578 F & B LIME SULPHUR SOLN., Calcium polysulfides 3.0%-FI-Faesy & Besthoff
2579 F & B MALATHION 56% SPRAY, Malathion 56 P[illegible]-I-Fasey & Besthoff
2580 F & B MALATHION 25% SPRAY POWDER-I-Faesy & Besthoff
2582 F & B MICRO NU-COP, Copper 53%-F-Faesy & Besthoff
2584 F & B MULTI-PURPOSE SPRAY OR DUST, Captan 8.33%, malathion 4.10%, methoxychlor 8.33%-FI-Faesy & Besthoff
2585 F & B NABAM 22-F-Faesy & Besthoff
2587 F & B ROOTICATE, Copper 25.2%-H-Faesy & Besthoff
2588 F & B ROSE DUST, DDT 5%, 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol 1.48%, malathion 5%, N-trichloromethylthiophthalimide 7.5%-FI-Faesy & Besthoff
2588.50 F & B ROSE SPRAY LIQUID, 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol, dieldrin, glyodin, lindane-FI-Fasey & Besthoff
2589 F & B SEVIN® 5% DUST, 1-Naphthyl-N-methylcarbamate-I-Faesy & Besthoff
2589.50 F & B SEVIN® 4 FLOWABLE, Carbaryl-I-Fasey & Besthoff
2590 F & B SEVIN® 50% WETTABLE POWDER, 1-Naphthyl-N-methylcarbamate-I-Faesy & Besthoff
2591 F & B TOBACCO DUST, Nicotine 1%-I-Faesy & Besthoff
2591.50 F & B TRITHION® 2 E, Carbophenothion 2 lbs.-I-Fasey & Besthoff
2591.60 F & B TRITHION® 5 GRANULAR, Carbophenothion-I-Fasey & Besthoff
2592 F & B WEED KILLER, Sodium arsenite 42.5%-H-Faesy & Besthoff
2592.50 FAGEKIL SPRAY, Methoxychlor 1%, piperonyl butoxide 1%, pyrethrins 1%-I-Howard
2593 FAIRFIELD CRAG FLY REPELLENT, Butoxypolypropylene glycol-R-Fairfield
2594 FAIRFIELD PYRETHRUM EXTRACT (PURIFIED), Pyrethrins 10%-IC-Fairfield
2595 FAIRFIELD ROTENONE POWDER, Rotenone 5%-IC-Fairfield
2596 FAIRFIELD ROTENONE RESINS, Rotenone 30%-IC-Fairfield
2597 FAIRFIELD ROTENONE SOLN., Rotenone 5%-I-Fairfield
2598 FAIRMOUNT WEED KILLER, Sodium arsenite-H-Nott
2599 FALONE-44E, Tris-(2,4-dichlorophenoxyethyl) phosphite 44%-H-U.S. Rubber (Naugatuck)
2600 FARM BUREAU CHUFUNG GARDEN DUST, Basic copper sulfate 11.25%, rotenoids 1.5%, rotenone 9.75%-FI-Pa. Farm Bureau
2601 FARM BUREAU DDT 5 DUST, DDT 5%-I-Pa. Farm Bureau
2602 FARM BUREAU DDT-COPPER DUST, DDT 5%, basic copper sulfate 13.25%-FI-Pa. Farm Bureau
2604 FARM BUREAU PERFECT BLEND ROTENONE R-100 DUST, Rotenone 1%, rotenoids 2%-I-Pa. Farm Bur.
2605 FARM BUREAU POTATO-TOMATO DUST, Basic copper sulfate 13.25%-F-Pa. Farm Bureau
2606 FARM BUREAU ROTENONE R-75 DUST, Rotenoids 1.5%, rotenone 0.75%-I-Pa. Farm Bureau

2607 FARMCRAFT ALDRIN EC-4, Aldrin 4 lbs./gal.-I-Farmcraft
2608 FARMCRAFT ALDRIN IMPREGNATED FERTILIZER-I-Farmcraft
2609 FARMCRAFT CHLORDANE EC-8, Chlordane 8 lbs./gal.-I-Farmcraft
2610 FARMCRAFT DDT EC-2, DDT 2 lbs./gal.-I-Farmcraft
2611 FARMCRAFT ENDRIN EC-1.6, Endrin 1.6 lbs./gal.-I-Farmcraft
2612 FARMCRAFT LINDANE EC-2, Lindane 2 lbs./gal.-I-Farmcraft
2614 FARMCRAFT PHOSDRIN® EC-4, 2-Carbomethoxy-1-propene-2yl-dimethyl phosphate-I-Farmcraft
2615 FARMRITE ALDRIN 2-E (2 lb./gal.)-I-Cen. Chem.
2616 FARMRITE ALDRIN-FERTILIZER MIXTURE, Aldrin 0.4%-I-Cen. Chem.
2617 FARMRITE 25% ALDRIN WETTABLE POWDER-I-Cen. Chem.
2618 FARMRITE ARSENATE OF LEAD, Lead arsenate 96%-I-Cen. Chem.
2619 FARMRITE BASE AND SURFACE SPRAY, 0.31% Tech. piperonyl butoxide-I-Cen. Chem.
2620 FARMRITE 11% BHC WATER MISCIBLE-I-Cen. Chem.
2621 FARMRITE 7.5% CAPTAN DUST-F-Cen. Chem.
2622 FARMRITE 5% CHLORDANE DUST-I-Cen. Chem.
2623 FARMRITE CHLORDANE 4-E, Emulsifiable concentrate 4 lb./gal.-I-Cen. Chem.
2623.50 FARMRITE CHLORDANE 8-E,Emulsifiable Concentrate 8 lb./gal.-I-Cen. Chem.
2624 FARMRITE CHLORDANE 40% WETTABLE POWDER-I-Cen. Chem.
2625 FARMRITE DDT DUST 5, DDT 5%-I-Cen. Chem.
2626 FARMRITE DDT DUST 10, DDT 10%-I-Cen. Chem.
2627 FARMRITE DDT 2-E, DDT emulsifiable 25%-I-Cen. Chem.
2628 FARMRITE 7.5% DDT GRANULAR-I-Cen. Chem.
2629 FARMRITE DDT 50-W, (DDT 50% wettable)-I-Cen. Chem.
2630 FARMRITE DDT 75-W, (75% wettable)-I-Cen. Chem.
2631 FARMRITE 5% DDT, 1% Parathion Dust-I-Cen. Chem.
2632 FARMRITE DI-COP DUST, Basic copper sulfate (copper 7%), DDT 5%-FI-Cen. Chem.
2633 FARMRITE DIELDRIN 1.5-E, Dieldrin 1.5 lbs./gal.-I-Cen. Chem.
2634 FARMRITE DIELDRIN 2% GRANULAR-I-Cen. Chem.
2635 FARMRITE DIELDRIN 10% GRANULAR-I-Cen. Chem.
2636 FARMRITE 50% DIELDRIN WETTABLE POWDER-I-Cen. Chem.
2637 FARMRITE 1% DIELDRIN, 6% zineb dust-FI-Cen. Chem.
2638 FARMRITE ENDRIN, 75-W-75% endrin (wettable)-I-Cen. Chem.
2639 FARMRITE ENDRIN 1.6 EMULSION, 1.6 lbs. Endrin per gallon-I-Cen. Chem.
2640 FARMRITE ETHION 4-E, (4 lb./gal.)-I-Cen. Chem.
2641 FARMRITE ETHION 25% WETTABLE-I-Cen. Chem.
2642 FARMRITE FERBAM, 76-W-76% ferbam-F-Cen. Chem.
2643 FARMRITE 0-15-30 FERTILIZER WITH 0.25% DIELDRIN-I-Cen. Chem.
2643.50 FARMRITE 0-15-3 FERTILIZER WITH 4# DIELDRIN-I-Cen. Chem.
2644 FARMRITE 0-20-20 FERTILIZER WITH 0.25% DIELDRIN-I-Cen. Chem.
2644.10 FARMRITE 0-20-20 FERTILIZER with 4# DIELDRIN-I-Cen. Chem.
2644.30 FARMRITE 0-10-20 FERTILIZER WITH 2# HEPTACHLOR-I-Cen. Chem.
2644.60 FARMRITE 0-14-14 FERTILIZER WITH 2# HEPTACHLOR-I-Gen. Chem.
2645 FARMRITE 0-15-30 FERTILIZER WITH 0.25% HEPTACHLOR-I-Cen. Chem.
2645.20 FARMRITE 0-15-30 FERTILIZER WITH 4# HEPTACHLOR-I-Cen. Chem.
2645.40 FARMRITE 0-20-20 FERTILIZER WITH 2# HEPTACHLOR-I-Cen. Chem.
2645.60 FARMRITE 0-20-20 FERTILIZER WITH 4# HEPTACHLOR-I-Cen. Chem.
2645.80 FARMRITE 0-20-20 FERTILIZER WITH 5# HEPTACHLOR-I-Cen. Chem.
2646 FARMRITE FLYING INSECT FOG, 1.5% Tech. piperonyl butoxide-I-Cen. Chem.
2647 FARMRITE 20% GRANULAR ALDRIN-I-Cen. Chem.
2648 FARMRITE 20% GRANULAR 2,4-D-H-Cen. Chem.
2649 FARMRITE HEPTACHLOR 2 LB. EMUL.-I-Cen. Chem.
2650 FARMRITE HEPTACHLOR 2½% GRANULAR-I-Cen. Chem.
2651 FARMRITE HEPTACHLOR 25% GRANULAR-I-Cen. Chem.
2652 FARMRITE 1% KARATHANE® DUST, 2-6-Dinitro-6-(2-octyl) phenyl crotonate-FI-Cen. Chem.
2653 FARMRITE KLOR-DUST 5% CHLORDANE-I-Cen. Chem.
2654 FARMRITE LIME SULPHUR SOLN., Calcium polysulfide 29%-FI-Cen. Chem.
2655 FARMRITE 1% LINDANE DUST-I-Cen. Chem.
2656 FARMRITE M-53 FIXED COPPER, Basic copper sulfate (copper 53%)-F-Cen. Chem.
2657 FARMRITE 4% MALATHION DUST-I-Cen. Chem.
2658 FARMRITE MALATHION 5-E (5.1#/gal.)-I-Cen. Chem.
2659 FARMRITE MALATHION 8-#, (8 lb./gal.)-I-Cen. Chem.
2660 FARMRITE 25% MALATHION WETTABLE POWDER-I-Cen. Chem.
2661 FARMRITE 6% MANEB 5% DDT DUST-FI-Cen. Chem.

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2662 FARMRITE 6% MANEB DUST-F-Gen. Chem.
2663 FARMRITE 6% MANEB 5% METHOXYCHLOR DUST-FI-Gen. Chem.
2664 FARMRITE MERCURY SPRAY-F-Gen. Chem.
2665 FARMRITE 5% METHOXYCHLOR DUST-I-Gen. Chem.
2666 FARMRIGHT METHOXYCHLOR 2 E, (2 lb./gal.)-I-Gen. Chem.
2667 FARMRITE 5% METHOXYCHLOR 1% KARTHANE® DUST, 2,4-Dinitro-6-(2-octyl) phenyl crotonate, methoxychlor-FI-Gen. Chem.
2669 FARMRITE MICROSUL WETTABLE SULFUR, Sulfur 95%-FI-Gen. Chem.
2670 FARMRITE & MULTIPURPOSE LIVESTOCK SPRAY, 0.31% piperonyl butoxide, 0.31% pyrethrins-I-Gen. Chem.
2672 FARMRITE PARATHION 42% AQ. EMULSION-I-Gen. Chem.
2673 FARMRITE 1% PARATHION DUST-I-Gen. Chem.
2674 FARMRITE 25% PARATHION WATER MISCIBLE-I-Gen. Chem.
2675 FARMRITE PARATHION 15% WETTABLE POWDER-I-Gen. Chem.
2676 FARMRITE POTATO & TOMATO SPRAY Calcium arsenate 31.5%, basic copper sulfate (copper 12.75%)-FI-Gen. Chem.
2677 FARMRITE 0.1% PYRETHRIN DUST, (For drosophilla fly control) =I Gen. Chem.
2678 FARMRITE 0.3% PYRETHRIN DUST-I-Gen. Chem.
2679 FARMRITE RO-DUST 100, Rotenone 1%, rotenoids 2%-I-Gen. Chem.
2680 FARMRITE RO-DUST GARDEN DUST, Rotenone 0.75%, rotenoids 1.5%-I-Gen. Chem.
2681 FARMRITE RO-SPRAY 400, Rotenone 4%, rotenoids 6% I-Gen. Chem.
2682 FARMRITE 3% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate-I-Gen. Chem.
2683 FARMRITE SEVIN® 50W, 1-Naphthyl N-methylcarbamate-I-Gen. Chem.
2684 FARMRITE SUPERIOR MISCIBLE OIL 70 S, (70 viscosity)-I-Gen. Chem.
2685 FARMRITE 5% TDE DUST-I-Gen. Chem.
2686 FARMRITE TDE 2-E, TDE emulsifiable 25%-I-Gen. Chem.
2687 FARMRITE 5% TDE-4.2% MANEB DUST-FI-Gen. Chem.
2688 FARMRITE TDE 50-W, TDE 50% wettable-I-Gen. Chem.
2689 FARMRITE THIODAN® EC-2, (2 lb./gal.), 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a hexahydro-6,9-methano-2,4,3-benzodioxathiepin 3-oxide-I-Gen. Chem.
2690 FARMRITE THIODAN® 50% WETTABLE, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepine-3-oxide-I-Gen. Chem.
2691 FARMRITE TOMATO DUST WITH POISON, Tricalcium arsenate 14%, basic copper sulphate (7% copper)-FI-Gen. Chem.
2692 FARMRITE TRIBASIC COPPER DUST, Basic copper sulfate 7%-F-Gen. Chem.
2693 FARMRITE 7% TRIBASIC COPPER, 5% TDE DUST-FI-Gen. Chem.
2694 FARMRITE 10% TOXAPHENE DUST-I-Gen. Chem.
2695 FARMRITE TOXAPHENE 6-E, Toxaphene emulsifiable 60% (6 lb./gal.)-I-Gen. Chem.
2696 FARMRITE 40% TOXAPHENE WETTABLE POWDER-I-Gen. Chem.
2697 FARMRITE 6% ZINEB DUST-F-Gen. Chem.
2698 FARMRITE ZINEB DUST 7%-F-Gen. Chem.
2699 FARMRITE 15% ZINEB DUST-F-Gen. Chem.
2700 FARMRITE 6% ZINEB 5% DDT DUST-FI-Gen. Chem.
2701 FARMRITE 6% ZINEB 5% METHOXYCHLOR DUST-FI-Gen. Chem.
2702 FARMRITE 6% ZINEB 5% TDE DUST-FI-Gen. Chem.
2702.50 FARNHAM CY-BAN RESIDUAL DAIRY CATTLE SPRAY, Alpha methylbenzyl 3-(dimethylphosphinyloxy) cis-crotonate-I-Farnham
2703 FARNAM DAIRY-MIST, Piperonyl butoxide tech. 10%, pyrethrins 1%-I-Farnam
2704 FARNAM DIE-FLY, Dipterex 199-I-Farnam
2705 FARNAM "FLYS-AWAY" REPELLENT BOMB, Butoxypolypropylene glycol 25.700%-IA-Farnam
2705.50 FARNHAM "FLY-AWAY" REPELLENT STICK, Butoxypolypropylene glycol-IR-Farnham
2706 FARNAM LINDANOX, Lindane 12.2%-I-Farnam
2707 FARNAM MALANOX, Malathion 50%-I-Farnam
2708 FARNAM METHANOX PLUS, Butoxypolypropylene glycol 10%, methoxychlor 21%-I-Farnam
2709 FARNAM REPEL-X, Piperonyl butoxide, pyrethrins-I-Farnam
2710 FARNAM ROTENOX "TRIPLE XXX," Rotenone 1.19%, rotenoids 2.38%-I-Farnam
2711 FARNAM SCREW-WORM EAR TICK BOMB, Lindane-IA-Farnam
2711.50 FARMRITE 5% SEVIN® DUST, 5% Carbaryl-I-Gen. Chem.
2712 FARNAM TOXANOX "PLUS," Lindane 1.8%, Toxaphene 45%-I-Farnam
2713 FASCASOL-97, Petroleum oil 97%-I-Fla. Agr. Supply
2714 FASCO AGRI-MYCIN DUST-33, Antibiotic-F-Fla. Agr. Supply
2715 FASCO ALDRIN 20-GB, 20% Granular-I-Fla. Agr. Supply

Florida Agricultural Supply Company

SERVING AGRICULTURE SINCE 1919

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Insecticides • Fungicides • Miticides
Herbicides • Soil Fumigants • Pruning Compound
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Aldrin	Dieldrin	Methoxychlor	Rotenone
BHC	Endrin	Mylone*	Sulphur
Chlordane	Heptachlor	Nabam	Systox*
Chlorobenzilate	Iron Chelates	Nemagon*	Tedion*
Copper	Kelthane*	Nutritionals	Tepp
DDD	Lindane	Oils	Thiodan*
DDT	Malathion	Parathion	Toxaphene
Delnav*	Maneb	Phosdrin*	Trithion*
Diazinon*			Zineb

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2716 FASCO ALDRIN 25-DB, 25%-IC-Fla. Agr. Supply
2717 FASCO ALDRIN-DDT-S 5-10-40 COTTON DUST-FI-Fla. Agr. Supply
2718 FASCO ALDRIN LIQUID-2, 2 lb./gal.-I-Fla. Agr. Supply
2719 FASCO ALDRIN LIQUID-4, 4 lb./gal.-I-Fla. Agr. Supply
2720 FASCO ALDRIN 25-WP, Aldrin 25%-I-Fla. Agr. Supply
2721 FASCO ALUMINUM SULPHATE-A-Fla.Agr. Supply
2722 FASCO BHC 12-WP, Gamma BHC 12%-I-Fla. Agr. Supply
2723 FASCO BHC-DDT 3-5 COTTON DUST-I-Fla. Agr. Supply
2724 FASCO BHC-DDT 3-10 COTTON DUST-I-Fla. Agr. Supply
2725 FASCO BHC-DDT-S 3-5-40 COTTON DUST-FI-Fla. Agr. Supply
2726 FASCO BHC-DDT-S 3-10-40 COTTON DUST-FI-Fla. Agr. Supply
2727 FASCO BHC DUST 150-Gamma BHC 1.5%-I-Fla. Agr. Supply
2728 FASCO BHC LIQUID, 1, 1 lb./gal.-I-Fla. Agr. Supply
2729 FASCO BHC SOLN.-10, Gamma BHC 11.65%-I-Fla. Agr. Supply
2730 FASCO BORAX, SOLUBOR (Spray)-H-Fla. Agr. Supply
2731 FASCO CHLORDANE 40-WP, Chlordane 49%-I-Fla. Agr. Supply
2732 FASCO CHLORDANE BAIT-2, Chlordane 2%-IB-Fla. Agr. Supply
2733 FASCO CHLORDANE BAIT 3, Chlordane 3%-IB-Fla. Agr. Supply
2734 FASCO CHLORDANE BAIT-15, 15%-IB-Fla. Agr. Supply
2735 FASCO CHLORDANE 40-DB, 40% dust base-IC-Fla. Agr. Supply
2736 FASCO CHLORDANE-DDT DUST 5-5, Chlordane 5%, DDT 5%-I-Fra. Agr. Supply
2737 FASCO CHLORDANE 5-DUST, Chlordane 5%-I-Fla. Agr. Supply
2738 FASCO CHLORDANE 10 DUST, Chlodrane 10%-I-Fla. Agr. Supply
2739 FASCO CHLORDANE GRANULAR-5, Chlordane 5%-I-Fla. Agr. Supply
2740 FASCO CHLORDANE LIQUID-4, Chlordane 12.5%-I-Fla. Agr. Supply
2741 FASCO CHLORDANE LIQUID 8, Chlordane 72%-I-Fla. Agr. Supply
2742 FASCO CHLORDANE SOLN.-20, Chlordane 20%-I-Fla. Agr. Supply
2743 FASCO CHLOROPHENE BAIT 375, Chlordane 1.5%, toxaphene 2.25%-IB-Fla. Agr. Supply
2744 FASCO CHLORTAN SEED & SOIL TREATER, Captan 10%, pentachloronitrobenzene 10%-FST-Fla. Agr. Supply
2745 FASCO COPPER-DDT DUST 12-5-FI-Fla. Agr. Supply
2746 FASCO COPPER 14 DUST, Copper 7.25%-F-Fla. Agr. Supply
2747 FASCO COPPER 18 DUST, Copper 9.3%-F-Fla. Agr. Supply
2748 FASCO COPPER-DDT DUST 18-5, Copper 9.3%, DDT 5%-FI-Fla. Agr. Supply
2749 FASCO COPPER-DDT-SULDUST 13-3, Copper, sulfur-FI-Fla. Agr. Supply
2750 FASCO COPPER & SULPHUR MIXTURE NO. 1 SEMINOLE, Copper 6.4%, sulfur 80%-FI-Fla. Agr. Supply
2751 FASCO 4-5 COTTON DUST (BHC-DDT)-I-Fla. Agr. Supply
2752 FASCO 3-10 COTTON DUST (BHC-DDT)-DDT 10%, Gamma BHC 3%-I-Fla. Agr. Supply
2753 FASCO 3-5-40 COTTON DUST (BHC-DDT-SULPHUR)-FI-Fla. Agr. Supply
2754 FASCO 3-10-40 COTTON DUST (BHC-DDT-SULPHUR), DDT 10%, Gamma BHC 3%, sulfur 40%-FI-Fla. Agr. Supply
2755 FASCO 5-10-40 COTTON DUST, (Aldrin-DDT-Sulfur)-FI-Fla. Agr. Supply
2756 FASCO 20-40 COTTON DUST. (Toxaphene-Sulfur)-FI-Fla. Agr. Supply
2757 FASCO 4-2-1 COTTON SPRAY, Toxaphene, DDT, methyl parathion-I-Fla. Agri. Supply
2758 FASCO CRIB RESIDUAL SPRAY 5-2, DDT 20%, malathion 8%, oil 66.3%-I-Fla. Agr. Supply
2759 FASCO C-Z-M 755, Copper, manganese, zinc-N-Fla. Agr. Supply
2760 FASCO CZM 15-22-15, Copper 15.2%, zinc 21.6%, manganese 14.7%-N-Fla.. Agr. Supply
2761 FASCO C-Z-S 15 ENDURO NEUTRAL, Copper 6.3%, sulfur 68%, zinc 6.3%-FI-N-Fla. Agr. Supply
2762 FASCO C-Z-S 15 SEMINOLE NEUTRAL, Copper 6.3%, sulfur 69%, zinc 6.3%-FI-N-Fla. Agr. Supply
2763 FASCO C-Z 75, Copper, zinc-N-Fla. Agr. Supply
2764 FASCO DDD 5 DUST, TDE 5%-I-Fla. Agr. Supply
2765 FASCO DDD LIQUID 25, TDE 25%-I-Fla. Agr. Supply
2766 FASCO DDT 50-DB, DDT 50%-IC-Fla. Agr. Supply
2767 FASCO DDD 50-WP, TDE 50%-I-Fla. Agr. Supply
2768 FASCO DDT 50-DB, DDT 50%-IC-Fla. Agr. Supply
2769 FASCO 5% DDT DUST-I-Fla. Agr. Supply
2770 FASCO DDT 10% DUST-I-Fla. Agr. Supply
2771 FASCO DDT LIQUID-2, DDT 23.5%-I-Fla. Agr. Supply
2772 FASCO DDT-SULPHUR DUST 27-10-FI-Fla. Agr. Supply
2773 FASCO 50% DDT WETTABLE-I-Fla. Agr. Supply
2774 FASCO 75% DDT WETTABLE-I-Fla. Agr. Supply

2775 FASCO DEE-TERP, Toxaphene 40%, DDT 20%-I-Fla. Agr. Supply
2776 FASCO DELNAV® LIQUID-2, 2,3-*p*-Dioxane S,S-bis (O,O-diethyl phosphorodithiate 2 lb./gal.-I-Fla. Agr. Supply
2777 FASCO DELNAV® LIQUID-4, 2, 3-*p*-Dioxane S,S-bis (O,O-diethyl phosphoroditioate 4 lbs./gal.-I-Fla. Agr. Supply
2778 FASCO DIEL DUST-2, Dieldrin 2%-I-Fla. Agr. Supply
2779 FASCO DIEL GRANULAR-1½, 1.5% dieldrin-I-Fla. Agr. Supply
2780 FASCO DIEL GRANULAR-2, Dieldrin 2%-I-Fla. Agr. Supply
2781 FASCO DIEL GRANULAR-10, Dieldrin 10%-I-Fla. Agr. Supply
2782 FASCO DIEL LIQUID 15, Dieldrin 18.25%-I-Fla. Agr. Supply
2783 FASCO DIEL 25-WP, Dieldrin 25%-I-Fla. Agr. Supply
2784 FASCO D-ZEB TOMATO SPRAY, TDE 10%, zineb 13%-FI-Fla. Agr. Supply
2785 FASCO ENDRIN DUST 1½, 1.5% endrin-I-Fla. Agr. Supply
2786 FASCO ENDRIN DUST-2, Endrin 2%-I-Fla. Agr. Supply
2787 FASCO ENDRIN LIQUID-16, Endrin 19.5%-I-Fla. Agr. Supply
2788 FASCO EPN 25-WP, Ethyl p-nitrophenyl thionobenzenephosphorate-I-Fla. Agr. Supply
2789 FASCO ETHION LIQUID-4, 47% Ethion-I-Fla. Agr. Supply
2790 FASCO ETHION 25-WP, Ethion 25%-I-Fla. Agr. Supply
2791 FASCO FERTMINAL NO. 1, Boron 0.89%, calcium 2.4%, copper 2.95%, iron 2.94%, magnesium 4.23%, manganese 3.25%-N-Fla. Agr. Supply
2792 FASCO FERTMINAL NO. 2, Boron 0.89%, calcium 2.4%, cobalt 0.57%, copper 2.95%, iron 2.94%, magnesium 4.23%, manganese 3.3%, zinc 4.32%-N-Fla. Agr. Supply
2793 FASCO FLY FLAKES, Malathion 1%-IB-A-Fla. Agr. Supply
2794 FASCO FUME EDB-20, Ethylene dibromide 20%-IF-Fla. Agr. Supply
2795 FASCO FUME EDB-40, Ethylene dibromide 40%-IF-Fla. Agr. Supply
2796 FASCO HEPTA 25-WP, Heptachlor 25%-I-Fla. Agr. Supply
2797 FASCO HEPTA 25-DB (25% HEPTACHLOR DUST BASE)-IC-Fla. Agr. Supply
2798 FASCO HEPTA GRANULAR-10, Heptachlor 10%-I-Fla. Agr. Supply
2799 FASCO HEPTA LIQUID 2 (HEPTACHLOR EMULSIFIABLE CONC.), Heptachlor 35.8%-I-Fla. Agr. Supply
2800 FASCO I-F-N NO. 2 NEUTRAL, Copper 5%, manganese 4%, sulfur 64%, zinc 6%-F-N-Fla. Agr. Supply
2801 FASCO I-F-N NO. 4 NEUTRAL, Copper 7.5%, manganese 5%, sulfur 64%, zinc 2.5%-FI-N-Fla. Agr. Supply
2802 FASCO I-F-N NO. 5 NEUTRAL, Copper 7.5%, manganese 5.05%, sulfur 51%, zinc, 7.8%-FI-N-Fla. Agr. Supply
2803 FASCO IRON COMPLEX-10, Iron 0.78%-N-Fla. Agr. Supply
2804 FASCO KELTHANE® DUST-2, 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol-I-Fla. Agr. Supply
2805 FASCO KELTHANE® EC, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol-I-Fla. Agr. Supply
2806 FASCO KRYOMIX 30, Cryolite-I-Fla. Agr. Supply
2807 FASCO LINDA-BAMATE DUST 1-4, Lindane 1%, zineb 4%-FI-Fla. Agr. Supply
2808 FASCO LINDA BAMATE DUST 1-6, BHC 1%, zineb 6%-FI-Fla. Agr. Supply
2809 FASCO LINDANE 25-WP, Lindane 25%-I-Fla. Agr. Supply
2810 FASCO LINDANE LIQUID 20, Lindane 20%-I-Fla. Agr. Supply
2811 FASCO LIQUID FLAME, Pentachlorophenol 8.08%-H-Fla. Agr. Supply
2812 FASCO MALATHION 25-WP, Malathion 25%-I-Fla. Agr. Supply
2813 FASCO MALATHION DUST 5, Malathion 5%-I-Fla. Agr. Supply
2814 FASCO MALATHION LIQUID-5, Malathion 57.35%-I-Fla. Agr. Supply
2815 FASCO MALATHION SOLN-9, Malathion 90%-I-Fla. Agr. Supply
2816 FASCO MALATHION SOLUTION-35, P-C-O-I-Fla. Agr. Supply
2817 FASCO MANG-Z-KOP TOMATO SPRAY, Copper 33%, manganese 8%, zinc 3%-F-N-Fla. Agr. Supply
2818 FASCO METHYL PARATHION-DDT DUST 2½-5-I-Fla. Agr. Supply
2819 FASCO METHYL PARATHION-DDT DUST 2½-10-I-Fla. Agr. Supply
2820 FASCO METHYL PARATHION LIQUID-4, 4 lbs./gal.-I-Fla. Agr. Supply
2821 FASCO MYLONE® DUST-50, 3,5-Dimethyl-1,3,4,2H-tetrahydrothiadiazine-2-thione 50%-F-Fla. Agr. Supply
2822 FASCO MYONE® 85-WP, 3,5-Dimethyl-1,3,5,2H-tetrahydrothiadiazine-2-thione 85%-F-Fla. Agr. Supply
2823 FASCO NEMAGON® GRANULAR-346, 1,2-Dibromo-3-chloropropene-FI-Fla. Agr. Supply
2824 FASCO NEMAGON® LIQUID-50, 1,2-Dibromo-3-chloropropene-IF-Fla. Agr. Supply
2825 FASCO NU-TRI-COP, Copper 46.25% and 70%-F-Fla. Agr. Supply
2826 FASCO NU-TRI-HI-Cop, Copper 70%-F-Fla. Agr. Supply
2827 FASCO 90 OIL EMULSION, Oil 90%-I-Fla. Agr. Supply

2828 FASCO PARA-BAMATE DUST 1-4, Parathion 1%, zineb 4%-FI-Fla. Agr. Supply
2829 FASCO PARA-BAMATE DUST 1-6, Parathion 1%, zineb 6%-FI-Fla. Agr. Supply
2830 FASCO PARA-BAMATE DUST 1-6½, Parathion 1%, zineb 6.5%-FI-Fla. Agr. Supply
2831 FASCO PARA-BAMATE DUST 1½-6, Parathion 1.5%, zineb 6%-FI-Fla. Agr. Supply
2832 FASCO PARA-BAMATE DUST 2-6, Parathion 2%, zineb 6%-FI-Fla. Agr. Supply
2833 FASCO PARA-MANG-SUL DUST 1.5-10-80, Parathion 1.5%, sulfur 80%.
2834 FASCO PARATHION 25-DB, Parathion 25%-IC-Fla. Agr. Supply
2835 FASCO PARATHION 15-WP, Parathion 15%-I-Fla. Agr. Supply
2836 FASCO PARATHION-COPPER DUST 2-18,-FI-Fla. Agr. Supply
2837 FASCO PARATHION-DDT DUST 1-5, Parathion 1%, DDT 5%-I-Fla. Agr. Supply
2838 FASCO PARATHION-DDT DUST, 1-7½, DDT 7½%, parathion 1%-I-Fla. Agr. Supply
2839 FASCO PARATHION-DDT DUST 1-10, DDT 10%, parathion 1%-I-Fla. Agr. Supply
2840 FASCO PARATHION-DDT-DUST 2-5, DDT 5%, parathion 2%-I-Fla. Agr. Supply
2841 FASCO PARATHION-DDT-DUST 2-10, DDT 10%, parathion 2%-I-Fla. Agr. Supply
2842 FASCO PARATHION-DDT SULDUST 1-5-75-FI-Fla. Agr. Supply
2843 FASCO PARATHION DUST 100, Parathion 1%-I-Fla. Agr. Supply
2844 FASCO PARATHION DUST-150, Parathion 1.5%-I-Fla. Agr. Supply
2845 FASCO PARATHION DUST 200, Parathion 2%-I-Fla. Agr. Supply
2846 FASCO PARATHION EMULSION-4, (4 lbs./gal.)-I-Fla. Agr. Supply
2847 FASCO PARATHION EMUL.-8, Parathion 80%-I-Fla. Agr. Supply
2848 FASCO PARATHION GRANULAR-10 (10%)-I-Fla. Agr. Supply
2849 FASCO PARATHION LIQUID-8-I-Fla. Agr. Supply
2850 FASCO PARATHION LIQUID 25, Parathion 25%-I-Fla. Agr. Supply
2851 FASCO PARATHION SEVIN® DUST 1-5, 1-Naphthyl N-methylcarbamate, parathion 1%-I-Fla. Agr. Supply
2852 FASCO PARATHION-SULPHUR DUST 1.75, Parathion 1%, sulfur 75%-FI-Fla. Agr. Supply
2853 FASCO PARATHION-SULPHUR DUST 2-75, Parathion 2%, sulfur 75%-FI-Fla. Agr. Supply
2854 FASCO PARATHION TERPENE SULDUST 2-10-58, Parathion 2%, sulfur 58%, toxaphene 10%-FI-Fla. Agr. Supply
2855 FASCO PARIS GREEN AEROGRAN 5-I-Fla. Agr. Supply
2856 FASCO PARIS GREEN GRANULAR 7½ (Aerial)-I-Fla. Agr. Supply
2857 FASCO PARIS GREEN GRANULAR-10-I-Fla. Agr. Supply
2858 FASCO P-C-O MALATHION SOLUTION-35-IC-Fla. Agr. Supply
2859 FASCO P-D-Q PARA-D LIQUID ½-2, Parathion 5.75%, TDE 23.3%-I-Fla. Agr. Supply
2860 FASCO P-D-Q SHADE TOBACCO DUST NO. 1, DDT 10%, zineb 6.5%-FI-Fla. Agr. Supply
2861 FASCO P-D-Q SHADE TOBACCO DUST 1-10-20 DDT 10%, parathion 1%, zineb 13%-FI-Fla. Agr. Supply
2862 FASCO P-D-Q SHADE TOBACCO ENDRIN DUST 2-20, Endrin 2%, zineb 13%-FI-Fla. Agr. Supply
2863 FASCO P-D-Q SHADE TOBACCO DUST NO. 5, DDT 10%, parathion 1%-I-Fla. Agr. Supply
2864 FASCO P-D-Q SHADE TOBACCO DUST No. 6, TDE 10%, zineb 6.5%-FI-Fla. Agr. Supply
2865 FASCO P-D-Q SHADE TOBACCO DDD DUST 10, DDD 10%-I-Fla. Agr. Supply
2866 FASCO P-D-Q SHADE TOBACCO ENDRIN DUST-2, Endrin 2%-I-Fla. Agr. Supply
2867 FASCO P-D-Q SHADE TOBACCO ENDRIN DUST 2-6½-I-Fla. Agr. Supply
2868 FASCO P-D-Q SHADE TOBACCO DUST NO. 3, DDT 10%, parathion 1%, zineb 0.5%-FI-Fla. Agr. Supply
2869 FASCO P-D-Q SHADE TOBACCO DUST NO. 4, DDT 10%, parathion 1%, zineb 6.5%-FI-Fla. Agr. Supply
2870 FASCO P-D-Q SHADE TOBACCO THIODAN® DUST-4-1Fla. Agr. Supply
2871 FASCO P-D-Q SPRAY NO. 2, Parathion 3.75%, TDE 37.5%-I-Fla. Agr. Supply
2872 FASCO P-D-Q TOBACCO DUST 1-5, Parathion 1%, TDE 5%-I-Fla. Agr. Supply
2873 FASCO P-D-Q TOBACCO DUST 1-5, Parathion 1%, TDE 5%-I-Fla. Agr. Supply
2874 FASCO P-D-Q TOBACCO DUST 1-10, Parathion 1%, TDE 10%-I-Fla. Agr. Supply
2875 FASCO P-D-Q TOBACCO DUST 2-10, Parathion 2%, TDE 10%-I-Fla. Agr. Supply
2876 FASCO P-D-Q TOBACCO PLANT BED DUST, Parathion 1%, TDE 3%, zineb 6.5%-FI-Fla. Agr. Supply
2877 FASCO P-D-Q TRANSPLANTER LIQUID, Chlordane 72%-I-Fla. Agr. Supply
2878 FASCO P-D-Q WIREWORM INSECTICIDE (HEPTACHLOR)-I-Fla. Agr. Supply
2879 FASCO PEACH SPRAY CAPTAN-PARATHION 2-2, Captan 25%, parathion 7½%-FI-Fla. Agr. Supply
2880 FASCO PEACH SPRAY S-P 6-2-3, Parathion 2.7%, sulfur 54.5%, zinc 14%-FI-Fla. Agr. Supply
2881 FASCO PEACH SPRAY S-P 6-2, Parathion 3.75%, sulfur 75%-FI-Fla. Agri. Supply

2882 FASCO PEANUT DUST 90-10, Copper 3.4%, sulfur 87.5%-FI-Fla. Agr. Supply
2883 FASCO PEANUT DUST NO. 90-10-2½, Copper 3.4%, DDT 2.5%, sulfur 82%-FI-Fla. Agr. Supply
2884 FASCO PEANUT DUST 90-10-5, Copper 3.4%, DDT 5%, sulfur 80%-FI-Fla. Agr. Supply
2885 FASCO PHOSDRIN® 25-WP, 2-Carbomethoxy-1-propene-2-yl-dimethyl phosphate 25%-I-Fla. Agr. Supply
2886 FASCO PHOSDRIN® LIQUID-2, 2-Carbomethoxy-1-propene-2-yl-dimethyl phosphate 2 lbs./gal.-I-Fla. Agr. Supply
2887 FASCO PHYGON® 50-WP, Dichlone 50%-F-Fla. Agri. Supply
2888 FASCO PUR-GAM DUST 100, Lindane 1%-I-Fla. Agr. Supply
2889 FASCO PUR-GAM DUST 150, Lindane 1.5%-I-Fla. Agr. Supply
2890 FASCO ROTENONE 4-WP, Rotenone 4%-I-Fla. Agr. Supply
2891 FASCO ROTENONE DUST 100, Rotenone 1%-I-Fla. Agr. Supply
2892 FASCO ROTENONE-SULPHUR DUST 2-30-FI-Fla. Agr. Supply
2893 FASCO SEVIN® BEAN DUST 175, 1-Naphthyl-N-methylcarbamate 1.75%-I-Fla. Agr. Supply
2894 FASCO SEVIN® BEAN DUST 175-60, 1-Naphthyl-N-methylcarbamate 1.75%, sulfur 60%-FI-Fla. Agr. Supply
2895 FASCO SEVIN® DUST 5, 1-Naphthyl-N-methylcarbamate 5%-I-Fla. Agr. Supply
2896 FASCO SEVIN® DUST 7½, 1-Naphthyl-N-methylcarbamate 7.5%-I-Fla. Agr. Supply
2897 FASCO SEVIN® DUST 7½-40, 1-Naphthyl-N-methylcarbamate 7.5%, sulfur 40%-FI-Fla. Agr. Supply
2898 FASCO SEVIN® DUST-10, 1-Naphthyl-N-methylcarbamate 10%-I-Fla. Agr. Supply
2899 FASCO SEVIN® DUST 10-40, 1-Naphthyl-N-methylcarbamate 10%, sulfur 40%-FI-Fla. Agr. Supply
2900 FASCO SEVINEB DUST 5-6, 1-Naphthyl-N-methylcarbamate 5%, zineb 6%-FI-Fla. Agr. Supply
2901 FASCO SEVIN® SPRAYABLE, 1-Naphthyl-N-methylcarbamate 85%-I-Fla. Agr. Supply
2902 FASCO SHADE TOBACCO BLUE MOLD DUST-10, Zineb 6.5%-F-Fla. Agr. Supply
2903 FASCO SPERGON® DUST-5, Chloranil 4.8%-F-Fla. Agr. Supply
2904 FASCO SPERGON®-DDT 5-5 DUST, Chloranil 4.8%, DDT 5%-FI-Fla. Agr. Supply
2905 FASCO STREPTOMYCIN DUST-2, Streptomycin 0.2%-Antibiotic-F-Fla. Agr. Supply
2906 FASCO STORED GRAIN DUST M-1, Malathion 1%-I-Fla. Agr. Supply
2907 FASCO STORED GRAIN SPRAY M-5, Malathion 57.1%, oil 34%-I-Fla. Agr. Supply
2908 FASCO SLPHUR, Commercial flour sulfur 99.5%-FI-Fla. Agr. Supply
2909 FASCO SULPHUR CONDITIONED 93-FI-Fla. Agr. Supply
2910 FASCO SULPHUR, CONDITIONED 99-FI-Fla. Agr. Supply
2911 FASCO SULPHUR, CRUDE CRUSHED-FI-Fla. Agr. Supply
2912 FASCO SULPHUR-DDT DUST 60-3, DDT 3%, sulfur 60%-FI-Fla. Agr. Supply
2913 FASCO SULPHUR-DDT DUST 60-5, DDT 5%, sulfur 60%-FI-Agr. Supply
2914 FASCO SULPHUR-DDT DUST 75-10, DDT 10%, sulfur 75%-FI-Fla. Agr. Supply
2915 FASCO SULPHUR-DDT 84-5 DUST, DDT 5%, sulfur 84%-FI-Fla. Agr. Supply
2916 FASCO SULPHUR-DDT DUST 88-3, DDT 3%, sulfur 88%-FI-Fla. Agr. Supply
2917 FASCO SULPHUR-MANG DUST 90-10, Manganese 10%, sulfur 90%-FI-N-Fla. Agr. Supply
2918 FASCO SUPERFINE FLOUR SULPHUR, Sulfur 99.5%-FI-Fla. Agri. Supply
2919 FASCO 40 TEPP, Tepp 40%-I-Fla. Agr. Supply
2920 FASCO TERCAP, Captan 24.75%, PCNB 37.25%-F-Fla. Agr. Supply
2921 FASCO TERPENE 40-WP, Toxaphene 40%-I-Fla. Agr. Supply
2922 FASCO TERPENE BAIT-225, Toxaphene-I-Fla. Agr. Supply
2923 FASCO TERPENE COPPER-SULDUST 5-12, Copper 6.2%, sulfur 58%, toxaphene 5%-FI-Fla. Agr. Supply
2924 FASCO TERPENE 20 COTTON DUST, Toxaphene 20%-I-Fla. Agr. Supply
2925 FASCO TERPENE-DDT DUST 5-5, DDT 5%, toxaphene 5%-I-Fla. Agr. Supply
2926 FASCO TERPENE-DDT DUST 20-10, DDT 10%, toxaphene 20%-I-Fla. Agr. Supply
2927 FASCO TERPENE DUST-10, Toxaphene 10%-I-Fla. Agr. Supply
2928 FASCO TERPENE LIQUID-6, Toxaphene-I-Fla. Agr. Supply
2929 FASCO TERPENE LIQUID-8, Toxaphene 8 lbs./gal.-I-Fla. Agr. Supply
2930 FASCO TERPENE-PARATHION DUST 10-2, Parathion 2%, toxaphene 10%-I-Fla. Agr. Supply
2931 FASCO TERRACLOR® DUST-40, Pentachloronitrobenzene 40%-FI-Fla. Agr. Supply
2932 FASCO TERRACLOR® 2 E.C., Pentachloronitrobenzene 24%-F-Fla. Agr. Supply
2933 FASCO TERRACLOR® 75-WP, Pentachloronitrobenzene 75%-F-Fla. Agr. Supply
2934 FASCO THIODAN® 50-WP, Endosulfan 50%-I-Fla. Agr. Supply
2935 FASCO THIODAN® DUST-3, Endosulfan 3%-I-Fla. Agr. Supply
2936 FASCO THIODAN® LIQUID-2, Endosulfan 2 lbs./gal.-I-Fla. Agr. Supply

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2937 FASCO TRITHION® DUST NO. 2, Carbophenothion-I-Fla. Agr. Supply
2938 FASCO TRITHION® "S" DUST 2-85, Carbophenothion 2%, sulfur 85%-FI-Fla. Agr. Supply
2939 FASCO TRITHION® EMULSION-4, Carbophenothion-I-Fla. Agr. Supply
2940 FASCO TRITHION® 25-WP, Carbophenothion-I-Fla. Agr. Supply
2941 FASCO ZERLATE® DUST 6-Z, Ziram-F-Fla. Agr. Supply
2942 FASCO ZINEB-DDT DUST 10-5, TDE 5%, zineb 6.5%-FI-Fla. Agr. Supply
2943 FASCO ZINEB-DDT DUST 6½-5, DDT 5%, zineb 6.5%-FI-Fla. Agr. Supply
2944 FASCO ZINEB-DDT DUST 6½-10, DDT 10%, zineb 6.5%-FI-Fla. Agr. Supply
2945 FASCO ZINEB-DDT-SULPHUR DUST 6½-5 30-FI-Fla. Agr. Supply
2946 FASCO ZINEB DUST 4, Zineb 4%-F-Fla. Agr. Supply
2947 FASCO ZINEB DUST 6, Zineb 6%-F-Fla. Agr. Supply
2948 FASCO ZINEB DUST 6½, Zineb 6.5%-F-Fla. Agr. Supply
2949 FASCO ZINEB 75-WP, Zineb 75%-F-Fla. Agr. Supply
2950 FASCO ZINOIL-5, Oil 73.5%, zineb 5.03%-FI-Fla. Agr. Supply
2951 FASCO Z-S 3-10 ENDURO NEUTRAL, Sulfur, zinc-FN-Fla. Agr. Supply
2952 FATSCO ANT POISON, Sodium arsenate 3%-IB-Fatsco
2953 FATAL FLY, Trichlorofon 1%-IB-Hess & Clark
2954 FATAL FOAM, Butoxypolypropylene glycol 8%, oil 0.47%, piperonyl butoxide 0.2%, pyrethrins 0.2%-I-Hess & Clark
2956 FEDERAL CHLORDANE EC-57, 57% Technical chlordane-I-Federal
2957 FEDERAL CHLORDANE EC-73, 73% Technical chlordane-I-Federal
2958 FEDERAL CHLORDANE OS 2, 2% Technical chlordane oil solution-I-Federal
2959 FEDERAL CHLORDANE OS 20, 20% Technical chlordane oil soluble concentrate-I-Federal
2960 FEDERAL DDT OS-5, 5% DDT, oil solution-I-Federal
2961 FEDERAL 50% DDT TRACKING DUST, 50% DDT-R-Federal
2962 FEDERAL DIAZINON® DEODORANT, Concentrated odor mask-A-Federal
2963 FEDERAL DIAZINON® OS½, 0.5% O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl), phosphorothioate, oil solution-I-Federal
2964 FEDERAL DIAZINON® OS 1, 1% O,O-diethyl O-(isopropyl-4-methyl-6-pyrimidihyl), phosphorothioate, oil solution-I-Federal
2965 FEDERAL DIAZINON®-THANITE® EMULSIFIABLE CONCENTRATE, 14.82%, O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidinyl), phosphorothioate, 28.23% isobornyl thiocyanoacetate-I-Federal
2966 FEDERAL FOGGING SOLUTION, 4% Technical chlordane, 2.5% isobornyl thiocyanoacetate, oil solution-I-Federal
2967 FEDERAL LINDANE S-½, 0.5% Gamma GHC, oil solution-I-Federal
2968 FEDERAL LINDANE OS-14, 14% Gamma BHC, oil soluble concentrate-I-Federal
2969 FEDERAL MALATHION EC 50, 50% Malathion, 30% methylated naphthalenes, emulsifiable concentrate-I-Federal
2970 FEDERAL MOTHKILLER, 20.05% Isobornyl thiocyanoacetate-I-Federal
2971 FEDERAL MOTH KILLER-PROOFER, 2.05% Isobornyl thiocyanoacetate, 4.75% diethyl diphenyl dichloroethane, oil-base contact spray-I-Federal
2972 FEDERAL MOTHPROOF SOLUTION, 1.5% Magnesium silicofluoride, water-base spray-MP-Federal
2973 FEDERAL MULTI-PURPOSE SPRAY (OIL TYPE), 0.15% Pyrethrins, 0.75% piperonyl butoxide-I-Federal
2974 FEDERAL NO ODOR MOTH PROOF, 1.5% Magnesium silicofluoride; water-base spray-MP-Federal
2975 FEDERAL ODOR-NEUTRALIZER-A-Federal
2976 FEDERAL ROACH POWDER, 1.5% piperonyl butoxide, 0.15% pyrethrins-I-Federal
2977 FEDERAL SOLDIUM FLUORIDE-PYRETHRUM POWDER, 0.82% piperonyl buroxide, 0.082% pyrethrins, 72.73% sodium fluoride-I-Federal
2978 FEDERAL SUPER-STRENGTH MULTI-PURPOSE SPRAY (OIL TYPE), 1.11% Piperonyl butoxide, 0.22% pyrethrins-Federal
2979 FEDERAL THALLIUM CEREAL GRAIN BAIT FOR RATS AND MICE, 1% Thallium sulphate-R-Federal
2980 FEDERAL THALLIUM SOLUTION 1.5% Thallium sulphate; liquid rodent bait-R-Federal
2981 FEDERAL THANITE®-TECHNICAL 82% Isobornyl thiocyanoacetate, 18% other active terpenes-IC-Federal
2982 FEDERAL WARFARIN RAT DETH, 0.025% Warfarin-R-Federal
2983 FELLER-MATIC AUTOMATIC INSECT CONTROL UNIT-E-Feller-Chem.
FENURON = 3-PHENYL-1,1-DIMETHYLUREA
FERBAM = FERRIC DIMETHYL DITHIOCARBAMATE
2985 FERBERK, Ferbam 76%-F-Wood Ridge

2985.30 FERCAP WETTABLE F-1, Captan 25%, ferbam 38%-F-Kilgore
2985.60 FERCAP WETTABLE F-2, Captan 28.5%, ferbam 32.75%-F-Kilgore
2986 FERMATE® D FERBAM FUNGICIDAL COMPOSITION, Ferbam 87.5%-F-DuPont (I & B)
2987 FERMATE® FERBAM FUNGICIDE, Ferbam 76%-F-DuPont (I & B) (F & F)
2988 FERRIC-FLOC, Iron 20%-A-Tenn. Corp.
2988.50 FISHSOL, Fish oil 100%-A-Destruxol
2989 FLAG 25% ALDRIN BASE, Aldrin 25%-IC-Flag Sulphur
2990 FLAG ALDRIN 2-E, 24.4% Aldrin-I-Flag Sulphur
2991 FLAG ALDRIN 4-E, 43.3% Aldrin-I-Flag Sulphur
2992 FLAG 20% ALDRIN GRANULAR-I-Flag Sulphur
2993 FLAG 25% ALDRIN (Wettable) -EI-Flag Sulphur
2994 FLAG 12% BHC (Wettable) -I-Flag Sulphur
2995 FLAG CHLORDANE BAIT, Chlordane 1.5%-IB-Flag Sulphur
2996 FLAG CHLORDANE 8-E, 8 lb./gal.-I-Flag Sulphur
2997 FLAG 5% CHLORDANE DUST-I-Flag Sulphur
2998 FLAG 10% CHLORDANE DUST-I-Flag Sulphur
2999 FLAG 5% CHLORDANE GRANULAR-I-Flag Sulphur
3000 FLAG 10% CHLORDANE GRANULAR-I-Flag Sulphur
3001 FLAG 40-W CHLORDANE WETTABLE-I-Flag Sulphur
3002 FLAG 50% DDT BASE-IC-Flag Sulphur
3003 FLAG 5% DDT DUST-I-Flag Sulphur
3004 FLAG 10% DDT DUST-I-Flag Sulphur
3005 FLAG 25% DDT EMULSION-I-Flag Sulphur
3006 FLAG 5% DDT-SULPHUR DUST, DDT 5%, sulfur 80%-FI-Sulphur
3007 FLAG 50% DDT WETTABLE-I-Flag Sulphur
3008 FLAG 5% DDT-6.5% ZINEB DUST-FI-Flag Sulphur
3009 FLAG DIELDRIN 1.5E, 1.5 lb./gal.-I-Flag Sulphur
3010 FLAG DIELDRIN 10 GRANULAR, 10% Dieldrin-I-Flag Sulphur
3011 FLAG 25% DIELDRIN (WETTABLE) -I-Flag Sulphur
3012 FLAG DUSTING SULPHUR, Sulfur 93%-FI-Flag Sulphur
3013 FLAG ENDRIN 1.6E, 1.6 lb./gal.-I-Flag Sulphur
3014 FLAG ETHION 3 DUST, 3% Ethion-I-Flag Sulphur
3015 FLAG ETHION 2-E, 25.35% Ethion-I-Flag Sulphur
3016 FLAG ETHION 4-E, 47.17% Ethion-I-Flag Sulphur
3017 FLAG ETHION 8-E, 81.35% Ethion-I-Flag Sulphur
3018 FLAG ETHION 4 GRANULAR, 4% Ethion-I-Flag Sulphur
3019 FLAG ETHION 3-SULPHUR DUST, 3.0% Ethion, 80% sulphur-FI-Flag Sulphur
3020 FLAG FLA FLO LIQUID 40, Parathion 43.5%-I-Flag Sulphur
3021 FLAG FLO-85 OIL EMULSION, 85% Oil-I-Flag Sulphur
3022 FLAG FLORIDA FLO 90 OIL EMULSION, 90% Oil-I-Flag Sulphur
3023 FLAG HEPTACHLOR 2-E, 2 lb./gal.-I-Flag Sulphur
3024 FLAG HEPTACHLOR 10 GRANULAR ,10% Heptachlor-I-Flag Sulphur
3025 FLAG HEPTACHLOR 25-W, 25% Heptachlor-I-Flag Sulphur
3026 FLAG LIME SULPHUR SOLN. (Filtered) Calcium polysulfides-FI-Flag Sulphur
3027 FLAG 1.5% LINDANE DUST-Flag Sulphur
3028 FLAG 25% LINDANE (Wettable) -I-Flag Sulphur
3029 FLAG MALATHION 5-E, 5 lb./gal.-I-Flag Sulphur
3030 FLAG 25% MALATHION (Wettable) -I-Flag Sulphur
3031 FLAG MANGANESE-SULPHUR DUST, Manganese 2.25%, sulfur 80%-FI-Flag Sulphur
3032 FLAG 34.6% NEMAGON® GRANULAR, 1,2-Dibromo-3-chloropropane 34.6%-IF-Flag Sulphur
3033 FLAG NEMAGON® EC-2, 2 lb./gal. 1,2-Dibromo-3-chloropropane-IF-Flag Sulphur
3034 FLAG NU-COP, Copper 53%-F-Flag Sulphur
3035 FLAG NUTRITIONAL SPRAY NO. 1, Copper 5%, sulfur 60.5%, zinc 9.5%-N-Flag Sulphur
3036 FLAG NTRITIONAL SPRAY NO. 2, Boron 0.75%, copper 6.75%, sulfur 54.5%, zinc 9%-N-Flag Sulphur
3037 FLAG NUTRITIONAL SPRAY NO. 3, Copper 6.5%, manganese 5.5%, sulfur 53.25%, zinc 8.75%-N-Flag Sulphur
3038 FLAG NUTRITIONAL SPRAY NO. 4, Copper 6%, manganese 5%, sulfur 49%, zinc 8%-N-Flag Sulphur
3039 FLAG PARATHION 2-E, 2 lb./gal.-I-Flag Sulphur
3040 FLAG PARATHION 4-E, 4 lb./gal.-I-Flag Sulphur
3041 FLAG PARATHION 8-E, 8 lb./gal.-I-Flag Sulphur
3042 FLAG PARATHION 10 GRANULAR, 10% Parathion-I-Flag Sulphur
3043 FLAG 1% PARATHION DUST-I-Flag Sulphur

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3044 FLAG 2% PARATHION DUST-I-Flag Sulphur
3045 FLAG 3% PARATHION DUST-I-Flag Sulphur
3046 FLAG 2% PARATHION 80% SULPHUR DUST-FI-Flag Sulphur
3047 FLAG 15% PARATHION WETTABLE BASE-I-Flag Sulphur
3048 FLAG 1% PARATHION-6.5% ZINEB DUST-FI-Flag Sulphur
3049 FLAG 2% PARATHION-6.5% ZINEB DUST-FI-Flag Sulphur
3050 FLAG 25% PARATHION WETTABLE-I-Flag Sulphur
3051 FLAG PHOSDRIN® 2-E, 2 lb./gal. 2-Carbomethoxy-1 propene-2yl dimethyl phosphate-I-Flag Sulphur
3052 FLAG 25% PHOSDRIN DUST BASE, 25% Phosdrin-IC-Flag Sulphur
3053 FLAG POWDERED SULPHUR, Sulfur 99.5%-FI-Flag Sulphur
3054 FLAG SODIUM MOLYBDATE-N-Flag Sulphur
3055 FLAG SOL OIL 97-I-Flag Sulphur
3056 FLAG SULPHUR WETTABLE, Sulfur 93% FI-Flag Sulphur
3057 FLAG 25% TEDION® WETTABLE, Tetradifon 25%-I-Flag Sulphur
3058 FLAG TEDION® I-E, Tetradifon 12.2%-I-Flag Sulphur
3059 FLAG 40% TEPP-I-Flag Sulphur
3060 FLAG 5% TOXAPHENE DUST-I-Flag Sulphur
3061 FLAG 10% TOXAPHENE DUST-I-Flag Sulphur
3062 FLAG 40% TOXAPHENE WETTABLE-I-Flag Sulphur
3063 FLAG TRITHION® 4 FLOWABLE, 41.9% O,O-Diethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate-I-Flag Sulphur
3064 FLAG TRITHION® GRANULAR, 10% O,O-Diethyl S (*p*-chlorophenylthio) methyl phosphorodithioate-I-Flag Sulphur
3065 FLAG 25% TRITHION® WETTABLE, Carbophenothion 25% I-Flag Sulphur
3066 FLAG WETTABLE SULPHUR-FI-Flag Sulphur
3067 FLAG 6.5% ZINEB DUST-F-Flag Sulphur
3068 FLAG ZINEB POWDER, Zineb 75%-F-Flag Sulphur
3069 FLEA-A-CIDE YARD AND KENNEL DUST BHC, DDT-I-Stephenson
3070 FLEA-I-CIDE, Chloranil, Di-phentane 70, malathion-I-Stephenson
3071 FLEA-NOT, Malathion-I-Nott
3072 FLEA-TOX, Piperonyl butoxide 1%, pyrethrins 0.15%-I-Canada Rex
3073 FLEA-TOX, Piperonyl butoxide, pyrethrins-I-Rex
3074 FLICK HYGIENIC DIP FOR DOGS, Oils, rotenone and rotenoids 4.5%-I-Garden Prods.
3076 FLIGHT BRAND ALDRIN-DDT DUST 2½-7-0-I-Carolina
3078 FLIGHT BRAND ALDRIN EMULSIFIABLE CONC., Aldrin 2 lbs./gal.-I-Carolina
3079 FLIGHT BRAND ALDRIN 2½% GRANULAR-I Carolina
3079.50 FLIGHT BRAND ALDRIN 5% GRANULAR-I-Carolina
3080 FLIGHT BRAND ALDRIN 10% GRANULAR-I-Carolina
3081 FLIGHT BRAND ALDRIN 25% GRANULAR I-Carolina
3082 FLIGHT BRAND ANT KILLER, Chlordane 4 lbs./gal.-I-Carolina
3083 FLIGHT BRAND BEAN BEETLE DUST, Rotenone 1%, rotenoids 1.6%-I-Carolina
3084 FLIGHT BRAND BHC-DDT DUST 3-7-0-I-Carolina
3085 FLIGHT BRAND BHC-DDT DUST 3-10-0-I-Carolina
3086 FLIGHT BRAND BHC-DDT-SULPHUR DUST 3-10-40-FI-Carolina
3087 FLIGHT BRAND 1½GAMMA BHC DUST-I-Carolina
3088 FLIGHT BRAND BHC DUST 3-0-0-I-Carolina
3089 FLIGHT BRAND BHC PINE TREE SPRAY (1 lb. Gamma isomer/gal.) -I-Carolina
3090 FLIGHT BRAND 10% CHLORDANE DUST-I-Carolina
3094 FLIGHT BRAND CHLORDANE EMULSIFIABLE CONC., Chlordane 2, 4 & 8 lbs./gal.-I-Carolina
3096 FLIGHT BRAND CHLORDANE 10% GRANULAR-I-Carolina
3098 FLIGHT BRAND CHLORDANE 25% GRANULAR-I-Carolina
3098.50 FLYCO BRAND CIODRIN® EMULSIFIABLE CONCENTRATE, a-Methylbenzyl-3-(dimethoxyphosphinyloxy) -cis-crotonate-I-Fly Cord
3099 FLIGHT BRAND 6% COPPER DUST-F-Carolina
3100 FLIGHT BRAND COPPER-SULPHUR PEANUT DUST-FI-Carolina
3101 FLIGHT BRAND 10% DDT DUST-I-Carolina
3102 FLIGHT BRAND DDT EMUL. CONC., DDT 2 lbs./gal.-I-Carolina
3103 FLIGHT BRAND DDT 10% GRANULAR-I-Carolina
3106 FLIGHT BRAND DDT-METHYL TRITHION® DUST 10-3, 10% DDT, 3% O'O-dimethyl S-p-chlorophenylthiomethylphosphorodithioate-I-Carolina
3106.50 FLIGHT BRAND DDT-METHYL TRITHION® DUST 7-3 3% DDT, DDT, O,O-Dimethyl S-p-chlorophenylthiomethylphorodithioate-I-Carolina
3107 FLIGHT BRAND DDT-METHYL TRITHION DUST 15-3, 15% DDT, 3% O'O-dimethyl S-p-chlorophenylthiomethylphosphorodithiate-I-Carolina
3108 FLIGHT BRAND DIELDRIN EMULSIFIABLE CONC., Dieldrin 1.5 lbs./gal.-I-Carolina

3111 FLIGHT BRAND 10% DITHANE® DUST, Zineb 6.5%-F-Carolina
3112 FLIGHT BRAND ENDRIN DUST 1½-0-0-I-Carolina
3113 FLIGHT BRAND ENDRIN DUST 2-0-0-I-Carolina
3114 FLIGHT BRAND ENDRIN EMULSIFIABLE CONC., Endrin 1.6 lbs./gal.-I-Carolina
3115 FLIGHT BRAND 15% FERMATE DUST, Ferbam 12%-F-Carolina
3115.50 FLIGHT BRAND FERMATE-PARATHION 15-1 DUST, Ferbam, parathion-FI-Carolina
3116 FLIGHT BRAND HEPTACHLOR EMULSIFIABLE CONC., Heptachlor 2 lbs./gal.-I-Carolina
3118 FLIGHT BRAND HEPTACHLOR 10% GRANULAR-I-Carolina
3119 FLIGHT BRAND HEPTACHLOR 2½% GRANULAR-I-Carolina
3121 FLIGHT BRAND HEPTACHLOR 25% GRANULAR-I-Carolina
3123 FLIGHT BRAND MALATHION DUST 5%-I-Carolina
3124 FLIGHT BRAND MALATHION DUST 10%-I-Carolina
3125 FLIGHT BRAND MALATHION EC 5 lbs./gal.-I-Carolina
3126 FLIGHT BRAND 10% MARLATE® DUST, Methoxychlor 5%-I-Carolina
3127 FLIGHT BRAND MELON DUST, Zineb 6%-F-Carolina
3128 FLIGHT BRAND METHYL PARATHION 2 lbs./gal.-I-Carolina
3129 FLIGHT BRAND METHYL PARATHION-DDT DUST 2½-7-0-I-Carolina
3130 FLIGHT BRAND METHYL PARATHION-DDT DUST 2½-10-0-I-Carolina
3131 FLIGHT BRAND METHYL PARATHION DUST 2½-0-0-I-Carolina
3132 FLIGHT BRAND METHYL PARATHION-DDT 1-2 E.C., Methyl parathion 1 lb./gal. and DDT 2 lbs./gal.-I-Carolina
3133 FLIGHT BRAND METHYL PARATHION-DDT 1-½-3-E.C., Methyl parathion 1.5 lbs. and DDT 3 lbs./gal.-I-Carolina
3134 FLIGHT BRAND METHYL PARATHION-TOXAPHENE-DDT 2-14-7 DUST-I-Carolina
3134.50 FLIGHT BRAND METHYL TRITHION-DDT DUST 7-3 or 10-3, DDT 3%, O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate 7 or 10%-I-Carolina
3135 FLIGHT BRAND METHYL TRITHION®-DDT 1-2 E.C., 1 Lb. Carbophenothion & 2 lbs. DDT/gal.-I-Carolina
3136 FLIGHT BRAND METHYL TRITHION®-DDT 2-2- E.C., 2Lbs. DDT-/gal. 2 lbs. O,O-Dimethyl S-p-chlorophenylthiomethylphosphorodithioate-I-Carolina
3138 FLIGHT BRAND NEMAGON®, 1,2-Dibromo-3-chloropropane 30%-IF-Carolina
3139 FLIGHT BRAND 70% NEMAGON® EC, 1,2-dibromo-3-chloropropane 70%-IF-Carolina
3140 FLIGHT BRAND 1% PARATHION DUST-I-Carolina
3142 FLIGHT BRAND PEACH SPRAYS, Parathion, sulfur-various formulations-FI-Carolina
3143 FLIGHT BRAND PEANUT DUST, 5% 1-Naphthyl-N-methylcarbamate, 75% sulphur-FI-Carolina
3144 FLIGHT BRAND PEANUT DUST 4-5-75, Carbaryl 5%, copper 4% ,sulfur 75%-FI-Carolina
3145 FLIGHT BRAND PEANUT DUST 7.5-5-70, Copper, DDT, sulfur-FI-Carolina
3145.50 FLIGHT BRAND PEANUT DUST 7.5-85, Copper, sulfur-FI-Carolina
3146 FLIGHT BRAND 1-10 PENTACHLOROPHENOL WOOD PRESERVATIVE-WP-Carolina
3148 FLIGHT BRAND PY-RO LOUSE POWDER, Naphthalene 7%, pyrethrins 0.09%, rotenone 1.5%, rotenoids 3.38%-I-Carolina
3149 FLIGHT BRAND ROTENONE DUST WITH PYRETHRUM AND SULFUR, Pyrethrins 0.03%, rotenone 1%, rotenoids 1.6%, sulfur 15%-FI-Carolina
3150 FLIGHT BRAND SABADILLA DUST, Sabadilla alkaloids 1%-I-Carolina
3151 FLIGHT BRAND SEVIN® BEAN DUST 1¾%, 1¾% 1-Naphthyl-N-methylcarbamate-I-Carolina
3152 FLIGHT BRAND SEVIN® DUST 5%, 5%-1-Naphthyl-N-methylcarbamate-I-Carolina
3153 FLIGHT BRAND SEVIN® DUST 10% ,10% 1-Naphthyl-N-methylcarbamate-I-Carolina
3153.50 FLIGHT BRAND SEVIN®-PARATHION DUST 5-1 and 10-1, Carbaryl 5 or 10%, parathion 1%-I-Carolina
3154 FLIGHT BRAND 10% TDE DUST-I-Carolina
3155 FLIGHT BRAND TDE EMULSIFIABLE CONC., TDE 2 lbs./gal.-I-Carolina
3156 FLIGHT BRAND TDE-PARATHION DUST 5-1-I-Carolina
3157 FLIGHT BRAND TDE-PARATHION DUST 10-1-I-Carolina
3158 FLIGHT BRAND TOMATO DUST CONTG. COPPER & TDE, Copper 6% TDE 5%-FI-Carolina
3159 FLIGHT BRAND 40% TOXAPHENE CONC. (WETTABLE) -I-Carolina
3160 FLIGHT BRAND TOXAPHENE-DDT EMULSIFIABLE CONC., DDT 2 lbs./gal., toxaphene 4 lbs.-I-Carolina
3160.30 FLIGHT BRAND TOXAPHENE DDT-SULFUR DUST 10-5-40-FI-Carolina

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3160.60 FLIGHT BRAND TOXAPHENE-DDT 25-25-WETTABLE POWDER-I-Carolina
3161 FLIGHT BRAND TOXAPHENE DUST 20-0-I-Carolina
3162 FLIGHT BRAND TOXAPHENE-DDT 14-7 DUST-I-Carolina
3163 FLIGHT BRAND TOXAPHENE EMULSIFIABLE CONC., Toxaphene 4, 6 & 8 lbs./gal.-I-Carolina
3164 FLIGHT BRAND TOXAPHENE 25% GRANULAR-I-Carolina
3165 FLIGHT BRAND TOXAPHENE-SULPHUR DUST 20-40-FI-Carolina
3165.30 FLYCO BRAND VAPONA®, Emulsifiable 10% DDVP-I-Fly-Cord
3165.60 FLYCO BRAND 20% VAPONA® RESIN STRIP DDVP-IB-Fly-Cord
3166 FLIGHT BRAND 5% WETTABLE POWDER CATTLE GRUB SPRAY, Rotenone 5%-I-Carolina
3167 FLORATOX AMINE WEED KILLER, 2,4-D acid dimethylamine salt 4 lbs./gal.-H-Assoc. Sales
3168 FLORATOX HERBICIDE P-40 CONC., Pentachlorophenol 40%-H-Assoc. Sales
3169 FLORATOX-LOW VOLATILE 2,4-D WEED KILLER, 2,4-D acid BEP esters 4 lbs./-H-Assoc. Sales
3170 FLORBAIT, Malathion 1%-IB-Howard
3171 FLOREX 16/30 MESH (AA-LVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3172 FLOREX SPECIAL 20/40 MESH (AA-LVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3173 FLOREX 24/48 MESH (AA-LVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3174 FLOREX 30/60 MESH (AA-LVM), Fullers earth (attapulgite) granular base-D-Floridin
3175 FLOREX 16/30 MESH (AA-RVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3176 FLOREX SPECIAL 20/40 MESH (AA-RVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3177 FLOREX 24/48 MESH (AA-RVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3178 FLOREX 30/60 MESH (AA-RVM), Fullers earth (attapulgite) granular pesticide base-D-Floridin
3179 FLORIDA VOLCK FLOWABLE OIL EMUL., Oil 80%-I-Calif. Chem.
3180 FLOTOX DUSTING SULFUR, Sulfur 98%-FI-Calif. Chem.
3181 FLOTOX GARDEN SULFUR, Sulfur 90%-FI-Calif. Chem.
3182 FLOTOX WETTABLE SULFUR, Sulfur 95%-FI-Calif. Chem.
3183 FLUO PYRE, ROACH POWDER, Pyrethrum, sodium fluoride-I-Am. Fluoride
3184 FLYCO BRAND FLY BAIT, DDVP-IB-Fly-Cord
3186 FLYCO BRAND MOUSE AND RAT BAIT, Warfarin-R-Fly-Cord
3188 FLY-CORD FORMULA "D-P", O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate parathion-I-Fly-Cord
3189 FLY-CORD FORMULA "P", Parathion-I-Fly Cord
3190 FLYDED INSECT SPRAY, DDT 5%, methylated naphthalenes 9.5%, organic thiocyanates 0.5%, oil 85%-I-Boyle-Midway
3191 FLYDED PUSH-BUTTON INSECT KILLER, Allethrin 0.1%, organic thiocyanates 1%, DDT 2%, oil 16.65%, piperonyl butoxide 0.25%-IA-Boyle-Midway
3192 FLY-DY INSECTICIDE BOMB, Allethrin 0.10%, DDT 3%, organic thiocyanates 0.82%, methoxychlor 1%, N-octyl benzlheptene dicarboximate 0.16%, oil 14.73%-IA-Russell Co. Lab
3193 FLY ELECTROCUTOR, Electrocuting fly screens and fly traps-E-Detjen
3193.50 FLYMOR, 1% DDVP-I-Howard
3194 FLY-TOX AEROSOL INSECT BOMB, Methoxychlor 2%, oil 16.55%, piperonyl butoxide 1.25%, pyrethrins 0.2%-IA-Rex
3195 FLY-TOX HOUSE & GARDEN AEROSOL, Allethrin .1%, DDT 3%, Isobornyl thiocyanoacetate 1%, methoxychlor 1%, n-octyl bicycloheptene dicarboximide .166%-IA-Canada Rex
3196 FLY-TOX HOUSE & GARDEN BOMB, Methoxychlor, piperonyl butoxide, pyrethrins-IA-Canada Rex
3197 FLY-TOX HOUSE & GARDEN BOMB (With deodorizer), Methoxychlor 2%, piperonyl butoxide 1.25%, pyrethrins 0.2%-IA-Rex
3198 FLY-TOX INSECT BOMB, Methoxychlor, oil, piperonyl butoxide, pyrethrins-IA-Canada Rex
3199 FLY-TOX INSECT BOMB, Methoxychlor 2%, piperonyl butoxide 1.25%, pyrethrins 0.20%-I-Canada Rex
3200 FLY-TOX SPRAY, Piperonyl butoxide 0.337%, pyrethrins 0.042%-I-Canada Rex
3201 FOGICIDE L, Lindane-I-Lorenz

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3202 FOGICIDE LV, Lindane 1%, DDVP 1%, oil 98%, I-Lorenz
3203 FOGICIDE NO. 10, Chlordane-I-Lorenz
3204 FOGICIDE NO. 10-A, Chlordane-I-Lorenz
3205 FOGICIDE NO. 20, Lindane 10%, methyl ethyl ketone 20%, methylated naphthalenes 10%, oil 60%-I-Lorenz
3206 FOGICIDE NO. 30, DDT 30%-I-Lorenz
3207 FOGICIDE NO. 120, Chlordane 12.8%, DDT 23.6%, oil 54.8%-I-Lorenz
3208 FOGICIDE C, Chlordane-I-Lorenz
3209 FOGICIDE P, Piperonyl butoxide, pyrethrins-I-Lorenz
3210 FOGICIDE V, DDVP-I-Lorenz
3211 FOLEX®, Merphos 75%-H-Virginia-Carolina
3212 5% FOLEX® DUST, Merphos 4.75%, related compounds .25%-H-Virginia-Carolina
3213 FOLIAFUME, Pine oil, pyrethrins, rotenone-I-Penick
FOLPET = N—TRICHLOROMETHYL THIOPHTHALIMIDE
3214 FORAMBA INSECT SPRAY, N-Octyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-Uncle Sam
3215 FORAMBA MOTH LIQUID, N-Octyl bicycloheptene dicarboximide, oil, paradichlorobenzene, piperonyl butoxide, pyrethrins-I-Uncle Sam
3216 FORCE'S GOPHER KILLER, Strychnine alkaloid 0.6-R-Carajon
3217 FORCE'S MOLE KILLER, Arsenic trioxide 5%-R-Carajon
3218 FORCE'S MOL-RID, Thallium sulphate 1% R-Carajon
3219 FORCE'S MOUS-CON, Zinc phosphide 2%-R-Carajon
3220 FORCE'S MOUS-RID, Strychnine alkaloid 0.5%-R-Carajon
3221 FORCE'S POISON PEANUTS, Thallium sulphate 1%-R-Carajon
3222 FORCE'S POISON WHEAT, Strychnine alkaloid 1.5%-R-Carajon
3223 FORCE'S RO-DEX, Strychnine alkaloid 0.5%-R-Carajon
3223.50 FORMULA 40®, Alkanolamine salts (of the ethanol and isopropanol series) of 2,4-D 65%-H-Dow
3224 FORMULA L, Phenyl mercuric acetate 3%-F-Guard
3225 FORRON®, Propylene glycol butyl ether esters of 2,4-D 26.5%, propylene glycol butyl ether esters of 2,4,5-T 25.2%-H-Dow
3227 FOS-FALL "A", (defoliant), S,S,S-Tributyl phosphorotrithioate 6 lbs./gal.-H-Chipman
3228 FRANKLIN WW CLAY-D-United Clay
FREON 12 = DICHLORODIFLUOROMETHANE
3230 FRIANITE M3X-Calif. Ind. Min.
3233 FRIEND AIRMASTER AIR BLAST SPRAYERS-E-Friend
3234 FRIEND COMMANDER GENERAL PURPOSE SPRAYERS-E-Friend
3235 FRIEND COMMANDER KASH KROP FIELD SPRAYERS-E-Friend
3236 FRIEND HIGH PRESSURE ENGINE FIELD SPRAYERS-E-Friend
3237 FRIEND HIGH PRESSURE ENGINE ORCHARD SPRAYRS-E-Friend
3238 FRIEND HIGH PRESSURE PTO FIELD SPRAYERS-E-Friend
3239 FRIEND HIGH PRESSURE PTO ORCHARD SPRAYERS-E-Friend
3240 FRIEND POWER FIELD DUSTERS-E-Friend
3241 FRIEND POWER ORCHARD DUSTERS-E-Friend
3242 FRONTIER BENZYL BENZOATE-IR-Frontier
3243 FRONTIER BENZYL BENZOATE INSECT REPELLENT-IR-Frontier
3244 FRONTIER HIGH AND LOW GAMMA BENZENE HEXACHLORIDE TECHNICAL GRADE-IC-Frontier Chem.
3245 FRONTIER METHYL BROMIDE, 98% Methyl bromide, 2% chloropicrin-IF-Frontier
3246 FRONTIER METHYL BROMIDE 100%-IF-Frontier
3247 FRONTIER PENTACHLOROPHENOL-WP-Frontier Chemical
3248 FRONTIER TOBACCO PLANT BED AND SOIL FUMIGANT, 2% Chloropicrin, 98% methyl bromide-IF-Frontier
3249 FULEX A-D-O (ANTI DAMPING OFF FORMULA), 8-Quinolinol sulfate-F-Fuller System
3250 FULEX AERO-FOG, Chlorinated naphthalenes and chlorinated benzenes, naphthalene I-Fuller System
3251 FULEX APHID SMOKE, Lindane 11.2%-IA-Fuller System
3252 FULEX NICOTINE FUMIGATOR, Nicotine alkaloid 14%-IA-Fuller System
3253 FULEX PARATHION FUMIGATOR, Parathion 9%-IA-Fuller System
3254 FULEX SOIL TREATMENT FOR CARNATIONS Lindane 2.6%, Chloronaphthalenes 40%, hydroxyquinoline sulfate 17%-FI-Fuller System
3255 FULEX SPIDER-MITE FUMIGATOR, 2-(p-tert Butylphenoxy) isopropyl 2-chloroethyl sulfite-IA-Fuller System
3256 FULEX TEDION® FUMIGATOR, Tetradifon 15%-IA-Fuller System
3257 FULEX TEDION® SMOKE FUMIGATOR, Tetradifon 15%-IA-Fuller System
3258 FULEX THIODAN® SMOKE FUMIGATOR, Endosulfan 15%-IA-Fuller System

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3259 FULEX VAPONA® SMOKE FUMIGATOR, DDVP 7%-IA-Fuller System
3260 FULLER INSECT SPRAY, Pyrethrins 0.5%, piperonyl butoxide 4.0%, oil 10.5%-I-Fuller Brush Co.
3261 FUMAGON, 1,2-Dibromo-3-chloropropane 50%-IF-Fla. Agr. Supply
3262 FUMARIN®, Coumafuryl-R-Amchem
3263 FUMAZONE®, 1,2-Dibromo-3-chloropropane-IFC-Dow
3264 FUMAZONE® 70E, 1,2-Dibromo-3-chloropropane 67.5%, other halogenated C_3 compounds 3.5%-IF-Dow
3265 FUMEGON DOG REPELLENT-AN-Nott
3266 FUMO-GAS, Carbon tetrachloride 25%, ethylene dichloride 75%-IF-Am. Fumig.
3267 FUMO-SPRAY WAREHOUSE/MILL SPRAY 5% Organic thiocyanates, 1% pyrethrins IF-Am. Fumig.
3268 FUNGCHEX, Mercuric chloride 32.6%, mercurous chloride 65.4%-F-Wood Ridge
3269 FUNGITROL® 11, Folpet-F-Nuodex
3270 FUNGITROL® 617, 100% Fatty amine salts of tetrachlorphenol-F-Nuodex
3270.50 GAFAC RE-610, Organic phosphate ester, emulsifier for pesticide concentrates 100%-A-General Aniline
3271 GAFAC RM-510, Organic phosphate ester, emulsifier for pesticide concentrates 100%-A-General Aniline
3271.50 GAFAC RM-710, Organic phosphate ester, emulsifier for pesticide concentrates 100%-A-General Aniline
3272 GAFAC RS-610, Organic phosphate ester, emulsifier for pesticides in liquid pesticide/fertilizer blends-A-General Aniline
3272.50 GAFAC RS-710, Organic phosphate ester, emulsifier for pesticide concentrates 100%-A-General Aniline
3273 GALLODRENCH, Phenyl mercury acetate 0.67%-F-Gallowhur
3273.50 GALLODUAL, Aldrin 27%, phenyl mercury acetate 2.7%-FI-Gallowhur
3275 GALLOTOX, Phenyl mercury acetate 6.5%-F-Gallowhur
3276 GALLOTOX, Phenyl mercury acetate 4% (Grain Spray)-F-Guard
3277 GALLOTOX 51, Volatile mercuries 4% (Grain Spray)-F-Guard
3279 GANDY GRANULAR CHEMICAL ROW CROP APPLICATOR, Applicator for granular soil pesticide-E-Gandy
3280 GANDY DISK-MOUNTED GRANULAR APPLICATOR-E-Gandy
3281 GANDY LO-HI GRANULAR CHEMICAL APPLICATOR, Broadcast applicator for granular pesticides-E-Gandy
3282 GANDY RO-BANDERS®, Attachments for Gandy Granular Chemical Row Crop Applicator for application of granular herbicides-E-Gandy
3283 GARD ANT AND ROACH KILLER, Chlordane 25%, oil 72.739%, piperonyl butoxide 0.115%, pyrethrins 0.046%-IA-Gard
3284 GARD MOTHPROOFER, Oil 35%, terpene polychlorinates 5%-IA-MP-Gard
3285 GARD SAFE-KILL "A", Oil 18%, piperonyl butoxide 1.6%, pyrethrins 0.4%-IA-Gard
3286 GARDEN DUST, Copper chrome zinc complex 2.0%, piperonyl butoxide 0.75%, pyrethrins 0.07%-FI-Destruxol
3286.50 GARLON®, Diethylene glycol bis 2,2-dichloropropionate (dalapon) 50.8%, 2-(2,4,5-trichlorophenoxy) propionic acid, propylene glycol butyl ether esters 7.7%-H-Dow
3287 GATEWAY MOTHENE, Oil 98.35%, paradichlorobenzene 0.75%, piperonylbutoxide 0.75%, pyrethrin 0.15%-I-Gateway Chem.
3288 GATEWAY NOX-A-BUG AEROSOL INSECT KILLER, Butoxypolypropylene glycol 3.92%, N-octyl sulfoxide of isosafrole 0.44%, oil 20.42%, phenoxy ethoxy ethyldimethyl benzyl ammonium chloride 0.16%, pyrethrins 0.2%, rotenoids 0.67%, rotenone 0.033%, triethylene glycol 0.1%-IA-Gateway Chem.
3289 GATEWAY NOX-A-BUG INSECTICIDE, Oil 99.1%, piperonyl butoxide 0.75%, pyrethrins 0.15%-I-Gatweay Chem.
3290 GATEWAY NOX-A-FLY HOUSEHOLD INSECTICIDE, Oil 99.568%, piperonyl butoxide 0.384%, pyrethrins 0.048%-I-Gateway Chem.
3291 GATEWAY ROACHINE PLUS DDT, DDT 10%, pyrethrins 1.24%-I-Gateway Chem.
3291.50 GATOR ROACH HIVES, Lead arsenate 16.2%-I-DeSoto
3292 GEIGY ATRAZINE 4G (GRANULAR) 4%, 2-chloro-4-ethylamino-6-isopropylamino-*s*-triazine-H-Geigy
3293 GEIGY ATRAZINE 8G (GRANULAR) 8%, 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazine-H-Geigy
3294 GEIGY ATRAZINE 20G (GRANULAR 20%), 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazine-H-Geigy
3295 GEIGY ATRAZINE 80W (Wettable Powder) 80% 2-Chloro-4-ethylamino-6-isopropylamino-*s*-triazone-H-Geigy
3296 GEIGY CHLOROBENZILATE® "80", Ethyl 4,4-dichlorobenzilate 80%-IC-Geigy
3296.50 GEIGY CHLOROBENZILATE® 4E, (4 lb./gal. emulsifiable ethyl 4,4'-dichlorobenzilate)-I-Geigy

Depend on Geigy products to solve problems efficiently

Insect and mite control

Diazinon® insecticide provides lasting, safe, economical control of most major insect pests that attack fruit, vegetables, field and forage crops. For rootworms in corn, soil insects attacking tobacco, peanuts and onions, Diazinon granulars give top control. Superior control and safety also make Diazinon the established insecticide for household insect pests.

Methoxychlor insecticide gives control of forage insects and fruit and vegetable pests. It can be applied directly to livestock to control ticks, lice and hornflies.

Chlorobenzilate® miticide gives quick, lasting control of more than 16 mite species in citrus, deciduous fruits and nuts, without harming bees, and beneficial insects.

Season-long weed control

Geigy herbicides knock out most annual broadleaf weeds and grasses with a single spray. Atrazine 80W works through both roots and leaves, so it can be applied to corn from planting until weeds are about 1½ inches high. Applied to sorghum after the crop is up, Atrazine controls weeds until they're 1½ inches high. Simazine 80W is applied before weeds emerge, in citrus and deciduous orchards and vineyards, as well as in corn. Both herbicides also provide outstanding weed control in non-crop and industrial areas; both require rainfall or cultivation to carry them into the weed root zone.

Correction of minor element deficiencies

Sequestrene® metal chelates, iron, zinc, copper and manganese, are especially effective for correction of micro nutrient deficiencies in ornamentals, fruits, vegetables and turf. Sequestrene 138 FE iron chelate has proven to be the most effective iron for use on high Ph alkaline soils.

Geigy Agricultural Chemicals, Division of Geigy Chemical Corporation, Saw Mill River Road, Ardsley, New York.

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3297 GEIGY CHLOROBENZILATE® 25E (Emulsifiable Solution) 25%, Ethyl 4,4'-dichlorobenzilate-I-Geigy
3298 GEIGY CHLOROBENZILATE® 25W (Wettable Powder) 25%, Ethyl 4,4'-dichlorobenzilate-I-Geigy
3299 GEIGY DDT, Technical grade-IC-Geigy
3299.50 GEIGY DIAZINON® AG500, 4 lb./gal. emulsifiable-I-Geigy
3300 GEIGY DIAZINON® 2D (2%)-I-Geigy
3301 GEIGY DIAZINON® 5G (5%)-I-Geigy
3302 GEIGY DIAZINON® 10G (10%)-I-Geigy
3302.50 GEIGY DIAZINON® 14G, 14.3% Granular-I-Geigy
3303 GEIGY DIAZINON® 4S, (4 Lb./gal. oil solution)-I-Geigy
3304 GEIGY DIAZINON® 4E, (Emulsifiable 4 lb./gal.)-I-Geigy
3305 GEIGY DIAZINON® AG 500 (Emulsifiable 4 lb./gal.)-I-Geigy
3306 GEIGY DIAZINON® 50W (50% WETTABLE POWDER)-I-Geigy
3307 GEIGY METHOXYCHLOR "50", Methoxychlor, wettable powder 50%-I-Geigy
3308 GEIGY METHOXYCHLOR "90", Methoxychlor 90%-IC-Geigy
3309 GEIGY METHOXYCHLOR 25E, Methoxychlor emulsifiable solution 25%-I-Geigy
3310 GEIGY PROMETONE® 25E (Emulsifiable Solution) 25%, 2-Methoxy 4, 6-bis (isopropylamino)-s-triazine-H-Geigy
3310.50 GEIGY PROPAZINE® 80W, (Wettable powder containing 80% 2-chloro-4,6-bis (isopropylamino) s-triazine-H-Geigy
3311 GEIGY SNIP FLY BANDS, Colored plastic fabric bands impregnated with Dimetilan® 4% (2-dimethylcarbamyl-3-methylpyrazolyl-5-dimethylcarbamate)-I-Geigy
3312 GEIGY SIMAZINE 4G (GRANULAR), 4% 2-Chloro-4,6-bis (ethylamino)-s-triazine Geigy
3313 GEIGY SIMAZINE 8G (GRANULAR), 4% 2-Chloro-4,6-bis (ethylamino)-s-triazine-H-Geigy
3314 GEIGY SIMAZINE 50W, (Wettable Powder) 50%, 2-Chloro-4-6-bis (ethylamino)-s-triazine-H-Geigy
3315 GEIGY SIMAZINE 80W, (Wettable powder) 80%, 2-Chloro-4-6-bis (ethylamino)-s-triazine-H-Geigy
3316 GEIGY SPECTRACIDE, Emulsifiable O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 12.5%-I-Geigy
3317 GEIGY SPECTRACIDE 25E, Emulsifiable O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothiate 25%-I-Geigy
3318 GENERAL CHEMICAL 20% ALDRIN GRANULAR-I-Gen. Chem.
3319 GENERAL CHEMICAL ALDRIN EM-4 EMULSIFIABLE CONC. ALDRIN 4 lbs./gal.-I-Gen. Chem.
3320 GENERAL CHEMICAL ALDRINOC-4 OIL CONCENTRATE, Aldrin 4 lbs./gal.-I-Gen. Chem.
3321 GENERAL CHEMICAL 10/50 ANTIRESISTANT DDT WETTABLE POWDER, 50% DDT, 10% Di-n-butyl-p-chlorobenzene sulfonate-I-Gen. Chem.
3322 GENERAL CHEMICAL ARSENIC-ACID-IC-Gen. Chem.
3323 GENERAL CHEMICAL ARSENIC-CRUDE-IC-Gen. Chem.
3324 GENERAL CHEMICAL G-12 BHC DUST BASE, Gamma BHC 12%-IC-Gen. Chem.
3325 GENERAL CHEMICAL CHINCH BUG SPRAY, Chlorobenzenesulfonamide 13.20%-I-Gen. Chem.
3326 GENERAL CHEMICAL 2,4-D AMINE WEED KILLER, Dimethylamine salts 2,4-D 49% (acid equiv. 4 lbs./gal.)-H-Gen. Chem.
3327 GENERAL CHEMICAL 2,4-D 2.66 BTYL ESTER, Butyl ester 2,4-D 40%-H-Gen. Chem.
3328 GENERAL CHEMICAL 2,4-D 4-BUTYL ESTER, Butyl ester 2,4-D 57.6%-H-Gen. Chem.
3329 GENERAL CHEMICAL 2,4-D BUTYL ESTER WEED KILLERS, Butyl ester 2,4-D 40% & 54.6%-H-Gen. Chem.
3330 GENERAL CHEMICAL 2,4-D ESTER EMULSIFIABLE CONC., Butyl esters 2,4-D 78% (acid equiv. 6 lbs./gal.)-H-Gen. Chem.
3331 GENERAL CHEMICAL 2,4-D ESTER WEED KILLER, Isopropyl ester 2,4-D 46% acid equiv. 3.34 lbs./gal.)-H-Gen. Chem.
3332 GENERAL CHEMICAL 50% DDT DUST BASE-IC-Gen. Chem.
3333 GENERAL CHEMICAL 75% DDT DUST BASE-IC-Gen. Chem.
3334 GENERAL CHEMICAL DDT, TECH.-IC-Gen. Chem.
3335 GENERAL CHEMICAL DIBROM® EM-8, Naled 84.5%-I-Gen. Chem.
3336 GENERAL CHEMICAL DIELDRIN TECH.-IC-Gen. Chem.
3337 GENERAL CHEMICAL EM-4 EMULSIFIABLE CONCENTRATE, Chlorobenzenesulfonamide 46.84%-I-Gen. Chem.
3338 GENERAL CHEMICAL 50% ENDRIN DUST BASE-IC-Gen. Chem.

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COMPOUND-4072 Formulations
New for corn rootworm . . . give outstanding control . . . easy to apply with conventional equipment.

PLYAC® Liquid Polyethylene Spreader-Sticker
Makes all sprays stick better and last longer—even in rainy weather. You do less re-spraying . . . stretch the time between sprays.

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Just one application controls stubborn weed growth for as long as 8-18 months. Effects are cumulative. Small "booster" doses keep action going season after season.

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Easily control imported Fire Ants, Harvester Ants and others . . . effective around homes, on farms, ranches and rangelands . . . reliably established as nonhazardous to fish, wildlife and humans when used as directed.

TDE Technical and Formulations
Effective against hard-to-kill species. Give long-lasting control over Red-Banded Leaf Roller, Orange Tortrix, Tomato Hornworm. Also Cabbage Looper, Corn Earworm, Bud Moth, Cotton Bollworm.

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Goes to work immediately on alkaline soil, sulfur-deficient soil. Releases phosphates, minor elements. You see results the same year!

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Corrects sulfur-poor and alkaline soils. Increases water penetration through compact soils. Compatible with most liquid fertilizers including neutral phosphates.

KEPONE® Insecticidal Formulations
In bait form (paste or pellets) for ants and roaches . . . as a wettable powder for certain insects attacking lawns and ornamentals. All offer effective long-term control.

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P.O. Box 353, Morristown, N. J.

958870160

3339 GENERAL CHEMICAL ENDRIN EM 1.6 EMULSIFIABLE, Endrin 1.6 lbs./gal.-I-Gen. Chem.
3340 GENERAL CHEMICAL ETHION 25% WETTABLE POWDER, O,O,O'O' Tetraethyl S,S' methylene bis phosphorodithioate 25%-I-Gen. Chem.
3341 GENERAL CHEMICAL E-Z OFF 'D' COTTON DEFOLIANT, S,S,S Tributyl phosphorotrithioate 70.5%-H-Gen. Chem.
3342 GENERAL CHEMICAL E-Z OFF LIQUID DEFOLIANT, Sodium chlorate 20.42%-H-Gen. Chem.
3343 GENERAL CHEMICAL FLY KILLER, O,O-Dimethyl-1-hydroxy-2,2-trichloroethyl phosphonate (Diptherex®) 1%-IB-Gen. Chem.
3348 GENERAL CHEMICAL 20% HEPTACHLOR GRANULAR-I-Gen. Chem.
3349 GENERAL CHEMICAL KEPONE® ANT AND ROACH BAIT PELLETED, Decachloro-octahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one 0.125%-I-Gen. Chem.
3351 GENERAL CHEMICAL KILMAG, Calcium arsenate 88.1%-I-Gen. Chem.
3352 GENERAL CHEMICAL 25% LINDANE DUST BASE, Gamma BHC 25%-IC-Gen. Chem.
3353 GENERAL CHEMICAL LINDANE, TECH., Gamma BHC 100%-IC-Gen. Chem.
3354 GENERAL CHEMICAL LOW VOLATILE 2-2 BRUSH KILLER, Isooctyl ester 2,4,5-T 32.1% (acid equiv. 2 lbs./gal.), propylene glycol isooctyl ester 2,4-D 33.7% (acid equiv. 2 lbs./gal.)-H-Gen. Chem.
3355 GENERAL CHEMICAL LOW VOLATILE 2,4-D ESTER WEED KILLER, Isooctyl ether ester 2,4-D (acid equiv. 4 lbs./gal.)-H-Gen. Chem.
3356 GENERAL CHEMICAL LOW VOLATILE 1 1/3-2/3 BRUSH KILLER, Propylene glycol butyl ether esters 2,4-D 23% (acid equiv. 1 1/3 lbs./gal.), propylene glycol butyl ether esters 2,4,5-T (acid equiv. 2/3 lbs./gal.)-H-Gen. Chem.
3357 GENERAL CHEMICAL LOW VOLATILE 2,4,5-T BRUSH KILLER, Isooctyl ether esters 2,4,5-T 64.9% (acid equiv. 4 lbs./gal.)-H-Gen. Chem.
3358 GENERAL CHEMICAL 25% MALATHION DUST BASE-IC-Gen. Chem.
3359 GENERAL CHEMICAL 90% MALATHION CONCENTRATE FOR MOSQUITO CONTROL-I-Gen. Chem.
3360 GENERAL CHEMICAL MALATHION EM-5 PREMIUM GRADE, (Emulsifiable concentrate), Malathion 57%-I-Gen. Chem.
3361 GENERAL CHEMICAL MCP AMINE WEED KILLER, Alkanolamine salts MCP 69.1% (acid equiv. 4 lbs./gal.)-H-Gen. Chem
3362 GENERAL CHEMICAL MH30, Maleic hydrazide 30%-PH-Gen. Chem.
3363 GENERAL CHEMICAL 25% PARATHION DUST BASE-IC-Gen. Chem.
3365 GENERAL CHEMICAL SODIUM ARSENITE SOLUTION, As_2O_3 4 lbs./gal. and 6 lbs./gal.-H-Gen. Chem.
3366 GENERAL CHEMICAL SODIUM SPECIAL HIGH STRENGTH ARSENITE SOLUTIONS WEED KILLER, As_2O_3 8 lbs./gal. and 10 lbs./gal.-H-Gen. Chem.
3367 GENERAL CHEMICAL 50% SODIUM TCA WEED KILLER LIQUID CONC. (Acid equiv. 5 lbs./gal.)-H-Gen. Chem.
3368 GENERAL CHEMICAL SPERGON® DUST Chloranil-F-Gen. Chem.
3369 GENERAL CHEMICAL TCA SODIUM SALT 94% (acid equiv. 82.8%)-H-Gen. Chem.
3370 GENERAL CHEMICAL 50% TDE DUST BASE-IC-Gen. Chem.
3371 GENERAL CHEMICAL TDE, TECH.-IC-Gen. Chem.
3372 GENERAL CHEMICAL TEDION® EM-4 EMULSIFIABLE CONCENTRATE, 2,4,5,4'-Tetrachlorodiphenyl sulfone-I-Gen. Chem.
3373 GENERAL CHEMICAL TEDION® 90 GREENHOUSE SPRAY, 2,4,5,4'-Tetrachlorodiphenyl sulfone-I-Gen. Chem.
3374 GENERAL CHEMICAL THIODAN® EM-2 EMULSIFIABLE CONCENTRATE, Hexachlorohexahydro-metheno-2,4,3-benzodioxathiepin oxide 24.09%-I-Gen. Chem.
3375 GENERAL CHEMICAL THIODAN® 50% WETTABLE POWDER, Hexachlorohexahydro-metheno-2,4,3-benzodioxathiepin oxide 50%-I-Gen. Chem.
3376 GENERAL CHEMICAL 40% TOXAPHENE DUST BASE-IC-Gen. Chem.
3377 GENERAL CHEMICAL TOXAPHENE EM-6 EMULSIFIABLE CONC., Toxaphene 60%-I-Gen. Chem.
3378 GENERAL CHEMICAL URAB PELLETED BRUSH AND WEED KILLER, 3-Phenyl-1,1-dimethylurea trichloroacetate 25%-H-Gen. Chem.
3379 GENERAL CHEMICAL URAB 22 GRANULAR WEED KILLER, 3-Phenyl-1, 1-dimethylurea trichloroacetate 22%-H-Gen. Chem.
3380 GENERAL CHEMICAL UROX 11 WEED KILLER, 3-(p-Chlorophenyl) 1,1-dimethylurea trichloroacetate 11%-H-Gen. Chem.
3381 GENERAL CHEMICAL UROX 22 WEED KILLER, 3-(p-Chlorophenyl) 1,1-dimethylurea trichloroacetate 22%-H-Gen. Chem.
3383 GENERAL MINERALS INSECTICIDE GRADE PYROPHYLLITE-D-General Minerals

3384 GENERAL REDUCTION CO. 9401, Insecticide carrier and diluent (0% to 5/8 inch)-D-General Reduction
3385 GENERAL REDUCTION CO. 9D66, Insecticide carrier and diluent (83% through 325 mesh, dried)-D-General Reduction
3386 GENERAL REDUCTION CO. 9G66, Insecticide carrier and diluent (dried granulars)-D-General Reduction
3387 GENERAL REDUCTION CO. 9H66, Insecticide carrier and diluent (calcined, granulars)-D-General Reduction
3388 GENERAL REDUCTION CO. 9J66, Insecticide carrier and diluent (dried granulars)-D-General Reduction
3389 GENERAL REDUCTION CO. 9S66, Insecticide carrier and diluent (95% through 325 mesh, dried)-D-General Reduction
3390 GENERAL REDUCTION CO. 9T66, Insecticide carrier and diluent (95% through 325 mesh, calcined)-D-General Reduction
3393 GIANT MOTHMAT REFILL AND/OR COMPLETE, Paradichlorobenzene 100%-IF-Uncle Sam
3394 GITS ALL DDT 5%, DDT, Oil-I-Clersite
3396 GITS ALL DDT-PYRETHRUM, DDT, oil, pyrethrum-I-Dart
3398 GIVAUDAN AEROSOL FRAGRANCES-A-Givaudan
3399 GIVAUDAN AROMATIC CHEMICALS-A-Givaudan
3400 GIVAUDAN-DELAWANNA PERFUME OILS (For insecticide manufacture)-A-Givaudan-Delawanna
3401 GIVAUDAN DEODORANTS-A-Givaudan
3402 GIVAUDAN ESSENTIAL OILS-A-Givaudan
3403 GIVAUDAN PERFUME OILS-A-Givaudan
3403.50 GLAND-O-LAC ALL PURPOSE FLY KILLER, DDVP 22%, oil 61.9%-I-Gland-O-Lac Co.
3404 GLAND-O-LAC CONIDE-20, N-alkyl dimethyl benzyl ammonium chlorides and N-di-alkyl methyl benzyl ammonium chlorides 20%-F-Gland-O-Lac Co.
3405 GLAND-O-LAC DAIRY AND STOCK FLY SPRAY, di-n-butyl succinate 0.5% piperonyl butoxide 0.25%, pyrethrins 0.025%-I-Gland-O-Lac Co.
3406 GLAND-O-LAC DIP AND DISINFECTANT, Neutral coal tar oils, coal tar phenols, soap 90%-F-Gland-O-Lac Co.
3407 GLAND-O-LAC DUSTIT, Carbaryl 5%-I-Gland-O-Lac Co.
3408 GLAND-O-LAC INCUBATOR FUMIGANT, Formic aldehyde (As gas) 16%, furfuraldehyde 51%-F-Gland-O-Lac Co.
3409 GLAD-O-LAC LIN-O-SPRAY, Lindane 12.9%-I-Gland-O-Lac Co.
3410 GLAND-O-LAC MALATHION 57, Malathion 57%, oil 35%-Gland-O-Lac Co.
3411 GLAND-O-LAC MANGE SPRAY, Heavy aromatic naphtha 84.55%, malathion 5.25%, methoxychlor 5.2%-I-Gland-O-Lac Co.
3412 GLAND-O-LAC QU-SOL, Alkyl C_8H_{17} to $C_{18}H_{37}$ Dimethyl ethylbenzl ammonium chloride 10%, isopropyl alcohol 30%-F-Gland-O-Lac Co.
3413 GLAND-O-LAC ROOST SPREAD, Nicotine 9%, pyridine 2.5%-I-Gland-O-Lac Co.
3414 GLAND-O-LAC SEPTANOL, Oil of Pine 80%, soap 10%-F-Gland-O-Lac Co.
3414.50 GLAND-O-LAC SEVIN® WETTABLE POWDER, Carbaryl 50%-I-Gland-O-Lac Co.
3415 GLAND-O-LAC SPRAY-IT, Aromatic naphtha 83.9%, malathion 5.25%, organic thiocyanates 5.85%-I-Gland-O-Lac Co.
3416 GLAND-O-LAC SUPERSOL 50, N-Alkyl dimethyl benzyl ammonium chlorides and N-di-alkyl methyl benzyl ammonium chlorides 50%-F-Gland-O-Lac Co.
3417 GLAND-O-LAC WAR ON FLIES, DDVP, 10.3%, oil 42.5%-I-Gland-O-Lac Co.
3418 GLAND-O-LAC WAR ON RATS, Warfarin 0.025%-R-Gland-O-Lac Co.
3419 GLIDDEN BMD AGRICULTURAL COPPER OXIDES-F-Glidden
3420 GLIDDEN CUPRIC OXIDE (Black)-F-Glidden
3421 GLIDDEN CUPROUS OXIDE (RED)-F-Glidden
3422 GLIDDEN CUPROUS SULPHIDE (100-Mesh)-F-Glidden
GLYODIN = 2-HEPTADECYL GLYOXALIDINE or 2-HEPTADECYL-2-IMIDAZOLINE-see CRAG GLYODIN
3423 GOOD A A INSECT SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Good
3424 GOOD-BYE MR. FLY TRAY O'FLY BAIT, DDVP 0.25%-IB-Esquire Chemical
3425 GOOD CHLORDANE FOR ROACHES AND INSECTS, Chlordane 2%, oil 98%-I-Good
3426 GOOD CONCENTRATED INSECT SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Good
3427 GOOD LINE NO. 1 FISH OIL SPRAY SOAP, Fish oil soap 36%-A-Good
3428 GOOD LINE NO. 3 POTASH FISH OIL SPRAY SOAP-A-Good
3429 GOOD LINE NO. 9 ROSIN FISH OIL SPRAY SOAP-A-Good
3430 GOPHER DEATH, Strychnine alk. 0.5%-R-Fort Dodge

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3431 GOPHER GASSER, Bomb type gasser for killing rodents in their holes, Potassium nitrate 45%, sulfur 45%-R-Destruxol
3432 GOPHER GETTER PILLS, Strychnine 0.6% -AN-R-Destruxol
3433 GRAIN GUARD, Malathion 0.5%-I-IR-Howard
3434 GRANULAR ALANAP® CHLORO IPC, 75% N-(naphtyl) phthalamic acid, 5% isopropyl N (3-chlorophenyl) carbamate H-U.S. Rubber (Naugatuck)
3435 GRANULEX® (Granular pesticide carrier)-Attapulgite-A-Magnet Cove
3436 GREAT LAKES ACRYLOFUME, Acrylonitrile 39.5%, carbon tetrachloride 30%, chloroform 30%, chloropicrin 0.5%-IF-Great Lakes Chem.
3437 GREAT LAKES BROM-O-GAS, 0.5% chloropicrin, 99.5% methyl bromide-IF-Great Lakes Chem.
3438 GREAT LAKES BROM-O-GAS, 1% Chloropicrin, 98% methyl bromide-IF-Great Lakes Chem.
3439 GREAT LAKES BROM-O-GAS "82", 80% Methyl bromide, 20% chloropicrin-IF-Great Lakes Chem.
3440 GREAT LAKES BROM-O-GAS SOIL FUMIGANT, 2% Chloropicrin, 98% methyl bromide-IF-Great Lakes Chem.
3441 GREAT LAKES BROM-O-SOL, Chloropicrin 1.4%, methyl bromide 68.6%-F-Great Lakes Chem.
3442 GREAT LAKES CHLOR-O-PIC, Chloropicrin 99%-IF-Great Lakes Chem.
3443 GREAT LAKES CHLOR-O-PIC 85, Chloropicrin 85%, methyl chloride 15%-IF-Great Lakes Chem.
3444 GREAT LAKES ETHYLENE DIBROMIDE-IF-Great Lakes Chem.
3445 GREAT LAKES METH-O-GAS, 100% Methyl bromide-IF-Great Lakes Chem.
3446 GREAT LAKES METHYL BROMIDE-IF-Great Lakes Chemical
3447 GREEN CROSS 20% ALDRIN EMULSIFIABLE CONCENTRATE-I-Green Cross
3448 GREEN CROSS 4 LBS ALDRIN EMULSIFIABLE, Aldrin 4 lbs./Imp. gal.-I-Green Cross
3448.50 GREEN CROSS AMMATE, Ammonium sulfamate technical-H-Green Cross
3449 GREEN CROSS ANIMAL LOUSE POWDER, Rotenone 0.5%-I-Green Cross
3450 GREEN CROSS APHAMITE, 15% parathion W.P.-I-Green Cross
3451 GREEN CROSS AQUATHOL-LIQUID, Disodium endothal 19.2%-H-Green Cross
3452 GREEN CROSS ARSENATE OF LEAD, Arsenic 19.5%-I-Green Cross
3452.30 GREEN CROSS BANVEL D®, Mediben 64 oz./gal.-H-Green Cross
3452.60 GREEN CROSS BARN SPRAY CONCENTRATE, Dimethoate 15%-I-Green Cross
3453 GREEN CROSS BAYTEX LIQUID, O,O-Dimethyl O-4-(methylthio)-m-tolyl) phosphorothioate 46%-I-Green Cross
3454 GREEN CROSS BASI-COP FUNGICIDE, 52% copper-F-Green Cross
3455 GREEN CROSS BUG KILLER, 2% Arsenic-I-Green Cross
3456 GREEN CROSS BUNT-NO-MORE, 40 Hexachlorobenzene-ST-Green Cross
3457 GREEN CROSS CALCIUM ARSENATE, Arsenic 26%-I-Green Cross
3458 GREEN CROSS 7.5% CAPTAN DUST-F-Green Cross
3459 GREEN CROSS CELATOX 50/30, 2,4,5-T 50%, MCP 30%-H-Green Cross
3460 GREEN CROSS COMMERCIAL BRUSHKILLER "96", 2,4-D & 2,4,5-T butyl esters 2,4-D acid equiv. 48 oz/Imp. gal. 2,4,5-T acid equiv. 48 oz/Imp. gal.-H-Green Cross
3461 GREEN CROSS COMMERCIAL WEEDKILLER "96", 2,4-D butyl ester-2,4-D acid equiv. 96 oz/Imp. gal.-H-Green Cross
3462 GREEN CROSS COMPLETE POTATO DUST, Heptachlor 2.5%, zineb 3.9%-FI-Green Cross
3463 GREEN CROSS CO-RAL® 25% W.P., O,O-Diethyl O-3-chloro-4-methyl-2-oxo-2H-1-benzopyran-7-phosphorothioate-25%-I-Green Cross
3464 GREEN CROSS CMPP, 2-(4-dichloro-2-methylphenoxy) propionic acid, 76.8 oz/Imp gal.-H-Green Cross
3465 GREEN CROSS CRAB GRASS KILLER, Potassium cyanate 91%-H-Green Cross
3466 GREEN CROSS CUTWORM DUST, Aldrin 2.5%-I-Green Cross
3466.50 GREEN CROSS CYGON® 4E, Dimethoate 4 lb./Imp. gal.-I-Green Cross
3467 GREEN CROSS DAYLITE (9% Copper dust)-F-Green Cross
3468 GREEN CROSS DAYLITE DUST FUNGICIDE, 7% Copper-F-Green Cross
3469 GREEN CROSS DDD 25% EMULSIFIABLE CONCENTRATE-I-Green Cross
3470 GREEN CROSS DDD 50% W.P. 50% TDE-I-Green Cross
3471 GREEN CROSS DDT 7.5% AEROPLANE DUST-I-Green Cross
3472 GREEN CROSS 14% DDT-BASI-COP SPRAY POWDER, 14% DDT, 35% copper-IF-Green Cross
3473 GREEN CROSS 3% DDT-7% COPPER DUST-FI-Green Cross
3474 GREEN CROSS 3% DDT-9% COPPER DUST-FI-Green Cross
3475 GREEN CROSS 5% DDT-7% COPPER DUST-FI-Green Cross
3476 GREEN CROSS 3% DDT DUST-I-Green Cross
3477 GREEN CROSS DDT 5% DUST-I-Green Cross

3478 GREEN CROSS 25% DDT EMULSIFIABLE CONC.-I-Green Cross
3478.50 GREEN CROSS 15% DDT GRANULAR-I-Green Cross
3479 GREEN CROSS 3% DDT-THIOGREEN DUST, 3% DDT, 3.9% zineb-FI-Green Cross
3480 GREEN CROSS 50% DDT W.P.-I-Green Cross
3481 GREEN CROSS DELNAV® E.C., Cis and trans form of 2,3-p-dioxaneditiol S,S-bis (O,-O-diethyl phosphorodithioate 4 lb./gal.-I-Green Cross
3481.50 GREEN CROSS DELNAV® 25% W.P., Dioxathion 25%-I-Green Cross
3482 GREEN CROSS DERITOX, Rotenone 0.8%-I-Green Cross
3485 GREEN CROSS DOG FLEA POWDER, O,O-Diethyl O-3-chloro-4-methyl-2-oxo-2H-1 benzopyran-7-yl phosphorothioate-0.5%-I-Green Cross
3486 GREEN CROSS DUAL PURPOSE BUNT-NO-MORE (Seed Dressing), Aldrin 40%, hexachlorobenzene 13%-ST-Green Cross
3487 GREEN CROSS 1% ENDRIN DUST-I-Green Cross
3488 GREEN CROSS ENDRIN 20% EMULSIFIABLE CONC.-I-Green Cross
3489 GREEN CROSS ERAD (Orchard Eradicant Fungicide), 10% phenyl mercuric acetate-F-Green Cross
3490 GREEN CROSS ESTER WEED KILLER "128", Butyl ester-2,4-D acid equiv. 128 oz./-Imp. gal.-H-Green Cross
3491 GREEN CROSS FERTOSAN (ORGANIC COMPOST MAKER), Vegetable culture medium 60%-N-Green Cross
3492 GREEN CROSS FLY BLASTER AEROSOL, DDT 2%, piperonyl butoxide 0.5%, pyrethrins 0.125%, lindane 0.2%-IA-Green Cross
3493 GREEN CROSS FRUIT TREE AND GARDEN SPRAY OR DUST, Captan 10%, DDT 10%, malathion 5%-FI-Green Cross
3493.50 GREEN CROSS GARDAL LIQUID ROSE SPRAY, 2,6-Dinitro-6-(2-octyl) phenyl crotonate 0.8%, DDT 1.7%, dodine 1%, phosphamidon 3.9%-FI-Green Cross
3494 GREEN CROSS GENERAL PURPOSE CATTLE DUST, Methoxychlor 10%-I-Green Cross
3494.50 GREEN CROSS GENERAL PURPOSE FLOWER & ORNAMENTAL SPRAY, DDT 1%, phosphamidon 3.9%-I-Green Cross
3495 GREEN CROSS 5% GRANULAR ALDRIN, Aldrin 5%-I-Green Cross
3495.50 GREEN CROSS GREENHOUSE DIBROM®, Naled 41%-I-Green Cross
3496 GREEN CROSS GUTHION® 2 lb./gal. O,O-Dimethyl s-4-oxo-1,2,3-benzotriazin-S-(4H)-yl-methyl phosphorodithioate 2 lb./gal.-I-Green Cross
3497 GREEN CROSS GUTHION® 25% W.P., O,O-Dimethyl S-(4-oxo-benzotrioazine-3-methyl) phosphorodithioate-25%-I-Green Cross
3498 GREEN CROSS 2.5% HEPTACHLOR DUST-I-Green Cross
3499 GREEN CROSS 4 LBS HEPTACHLOR EMULSIFIABLE, Heptachlor 35.75%-I-Green Cross
3500 GREEN CROSS 25% HEPTACHLOR EMULSIFIABLE CONC.-I-Green Cross
3501 GREEN CROSS 5% HEPTACHLOR GRANULAR-I-Green Cross
3502 GREEN CROSS 10% HEPTACHLOR GRANULAR-I-Green Cross
3503 GREEN CROSS 20% HEPTACHLOR GRANULAR-I-Green Cross
3504 GREEN CROSS 25% HEPTACHLOR W.P.-I-Green Cross
3505 GREEN CROSS 50% HEPTACHLOR W.P.-I-Green Cross
3506 GREEN CROSS HEPTACHLOR-THIRAM SEED DRESSING, Heptachlor 14%, thiram 47%-ST-Green Cross
3507 GREEN CROSS HOUSE AND GARDEN INSECT BLASTER AEROSOL, Methoxychlor 2%, piperonyl butoxide 1%, pyrethrins 0.2%-IA-Green Cross
3507.50 GREEN CROSS HYDROTHOL 47 GRANULAR, Di-(N,N dimethyl alkylamine salt) of endothall 66.7%-H-Green Cross
3508 GREEN CROSS INSECT KILLER AEROSOL, DDT 2%, piperonyl butoxide 0.8%, pyrethrins 0.1%-IA-Green Cross
3509 GREEN CROSS 7% KARBAM® BLACK DUST FUNGICIDE, 7% ferbam-F-Green Cross
3510 GREEN CROSS 76% KARBAM® BLACK FUNGICIDE, 76% ferbam-F-Green Cross
3511 GREEN CROSS 25% LINDANE W.P.-I-Green Cross
3512 GREEN CROSS 50% LINDANE W.P.-I-Green Cross
3512.20 GREEN CROSS LIQUID DUAL PURPOSE BUNT-NO-MORE, Heptachlor 23%, pentachloronitrobenzene 13.8%-FI-Green Cross
3512.50 GREEN CROSS LIQUID MERLANE, Heptachlor 23.36%, methyl mercury-8-hydroxyquinolinate 0.79%-FI-Green Cross
3512.70 GREEN CROSS LIQUID VEGETATION KILLER, Prometone 0.17 lb./Imp. gal., 2,4-D acid equiv. 0.062 lb./Imp. gal., 2,4,5-T acid equiv. 0.05 lb./Imp. gal.-H-Green Cross
3516 GREEN CROSS LIQUID WIREWORM KILLER, Heptachlor 25%-ST-Green Cross
3517 GREEN CROSS LIQUID WIREWORM KILLER CONCENTRATE, Aldrin 3.35 lb./Imp. gal., heptachlor 3.35 lb./Imp. gal.-I-Green Cross

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3518 GREEN CROSS LIQUI-SAN "10" L, Methyl mercury acetate 0.42%, methyl mercury 2,3-dihydroxy propyl mercaptide 1.97%-ST-Green Cross

3518.50 GREEN CROSS LIQUI-SAN CONCENTRATE, Methyl mercury acetate 0.62%, methyl mercury 2,3-dihydroxy propyl mercaptide 2.8%-ST-Green Cross

3519 GREEN CROSS LIVESTOCK AEROSOL, B-butoxy-B-thiocano diethylether 1%, methoxychlor 1.5%, piperonyl butoxide 1%, pyrethrins 1.1%-IA-Green Cross

3520 GREEN CROSS LOW VOLATILE BRUSH KILLER "64", Isooctyl ester of 2,4-D and 2,4,5-T, 2-4-D acid equiv. 32 oz./imp. gln. 2,4,5-T acid equiv. 32 oz./imp. gln.-H-Green Cross

3521 GREEN CROSS LOW VOLATILE WEED KILLER "64", isooctyl ester of 2,4-D, 2,4-D acid equiv. 64 oz./imp. gln.-H-Green Cross

3522 GREEN CROSS LOW VOLATILE WEED-NO-MORE "80", Isooctyl ester of 2,4-D, 2,4-D acid equiv. 80 oz/Imp. gal.-H-Green Cross

3524 GREEN CROSS 50% MALATHION EMULSIFIABLE CONCENTRATE-I-Green Cross

3525 GREEN CROSS 25% MALATHION WP,-I-Green Cross

3526 GREEN CROSS M.C.P. AMINE "64", M.C.P acid equiv. 64 oz./imp. gal.-H-Green Cross

3527 GREEN CROSS M.C.P., AMINE "80", MCP, acid equiv. 80 oz./imp. gal.-H-Green Cross

3528 GREEN CROSS M.C.P. ESTER "80", MCP acid equiv. 80 oz./imp. gal.-H-Green Cross

3529 GREEN CROSS M.C.P. SODIUM SALT, "48", MCP acid equiv. 48 oz./imp. gal.-H-Green Cross

3530 GREEN CROSS MERLANE DUST, Aldrin 40%, methyl mercury pentachloro phenolate 2.92%-ST-Green Cross

3531 GREEN CROSS METHOXYCHLOR 50% W.P. I-Green Cross

3532 GREEN CROSS MOTH BLASTER AEROSOL, Terpene polychlorinates 5%-IA-Green Cross

3533 GREEN CROSS MULSOID SULPHUR, 95% sulfur-FI-Green Cross

3534 GREEN CROSS MULTI PURPOSE FLOWER AND VEGETABLE DUST, Captan 5%, malathion 2%, methoxychlor 5%, sulfur 20%-FI-Green Cross

3535 GREEN CROSS MYLONE® GRANULAR FUMIGANT, 3,5-Dimethyltetrahydro 1,3,5, 2H thiadiazine-2-thione-50% (Soil fumigant)-IF-Green Cross

3536 GREEN CROSS NEW LIVESTOCK SPRAY Methoxychlor 0.5%, butoxy polypropylene glycol 5%, isobornyl thiocyano acetate 1.5%-I-Green Cross

3537 GREEN CROSS PHALTAN 50 W.P., Folpet 50%-I-Green Cross

3538 GREEN CROSS PHYGON®-XL FUNGICIDE, 50%, Dichlone-F-Green Cross

3539 GREEN CROSS POTATO TOP KILLER, Sodium arsenite 10.0 lbs./Imp. gal.-H-Green Cross

3540 GREEN CROSS PYROCIDE DUST, Pyrethrins 0.1%-I-Green Cross

3541 GREEN CROSS RESIDUAL BARN SPRAY, 0.5% O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate-I-Green Cross

3542 GREEN CROSS ROADSIDE 2,4-D LOW VOLATILE WEED KILLER, 95%-Isooctyl ester of 2,4-D, 2,4-D acid equiv. 96 oz./Imp. gal.-H-Green Cross

3543 GREEN CROSS ROSE & FLOWER GUARD AEROSOL, Folpet 0.7%, 1-naphthyl-N-methyl-N-methylcarbamate 1%, piperonyl butoxide 0.256%, rotenone 0.128%-FI-Green Cross

3544 GREEN CROSS ROSE DUST, Captan 5%, DDT 3%, malathion 2%, sulfur 20%-FI-Green Cross

3545 GREEN CROSS ROTENONE FOR WARBLE FLY CONTROL, 5% rotenone-I-Green Cross

3546 GREEN CROSS RUELENE, 4-tertiary butyl-2-chlorophenyl methyl methyl phosphoramidate 2.4 lb./Imp. gal.-I-Green Cross

3547 GREEN CROSS SAN DUST, Methyl mercury pentachlorophenolate 7.8%-ST-Green Cross

3548 GREEN CROSS SEVIN® 50% W.P., 1 Naphthyl-N-methyl carbamate-50%-I-Green Cross

3549 GREEN CROSS SEVIN® 85% W.P., 1-Naphthyl-N-methyl carbamate-85%-I-Green Cross

3550 GREEN CROSS SHRUB AND EVERGREEN DUST, Captan 5%, DDT 3%, Malathion 4%, sulfur 20%,-FI-Green Cross

3551 GREEN CROSS SLUG KILLER, Metaldehyde 15%-IB-Green Cross

3552 GREEN CROSS TANTOO CREAM REPELLENT, Ethyl hexanediol-IR-Green Cross

3553 GREEN CROSS TANTOO REPELLENT AEROSOL, N-diethyl-*m*-toluamide-12.6%-IR-Green Cross

3554 GREEN CROSS TANTOO REPELLENT LIQUID, N-diethyl-*m*-toluamide 42.75%-IR-Green Cross

3555 GREEN CROSS TCA HERBICIDE, Sodium TCA 90%-H-Green Cross

GULF®

QUALITY INSECTICIDES

Preferred by Home Owners, Food Processors and Dairymen

GULF HOUSE GARDEN INSECT KILLER (Bomb)

A new insecticide that kills numerous insect pests in the house and in the garden. Contains 0.25% Pyrethrins, 1.00% Piperonyl Butoxide, 2.00% DDT.

QUICK ACTION GULFSPRAY (Liquid)

A "space spray" for quick knockdown and kill of many kinds of flying and crawling insects. Contains 0.10% Pyrethrins, 0.12% Piperonyl Butoxide, and 0.75% Methoxychlor.

*GULFSPRAY AEROSOL (Bomb)

Gulf's carefully researched formula provides quick knockdown action and high kill. Contains 0.25% Pyrethrins, 1% Piperonyl Butoxide, and 2% Methoxychlor.

*GULF MOTH PROOFER (Bomb)

An easy-to-use pressurized spray for protecting woolens against moth and carpet beetle damage. Contains 3% DDT and 3% Perthane.

GULF LIQUID ROACH ANT KILLER

An effective, economical liquid spray with built-in sprayer that kills a wide range of household pests, including resistant cockroaches. Contains 0.08% Pyrethrins, 1.00% Chlordane and 0.33% Diazinon.

*GULF ANT ROACH BOMB

A convenient pressurized spray containing contact and residual insecticides for killing ants and cockroaches. Contains 0.08% Pyrethrins and 2% Chlordane.

SPECIAL GULFSPRAY (Liquid)

A superlative-quality insecticide specially formulated for use where foodstuffs are processed, stored, served and sold. Contains 0.25% Pyrethrins and 0.20% Piperonyl Butoxide.

GULF LIVESTOCK SPRAY

New formula with faster knockdown, and increased killing power of resistant flies. Contains 0.05% Pyrethrins, 0.25% Piperonyl Butoxide and 0.6% Organic Thiocyanates (Lethane 384).

*Gulf's New Valve—*permits bomb to be used in any position, even upside down. Makes it easy to spray hard-to-reach places.*

GULF OIL CORPORATION

Gulf Building, Houston, Texas

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3555.50 GREEN CROSS 50% THIODAN® W. P., Endosulfan 50%-I-Green Cross
3556 GREEN CROSS THIOGREEN DUST FUNGICIDE, 3.9% Zineb-F-Green Cross
3557 GREEN CROSS THIOGREEN LIQUID FUNGICIDE, 22% Nabam-F-Green Cross
3558 GREEN CROSS TOXAPHENE EMULSIFIABLE 7.2 lb./Imp. gal-I-Green Cross
3559 GREEN CROSS VEGETATION KILLER, Monuron 3.60%, 2,4-D acid 1.2%, 2,4,5-T acid 1.25%-H-Green Cross
3560 GREEN CROSS 0.5% WARFARIN CONCENTRATE RODENTICIDE-R-Green Cross
3561 GREEN CROSS WARFARIN RAT AND MOUSE KILLER RODENTICIDE-R-Green Cross
3563 GREEN CROSS WEED-NO-MORE, Butyl ester of 2,4-D acid equiv. 10%-H-Green Cross
3564 GREEN CROSS WEED-NO-MORE "80", 2,4-D equiv. 80 oz./Imp. gal.-H-Green Cross
3565 GREEN CROSS WEEDBEADS, *Sodium pentachlorophenate 73%-H-Green Cross*
3566 GREEN CROSS WEEDBLASTER BOMB, 2,4-D 0.7%, 2,4,5-T 0.5%-H-Green Cross
3566.50 GREEN CROSS WEED-N-FEED, Nitrogen 20%, P_2O_5 10%, K_2O 5%, 2-4-D acid 0.83%-H-Green Cross
3567 GREEN CROSS WIREWORM KILLER, Aldrin 50%-I-Green Cross
3568 444 GREEN LABEL INSECTICIDE, Oil 98.6%, piperonyl butoxide 1.27%, pyrethrins 0.13%-I-Chem. Spec. Corp.
3569 GROSLEY'S ORIGINAL "NO ROOST," Bird repellent-ANR-Aegis
3570 GROSLEY'S "NO ROOST" BIRD REPELLENT ANR-Aegis
3571 GROSLEY'S "NO ROOST" STARLING TREE SPRAY, Bird repellent-ANR-Aegis
3572 GRUB FIX, Rotenone 3.7%-I-Thomp. Chem.
3573 GSCI CALOMEL-F-Gallard-Schlesinger
3574 GSCI MERCURIC CHLORIDE-F-Gallard-Schlesinger
3575 GSCI NICOTINE ALKALOID 97%-I-Gallard-Schlesinger
3576 GSCI NICOTINE SULFATE 40%-I-Gallard-Schlesinger
3577 GSCI RED SQUILL LD50-500 MG/KG-R-Gallard-Schlesinger
3578 GSCI STRYCHNINE ALKALOID N.F.-R-Gallard-Schlesinger
3579 GSCI STRYCHNINE SULFATE N.F.-R-Gallard-Schlesinger
3580 GSCI THALLIUM SULFATE 99.5%-R-Gallard-Schlesinger
3581 GSCI ZINC PHOSPHIDE 88%-R-Gallard-Schlesinger
3582 GTA ANT BANE, Thallium sulfate 0.05%-IB-Athelstan
3583 GTA BAIT FOR BIRD PESTS, Thallium sulfate 1.10%-R-Athelstan
3584 GTA BAIT FOR RATS, MICE, ROACHES & WATERBUGS, Thallium sulfate 2.89%-R-Athelstan
3585 GTA FLY-BAIT SPRAY, Malathion 1.45%-IB-Athelstan
3586 GTA FLY SPRAY, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 2%-I-Athelstan
3587 GTA RESIDUAL SPRAY CONC. CE., Chlordane 11.4%-I-Athelstan
3588 GTA RESIDUAL SPRAY CONC. WM25, DDT 25%-I-Athelstan
3589 GTA TRACKING POWDER, 75% DDT-R-Athelstan
3590 GULF ANT-ROACH BOMB, Chlordane 2%, oil 62.9%, oil 62.92%, pyrethrins 0.08%-IA-Gulf
3591 GULF HOUSE GARDEN INSECT KILLER, DDT 2%, piperonyl butoxide 1%, pyrethrins 0.25%-IA-Gulf
3592 GULF LIQUID ROACH-ANT KILLER, Chlordane 1%, oil 98.59%, pyrethrins 0.08%, O,O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.33%-IA-Gulf
3593 GULF LIVESTOCK SPRAY, Oil 99.10%, organic thiocyanates 0.60%, piperonyl butoxide 0.25%, pyrethrins 0.05%-I-Gulf
3594 GULF MOTH PROOFER BOMB, DDT 3%, oil 59%, 1,1-dichloro-2,2-bis (ethylphenyl) ethane 3%-IA-Gulf
3595 GULFSPRAY AEROSOL BOMB, Methoxychlor 2%, oil 11.75%, piperonyl butoxide 1%, pyrethrins 0.25%-IA-Gulf
3595.50 GUNJET SPRAY GUNS, Pesticide application-E Spraying Systems
3596 GUSTAFSON CHOKE-PROOF DUSTERS-E-Gustafson
3597 GUTHION® SPRAY CONCENTRATE, O,O-Dimethyl S-4-oxo-1,2,3,-benzotriazin-3 (4H) -ylmethyl phosphorodithioate-I-Chemagro
3598 GUTHION® WETTABLE POWDER, O,O-Dimethyl S-4-oxo-1,2,3-benzotriazin-3 (4H)-ylmethyl phosphorodithioate-I-Chemagro
3599 HAHN ALUMINIZED BOOMS-E-Hahn
3600 HAHN ALUMINIZED STEEL NURSE TANK-E-Hahn
3600.50 HAHN BUILT-IN JET AGITATORS-E-Hahn
3601 HAHN HI-BOY, Self-propelled sprayer & duster-E-Hahn
3602 HAHN PLANTER PRE-EMERGENCE KIT-E-Hahn
3603 HAHN PUMP-E-Hahn
3603.50 HAHN SIDE MOUNT BARREL RACKS & ALUMINIZED STEEL TANKS-E-Hahn

3604 HAHN STAINLESS STEEL BOOM-E-Hahn
3605 HAHN TANK TRAILER SPRAYER-E-Hahn
3606 HAHN TRACTOR SPRAYERS-E-Hahn
3607 HALTS®, Chlordane 11.8%, 4.72% related compounds-H-Scott
3608 H.A.N., Heavy aromatic solvent-D-Neville
3609 HANSON AP PUMP, PTO SPRAYER PUMP-E-Hanson
3610 HANSAN BRODJET, Boomless sprayer-E-Hanson
3610.50 HANSON CP PUMP, PTO SPRAYER PUMP-E-Hanson
3611 HANSON 60CP-5 ECONOMY BOOM-E-Hanson
3612 HANSON FIBERGLASS SPRAYER TANKS-E-Hanson
3613 HANSON PRAIRIE SPECIAL, Economy boomless sprayer-E-Hanson
3614 HANSON PUMP-KIT-E-Hanson
3615 HANSON SWATH-O-MATIC, Automatic boomless sprayer-E-Hanson
3616 HANSON TRAILER SPRAYERS-E-Hanson
3617 HANSON TRAK-PAK, Tractor-mounted sprayer-E-Hanson
3618 HANSON V-G SPRAY, Engine powered trailer boom sprayer-E-Hanson
3619 HARDIE "AERO-MIST"-Mist type sprayer for mosquito and insect control-E-Hardie Mfg.
3620 HARDIE GUNS-SPRAY-E-Hardie Mfg.
3621 HARDIE HIGH PRESSURE HOSE-E-Hardie Mfg.
3622 HARDIE PUMPS-High Pressure (10 models)-E-Hardie Mfg.
3623 HARDIE SPRAYERS-High and low pressure-E-Hardie Mfg.
3624 HARDIE SPRAYERS-Shade tree hydraulic high pressure-E-Hardie Mfg.
3625 HARDIE SPRAYERS-Shade tree mist type-E-Hardie Mfg.
3626 HARRIS FAMOUS ROACH TABLETS, Boric acid 40%-IB-P. F. Harris
3627 HAYES 1½, 3, 4, 6 and 12 HOSE SPRAYERS, (Different capacities)-E-Hayes
3628 *HAYES JET POWER SPRAYER, Models 500, 500-5 and 1000-E-Hayes*
3629 HAYES LAWN SPRAYER (Hose type)-E-Hayes
3630 HAYES SOIL & TURF SPRAYER, (Non-Clogging hose type)-E-Hayes
3631 HAZE®, DDT 5%, ferbam 7.5%, micronized sulfur 28%, pyrethrins 0.10%-FI-Scott
HCA = HEXACHLOROACETONE
3632 HEP ANT & ROACH SPRAY, Piperonyl butoxide 0.05%, pyrethrins 0.025%, ronnel 1%-IA-B. T. Babbitt, Inc.
3633 HEP 5% INSECT KILLER, Allethrin 0.1%, DDT 3.0%, methoxychlor 1% organic thiocyanates-IA-B. T. Babbitt, Inc.
3634 HEP MOTH PROOFER, Terpene polychlorinates 5%-MP-B. T. Babbitt, Inc.
3635 HEP NON-TOXIC INSECT KILLER, Piperonyl butoxide 1%, pyrethrins 0.2%-IA-B. T. Babbitt, Inc.
3636 HEPTACHLOR, TECH., 1,4,5,6,7,8,8-Heptachloro-3a,4,6,6a-tretrahydro-4,7-methanoindene-IC-Velsicol
3637 HEPTAGRAN 2½, Heptachlor 2.5% (granular)-I-Chipman
3638 HEPTAGRAN 10, Heptachlor 10% (granular)-I-Chipman
3639 HEPTAGRAN 25, Heptachlor 25% (granular)-Chipman
3639.50 HERBAN, Norea (3-[5-(3a,4,5,6,7,7a-hexahydro-4,7-methanoindanyl)]-1-dimethylurea)-H-Hercules
3640 HERBISAN, Bisethyl xanthogen 58%-H-Roberts
3641 HESS BOMB, Oil 11.97%, piperonyl butoxide 0.80%, pyrethrins 0.20%, terpene polychlorinates 2%-IA-Hess and Clark
3642 HESSPRAY, Oil 99.11%, pine oil 0.56%, piperonyl butoxide 0.3%, pyrethrins 0.03%-I-Hess and Clark
HETP = HEXAETHYL TETRAPHOSPHATE (See TEPP)
3643 HEX-SOL, Gamma BHC 10%, DDT 15.5%-I-Woolfolk
3644 HEXACHLOR ROACH KILLER, Chlordane 2%, oil 96%, organic thiocyanates 2%-I-Eckley Exterminators
3645 HEXACHLOROBENZENE, Technical grade-F-Agrochem
HEXACHLOROCYCLOHEXANE = BHC
3646 HI-CROP SELF-PROPELLED HIGH CLEARANCE SPRAYER-E-John Bean
3647 HILO DIP, Rotenoids, rotenone 1%-I-Hilo Co.
3648 HILO DOG SPRAY AEROSOL, Piperonyl butoxide 0.256%, pyrethrins 0.025%, rotenoids 0.25%, rotenone 0.128%-IA-Hilo Co.
3649 HILO DRY BATH AEROSOL, Piperonyl butoxide 0.88%, pyrethrins 0.88%-IA-Hilo Co.
3650 HILO FLEA & FUNGUS POWDER, DDT 0.5%, hexachlorophene 0.5%, rotenoids 2.4%, rotenone 1.2%-FI-Hilo Co.
3651 HILO DE-WORM TABLETS, 100 MG Piperazine per tablet-I-Hilo Co.
3652 HILO TICK POWDER, BHC 0.5%, Chlordane 1%-I-Hilo Co.
3653 HILO TICK & FLEA SPRAY, Chlordane 2%-I-Hilo Co.
3654 HILO KILTIX, BHC 1%, chlordane 8%-I-Hilo Co.

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3655 HILO TICK OINTMENT, Chlordane 2%-I-Hilo Co.
3656 HILO MEDICATED OINTMENT, DDT 1%, hexachlorophene 1%-F-Hilo Co.
3657 HOBS-RELIABLE CAMPHOR TABLETS, U.S.P. Gum camphor-IR-Hobs-Reliable
3658 HOBS-RELIABLE NAP-LENE MOTH MIKE, Naphthalene-IF-Hobs-Reliable
3659 HOBS-RELIABLE NAPHTHALENE BLOCKS, TABLETS, AND VAPORIZERS-IF-Hobs-Reliable
3660 HOBS-RELIABLE NAPHTHALENE, Moth balls and flakes-IF-Hobs-Reliable
3661 HOBS-RELIABLE PARADICHLOROBENZENE Moth blocks, tablets, vaporizers and crystals-IF-Hobs-Reliable
3662 HOBS-RELIABLE SULPHUR FUMIGATOR CANDLES, Sulfur 100%-IF-Hobs-Reliable
3663 HOBSON'S RAT & ROACH PASTE, Phosphorus-R-Standard Labs.
3664 HOME AND GARDEN INSECT BOMB, Methoxychlor 1%, piperonyl butoxide 0.5%, pyrethrins 0.1%-IA-Destruxol
3664.30 HOOKER BENZENE HEXACHLORIDE, 40% Gamma Isomer-I-Hooker
3664.60 HOOKER LINDANE-IC-Hooker
3665 HOOKER SODIUM CHLORATE-H-Hooker
3666 HOOKER ZINC PHOSPHIDE-R-Hooker
3667 HOPKINS 2.5% ALDRIN DUST-I-Hopkins
3668 HOPKINS 2# ALDRIN EMULSIFIABLE CONCENTRATE-I-Hopkins
3669 HOPKINS 4 LB. ALDRIN EMULSIFIABLE CONC.-I-Hopkins
3670 HOPKINS 5% ALDRIN DUST-I-Hopkins
3671 HOPKINS 10% ALDRIN GRANULES-I-Hopkins
3672 HOPKINS 20% ALDRIN GRANULES-I-Hopkins
3673 HOPKINS 3-1/3# ALDRIN OIL SOLUTION-I-Hopkins
3674 HOPKINS ANTIRESISTANT DDT 5-25 EMULSIFIABLE CONCENTRATE, DDT N-di-*n*-butyl-*p*-Chlorobenzene sulfonate-I-Hopkins
3675 HOPKINS AQUA-DETH WATER SOLUBLE WARFARIN-R-Hopkins
3676 HOPKINS ARSENATE OF LEAD-I-Hopkins
3677 HOPKINS BHC EMULSIFIABLE CONCENTRATE, 11% BHC-I-Hopkins
3678 HOPKINS 7½% CAPTAN DUST-F-Hopkins
3679 HOPKINS 5% CHLORDANE DUST-I-Hopkins
3680 HOPKINS 10% CHLORDANE DUST-I-Hopkins
3681 HOPKINS 4 LB. CHLORDANE EMUL.-I-Hopkins
3682 HOPKINS 8# CHLORDANE EMULSION-I-Hopkins
3683 HOPKINS 40% CHLORDANE W.P.-I-Hopkins
3684 HOPKINS 7% COPPER DUST-F-Hopkins
3685 HOPKINS DAIRY & LIVESTOCK SPRAY, 0.5% Piperonyl butoxide, .05% pyrethrins-I-Hopkins
3686 HOPKINS DAIRY & LIVESTOCK SPRAY, Dibutyl succinate, 1.0% piperonyl butoxide, 0.1% pyrethrins-I-Hopkins
3687 HOPKINS 5% DDT DUST-I-Hopkins
3688 HOPKINS 10% DDT DUST-I-Hopkins
3689 HOPKINS 25% DDT EMULSIFIABLE CONCENTRATE WITH XYLENE-I-Hopkins
3690 HOPKINS 5% DDT GRANULES-I-Hopkins
3691 HOPKINS 5% DDT-4.8% MANEB DUST-FI-Hopkins
3692 HOPKINS 30% DDT OIL SOLUTION-I-Hopkins
3693 HOPKINS 50% DDT W.P.-I-Hopkins
3694 HOPKINS 3% DDT-4.5% ZINEB DUST-FI-Hopkins
3695 HOPKINS 2% DIAZINON DUST-I-Hopkins
3696 HOPKINS 1.5# DIELDRIN EMULSIFIABLE CONCENTRATE-I-Hopkins
3697 HOPKINS 5% DIELDRIN GRANULES-I-Hopkins
3698 HOPKINS 10% DIELDRIN GRANULES-I-Hopkins
3699 HOPKINS 75% DIELDRIN SEED TREATER-ST Hopkins
3700 HOPKINS 50% DIELDRIN W.P.-I-Hopkins
3701 HOPKINS DIPHACIN ANTICOAGULANT PELLETS-R-Hopkins
3702 HOPKINS ENDRIN EMULSIFIABLE CONCENTRATE, (1.6 lb. endrin/gal.) -I-Hopkins
3703 HOPKINS 1% EPN® INSECTICIDE GRANULES O-Ethyl O-*p*-nitrophenyl phenylphosphonothioate 1%-I-Hopkins
3704 HOPKINS EPN® 4 LB. EMULSION CONCENTRATE, O-Ethyl O-*p*-nitrophenyl phenylphosphonothioate 4 lb./gal.-I-Hopkins
3705 HOPKINS 2% EPN® GRANULES-I-Hopkins
3706 HOPKINS 5% ETHION GRANULES-I-Hopkins
3707 HOPKINS 10% ETHION GRANULES-I-Hopkins
3708 HOPKINS 10% FERMATE DUST-F-Hopkins
3709 HOPKINS FIRE ANT DUST, (10% Chlordane) -I-Hopkins

3710 HOPKINS GRAIN FUMIGANT NO. 4, 25% Carbon tetrachloride, 75% ethylene dichloride-IF-Hopkins
3711 HOPKINS GRAIN PROTECTANT, (57% Premium grade malathion) -I-Hopkins
3712 HOPKINS 2# HEPTACHLOR EMULSIFIABLE CONCENTRATE-I-Hopkins
3713 HOPKINS 20% HEPTACHLOR GRANULES-I-Hopkins
3714 HOPKINS 2% KELTHANE® DUST, 4,4'-Dichloro-alpha-trichloromethyl-benzhydrol 2%-I-Hopkins
3715 HOPKINS 25% LINDANE W.P.-I-Hopkins
3716 HOPKINS 3% MALATHION DUST-I-Hopkins
3717 HOPKINS 4% MALATHION DUST (DEODORIZED) -I-Hopkins
3718 HOPKINS 4# MALATHION SPRAY CONCENTRATE-I-Hopkins
3719 HOPKINS 5% MALATHION DUST-I-Hopkins
3720 HOPKINS 4.8% MANEB DUST-F-Hopkins
3721 HOPKINS 6% MANEB DUST-F-Hopkins
3722 HOPKINS 10% MANEB DUST-F-Hopkins
3723 HOPKINS 3% METHOXYCHLOR DUST-I-Hopkins
3724 HOPKINS METHOXYCHLOR 2 LB. EMULSIFIABLE CONC.-I-Hopkins
3725 HOPKINS MYLONE® 25D, 3,5-dimethyl-1,3,5,2H-tetrahydrothiadiazine-2-thione-F-Hopkins
3726 HOPKINS MYLONE® 50D, 3,5-Dimethyl-1,3,5,2H-tetrahydrothiadiazine-2-thione-F-Hopkins
3727 HOPKINS MYLONE® 85W, 3,5-Dimethyl-1,3,5,2H-tetrahydrothiadiazine-2-thione-F-Hopkins
3728 HOPKINS PARATHION DUST (2%) -I-Hopkins
3729 HOPKINS 25% PARATHION EMULSION-I-Hopkins
3730 HOPKINS 4 LB. PARATHION EMULSION-I-Hopkins
3731 HOPKINS 2½% PARATHION GRANULES-I-Hopkins
3732 HOPKINS 5% PARATHION GRANULES-I-Hopkins
3733 HOPKINS 25% PARATHION W.P.-I-Hopkins
3734 HOPKINS 1% PARATHION-4.5% ZINEB DUST-FI-Hopkins
3735 HOPKINS 2% PARATHION-4.5% ZINEB DUST-FI-Hopkins
3736 HOPKINS PATIO & GARDEN SPRAY, (57% Malathion) -I-Hopkins
3737 HOPKINS PERTHANE® EMULSIFIABLE CONCENTRATE, 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ethane 4 lbs./gal.-I-Hopkins
3738 HOPKINS PERTHANE®-MALATHION SPRAY CONCENTRATE, 2 lbs. 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ethane, 2 lbs. malathion/gal.-I-Hopkins
3739 HOPKINS 1% PHOSDRIN® DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 1%-I-Hopkins
3740 HOPKINS PHOSDRIN® 2 LB. EMULSIFIABLE CONC.-I-Hopkins
3741 HOPKINS 1# PHOSDRIN® - 2# PERTHANE® EMULSIFIABLE CONCENTRATE, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate, 1,1-dichloro-2,2-bis (*p*-ethylphenyl) ethane-I-Hopkins
3742 HOPKINS .5% PIVAL ANTICOAGULANT CONCENTRATE, Pindon 0.5%-R-Hopkins
3743 HOPKINS .025% PIVAL ANTICOAGULANT PELLETS, Pindone 0.025%-R-Hopkins
3744 HOPKINS POTATO DUST 37, 7% Copper, 3% DDT-FI-Hopkins
3745 HOPKINS POTATO DUST 57, 7% Copper, 5% DDT-FI-Hopkins
3746 HOPKINS POTATO DUST 870, 2% DDT, 4.8% maneb, 2.5% toxaphene-FI-Hopkins
3747 HOPKINS RATTUNNL, 0.25% Warfarin pellet bait in dispenser-R-Hopkins
3748 HOPKINS .75% ROTENONE-5% COPPER DUST-FI-Hopkins
3749 HOPKINS .75% ROTENONE DUST-I-Hopkins
3750 HOPKINS 1% ROTENONE DUST-I-Hopkins
3751 HOPKINS 1.5% ROTENONE DUST-I-Hopkins
3752 HOPKINS 50% RYANIA W.P.-I-Hopkins
3753 HOPKINS 5% SEVIN® DUST, Carbaryl 5%-I-Hopkins
3754 HOPKINS SNAIL & SLUG PELLETS, 5% Calcium arsenate, 3.2% metaldehyde-IB-Hopkins
3755 HOPKINS SODIUM ARSENITE (8 lb./gal.) -H-Hopkins
3756 HOPKINS STRAWBERRY DUST, 7.5% Captan, 4.0% malathion, 4.0% methoxychlor-FI-Hopkins
3757 HOPKINS 6% TOXAPHENE DUST-I-Hopkins
3758 HOPKINS 20% TOXAPHENE GRANULES-I-Hopkins
3759 HOPKINS VAPONA® INSECTICIDE DRY BAIT, 0.5% DDVP-IB-Hopkins
3760 HOPKINS VAPONA® INSECTICIDE EMULSIFIABLE CONCENTRATE, 2#/gal. DDVP-I-Hopkins
3761 HOPKINS 18.5% VAPONA® INSECTICIDE FACE FLY CONCENTRATE, DDVP 18.5%-I-Hopkins

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3762 HOPKINS VAPONA® INSECTICIDE FLY SPRAY, 1.0% DDVP-I-Hopkins
3763 HOPKINS VAPONA® SOLUTION 30, 30% DDVP-I-Hopkins
3764 HOPKINS .025% WARFARIN ANTICOAGULANT PELLETS-R-Hopkins
3765 HOPKINS WARFARIN 0.5% CONC.-R-Hopkins
3766 HOPKINS .025% WARFARIN REDI-MIX RAT AND MOUSE KILLER-R-Hopkins
3767 HOPKINS ZINC PHOSPHIDE MOUSE BAIT, 2% Zinc phosphide-R-Hopkins
3768 HOPKINS 4.5% ZINEB DUST-F-Hopkins
3769 HOPKINS 4.5% ZINEB & 3% DDT DUST-FI-Hopkins
3769.50 HOUSEHOLD BUG BOMB, Piperonyl butoxide 1.0%, pyrethrins 0.2%-IA-*Thomp. Chem.*
3770 HOWARD BUILDING INSECT OIL, 5% Pentachlorophenol, oil-WP-Howard
3771 HOWARD BUILDING INSECT OIL CONCENTRATE 46.2% PENTACHLOROPHENOL-WP-Howard
3772 HOWARD INSECT AEROSOL BOMB, Organic thiocyanaes 2%, methoxychlor 1.5%, piperonyl butoxide 1%, pyrethrins 0.1%-IA-Howard
3773 HOWARD LIVESTOCK SPRAY CONC., Piperonyl butoxide, pyrethrins-I-Howard
3774 HOWARD RAT KILL CONC., Warfarin 0.5%-R-Howard
3775 HOWARD READY-TO-USE LIVESTOCK SPRAY, Allethrin 0.02%, methoxychlor 0.21%, MGK 264 0.42%, organic thiocyanates 1.1%-I-Howard
3776 HOWARD READY-TO-USE RAT KILL, Sulfaquinoxaline, Warfarin (prolin) 0.025%-R-Howard
3777 HOWARD WARFICIDE RAT KILL, Sulfaquinoxaline, Warfarin (prolin) 0.5%-R-Howard
3778 HUB STATES CHLORDANE DUST 5%-I-Hub States
3779 HUB STATES CHLORDANE DUST 10%-I-Hub States
3780 HUB STATES CHLORDANE SOLN. 20%-I-Hub States
3781 HUB STATES CHLORDANE WETTABLE POWDER, 50%-I-Hub States
3782 HUB STATES EMULSIFIABLE CONC. ALDRIN, 4 lb./gal.-I-Hub States
3783 HUB STATES DDT OIL SOLN. CONC. 25%-I-Hub States
3784 HUB STATES DIELDRIN EMULSIFIABLE CONC.-I-Hub States
3785 HUB STATES EMULSIFIABLE BENZENE HEXACHLORIDE, 2 lb./gal.-I-Hub. States
3786 HUB STATES EMULSIFIABLE CHLORDANE CONC. 46%-I-Hub States
3787 HUB STATES EMULSIFIABLE CHLORDANE CONC. 72%-I-Hub States
3788 HUB STATES EMULSIFIABLE LINDANE CONC. 20%-I-Hub States
3789 HUB STATES EMULSIFIABLE PYRETHRIN CONC., Piperonyl butoxide 11.89%, pyrethrins 1.19%-IC-Hub States
3790 HUB STATES FUMARIN®, 0.5% Coumafuryl-R-Hub States
3791 HUB STATES 3 GALLON ELECTRIC SPRAYER-E-Hub States
3792 HUB STATES LINDANE SOLN. 20%-I-Hub States
3793 HUB STATES METHOXYCHLOR 25%-I-Hub States
3794 HUB STATES METHYL BROMIDE-IF-Hub States
3795 HUB STATES MODEL 700-S PUMP SPRAYER-E-Hub States
3796 HUB STATES PENTACHLOROPHENOL 40%-I-WP-Hub States
3797 HUB STATES PIVAL®, Pindone-R-Hub States
3798 HUB STATES RED SQUILL-R-Hub States
3799 HUB STATES SODIUM FLUORIDE 100%-I-Hub States
3800 HUB STATES WARFARIN, 0.5% Conc.-R-Hub States
3801 HUB STATES WARFARIN, 0.025%-R-Hub States
3802 HUBBARD HALL 5% CAPTAN DUST-F-Hubbard Hall
3803 HUBBARD HALL 5% CAPTAN 5% DDT DUST FI-Hubbard Hall
3804 HUBBARD HALL 5% CAPTAN-3% GUTHION® DUST, Captan 5%, O,O-dimethyl S-4-oxo-1,2,3-benzotriazin-3 (4H) yl-methyl phosphorodithioate 3%-FI-Hubbard Hall
3807 HUBBARD HALL 5% CHLORDANE DUST-I-Hubbard-Hall
3808 HUBBARD HALL CHLORDANE 72% EMULSION-I-Hubbard Hall
3809 HUBBARD HALL 7% COPPER DUST-F-Hubbard Hall
3810 HUBBARD HALL 7% COPPER 1% ROTENONE DUST-FI-Hubbard Hall
3811 HUBBARD HALL 5% DDT DUST-I-Hubbard Hall
3812 HUBBARD HALL DDT 2-E-I-Hubbard Hall
3813 HUBBARD HALL 10% DDT 2% PARATHION DUST-I-Hubbard Hall
3814 HUBBARD HALL 3% DIAZINON® DUST, O'ODiethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 3%-I-Hubbard Hall
3815 HUBBARD HALL 1.5% DIELDRIN DUST-I-Hubbard Hall
3816 HUBBARD HALL DIELDRIN 1.5% EMULSION-I-Hubbard Hall
3817 HUBBARD HALL 1% ENDRIN DUST-I-Hubbard Hall
3818 HUBBARD HALL ENDRIN 1.6% EMULSION-I-Hubbard Hall
3819 HUBBARD HALL 7.6% FERBAM DUST-F-Hubbard Hall
3820 HUBBARD HALL 1.5% LINDANE DUST-I-Hubbard Hall

3821 HUBBARD HALL 4% MALATHION DUST-I-Hubbard Hall
3822 HUBBARD HALL 50% MALATHION EMULSION-I-Hubbard Hall
3823 HUBBARD HALL 5.6% MANEB-3% METHOXYCHLOR DUST-FI-Hubbard Hall
3823.25 HUBBARD HALL 5% CAPTAN & 1.5% PARATHION DUST-FI-Hubbard Hall
3823.50 HUBBARD HALL 7% COPPER & 5% DDT DUST-FI-Hubbard Hall
3823.75 HUBBARD HALL 5.6% MANEB DUST-F-Hubbard Hall
3824 HUBBARD HALL 5% METHOXYCHLOR DUST-I-Hubbard Hall
3825 HUBBARD HALL 1.5% PARATHION DUST-I-Hubbard Hall
3826 HUBBARD HALL 2% PHYGON® DUST, 2% Dichlone-F-Hubbard Hall
3827 HUBBARD HALL 3% PHYGON® DUST, 3% Dichlone-F-Hubbard Hall
3828 HUBBARD HALL PHYGON® 50% WETTABLE, 50% Dichlone-F-Hubbard Hall
3829 HUBBARD HALL SEVIN® 3% DUST, 1-Naphthyl-N-methylcarbamate 3%-I-Hubbard Hall
3830 HUBBARD HALL SEVIN® 5% DUST, 1-Naphthyl-N-methylcarbamate 5%-I-Hubbard Hall
3831 HUBBARD HALL 3% THIODAN® DUST, Endosulfan 3%-I-Hubbard Hall
3832 HUBBARD HALL THIODAN® 2E, Endosulfan 2 lb./gal.-Hubbard Hall
3833 HUBBARD HALL THIODAN® 50W, Endosulfan 50%-I-Hubbard Hall
3834 HUBBARD HALL THIRAM 5% DUST-F-Hubbard Hall
3835 HUBBARD HALL THIRAM 65W-F-Hubbard Hall
3836 HUBBARD HALL 10% TOXAPHENE DUST-I-Hubbard Hall
3837 HUBBARD HALL ZINEB 4.2% DUST-F-Hubbard Hall
3838 HUBBARD HALL ZINEB 4.2%-DDT 5% DUST-FI-Hubbard Hall
3839 HUBBARD HALL ZINEB 4.2%-DIELDRIN 1.5% DUST-FI-Hubbard Hall
3840 HUBBARD HALL ZINEB 4.2%-PARATHION 1% DUST-FI-Hubbard Hall
3841 HUDSON ACE, Hand Sprayer-E-Hudson
3842 HUDSON ADAPTO TRAILER, Power sprayer-E-Hudson
3843 HUDSON ADJUTANT, Hand duster-E-Hudson
3844 HUDSON ADMIRAL, Hand duster-E-Hudson
3845 HUDSON ARTISAN, Hand sprayer-E-Hudson
3847 HUDSON BAK-PAK, Power duster-E-Hudson
3848 HUDSON BANTAM, Hand duster-E-Hudson
3849 HUDSON BANTAM, Hand sprayer-E-Hudson
3850 HUDSON BOOM DROPS, Power spray equipment-E-Hudson
3851 HUDSON BOOSTER, Compressed air sprayer-E-Hudson
3852 HUDSON BROAD SPRAY, Power sprayer-E-Hudson
3853 HUDSON BUGWISER, Compressed air sprayer-E-Hudson
3854 HUDSON CADET, Hand duster-E-Hudson
3855 HUDSON CAPITAL, Hand sprayer-E-Hudson
3856 HUDSON CARDINAL, Hand sprayer-E-Hudson
3857 HUDSON CLIMAX, Compressed air sprayer-E-Hudson
3858 HUDSON CLIPPER, Compressed air sprayer-E-Hudson
3859 HUDSON CLOUD, Hand sprayer-E-Hudson
3860 HUDSON COMANDO, Power sprayer-E-Hudson
3861 HUDSON COMET, Hand sprayer-E-Hudson
3862 HUDSON CRITIC, Hand sprayer-E-Hudson
3863 HUDSON DEFENDER, Power sprayer-E-Hudson
3864 HUDSON ECLIPSE HAND SPRAYER-E-Hudson
3865 HUDSON EGG-KOTE, Hand sprayer-E-Hudson
3866 HUDSON ENSIGN, Wheelbarrow sprayer-E-Hudson
3867 HUDSON EXTENSION SPRAY BOOM, Sprayer attachment-E-Hudson
3868 HUDSON FAVORITE, Compressed air sprayer-E-Hudson
3869 HUDSON FOG, Hand sprayer-E-Hudson
3870 HUDSON FUTURA, Compressed air sprayer-E-Hudson
3871 HUDSON HANDY, Hand sprayer-E-Hudson
3872 HUDSON HYDRA-GUN, Hand sprayer-E-Hudson
3873 HUDSON IDEAL, Wheelbarrow sprayer-E-Hudson
3874 HUDSON INSECT-AWAY, Electric insecticide sprayer-E-Hudson
3875 HUDSON KEM-OIL, Spray hose-E-Hudson
3876 HUDSON KING, Barrel sprayer-E-Hudson
3877 HUDSON LEADER, Compressed air sprayer-E-Hudson
3878 HUDSON LEKTRIK-PAINTER, Electric paint sprayer-E-Hudson
3879 HUDSON LEKTRIK-SPRAY, Electric duster-E-Hudson
3880 HUDSON MATADOR, Power sprayer-E-Hudson
3881 HUDSON MERCURY, Hand sprayer-E-Hudson
3882 HUDSON METEOR, Hand sprayer-E-Hudson
3883 HUDSON MISTY, Hand sprayer-E-Hudson
3884 HUDSON MODOC, Bucket sprayer-E-Hudson

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3885 HUDSON MORO, Barrel or bucket sprayer-E-Hudson
3886 HUDSON NEBU-LIZOR, Hand sprayer-E-Hudson
3887 HUDSON ORBITOR, Compressed air sprayer-E-Hudson
3888 HUDSON OZARK, Knapsack sprayer-E-Hudson
3889 HUDSON PATROL, Hand duster-E-Hudson
3890 HUDSON PEERLESS, Power sprayer-E-Hudson
3891 HUDSON PERFECTION, Compressed air sprayer-E-Hudson
3892 HUDSON PORTA-DUSTER, Traction duster-E-Hudson
3893 HUDSON PORTA-POWER, Power sprayer-E-Hudson
3894 HUDSON PORTA-SPRAY, Compressed air sprayer-E-Hudson
3895 HUDSON RIVAL, Electric insecticide sprayer-E-Hudson
3896 HUDSON ROTO-POWER, Hand duster-E-Hudson
3897 HUDSON SAF-T-LOK, Compressed air sprayer-E-Hudson
3898 HUDSON SIMPLEX, Compressed air sprayer-E-Hudson
3899 HUDSON SPEEDEE-BOOM, Spray boom-E-Hudson
3899.50 HUDSON SPRA-BOY, Power Sprayer-Hudson
3900 HUDSON SPRAY GUNS-E-Hudson
3901 HUDSON SPRAZIT, Knapsack sprayer-E-Hudson
3902 HUDSON STAUFFER, Knapsack duster-E-Hudson
3903 HUDSON SUBURBAN POWER SPRAYER E-Hudson
3904 HUDSON SUNSHINE, Wheelbarrow sprayer-E-Hudson
3905 HUDSON TROMBONE, Slide type sprayer-E-Hudson
3907 HUDSON VAPOR, Hand sprayer-E-Hudson
3908 HUDSON WEED-SHOOTER, Knapsack sprayer-E-Hudson
3909 HUDSON WINNER, Compressed air sprayer-E-Hudson
3910 HUDSON WISHBONE, Boom drop-E-Hudson
3911 HUDSON WIZARD, Electric insecticide sprayer-E-Hudson
3912 HUDSON X-PERT, Compressed air sprayer-E-Hudson
3913 HUDSON ZAKATO, Compressed air sprayer-E-Hudson
3915 HYAMINE® 10-X, Di-isobutyl cresoxyethoxy ethyldimethyl benzyl ammonium chloride monohydrated 98.8%-F-Rohm & Haas
3916 HYAMINE® 1622, Para di-isobutyl phenoxy ethoxy ethyl dimethyl benzyl ammonium chloride 98.8%-F-Rohm & Haas
3917 HAYMINE® 2389, Aqueous solution (alkyl C_9-C_{11} tolyl methyl trimethyl ammonium chlorides 50%-F-Rohm & Haas
3918 HYAMINE® 3500, 50% Aqueous solution *n*-alkyl (C_{11}, C_{12}, C_{16}) dimethyl benzyl ammonium chlorides-F-Rohm & Haas
3919 HYAMINE® 3500, 80% Concentrate, in ethanol *n* alkyl (C_{11}, C_{12}, C_{16}) dimethyl benzyl ammonium chlorides-F-Rohm & Haas
3920 HYDROTHOL 47, Endothal as dimethylcocoamine salt 1.5 lb./gal.-H-Pennsalt
3921 HYDROTHOL 191, Endothall as monomethylcocoamine salt 2 lb./gal.-H-Pennsalt
3922 HYPRO PUMPS, 2 CYLINDER PISTON PTO CENTRIFUGAL AND NYLON OR RUBBER ROLLER IMPELLER MODELS-E Hypro Eng.
3923 "HYVAR"® X BROMACIL WEED KILLER, 5-bromo-3-*sec*-butyl-6-methyluracil 80%-H-Du Pont (I & B)
3924 ICR BRAND 5% DDT RESIDUAL SPRAY, DDT 5%, oil 95%-I-Insect Control
3925 IDEAL BRAND ANT POWDER, Dieldrin 2%-I-Fla. Agr. Supply
3926 IDEAL BRAND CHLORDANE 10 DUST (10%)-I-Fla. Agr. Supply
3927 IDEAL BRAND 72% CHLORDANE LIQUID-I-Fla. Agr. Supply
3928 IDEAL BRAND CHLOROPHENE BAIT, Chlordane, toxaphene-IB-Fla. Agr. Supply
3929 IDEAL BRAND CITRUS SPRAY NO. 1, (Dormant-post bloom), chlorobenzilate, copper-FI-Fla. Agr. Supply
3930 IDEAL BRAND CITRUS SPRAY NO. 2 (Summer), zineb-F-Fla. Agr. Supply
3931 IDEAL BRAND CITRUS SPRAY NO. 3 (Miticide), Ethion-I-Fla. Agr. Supply
3932 IDEAL BRAND COPPER SPRAY-F-Fla. Agr Supply
3933 IDEAL BRAND 10% DDT DUST-I-Fla. Agr. Supply
3934 IDEAL BRAND 50% DDT WETTABLE-I-Fla. Agr. Supply
3935 IDEAL BRAND DIBEN, BHC, DDT-I-Fla. Agr. Supply
3936 IDEAL BRAND DIBEN® SEVIN GRANULAR, 1-Naphthyl-N-methylcarbamate-I-Fla. Agr. Supply
3937 IDEAL BRAND DIBEN® SEVIN SPRAYABLE, 1-Naphthyl-N-methylcarbamate-I-Fla. Agr. Supply
3938 IDEAL BRAND DIELDRIN SPRAY-I-Fla. Agr. Supply
3939 IDEAL BRAND DUSTING SULPHUR, Sulfur 95%-FI-Fla. Agr. Supply
3940 IDEAL BRAND FISH OIL SOAP, CAUSTIC POTASH-A-Fla. Agr. Supply
3941 IDEAL BRAND FUMAGON®, 1,2-Dibromo-3-chloropropane-IF-Nematocide-Fla. Agr. Supply
3942 IDEAL BRAND IRON SULPHATE-N-Fla. Agr. Supply

3943 IDEAL BRAND LIME SULPHUR SOLN., Calcium polysulfides 28.5%-I-Fla. Agr. Supply
3944 IDEAL BRAND LINDA SPRAY, Lindane 20%-I-Fla. Agr. Supply
3945 IDEAL BRAND MALATHION SPRAY, Malathion 25%-I-Fla. Agr. Supply
3946 IDEAL BRAND MANGANESE (neutral spray grade)-N-Fla. Agr. Supply
3947 IDEAL BRAND MAGNESIUM SULPHATE-N-Fla. Agr. Supply
3948 IDEAL BRAND OIL EMUL. COC., oil 84%-I-Fla. Agr. Supply
3949 IDEAL BRAND OILAN (Oil spray)-I-Fla. Agr. Supply
3950 IDEAL BRAND PERK., Copper 7.5%, manganese 1.5%, sulfur 51%, zinc 7.8%-FI-N-Fla. Agr. Supply
3951 IDEAL BRAND ROSE DUST, Chlordane 3%, DDT 3%, Gamma BHC 1%, sulfur 30%, zineb 6%-FI-Fla. Agr. Supply
3952 IDEAL BRAND SOIL ACIDIFIER, Iron, manganese, sulfur-N-Fla. Agr. Supply
3953 IDEAL BRAND TRID, DDT, O,O-diethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate-I-Fla. Agr. Supply
3954 IDEAL BRAND TRID GRANULAR, Carbophenothion-I-Fla. Agr. Supply
3955 IDEAL BRAND TRIP, Chlordane 11.57%, DDT 5.79%, malathion 28.94%, oil 46.2%-I-Fla. Agr. Supply
3956 IDEAL BRAND VEGETABLE DUST, Methoxychlor 5%, nicotine 0.5%, rotenone 0.75%, zineb 6%-FI-Fla. Agr. Supply
3957 IDEAL BRAND ZINC-N-Fla. Agr. Supply
3958 IDEAL BRAND ZINEB SPRAY-F-Fla. Agr. Supply
3977 IMCO BRAND 40% SODIUM ARSENITE SOLN.-H-I-Ind. Materials
3978 IMPROVED CMZ SPRAY CONTAINS CHELATED IRON, Copper 33.35%, chelated iron 1.70%, other iron 1.80%, manganese 8.18%, zinc 1.58%-FN-Kilgore
3987 IMPROVED WEED-B-GON, Isooctyl ester 2,4-D 15.1%, isooctyl ester 2,4,5-T 7.2%-H-
3988 INCCO PMP CONCENTRATE, 2-Isovaleryl-1,3-indandione-R-Am. Fluoride Calif. Chem.
3989 INCCO PMP FINISHED BAIT (Ready-to-use), 2-Isovaleryl-1,3-indandione-R-Am-Fluoride
3990 INCCO PMP WATER SOLUBLE CONCENTRATE, 2-Isovaleryl-1,3-indandione-R-Am. Fluoride
3991 INDALONE®, Alpha, alpha-dimethyl-alpha'-carbobutoxydihydro-gamma-pyrone 100%-IC-Fairfield
3992 INDUSPRAY NEW FORMULA, Oil 99.10%, piperonyl butoxide 0.75%, pyrethrins 0.15%-I-Tanglefoot
3993 INDUSPRAYOR, Insecticide applicator-E-Tanglefoot
3994 INFUCO CHLORDANE SPRAY, Chlordane 2%, oil 98%-I-Ind. Fumigant
3995 INFUCO 80-20 GRAIN FUMIGANT, Carbon bisulfide 16.5%, carbon tetrachloride 83.5%-IF-Ind. Fumigant
3996 INFUCO MALATHION GRAIN PROTECTANT, Malathion 57%-I-Ind. Fumigant
3997 INFUCO TWO-IN-ONE GRAIN FUMIGANT, Carbon bisulfide 16%, carbon tetrachloride 79%, ethylene dibromide 5%-IF-Ind. Fumigant
3998 INHIB-A, Poloxyethylelene glycol ether of a high molecular weight organic amine, quaternary ammonium salt and acetylenic alcohol 80 % (corrosion inhibitor for arsenic acid cotton desiccant sprays)-A-Chipman
3999 INSCO RAT & MOUSE BAIT, Coumafuryl 0.025%-R-Insect Control Sales
4000 INSCO SOIL FUMIGANT APPLICATORS (For soil fumigation)-E-Insect Control Sales
4001 INSECTICENE, Chlordane 2%, organic thiocyanates 1.19%-I-Wipp
4002 INSECTICIDE DDT EMULSIFIABLE CONC., 25% DDT-I-Woodbury
4004 INSECTOCUTOR, ELECTROCUTING FLY SCREENS FOR DOORS AND WINDOWS-E-Detjen
4005 INSECTOCUTOR ,ELECTROCUTING FLY TRAPS, PORTABLE-E-Detjen
4006 INSECTOCUTOR, INSECT ELECTROCUTING LANTERNS FOR DESTROYING NOCTURNAL INSECTS-E-Detjen
4007 INSECTOCUTOR, INSECT ELECTROCUTING PANELS FOR DESTROYING NOCTURNAL INSECTS-E-Detjen
4008 INSECTOL INSECT SPRAY, GRADE AA, Piperonyl butoxide, oil, pyrethrins-I-Lester
4009 IN-SEC-TO VAPONA® 4E, DDVP 40.5%-I-Rockland
4010 INS-EX "SENIOR" WITH DIAZINON®, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.5%, oil 96%, organic thiocyanates 2%-I-Crane
4011 INSTITUTIONAL NON-TOXIC INSECT KILLER, Oil, piperonyl butoxide, pyrethrins-IA-Uncle Sam
4012 INSTITUTIONAL PAX CRABGRASS AND POA ANNUAL CONTROL, Lead arsenate 15.85%, arsenic trioxide 46.3%-H-Pax
4014 IPCgran 10, IPC 10% (granular)-H-Chipman
4015 IRONTONE, Ferrous sulphate 93%-N-Destruxol

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ISOCIL=5-BROMO-3-ISOPROPYL-6-METHYLURACIL.
ISOLAN = DIMETHYL 5-(1-ISOPROPYL-3-METHYL-PYRAZOLYL) CARBAMATE.
4017 ISOTOX DAIRY SPRAY, Lindane 25%-I-Calif. Chem.
4019 ISOTOX 1 DUST, Lindane 1%-I-Calif. Chem.
4020 ISOTOX GARDEN SPRAY, DDT 5%, lindane 5%, malathion 10%, tedion 3%-I-Calif. Chem.
4020.50 ISOTOX LINDANE SPRAY LIQUID (12.9%)-I-Calif. Chem.
4021 ISOTOX LIQUID DAIRY SPRAY, Aromatic petroleum deriv. solvent 52%, lindane 20%-I-Calif. Chem.
4022 ISOTOX 25 SEED TREATER (F), Captan 12.5%, lindane 25%-ST-Calif. Chem.
4023 ISOTOX 75 SEED TREATER, Lindane 75%-I-Calif. Chem.
4024 ISOTOX SPRAY NO. 200, Lindane 20%-I-Calif. Chem.
4025 ISOTOX SULFUR-2-50 DUST, Lindane 2%, sulfur 50%-FI-Calif. Chem.
4026 ISOTOX TRANSPLANTER SOLUTION, Lindane 5%-I-Calif. Chem.
4027 ISOTOX 25 WETTABLE, Lindane 25%-I-Calif. Chem.
4029 ITSO BRAND PYRENONE® EMUL. CONC. T-113 Piperonyl butoxide, pyrethrins-I-Capitol Chem.
4030 ITSO BRAND YELLOW LABEL, Deodorized oil, piperonyl butoxide, pyrethrins-I-Capitol Chem.
4031 JABSCO SPRAY PUMPS-Various types-E-Jabsco
4032 JACK FROST WOOD PRESERVATIVE, Pentachlorophenol 4.25%, other chlorophenols 0.75%-WP-Woodbury
4033 JACK WILSON EMULSIFIABLE IPC 24, 24 lbs. IPC/gal.-H-J. Wilson
4034 JACK WILSON IPC CONC., IPC 3 lbs./gal. H-J. Wilson
4035 JACK WILSON IPC WETTABLE 50%-H-J. Wilson
4036 JACK WILSON PELLETIZED CHLORO IPC 10% H-J. Wilson
4037 JACK WILSON PELLETIZED IPC 10%-H-J. Wilson
4038 JACK WILSON PELLETIZED SESIN 5, 2,4-Dichlorophenoxy-ethyl benzoate 5%-H-J. Wilson
4040 JAPIDEMIC MILKY DISEASE SPORES, Mixed culture of not less than 100 million viable spores of resistant stages of either or both Bacillus popilliae and Bacillus lentimorbus per gram-I-Murray
4041 JET-O-MIZER GRINDING AND BLENDING EQUIPMENT (For processing pesticides)-E-Fluid Energy
4042 JIFFY APPLICATOR (For fumigants)-E-Arrow
4043 JIFFY APPLICATORS (Fumigant applicators)-E-Carolina
4044 JITTER BUG INSECT REPELLENT, Hydrogenated rotenone and other cube resins 0.375%, secondary terpene alcohols 14%, terpineol 7.5%-I-Sayman
4045 KANSEL, 2,4,5-T, propylene glycol (C_3H_8O to $C_4H_{10}O_2$) butyl ether esters, 2.7%, 2,4,5-T acid equivalent 1.7%-H-Scott
4046 KARATHANE® LIQUID CONCENTRATE, 2,4-Dinitro-6-(2-octyl), phenyl crotonate & other nitro phenols and derivatives chiefly dinitro (2-octyl), phenol 48%-FI-Rohm & Haas
4047 KARATHANE® WD, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 22.5%, related compds. 2.5%-FI-Rohm & Haas
4048 KARBAM® BLACK, Ferbam-F-Sherwin-Williams
4049 KARBAM® WHITE, Ziram-F-Sherwin-Williams
4050 KARMEX® DIURON WEED KILLER, Diuron 80%-H-DuPont (I & B)
4051 KARMEX® DL DIURON WEED KILLER, Diuron 28%, (2.8 lbs./gal.)-H-Du Pont (I & B)
4053 KELLY'S INSECT SPRAY VAPORIZER CONC., Oil 93.60%, piperonyl butoxide 1.27%, pyrethrins 0.13%-I-Solvit
4054 KELLY'S RAT CAFETERIA, Rodenticide bait station-R-Solvit
4056 KELTHANE® AP, 4,4'-dichloro-alpha-trichloromethylbenzhydrol 18.5%-I-Rohm & Haas
4057 KELTHANE® DUST BASE, 4-4'Dichloro-alpha-trichloromethyl-benzhydrol 30%-IC-Rohm & Haas
4058 KELTHANE® E.C., 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 18.5%-I-Rohm & Haas
4059 KELTHANE® MF, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 42%-I-Rohm & Haas
4060 KELTHANE® W, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 18.5-I-Rohm & Haas
4061 KEMAL, Malathion 4.3%, oil 42.7%, toxaphene 4.3%-I-Vet-Kem
4062 KEM-DIP, Oil, pine oil, 1,1-dichloro-2,2-bis (*p*-ethylphenyl) ethane, *p*-dioxaneditiol-bis-(O,O-diethylphosphorodithioate), dodecylbenzenesulfonate-I-Vet-Kem
4063 KEMDRIN DAIRY LIVESTOCK SPRAY, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy *cis*-crotonate 14.4%, oil 72.85%-I-Vet-Kem
4064 KEMIC BOMB, 1-Naphthyl N-methylcarbamate 0.5%, pyrethrins 0.05%, piperonyl butoxide 0.5%, 2,2'-methylenebis (4-chlorophenol) (dichlorophene) 0.1%-IA-Vet-Kem

4065 KEMIC TICK POWDER, Chloranil, 1-naphthyl-N-methylcarbamate-FI-Vet-Kem
4066 KEM-SMEAR, Lindane 3%, oil 42%, pine oil 35%-IR-Vet-Kem
4067 KEMTOX, Livestock spray and dip, delnav 15%-I-Vet-Kem
4068 KENITE 75, Diatomite-carrier, diluent-D-Kenite Corp.
4069 KEPONE® ANT AND ROACH BAIT (PELLETED), Decachlorooctahydrol-1,3,4-methano-2H-cyclobuta (cd) pentalene-2-one-O.125%-IB-Penick
4070 KEYSTONE NICOTINE SULPHATE, Nicotine 40%-I-Good
4071 KILCHLOR 40 WETTABLE, Chlordane 40%-I-Kilgore
4072 KILCIDE 50 WETTABLE, DDT 50%-I-Kilgore
4073 KILCIDE 75 WETTABLE, DDT 75%-I-Kilgore
4074 KILCOP DUST NO. 2, Copper 6.89%-F-Kilgore
4075 KILCOP DUST NO. 3, Copper 7.42%-F-Kilgore
4076 KILCOP DUST NO. 4, Copper 9%-F-Kilgore
4077 KILCOP-MANGANESE-ZINC SULPHUR DUST NO. 1, Copper 6.36%, manganese 2.36%, sulphur 45%, zinc 1.56%-F-N-Kilgore
4078 KILCOP-SULPHUR DUST NO. 1, Copper 6.89%, sulfur 72%-F-Kilgore
4079 KILCOP "45" WETTABLE, Copper 45%-F-Kilgore
4080 KILCOP "53" WETTABLE, Copper 53%-F-Kilgore
4081 KILCOPITE SPRAY WETTABLE, Copper 26.5%, oresite 50%-F-N-Kilgore
4082 KILFUME 60-40, Ethylene dibromide 40%-IF-Kilgore
4083 KILFUME 80-20, Ethylene dibromide 20%-IF-Kilgore
4084 KILGAM 25 WETTABLE, Lindane 25%-I-Kilgore
4085 KILGORE'S ALDRIN GRANULES 10%, Aldrin 10%-I-Kilgore
4086 KILGORE'S ALDRIN GRANULES 20%, Aldrin 20%-I-Kilgore
4087 KILGORE'S BHC-DDT DUST NO. 1, Gamma isomer BHC 2%, DDT 5%-I-Kilgore
4088 KILGORE'S BHC DUST NO. 3, BHC 1.5% gamma isomers-I-Kilgore
4089 KILGORE'S BHC-KILCOP-SULPHUR DUST NO. 1, BHC 1%, copper 6.67%, sulphur 45%-FI-Kilgore
4090 KILGORE'S BHC-SULPHUR DUST NO. 2, BHC 1.5%, sulfur 63%-I-Kilgore
4091 KILGORE'S CAPTAN DUST NO. 1, Captan 5%-F-Kilgore
4092 KILGORE'S CAPTAN DUST NO. 4, Captan 12.5%-F-Kilgore
4093 KILGORE'S 72% CHLORDANE EC, Chlordane 72%-I-Kilgore
4094 KILGORE'S CAPTAN-DDT DUST NO. 2, Captan 12.5%, DDT 3%-FI-Kilgore
4095 KILGORE'S CHLORDANE-KILCOP DUST NO. 2, Chlordane 10%, copper 6%-FI-Kilgore
4096 KILGORE'S CHLORDANE POISON BAIT NO. 8, Chlordane 2%-IB-Kilgore
4097 KILGORE'S CHLORDANE-TOXAPHENE BAIT NO. 11, Chlordane 2%, toxaphene 2.40%-IB-Kilgore
4098 KILGORE'S CHLORDANE-TOXAPHENE-METALDEHYDE POISON BAIT NO. 12, Chlordane 2%, metaldehyde 2%, toxaphene 2.40%-IB-Kilgore
4099 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 2, Copper 5%, manganese 5%, sulfur 60%, zinc 6.67%-F-N-Kilgore
4100 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 3, Copper 6.82%, manganese 6.82%, sulfur 40%, zinc 9.09%-F-N-Kilgore
4101 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 4, Boron 1%, copper 15.9%, manganese 12%, zinc 20.80%-F-N-Kilgore
4102 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 5, Boron 1.41%, copper 18.75%, manganese 18.75%, zinc 25%-F-N-Kilgore
4103 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 6, Boron 0.55%, copper 7.50%, manganese 7.50%, sulfur 45%, zinc 10%-F-N-Kilgore
4104 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 7, Copper 12.10%, manganese 12.10%, zinc 16.14%-F-N-Kilgore
4105 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 8, Boron 0.94%, copper 15.85%, manganese 13.75%, zinc 20.75%-F-N-Kilgore
4106 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 9, Copper 17.66%, manganese 12.50%, zinc 17.33%-F-N-Kilgore
4107 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 10, Copper 15.90%, manganese 12%, zinc 20.80%-F-N-Kilgore
4108 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 11, Copper 16.75%, manganese 9.50%, zinc 20.50%-F-N-Kilgore
4109 KILGORE'S CITRUS NUTRITIONAL SPRAY NO. 12, Copper 14.80%, manganese 15.30%, zinc 20.80%-F-N-Kilgore
4110 KILGORE'S D-D® SOIL FUMIGANT, 100%-Chlorinated C_3 hydrocarbons-IF-Kilgore
4111 KILGORE'S DDT DUST, DDT 10%-I-Kilgore
4112 KILGORE'S DDT DUST NO. 3, DDT 5%-I-Kilgore
4113 KILGORE'S DDT DUST NO. 4, DDT 10%-I-Kilgore
4114 KILGORE'S DDT DUST NO. 6, DDT 7.5%-I-Kilgore
4115 KILGORE'S DDT DUST NO. 12, DDT 15%-I-Kilgore

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4116 KILGORE'S DDT 25 E.C., DDT 25%-I-Kilgore
4117 KILGORE'S DDT GARDEN DUST, DDT [illegible]%, I-Kilgore
4118 KILGORE'S DDT-MANGANESE-SULPHUR DUST NO. 2, DDT 5%, manganese 2.36%, sulfur 72%-IN-Kilgore
4119 KILGORE'S DDT-MANGANESE-SULPHUR DUST NO. 3, DDT 10%, manganese 2.36%, sulfur 63%-IN-Kilgore
4120 KILGORE'S DDT-SULPHUR DUST NO. 1, DDT [illegible]%, sulfur 63%-I-Kilgore
4121 KILGORE'S DDT-SULPHUR-DUST NO. 2, DDT [illegible]%, sulfur 63%-I-Kilgore
4122 KILGORE'S DDT-SULPHUR DUST NO. 3, DDT [illegible]%, sulfur 63%-I-Kilgore
4123 KILGORE'S DDT-ZINEB DUST NO. 4, DDT 5%, zineb 6.5%-FI-Kilgore
4124 KILGORE'S DDT-ZINEB DUST NO. 7, DDT 10%, zineb 6.5%-FI-Kilgore
4125 KILGORE'S DDT-ZINEB DUST NO. 13, DDT 10%, zineb 6%-FI-Kilgore
4126 KILGORE'S DIAZINON 25E (25%)-I-Kilgore
4127 KILGORE'S EMMI TURF FUNGICIDE, N-Ethylmercuric-1,2,3,6-tetrahydro-3,6-endo-methano-3,4,5,6,7,7-hexachlorophthalimide 10.31%-F-Kilgore
4128 KILGORE'S ENDRIN DUST NO. 2, Endrin 2%-I-Kilgore
4129 KILGORE'S ETHION-OIL, Ethion 2%-I-Kilgore
4130 KILGORE'S FERBAM DUST NO. 1, Ferbam 11.[illegible]%-F-Kilgore
4131 KILGORE'S FLEA KIL, BHC Gamma isomers 3%, malathion 5%-I-Kilgore
4132 KILGORE'S FERBAM 76 WETTABLE, Ferbam 76%-F-Kilgore
4133 KILGORE'S GARDEN KILFUME, Ethylene dibromide 13%-IF-Kilgore
4134 KILGORE'S GENERAL PURPOSE DUST FOR VEGETABLES, Captan 4%, methoxychlor 5%, pyrethrins 0.15%, rotenone and rotenoids 1%-FI-Kilgore
4135 KILGORE'S GIBBERELLIC ACID SOLUTION 1000 PPM-PH-Kilgore
4136 KILGORE'S GIBBERELLIC ACID SOLUTION 3000 PPM-PH-Kilgore
4137 KILGORE'S HEPTACHLOR GRANULES 10%, Heptachlor 10%-I-Kilgore
4138 KILGORE'S HEPTACHLOR GRANULES 20%, Heptachlor 20%-I-Kilgore
4139 KILGORE'S KARATHANE® DUST NO. 1, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 1%-FI-Kilgore
4140 KILGORE'S KARATHANE® WD, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 25%-FI-Kilgore
4141 KILGORE'S KELTHANE®-CAPTAN DUST NO. 1, Captan 5%, 4,4'-dichloro-*alpha*-trichloromethylbenzhydrol 2%-FI-Kilgore
4142 KILGORE'S KELTHANE® DUST NO. 2, 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol 2%-I-Kilgore
4143 KILGORE'S KELTHANE® WETTABLE 18½%, 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol 18.5%-I-Kilgore
4144 KILGORE'S KEPONE® POISON BAIT NO. 1, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one 2%-IB-Kilgore
4145 KILGORE'S KEPONE® POISON BAIT NO. 2, Decachlorooctahydro-1,3,4-metheno-2H-cyclobuta (cd) pentalen-2-one 4%-IB-Kilgore
4146 KILGORE'S KILCHLOR DUST 5% CHLORDANE, Chlordane 5%-I-Kilgore
4147 KILGORE'S KILCHLOR DUST 10% CHLORDANE, Chlordane 10%-I-Kilgore
4148 KILGORE'S KILCHLOR 4E, Chlordane 44%-I-Kilgore
4149 KILGORE'S KILCHLOR SPRAY, Chlordane 8%, organic thiocyanates 2%, pyrethrins-I-Kilgore
4150 KILGORE'S KILCIDE 2E, DDT 25%-I-Kilgore
4151 KILGORE'S KILCOP LC 13 LIQUID COPPER FUNGICIDE, Metallic copper 13%-F-Kilgore
4152 KILGORE'S KILSPRAY HIGH RESIDUAL, Diazinon 0.25%, dieldrin 0.25%, pyrethrins-I-Kilgore
4153 KILGORE'S KILSPRAY REPELLENT, Dibutyl succinate, pyrethrins-IR-Kilgore
4153.05 KILGORE'S LANDCRAB PELLETS, Dieldrin 4.7%-Kilgore
4153.06 KILGORE'S LINDANE-SULPHUR DUST NO. 1, Lindane 1%, sulfur 63%-I-Kilgore
4153.07 KILGORE'S LINDANE-SULPHUR DUST NO. 2, Lindane 1.5%, sulfur 63%-I-Kilgore
4153.08 KILGORE'S LINDANE DUST NO. 5, Lindane 5%-I-Kilgore
4153.09 KILGORE'S MALATHION DUST NO. 1, Malathion 5%-I-Kilgore
4153.10 KILGORE'S 50% MALATHION EC, Malathion 50%-I-Kilgore
4153.11 KILGORE'S MALETH FOGGING CONCENTRATE, Malathion 50%, organic thiocyanates 50%-IC-Kilgore
4153.12 KILGORE'S MALETH READY-TO-USE FOGGING FORMULATION, Malathion 3%, organic thiocyanates 3%-I Kilgore
4153.13 KILGORE'S MANEB DUST NO. 1, Maneb 5.60%-F-Kilgore
4153.14 KILGORE'S MANEB 80 WETTABLE, Maneb 80%-F-Kilgore
4153.15 KILGORE'S NEMAGON GRANULES 34½%, 1,2-Dibromo-3-chloropropene-IC-Kilgore
4153.16 KILGORE'S NEMA-KIL 70 E, 1,2-Dibromo 3-chloropropane 68%-IF-Kilgore
4153.17 KILGORE'S NEMA-KILL 5 lb./gal. EC, 1,2 Dibromo 3-chloropropane 48.40%-IF-Kilgore

4153.18 KILGORE'S PARATHION-CAPTAN DUST NO. 1, Captan 5%, parathion 1%-FI-Kilgore
4153.19 KILGORE'S PARATHION-DUST NO. 4, Parathion 2%-I-Kilgore
4153.20 KILGORE'S PARATHION-DDT DUST NO. 1, DDT 5%, parathion 2%-I-Kilgore
4153.21 KILGORE'S PARATHION-DDT DUST NO. 3, DDT 7.50%, parathion 1%-I-Kilgore
4153.22 KILGORE'S PARATHION-DDT DUST NO. 4, DDT 7.50%, parathion 1.50%-I-Kilgore
4153.23 KILGORE'S PARATHION-DDT DUST NO. 6, DDT 10%, parathion 2%-I-Kilgore
4153.24 KILGORE'S PARATHION-DDT DUST NO. 11, DDT 15%, parathion 2%-I-Kilgore
4153.25 KILGORE'S PARATHION-DDT DUST NO. 10, DDT 10%, parathion 1%-I-Kilgore
4153.26 KILGORE'S PARATHION-DDT-ZINEB DUST NO. 1, DDT 7.50%, parathion 1.5%, zineb 3.25%-FI-Kilgore
4153.27 KILGORE'S PARATHION-DDT-ZINEB DUST NO. 3, DDT 7.5%, parathion 1.5%, zineb 6.5%-FI-Kilgore
4153.28 KILGORE'S PARATHION-DDT-ZINEB DUST NO. 5, DDT 10%, parathion 2%, zineb 6%-FI-Kilgore
4153.29 KILGORE'S PARATHION-MANEB-SULPHUR DUST NO. 3, Maneb 3%, parathion 2%, sulfur 72%-FI-Kilgore
4153.30 KILGORE'S PARATHION-MANEB-TOXAPHENE-SULPHUR DUST NO. 1, Maneb 3%, parathion 2%, sulfur 63%, toxaphene 5%-FI-Kilgore
4153.31 KILGORE'S PARATHION-MANGANESE-SULPHUR DUST NO. 1, Manganese 2.36%, parathion 1%, sulfur 63%-FI-N-Kilgore
4153.32 KILGORE'S PARATHION-MANGANESE-SULPHUR DUST NO. 2, Manganese 2.36%, parathion 2%, sulfur 67.5%-FI-N-Kilgore
4153.33 KILGORE'S PARATHION-SULPHUR DUST NO. 2, Parathion 2%, sulfur 78%-FI-Kilgore
4153.34 KILGORE'S PARATHION-SULPHUR DUST NO. 3, Parathion 1%, sulfur 63%-FI-Kilgore
4153.35 KILGORE'S PARATHION-SULPHUR DUST NO. 5, Parathion 2%, sulfur 67.5%-FI-Kilgore
4153.36 KILGORE'S PARATHION-SULPHUR DUST NO. 6, Parathion 1.5%, sulfur 81%-FI-Kilgore
4153.37 KILGORE'S PARATHION-SULPHUR DUST NO. 8, Parathion 3%, sulfur 76.5%-FI-Kilgore
4153.38 KILGORE'S PARATHION-TDE DUST NO. 2, Parathion 1%, TDE 5%-I-Kilgore
4153.39 KILGORE'S PARATHION-TOXAPHENE DUST NO. 6, Parathion 2%, toxaphene 10%-I-Kilgore
4153.40 KILGORE'S PARATHION-TOXAPHENE-SULPHUR DUST NO. 2, Parathion 1.5%, toxaphene 5%, sulfur 63%-FI-Kilgore
4153.41 KILGORE'S PARATHION-TOXAPHENE-SULPHUR DUST NO. 3, Parathion 2%, sulfur 63%, toxaphene 5%-FI-Kilgore
4153.42 KILGORE'S PARATHION-TOXAPHENE-SULPHUR DUST NO. 4, Parathion 2%, sulfur 54%, toxaphene 10%-FI-Kilgore
4153.43 KILGORE'S PARATHION-TOXAPHENE-SULPHUR DUST NO. 7, Parathion 1%, sulfur 49.5%, toxaphene 8%-FI-Kilgore
4153.44 KILGORE'S PARATHION-ZINEB DUST NO. 1, Parathion 1%, zineb 6%-FI-Kilgore
4135.45 KILGORE'S PARATHION-ZINEB DUST NO. 3, Parathion 2%, zineb 6%-FI-Kilgore
4153.46 KILGORE'S PARATHION-ZINEB DUST NO. 4, Parathion 1.5%, zineb 4%-FI-Kilgore
4153.47 KILGORE'S PARATHION-ZINEB DUST NO. 7, Parathion 2%, zineb 6.5%-FI-Kilgore
4153.48 KILGORE'S PARATHION-ZINEB-SULPHUR DUST NO. 2, Parathion 2%, sulfur 72%, zineb 6.5%-FI-Kilgore
4153.49 KILGORE'S PHOSDRIN® DUST NO. 2, 2-Carbomethoxy-1-propen -2yl dimethyl phosphate 2%-I-Kilgore
4153.50 KILGORE'S PHOSDRIN-ZINEB DUST NO. 1, 2-Carbomethoxy-1-propen -2yl dimethyl phosphate 1.5%, zineb 6%-FI-Kilgore
4153.51 KILGORE'S PYRETHRIN DUST NO. 1, Pyrethrins 0.1%-I-Kilgore
4153.52 KILGORE'S ROSE DUST, Lindane 1%, sulfur 63%, zineb 4%-FI-Kilgore
4153.53 KILGORE'S ROTENONE DUST NO. 6, Rotenone 1%, rotenoids 2%-I-Kilgore
4153.54 KILGORE'S ROTENONE EC, Rotenone 5%-I-Kilgore
4153.55 KILGORE'S ROTENONE-SULPHUR DUST NO. 1, Rotenone 2%, rotenoids 4%, sulfur 58.5%-FI-Kilgore
4153.56 KILGORE'S ROTENONE WETTABLE, Rotenone 5%, rotenoids 10%-I-Kilgore
4153.57 KILGORE'S SLUG DUST, Metaldehyde 15%-Kilgore
4153.58 KILGORE'S SPERGON®-DDT DUST NO. 1, Chloranil 25%, DDT 3%-FI-Kilgore
4153.59 KILGORE'S SPERGON®-DDT DUST NO. 2, Chloranil 5%, DDT 5-FI-Kilgore
4153.60 KILGORE'S SPERGON® DDT DUST NO. 3, Chloranil 5%-F- Kilgore
4153.61 KILGORE'S SPREADER STICKER-A-Kilgore
4153.62 KILGORE'S SUPER KILSPRAY, Synergized pyrethrins-I-Kilgore
4153.63 KILGORE'S TDE DUST NO. 1, TDE 10%-I-Kilgore
4153.64 KILGORE'S TDE DUST NO. 2, TDE 5%-I-Kilgore

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4153.65 KILGORE'S THIRAM 75 W TURF FUNGICIDE (75%)-F-Kilgore
4153.66 KILGORE'S TOXAPHENE DUST NO. 2, Toxaphene 10%-I-Kilgore
4153.67 KILGORE'S 60% TOXAPHENE EC, Toxaphene 60%-I-Kilgore
4153.68 KILGORE'S TOXAPHENE-MANGANESE-SULPHUR DUST NO. 1, Manganese 2.36%, sulfur 54%, toxaphene 10%-FI-N-Kilgore
4153.69 KILGORE'S TOXAPHENE-MANGANESE-SULPHUR DUST NO. 2, Manganese 2.36%, sulfur 63%, toxaphene 5%-FI-N-Kilgore
4153.70 KILGORE'S TOXAPHENE POISON BAIT NO. 7, Toxaphene 5%-IB-Kilgore
4153.71 KILGORE'S TOXAPHENE POISON BAIT NO. 9, Toxaphene 2.4%-IB-Kilgore
4153.72 KILGORE'S TOXAPHENE POISON BAIT NO. 10, Toxaphene 3.2%-IB-Kilgore
4153.73 KILGORE'S TOXAPHENE-SULPHUR DUST NO. 1, Sulfur 63%, toxaphene 10%-FI-Kilgore
4153.74 KILGORE'S TOXAPHENE-SULPHUR DUST NO. 2, Sulfur 63%, toxaphene 5%-FI-Kilgore
4153.75 KILGORE'S TOXAPHENE-SULPHUR DUST NO. 3, Sulfur 58%, toxaphene 10%-FI-Kilgore
4153.76 KILGORE'S TOMATO & VEGETABLE DUST, Copper 5.30%, cryolite 18%-FI-Kilgore
4153.77 KILGORE'S TOXAPHENE 40 WETTABLE, Toxaphene 40%-I-Kilgore
4153.78 KILGORE'S TRITHION® DUST NO. 1, Carbophenothion 2%-I-Kilgore
4153.79 KILGORE'S TRITHION® 2E, Carbophenothion 25%-I-Kilgore
4153.80 KILGORE'S THITHION GRANULES, Carbophenothion 10%-I-Kilgore
4153.81 KILGORE'S TRITHION®-SULPHUR DUST NO. 1, Carbophenothion 2%, sulfur 72%-FI-Kilgore
4153.82 KILGORE'S WARFARIN RAT & MOUSE BAIT, Warfarin 0.025%-R-Kilgore
4153.83 KILGORE'S WATERMELON SEED PROTECTANT, Endrin 7.14%, thiram 64.27%-ST-Kilgore
4153.84 KILGORE'S WETTABLE DUSTING SULPHUR, sulfur 90%-FI-Kilgore
4153.85 KILGORE'S ZINEB DUST NO. 2, Zineb 6%-F-Kilgore
4153.86 KILGORE'S ZINEB KRYOCIDE DUST NO. 1, Cryolite 27%, zineb 4%-FI-Kilgore
4153.87 KILGORE'S ZINEB-LINDANE DUST NO. 1, Lindane 1%, zineb 4%-FI-Kilgore
4153.88 KILGORE'S ZINEB-LINDANE DUST NO. 2, Lindane 1.5%, zineb 6%-FI-Kilgore
4153.89 KILGORE'S ZINEB-LINDANE-SULPHUR DUST NO. 1, Lindane 1%, sulfur 63%, zineb 4%-FI-Kilgore
4153.90 KILGORE'S ZINEB-SULPHUR DUST NO. 1, Sulfur 72%, zineb 4%-FI-Kilgore
4153.91 KILGORE'S ZINEB 75 WETTABLE, Zineb 75%-I-Kilgore
4153.92 KILHEXCIDE SPRAY, BHC gamma isomers 2.8%, DDT 38.1%-I-Kilgore
4153.93 KILHEXCIDE SPRAY WC, BHC gamma isomers 3%, DDT 50%-I-Kilgore
4154 KILLER KATZ MICE SEED, Strychnine 0.5%-R-Elco
4155 KILMEBITE SPRAY WETTABLE, Maneb 26%-F-Kilgore
4156 KILRENE DUST NO. 1, 2,4-Dichloro-6-(*o*-phenylanilino)-*s*-triazine 3%-F-Kilgore
4157 KILRITE V 2, Oil, organic phosphate-I-U. S. Sanit. Sp
4194 KILSPRAY AEROSOL INSECTICIDE, DDT 2.0%, isobornyl thiocyananoacetate 0.82%, oil 11.65%, piperonyl butoxide 0.25%, pyrethrins 0.10%-IA-Uncle Sam
4194.50 KILZEBITE SPRAY, Zineb 25%-F-Kilgore
4195 KING DDT-COPPER DUST, Copper 7%, DDT 3%-FI-King
4196 KING DDT-DITHANE® DUST, DDT 3%, zineb 3.9%-FI-King
4197 KING DDT DUST, DDT 3%-I-King
4198 KING ROTENONE-DITHANE® DUST, Rotenone 1%, zineb 3.9%-FI-King
4199 KING SPECIAL BUG KILLER, Arsenic 2.4%-I-King
4200 KING STOCK SPRAY, Organic thiocyanates 5%-I-King
4201 KING WARBLE FLY SPRAY POWDER, Rotenone 5%-I-King
4203 KLEEN KOW CATTLE FLY SPRAY, DDVP, di-n-propyl isocinchomerate, hexahydrodibenzofurancarboxaldehyde, organic thiocyanates, pyrethrum-I-Rockland
4204 KLEEN-KOW CONCENTRATE, Alpha-methylbenzyl 3-(dimethoxyphosphinyloxy) *cis*-crotonate 28.65%-I-Rockland
4205 KLEENUP FLOWABLE EMUL., Oil 80%-I-Calif. Chem.
4206 KLEENUP READY-MIX DORMANT OIL SPRAY, Oil 98%-I-Calif. Chem.
4206.50 KLEN-SWEP E. C., Endrin 1.6 lb., methyl parathion 1.6 lb.-I-Daly Herring
4207 KLING-TITE, 50, Alpha naphthalene acetic acid 1.35%-PH-Calif. Chem.
4208 KLING-TITE 256 SPRAY, Potassium alpha-naphthaleneacetate 8.3%-PH-Calif. Chem.
4209 KLING-TITE 800 SPRAY, Alpha naphthalene acetic acid 21%-PH-Calif. Chem.
4210 KLOBEN® NEBURON WEED KILLER, 50% Neburon-H-Du Pont (I & B)
4211 KODE®, Carbaryl 7.17-I-Scott
4212 KOLO-100, Dichlone, sulfur 75.4%-FI-Niagara
4213 KONEPROX, Copper oxychloride (57-58% copper)-F-N. V. C. P.
4213.50 KOP-KARB, Copper carbonate 20%-ST-Thomp.-Hayward
4214 KOPPERSOL, Copper oleate 11%, ethylene dichloride 3%-FI-Destruxol
4214.50 KORLAN® 4, Ronnel 44%-IC-Dow

4214.75 KORLAN® 6, Ronnel 51%-IC-Dow
4215 KORLAN® 8, Ronnel 66%-IC-Dow
4216 KORLAN® 24E, Aromatic oil 68%, ronnel 24%-I-Dow
4217 KORLAN® LIVESTOCK BOMB, Pine oil 15%, ronnel 2.5%-IA-Dow
4218 KORLAN® SMEAR, Pine oil 35%, ronnel 5%, xylene 3%-I-Dow
4219 KORLAN® 25W, Ronnel 25%-I-Dow
4220 K-R-O READY MIXED BIS-KIT, Red squill powder, 500 mg/kg, 10%-R-K-R-O-Co.
4221 K-R-O RED SQUILL POWDER, Red squill powder, 500 mg/kg, 100%-R-K-R-O Co.
4222 KROMAD® BROAD-SPECTRUM TURF FUNGICIDE, Auramine 0.5%, cadmium sebacate 5%, malachite green 1%, potassium chromate 5%, thiram 16%-F-Mallinckrodt
4223 KROMER GUN TYPE TRAILER SPRAYER-E-Kromer
4224 KROMER HY-ROW SELF PROPELLED SPRAYER-E-Kromer
4225 KROMER PISTON PUMP-E-Kromer
4226 KROMER SPRAY GUNS, NOZZLES AND ACCESSORIES-E-Kromer
4228 KROMER TRACTOR MOUNTED BOOM SPRAYER-E-Kromer
4228.50 KROMER TRACTOR MOUNTED BROAD FAN SPRAYER (BOOMLESS)-E-Kromer
4229 KROMER TRAILER SPRAYER-E-Kromer
4230 KROMER UNIFORM COAT SPEED TREATERS-E-Kromer
4230.50 KROMER 2 WHEEL DRIVE FRONT END LOADER-E-Kromer
4230.75 KROMER 4-WHEEL DRIVE FRONT END LOADER-E-Kromer
4231 KRUMKIL Coumafuryl 0.025%-R-Howard
4231.20 KRYOCIDE DUST NO. 10, Cryolite 27%-I-Kilgore
4231.40 KRYOCIDE-KILCOP DUST NO. 1, Copper 5.30%, Cryolite 18%-FI-Kilgore
4231.60 KRYOCIDE-SULPHUR DUST NO. 4, Cryolite 27%, sulfur 56%-I-Kilgore
4231.80 KRYOCIDE WETTABLE, Cryolite 96%-I-Kilgore
4232 KUPRITE, Red copper oxide-90% copper-F-N-Andrews
4233 KURON®, Propylene glycol butyl ether esters of silvex 64.5% (acid equiv. 42.8%)-H-Dow
4233.50 KUROSAL® G, Granular potassium salt of silvex 23%-H-Dow
4234 KWIT, Ethion 3.6%-I-Scott
4234.25 LACCO APPLE BAIT, Sodium fluosilicate 4.5%-IB-Los Angeles Chem.
4234.50 LACCO ARA MULSION 8, 2-(*p-tert*-Butyl phenoxy) isopropyl 2-chloroethyl sulphite-I-Los Angeles Chem.
4234.75 LACCO BACILLI TOX 30, *Bacillus thuringiensis* Berliner (5 billion viable spores per gram)-I-Los Angeles Chem.
4235 LACCO BASIC LEAD ARSENATE-I-Los Angeles Chem.
4236 LACCO BENE MULSION 2.75, Gamma isomer of BHC 11.5%-I-Los Angeles Chem.
4237 LACCO BLACK FILM SULPHUR WETTABLE, Sulfur-FI-Los Angeles Chem.
4238 LACCO BLACK MAGIC SULPHUR, Sulfur-FI-Los Angeles Chem.
4239 LACCO BLACK ZINC SULPHUR, Sulfur, zinc-FI-Los Angeles Chem.
4240 LACCO CALCIUM ARSENATE, Arsenate-I-Los Angeles Chem.
4241 LACCO CARBON BI-SULPHIDE-IF-Los Angeles Chem.
4242 LACCO CASEIN SPREADER-A-Los Angeles Chem.
4242.50 LACCO CHLOR TOX 40, Technical Chlordane 40%-IC-Los Angeles Chem.
4243 LACCO CHLORDANE CONCENTRATE-I-Los Angeles Chem.
4244 LACCO CHLORDANE TECHNICAL-IC-Los Angeles Chem.
4245 LACCO CHLORO MULSION 4, Chlordane 4 lbs./gal.-I-Los Angeles Chem.
4246 LACCO CHLORO MULSION 8, Chlordane 8 lbs./gal.-I-Los Angeles Chem.
4246.50 LACCO CHLORO SPRAY 2, Chlordane 2%, oil 98%-I-Los Angeles Chem.
4247 LACCO COPPER NAPHTHENATE SOLUTION 2-WP-Los Angeles Chem.
4247.50 LACCO COPRO 53, Copper (copper oxychloride and copper basic sulphate) 53%-F-Los Angeles Chem.
4248 LACCO CREOSOTE A.W.P.A.-WP-Los Angeles Chem.
4249 LACCO DDT TECHNICAL (100%)-IC-Los Angeles Chem.
4250 LACCO DEE MULSION 2, DDT 25%-I-Los Angeles Chem.
4251 LACCO DEE SOL 20, DDT 20%-I-Los Angeles Chem.
4251.50 LACCO DEE TOX 50, DDT 50%-I-Los Angeles Chem.
4252 LACCO DIEL MULSION 1½, Dieldrin 1½ lb./gal.-I-Los Angeles Chem.
4253 LACCO DIEL TOX 50, Dieldrin-I-Los Angeles Chem.
4254 LACCO DORMANT EMULSION, Oil-I-Los Angeles Chem.
4255 LACCO DRI-DIE INSECTICIDE 67, Silica aerogel-I-Los Angeles Chem.
4255.50 LACCO DUST ARA TOX 4, 2(*p-tert*-Butylphenoxy) isopropyl 2-chloroethyl sulphite 4%-I-Los Angeles Chem.
4225.75 LACCO DUST BACILLI TOX 5, *Baccilus thuringiensis* Berliner (5 billion viable spores per gram) 0.5%-I-Los Angeles Chem.
4256 LACCO DUST BEN TOX 2, BHC, Toxaphene-I-Los Angeles Chem.
4257 LACCO DUST CALCI TOX 50, Calcium arsenate, toxaphene-I-Los Angeles Chem.

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4260 LACCO DUST CHLOR TOX 5, Chlordane-I-Los Angeles Chem.
4261 LACCO DUST CHLOR TOX 10, Chlordane 10%-I-Los Angeles Chem.
4262 LACCO DUST COPO SUL 10-50, Copper, sulfur-FI-Los Angeles Chem.
4263 LACCO DUST COPO TOX 3.6, Copper-F-Los Angeles Chem.
4264 LACCO DUST COPO TOX, Copper-F-Los Angeles Chem.
4265 LACCO DUST COPO TOX 10, Copper-F-Los Angeles Chem.
4266 LACCO DUST COPO TOX 15, Copper-F-Los Angeles Chem.
4266.50 LACCO DUST COPO ZEE SETS 10-5-X, copper 10%, zinc 5%, Na salt of B naphthoxyacetic acid 0.031%-F-PH-Los Angeles Chem.
4267 LACCO DUST CRYO SUL 50-50, Cryolite, sulfur-FI-Los Angeles Chem.
4268 LACCO DUST DEE COP SUL 10-15-40, Copper, DDT, sulfur-FI-Los Angeles Chem.
4269 LACCO DUST CRYO TOX 50, Cryolite-I-Los Angeles Chem
4271 LACCO DUST DEE KEL 5-3, DDT, 4,4-dichloro-alpha-trichloro-methylbenzhydrol-I-Los Angeles hem.
4272 LACCO DUST DEE SUL 5-50, DDT, sulfur-FI-Los Angeles Chem.
4273 LACCO DUST DEE SUL 5-75, DDT, sulfur-FI-Los Angeles Chem.
4274 LACCO DUST DEE SUL 10-50, DDT, sulfur-FI-Los Angeles Chem.
4276 LACCO DUST DEE TOX 5, DDT-I-Los Angeles Chem.
4277 LACCO DUST DEE TOX 10, DDT-I-Los Angeles Chem.
4278 LACCO DUST DIA DEE 2-10, DDT 10%, diazinon 2%-I-Los Angeles Chem.
4279 LACCO DUST DIA SUL 2-50, Diazinon 2%, sulfur 50%-FI-Los Angeles Chem.
4279.50 LACCO DUST DIA TOX 2, Diazinon 2%-I-Los Angeles Chem.
4280 LACCO DUST DIELTOX 1½, Dieldrin-I-Los Angeles Chem.
4284 LACCO DUST ENDRI TOX 1½, Endrin-I-Los Angeles Chem.
4285 LACCO DUST FER SUL 3½-90, Ferbam, sulfur-FI-Los Angeles Chem.
4286 LACCO DUST KARA TOX 1, 2,4-Dinitro-6-(2-octyl) phenyl crotonate-FI- Los Angeles Chem.
4287 LACCO DUST KEL SUL 3-50, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol, sulfur-FI-Los Angeles Chem.
4288 LACCO DUST KEL TOX 3, 4,4'Dichloro-alpha-trichloromethylbenzhydrol-I- Los Angeles Chem.
4289 LACCO DUST LIN DEE COPO 1-10-10, Copper, DDT, lindane-FI-Los Angeles Chem.
4290 LACCO DUST LIN DEE SUL 1-5-50, DDT, lindane, sulfur-FI-Los Angeles Chem.
4290.50 LACCO DUST LIN O SUL 1-50, Gamma isomer of BHC 1%, sulfur 50%-FI-Los Angeles Chem.
4290.75 LACCO DUST LIN O SUL 1½-50, Gamma isomer of BHC 1.5%, sulfur 50%-FI-Los Angeles Chem.
4291 LACCO DUST MALA CRYO SUL 4-36-40, Cryolite malathion, sulfur-FI-Los Angeles Chem.
4292 LACCO DUST MALA-CRYO-TOX 4-50, Cryolite, malathion-I-Los Angeles Chem.
4293 LACCO DUST MALA DEE SUL 4-5-50, DDT, malathion, sulfur-FI-Los Angeles Chem.
4294 LACCO DUST MALA FER SUL 4-3½-60, Ferbam malathion, sulfur-FI-Los Angeles Chem.
4295 LACCO DUST MALA KARA 4-1, Malathion, 2,4-dinitro-6-(2-octyl) phenyl crotonate-FI-Los Angeles Chem.
4296 LACCO DUST MALA SUL 4-25, Malathion sulfur-FI-Los Angeles Chem.
4297 LACCO DUST MALA SUL 4-50, Malathion ,sulfur-FI-Los Angeles Chem.
4298 LACCO DUST MALA SUL 5-50, Malathion, sulfur-FI-Los Angeles Chem.
4299 LACCO DUST MALA TOX 4, Malathion-I-Los Angeles Chem.
4300 LACCO DUST MALA TOX 5, Malathion-I-Los Angeles Chem.
4300.50 LACCO DUST MANEB 5.6 (5.6%)-F-Los Angeles Chem.
4301 LACCO DUST METHOXY SUL 10-50, Methoxychlor, sulfur-FI-Los Angeles Chem.
4302 LACCO DUST METHOXY SUL 5-50, Methoxychlor, sulfur-FI-Los Angeles Chem.
4303 LACCO DUST METHOXY TOX 5, Methoxychlor, toxaphene-I-Los Angeles Chem.
4304 LACCO DUST PARA DEE 2-5, DDT, parathion-I-Los Angeles Chem.
4305 LACCO DUST PARA DEE 2-10, DDT, parathion-I-Los Angeles Chem.
4306 LACCO DUST PARA DEE SUL 1-5-25, DDT, parathion, sulfur-FI-Los Angeles Chem.
4307 LACCO DUST PARA DEE SUL 1-5-50, DDT, parathion, sulfur-FI-Los Angeles Chem.
4308 LACCO DUST PARA DEE SUL 2-10-40, DDT, parathion, sulfur-FI-Los Angeles Chem.
4309 LACCO DUST PARA DEE ZIN SUL 1-5-3-25, DDT, parathion, sulfur, zinc-FI-Los Angeles Chem.
4310 LACCO DUST PARA DEE ZIN SUL 1-10-15, DDT, parathion, sulfur, zinc-FI-Los Angeles Chem.
4311 LACCO DUST PARA KARA 1-1, 2,4-Dinitro-6-(2-octyl) phenyl crotonate, parathion-FI-Los Angeles Chem.

4312 LACCO DUST PARA SUL 2-50, Parathion, sulfur-FI-Los Angeles Chem.
4313 LACCO DUST PARA TOX 1, Parathion-I-Los Angeles Chem.
4313.50 LACCO DUST PARA TOX 2, 2% Parathion-I-Los Angeles Chem.
4313.75 LACCO DUST RIL SUL 3-25, Carbophenothion 3%, sulfur 25%-FI-Los Angeles Chem.
4314 LACCO DUST RO TOX 1, Rotenone-I-Los Angeles Chem.
4314.50 LACCO DUST SEV SUL 5-50, Carbaryl 5%, sulfur 50%-FI-Los Angeles Chem.
4315 LACCO DUST PARA TOXA DEE 2-15-5, DDT, parathion, toxaphene-I-Los Angeles Chem.
4316 LACCO DUST T.D.E. 10, TDE 10%-I-Los Angeles Chem.
4318 LACCO DUST T.D.E. SUL 10-50, TDE, sulfur-I-Los Angeles Chem.
4321 LACCO DUST TERRA CAP 10-10, Captan, pentachloronitrobenzene-F-Los Angeles Chem.
4323 LACCO DUST TERRA TOX 10, Pentachloronitrobenzene-F-Los Angeles Chem.
4324 LACCO DUST TOXA DEE 10-10, DDT, toxaphene-I-Los Angeles Chem.
4325 LACCO DUST TOXA DEE 15-15, DDT, toxaphene-I-LosAngeles Chem.
4326 LACCO DUST TOXA DEE SUL 15-5-40, DDT, sulfur, toxaphene-FI-Los Angeles Chem.
4327 LACCO DUST TOXA DEE ZIN SUL 15-5-6-15, DDT, sulfur, toxaphene, zinc-FI-Los Angeles Chem.
4328 LACCO DUST TOXA SUL 10-50, Sulfur, toxaphene-FI-Los Angeles Chem.
4329 LACCO DUST TOXA T.D.E. 15-5, TDE, toxaphene-I-Los Angeles Chem.
4329.50 LACCO DUST TRI TOX 3, Carbophenothion 3%-I-Los Angeles Chem.
4330 LACCO DUST ZIN TOX 3, Zineb-F-Los Angeles Chem.
4330.50 LACCO EMULSIFIABLE LARVACIDE, DDT 25%-I-Los Anfieles Chem.
4331 LACCO ENDRI MULSION 1.6, Endrin 1.6 lb./gal.-I-Los Angeles Chem.
4332 LACCO FLY Z AWAY, DDT 5%, oil 95%-I-Los Angeles Chem.
4333 LACCO HI-CHLOR, Technical chlordane 73%-IC-Los Angeles Chem.
4334 LACCO HI-LIN, Lindane 11.7%-I-Los Angeles Chem.
4334.50 LACCO KALI DUST, Calcium arsenate 35%-I-Los Angeles Chem.
4335 LACCO LIGHT MEDIUM SOLUBLE, Oil-I-Los Angeles Chem.
4336 LACCO LINDANE-IC-Los Angeles Chem.
4336.50 LACCO LIN-O-FLY, Lindane 0.5%, oil 95%-I-Los Angeles Chem.
4336.75 LACCO LIN-O-SOL 20, Gamma isomer of benzene hexachloride 20%-I-Los Angeles Chem.
4337 LACCO LIQUID LIME-SULPHUR-FI-Los Angeles Chem.
4338 LACCO MAGIC SULPHUR-FI-Los Angeles Chem.
4339 LACCO MALA FOG 3, Malathion-I-Los Angeles Chem.
4340 LACCO MALA MULSION 5, Malathion-I-Los Angeles Chem.
4341 LACCO MALA MULSION 8, Malathion-I-Los Angeles Chem.
4342 LACCO MALA OIL 8, Malathion, oil-I-Los Angeles Chem.
4343 LACCO MALA TOX 25, Malathion-I-Los Angeles Chem.
4345 LACCO MALATHION GRAIN SPRAY-I-Los Angeles Chem.
4347 LACCO MONO CALCIUM ARSENITE-I-Los Angeles Chem.
4350 LACCO NEMAGON® 70, 1,2-Bromo-3-chloropropane-F-Los Angeles Chem.
4350.30 LACCO NON-SELECTIVE WEED KILLER BCW, Sodium chlorate 18%, sodium metaborate octahydrate 19%-H-Los Angeles Chem.
4350.60 LACCO PARA MULSION 4, Parathion 47%-I-Los Angeles Chem.
4351 LACCO PARIS GREEN, Copper acetoarsenite-I-Los Angeles Chem.
4352 LACCO PENTA CONCENTRATE, Pentachlorophenol-WP-Los Angeles Chem.
4353 LACCO PENTA READY, Pentachlorophenol-WP-Los Angeles Chem.
4354 LACCO PENTA WEED KILLER, Pentachlorophenol-H-Los Angeles Chem.
4355 LACCO PENTA W.R., Pentachlorophenol-WP-Los Angeles Chem.
4355.50 LACCO POISONED BAIT, Calcium arsenate 5%-IB-Los Angeles Chem.
4356 LACCO PRYETHRUM EXTRACT 20-1-I-Los Angeles Chem.
4356.50 LACCO RO TOX 5, Rotenone 5%, rotenoids 10%-I-Los Angeles Chem.
4357 LACCO SODIUM ARSENITE SOLUTION NO. 4, 4 lb./gal.-H-Los Angeles Chem.
4358 LACCO SODIUM ARSENITE SOLUTION N. 6, Sodium arsenite 6 lb./gal.-H-Los Angeles Chem.
4359 LACCO SPRED ZON, Spreader-A-Los Angeles Chem.
4360 LACCO SPRED Z WELL, Spreader-A-Los Angeles Chem.
4361 LACCO STANDARD LEAD ARSENATE-I-los Angeles Chem.
4363 LACCO TEPP MULSION 1.6, TEPP-I-Los Angeles Chem.
4364 LACCO TOXA DEE MULSION 4-2, DDT, toxaphene-I-Los Angeles Chem.
4365 LACCO TOXA MULSION 6, Toxaphene 6 lbs./gal.-I-Los Angeles Chem.
4366 LACCO WETTABLE SULPHUR-FI-Los Angeles Chem.
4367 LACCO ZINC COPRO 20-4, Copper, Zinc-F-Los Angeles Chem.
4368 LACCO ZINC SULPHUR-FI-Los Angeles Chem.
4369 LAMPRICIDE L-30-F, 3-Trifluoromethyl-4-nitrophenol 30%-FT-Maumee Chem.

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4395 LARVA-BROME 46, Chloropicrin, methyl bromide IF-Morton
4396 LARVACIDE 15, Chloropicrin, carbon tetrachloride, carbon disulfide-IF-Morton
4397 LARVACIDE 100, Chloropicrin-IF-Morton
4398 LARVACIDE 70 AEROSOL, Chloropicrin 70%-A-IF-Morton
4399 LARVACIDE 85 AEROSOL, Chloropicrin 85%-A-IF-Morton
4400 LARVACIDE SOIL FUMIGANT, Chloropicrin 93.5%, ethylene dibromide 6.5%-IF-Morton
4402 LARV-A-TROLS (Mosquito larvacide pellets), 12% BHC, 3% DDT-I Am. Fumig.
4403 LAWN-A-GEN, Dichloroethyl ether 70%, Copper 2.68%-FI-Destruxol
4404 LAW NGUARD, 0.65% Chlordane, 11-11-11 Fertilizer, dimethyl ester of tetrachloroterephthalic acid 1.75%-I-SC-Woodbury
4405 LAWN-TRIM, Ammonium sulfamate 44.5%-H-Chipman
4407 LEBANON AMINE 40, 2,4-D WEED KILLER, Dimethylamine salts 2,4-D-H-Lebanon
4408 LEBANON ARISOD GRASS & WEED KILLER, Sodium arsenite 40%-H-Lebanon
4409 LEBANON BAIT ILLIS RATS & MICE, Warfarin-R-Lebanon
4410 LEBANON BOR-DOX COPPER FUNGICIDE, Basic copper sulfate (copper 12.75%)-F-Lebanon
4411 LEBANON BUG SPRAY, Gamma BHC 5%, malathion 12.5%, TDE 5%-I-Lebanon
4412 LEBANON CHLORDANE 72%-I-Lebanon
4413 LEBANON DDT 5 DUST, DDT 5%-I-Lebanon
4414 LEBANON DDT 10 DUST, DDT 10%-I-Lebanon
4415 LEBANON DDT EMUL. CONC., DDT 25%, oil 70%-I-Lebanon
4416 LEBANON DDT 50% WETTABLE POWDER-I-Lebanon
4417 LEBANON DI-COP POTATO & TOMATO DUST, Basic copper sulfate (copper 7%) DDT 3%-FI-Lebanon
4418 LEBANON DI-COP POTATO & TOMATO SPRAY, Basic copper sulfate (copper 34%), DDT 8%-FI-Lebanon
4419 LEBANON FRUIT & BERRY SPRAY, Captan 16%, malathion 8%, methoxychlor 16%-FI-Lebanon
4420 LEBANON GARDEN DUST, Captan 5%, malathion 4%, methoxychlor 5%, sulfur 5%-FI-Lebanon
4421 LEBANON GRANULAR KLOR DUST, Chlordane 5%-I-Lebanon
4422 LEBANON HEPTACHLOR EMULSIFIABLE, Heptachlor 23.41%-I-Lebanon
4423 LEBANON HEPTACHLOR 25% WETTABLE POWDER-I-Lebanon
4424 LEBANON IMPROVED WEEDETH, 2,4-D, 2,4,5-T-H-Lebanon
4425 LEBANON KLOR DUST, Chlordane 5%-I-Lebanon
4426 LEBANON LIQUID CRABGRASS DESTROYER, Disodium methylarsonate anhydrous 12.5%-H-Lebanon
4427 LEBANON MALATHION 4%-I-Lebanon
4428 LEBANON MALATHION 50, Malathion 50%-I-Lebanon
4429 LEBANON MALATHION 50%-I-Lebanon
4430 LEBANON MALATHION 25% WETTABLE POWDER-I-Lebanon
4431 LEBANON MISCIBLE SCALE OIL SUPERIOR TYPE, Oil 98%-I-Lebanon
4432 LEBANON ROSE DUST OR SPRAY, 2-(p-tert-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 2%, DDT 5%, ferbam 7.5%, lindane 1.25%, sulfur 25%-FI-Lebanon
4433 LEBANON ROSE-EVERGREEN SPRAY, Lindane 5%, malathion 12.5%, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 3%, dinitro octyl phenyl crotonate 1.44%, glyodin 5%-FI-Lebanon
4434 LEBANON ROSE-FLORAL SPRAY, DDT 11%, dinitro octyl phenyl crotonate 4.95%, malathion 5.5%, maneb 15.4%, tetradifon 2.75%-FI-Lebanon
4435 LEBANON 0.75% ROTENONE GARDEN DUST, Rotenone 0.75%, rotenoids 1.5%, sulfur 10%-FI-Lebanon
4436 LEBANON WETTABLE SULPHUR FUNGICIDE, Sulfur 95%-FI-Lebanon
4436.30 LEFFINGWELL NUTRA-SPRAY 18½ x 7, Mn 7%, Zn 18½-N-Leffingwell Chem.
4436.60 LEFFINGWELL VITATONE STABILIZED IRON, Nitrogen 3.25%, metallic iron 14.20%-N-Leffingwell Chem.
4437 LEFFINGWELL XXX ALBUMIN SPREADER, Albumin 25%-A-Leffingwell Chem.
4438 LEFFINGWELL XXX CASEIN SPREADER, Calcium salts of casein & soy 24%-A-Leffingwell Chem.
4439 LEFFINGWELL XXX CITRA FLO 60X, Oil 82%-I-Leffingwell Chem.
4440 LEFFINGWELL XXX CITRA FLO 75X, Oil 82%-I-Leffingwell Chem.
4442 LEFFINGWELL XXX COPPER BORDO 22%, Copper 22%-F-Leffingwell Chem.
4443 LEFFINGWELL XXX COPPER CARBONATE BASIC, Copper 51%-F-Leffingwell Chem.
4444 LEFFINGWELL XXX DORMANT STICKER, Oil 80%-A-Leffingwell Chem.
4445 LEFFINGWELL XXX EMUL-TOX B-65, Oil 85%, rotenone 0.12%-I-Leffingwell Chem.
4446 LEFFINGWELL XXX EMUL-TOX B-70, Oil 85%, rotenone 0.12%-Leffingwell Chem.
4447 LEFFINGWELL XXX FLOWABLE 60, Oil 82%-I-Leffingwell Chem.

4448 LEFFINGWELL XXX FLOWABLE 75, Oil 82%-I-Leffingwell Chem.
4449 LEFFINGWELL XXX FLOWABLE DORMANT, Oil 82%-I-Leffingwell Chem.
4450 LEFFINGWELL XXX HI-PAR, Oil 98%-I-Leffingwell Chem.
4451 LEFFINGWELL XXX MINERAL MIX 4, Copper, iron, manganese, zinc-N-Leffingwell Chem.
4452 LEFFINGWELL XXX MINERAL MIX D, Manganese, iron, zinc-N-Leffingwell Chem.
4453 LEFFINGWELL XXX NUTRA-PHOS 10, Zn 14%, Mn 7%, P_2O_5 17%-N-Leffingwell Chem.
4454 LEFFINGWELL XXX NUTRA-PHOS 17, Zn 7%, Mn 8%, P_2O_5 17%-N-Leffingwell Chem.
4455 LEFFINGWELL XXX NUTRA-PHOS 24, Phosphorus 24%, zinc 12%-N-Leffingwell Chem.
4456 LEFFINGWELL XXX NUTRA-SPRAY 17½-4-4, Zn 17½%, Mn 4%, cu 4%-NF-Leffingwell Chem.
4458 LEFFINGWELL XXX NUTRA-SPRAY 24-24, Zn 24%, Cu 24%-NF-Leffingwell Chem.
4459 LEFFINGWELL XXX NUTRA-SPRAY 7-27, Zn 7%, Mn 27%-N-Leffingwell Chem.
4460 LEFFINGWELL XXX POROCIDE 60, Oil 89.5%-I-Leffingwell Chem.
4461 LEFFINGWELL XXX POROCIDE 75, Oil 89.5%-I-Leffingwell Chem.
4462 LEFFINGWELL XXX POROCIDE HM, Oil 89.5%-I-Leffingwell Chem.
4463 LEFFINGWELL XXX ROTO FLO 50R, Oil 82%, rotenone 0.2%-I-Leffinkwell Chem.
4464 LEFFINGWELL XXX ROTO FLO 60R, Oil 82%, rotenone 0.2%-I-Leffingwell Chem.
4465 LEFFINGWELL XXX THRIP-TOX, Sabadilla alkaloids 0.5%-I-Leffingwell Chem.
4466 LEFFINGWELL XXX S-20 SPREADER, Potassium lysalbinate 5%, phthalic glycerol alkyd 14.5%-A-Leffingwell Chem.
4467 LEFFINGWELL XXX TOX-R, Rotenone 4%-I-Leffingwell Chem.
4468 LEFFINGWELL XXX TRI-FLO, Oil 82%-I-Leffingwell Chem.
4469 LEFFINGWELL XXX TRI-SPRED A, Alkylaryl polyoxethylene glycols 70%-A-Leffingwell Chem.
4470 LEFFINGWELL XXX TRI-SPRED S, Alkylaryl polyoxyethlene glycols & petroleum solvents-A-Leffingwell Chem.
4471 LEFFINGWELL XXX UNICIDE 60, Oil 99%-I-Leffingwell Chem.
4472 LEFFINGWELL XXX UNICIDE 75, Oil 99%-I-Leffingwell Chem.
4473 LEFFINGWELL XXX UNICIDE DORMANT, Oil 99%-I-Leffingwell Chem.
4474 LEFFINGWELL XXX UNIMIX SODIUM SALTS OF ORGANIC SULFONATE 8%, Albumins 50%, polyphosphates 15%-A-Leffingwell Chem.
4475 LEFFINGWELL XXX VIGROCIDE, Zn 15%, sulphur 30%-FI-N-Leffingwell Chem.
4477 LEFFINGWELL XXX WETTING AGENT #7, Sodium N-Methyl, N-palamitoyltaurate 14%-A-Leffingwell Cheb.
4478 LEFFINGWELL XXX ZINC NUTRA SPRAY 50, Zinc 50%-N-Leffingwell Chem.
4479 LESTEREX, Oil, di-n-butyl succinate, piperonyl butoxide, pyrethrins butoxide, pyrethrins-I-Lester
4480 LETHALAIRE D-300, Oil 12.5%, piperonyl butoxide 1%, pyrethrins 0.5%, N-octyl bicycloheptene dicarboximide 1%-IA-Va. Smelt.
4481.20 LETHAIRE F-80, 10% Parathion for greenhouse use-IA-Va. Smelting
4481.40 LETHAIRE F-81 (Tedion®), Tetradifon for greenhouse use-IA-Va. Smelting
4481.60 LETHAIRE F-82 (Thiodan®), Endosulfan 15% for greenhouse use-IA-Va. Smelting
4481.80 LETHALAIRE F-83 (Vapona®), 10% DDVP for greenhouse use-IA-Va. Smelting
4482 LETHALAIRE G-52, TEPP 2%, other ethyl phosphates 3%-IA-Va. Smelt.
4483 LETHALAIRE G-54, Parathion 10%-IA-Va. Smelt.
4484 LETHALAIRE G-57, Tetraethyl-dithiono-pyrophosphate 4.5%, related phosphates 0.5%-IA-Va. Smelt.
4485 LETHALAIRE G-60, 2-(p-tert-Butylphenoxy) isopropyl 2-chloroethyl sulfite 10%-IA-Va. Smelt.
4486 LETHALAIRE G-61, 2-(p-tert-Butylphenoxy) isopropyl 2-chloroethyl sulfite 10%-IA-Va. Smelt.
4487 LETHALAIRE G-62, Malathion 15%-IA-Va. Smelt.
4487.20 LETHALAIRE G-64 (Phosdrin®) 2-Carbomethoxy-1-propene-2yl-dimethyl phosphate 10%-I-Va. Smelting
4487.40 LETHALAIRE G-66, 10% Chlorobenzilate 80 for greenhouse use-IA-Va. Smelting
4487.60 LETHALAIRE G-67 (Thiodan®), Enosulfan 10%-IA-Va. Smelting
4487.70 LETHALAIRE G-68, 10% Vapona (DDVP) for greenhouse use-IA-Va. Smelting
4487.80 LETHALAIRE JR-4, Synergized pyrethrins for industrial use-IA-Va. Smelting
4488 LETHALAIRE V-21, Oil 12.5%, piperonyl butoxide 4%, pyrethrins 0.5%-IA-Va. Smelt.
4489 LETHALAIRE V-23, Oil 12.5%, piperonyl butoxide 1%, MGK-254 1%, pyrethrins 0.5%-IA-Va. Smelt.

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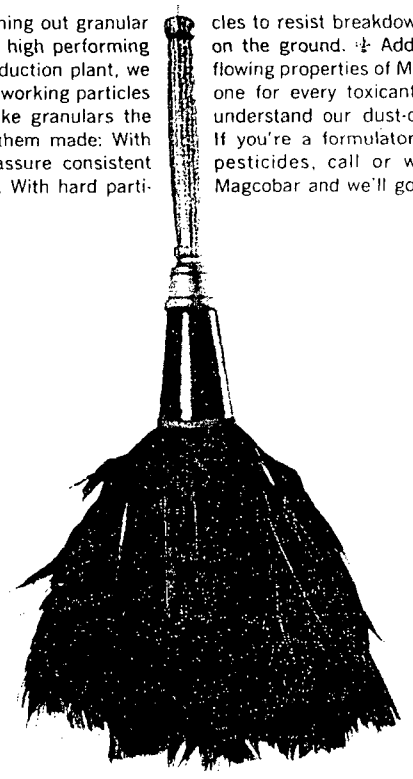
4490 LETHALAIRE V-24. Oil 11.5%, piperonyl butoxide 3.0%, pyrethrins 0.5%-IA-V. Smelt.
4491 LETHANE® 384, 54% beta Butoxy beta' thiocyano diethyl ether-IC-Rohm & Haas
4492 LETHANE® 384 SPECIAL, 13.2% beta Butoxy beta' thiocyano diethyl ether, 40.6% beta thiocyano ethyl esters of aliphatic fatty acide containing 10 to 18 carbon atoms-IC-Rohm & Haas
4493 LETHELIN INSECT REPELLENT CREAM, N, N-diethyl-*meta*-toluamide 12.75%-IR-Lethelin
4494 LIGNASAN® FUNGICIDE, Ethyl mercury phosphate 6.25%-F-DuPont (I & B)
4495 LINCK'S CHELATED IRON-N-Linck
4496 LINCK'S CHICKWEED AND WEED KILLER, Dodecyl ammonium methyl arsonate 8%, octyl ammonium methyl arsonate 8%, octyl ammonium 2,4-D 5.4%-H-Linck
4497 LINCK'S LAWN FUNGICIDE, N-Phenylmercuri-ethylenediamine 10%-F-Linck
4498 LINCK'S WEEDETTE, Triethanolamine 2,4-D 67%-H-Linck
4499 LINDAMITE VAPOR, 2-(*p-tert*-Butoylphenoxy) isopropyl 2'-chloroethyl sulfite 10%, lindane 2%-IA-Edco
LINDANE = GAMMA ISOMER OF BHC, purity 99+%
LINURON = 3-(3,4-DICHLORO-PHENYL)-1-METHOXY-1-METHYLUREA
4499.50 LINDANE-KILCOP DUST NO. 1, Copper 5.3%, lindane 1.5%-FI-Kilgore
4500 LIQUIPHENE APPLE SCAB FUNGICIDE Phenyl mercury acetate 40%-F-Vineland
4501 LIQUIPHENE TURF FUNGICIDE, Phenylmercury acetate 40%-F-Vineland
4502 LITTLE STINKY OUTDOOR FLY TRAPS, DDT 1.65%, parachlorophenyl, parachlorobenzene sulfonate (K101) 1.65%-I-Dioptron
4503 LOFSTRAND INSECTICIDE SPRAYERS, Stainless steel, 1, 2 and 3 gallon.-E-Root Industries
4504 LORENZ ACTIVATED PYRETHRUM KNOCKDOWN CONC., Piperonyl butoxide, pyrethrins-I-Lorenz
4505 LORENZ 11% BHC EMULSIFIABLE CONC.-I-Lorenz
4506 LORENZ 20% CHLORDANE CONC., Chlordane 20%, oil 80%-I-Lorenz
4507 LORENZ 4% CHLORDANE PYRENONE® SPRAY, Chlordane 4%, oil 91%, piperonyl butoxide, pyrethrins-I-Lorenz
4508 LORENZ COLLOIDAL CHLORDANE CONC. (WATER SOLUBLE)-I-Lorenz
4509 LORENZ 30% DDT OIL SOLUBLE CONC., DDT 30%, methylated naphthalenes 30%, oil, xylol 35%-I-Lorenz
4510 LORENZ MALATHION 5-16 PREMIUM EMULS. CONC.-I-Lorenz
4511 LORENZ MALATHION 5-16 PREMIUM OIL SOLUBLE-I-Lorenz
4512 LORENZ TOXAPHENE 60% CONC.-IC-Lorenz
4513 LORENZ WATER EULSIFIABLE CHLORDANE CONC.-I-Lorenz
4514 LORENZ WATER EMULSIFIABLE DDT CONC.-I-Lorenz
4515 LOROX LINURON WEED KILLER, Linuron 50%-H-DuPont (I&B)
4516 LUCIDE A-20, Chlordane 19%-I-Pest Control
4517 LUCIDE D-25, DDT 25%-I-Pest Control
4518 LUCIDE D-30 (oil soluble), DDT 30%-I-Pest Control
4519 LUCIDE L-10 (oil soluble), Lindale 10%-I-Pest Control
4520 LUCIDE LM-10 (emulsifiable) Lindane 10%-I-Pest Control
4521 LUCIDE M-46 (emulsifiable), Chlordane 46% (4 lbs./gal.)-I-Pest Control
4522 LUCIDE M-65 (emulsifiable), Chlordane 65%-I-Pest Control
4523 LUCIDE S-60, Chlordane 60.3%-I-Pest Control
4524 LUCIDE EIGHT, Chlordane 8 lbs./gal.-I-Pest Control
4525 LUMBER LAST WOOD PRESERVATIVE, Chlordane 1%, oil, pentachlorophenol 5%-I-WP-Elco
MAA = METHANEARSONIC ACID
4526 MACK'S ANTI-WEED GUN, Herbicide applicator E-Mack's
4527 MACKWIN FLY GRANULES, 1% Malathion-I-Mackwin
4528 MACKWIN RATOREX, Sulfaquinoxaline, warfarin (0.25% Prolin)-R-Mackwin
4529 MAGCOBAR® GRANULAR PESTICIDE CARRIERS-D-Magnet Cove
4530 MAGIC CIRCLE ANIMAL REPELLENT, Bone tar oil-ANR-S.C. Labs.
4531 MAGIC CIRCLE DEER REPELLENT, Bone tar oil-ANR-S.C. Labs.
4532 MAGIC CIRCLE RABBIT REPELLENT, Thiram-ANR-S.C. Labs.
4533 MAGIKILL ANT & ROACH DUST, Chlordane 5%-I-Lethelin
4534 MAGIKIL JELLY ANT BAIT, Thallium sulfate 1%-IB-Lethelin
4534.30 MAGNETIC 70 PASTE SULFUR-FI-Stauffer
4534.60 MAGNETIC 95 SULFUR-FI-Stauffer
4535 MALACIDE FLY BAIT, Malathion 2%-IB-Woodbury
4536 MALACIDE FLY KILLER, Malathion 57%-I-Woodbury
4537 MALACIDE GRAIN PROTECTANT, Malathion 1%-I-Woodbury
4538 MALAGRAN 5, Malathion 5% (granular)-I-Chapman
4539 MALAGRAN 10, Malathion 10% (granular)-I-Chapman

No Dust on Us!

We're moving too fast, turning out granular carriers for formulators of high performing pesticides. At our own production plant, we control the dust, put more working particles into every bag. ✣ We make granulars the way our customers want them made: With uniform particle size to assure consistent absorption of the toxicant. With hard particles to resist breakdown in the bag but not on the ground. ✣ Add to all this the free-flowing properties of Magcobar granulars — one for every toxicant range — and you'll understand our dust-discouraging activity. If you're a formulator of high performing pesticides, call or write the man from Magcobar and we'll go into motion for you.



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Magcobar INDUSTRIAL PRODUCTS

MAGNET COVE BARIUM CORPORATION

702 Western Savings Fund Bldg., Philadelphia 7, Pa. / P. O. Box 6504 Houston, Texas

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4540 MALASCENT (Reodorant and masking agent for insecticides containing malathion.)-A-Aromatic
4540.50 MALATEC-5 EMULSIFIABLE, Malathion 5 lb./gal. I-Chapman
4541 MALATHION, O,O-dimethyl phosphorodithioate of diethyl mercaptosuccinate or S-(1,2-bis (ethoxycarbonyl)-ethyl), O, O Dimethyl phosphorodithioate-IC-Am. Cyanamid
4542 MALATOL-55, Malathion 55%, oil 45%-I-Chapman
4543 MALATOX, Malathion-I-Dolge
4544 MALA-TOX EMULSIFIABLE CONC., Malathion 57%-I-Hayes-Sammons
4545 MALLINCKRODT BISMUTH SUBSALICYLATE-F-Mallinckrodt
4546 MALLINCKRODT CORROSIVE SUBLIMATE, Mercuric chloride-F-Mallinckrodt
4547 MALLINCKRODT PYRIDYLMERCURIC ACETATE 80%-F-Mallinckrodt
4549 MALRIN 576 FLY KILLER WITH DDVP, Oil, 1,1-dichloro-2, 2-*bis* (*p*-ethylphenyl) ethane, DDVP-IB-Malrin
4550 MALRIN-576 O. S. (Indoor spraying & fogging), Oil, 1,1-dichloro-2, 2-*bis* (*p*-ethylphenyl) ethane, DDVP-IB-Malrin
4551 MALRIN 576 SUGAR BAIT, 1,1-Dichloro-2, 2-bis (p-ethylphenyl) ethane 1.9%, DDVP 0.2%-IB-Malrin
MANEB = MANGANESE ETHYLENE BISDITHIOCARBAMATE
4552 MANGANO, Manganese 55%-N-Andrews
4553 MANZATE® MANEB FUNGICIDE, Manganese ethylene bisdithiocarbamate (maneb) 80%-F-DuPont (I & B) (F & F)
4553.50 "MANZATE"® MANEB FUNGICIDE (80%)-F-DuPont (I&B)
4554 MARASPERSE, Lignosulfonates 80-99%-(Dispersing Agent)-A-Marathon
4555 MARLATE 50 METHOXYCHLOR INSECTICIDE, Methoxychlor 50%-I-DuPont (I & B)
4556 MARLATE 2-MR METHOXYCHLOR INSECTICIDE, Methoxychlor 24% (2 lbs. gal.)-I-DuPont (I & B)
4557 MARTIN'S BENZOL-D-Martin
4558 MARTIN'S BHC WETTABLE POWDER 6, Gamma BHC 5%-I-Martin
4559 MARTIN'S BHC WETTABLE POWDER 12, Gamma BHC 12%-I-Martin
4560 MARTIN'S BOMBANE, SCREW WORM BOMB, EAR TICK BOMB, Lindane 3.15%, pine oil 20%-IA-Martin
4561 MARTIN'S CARBOLIN OIL, Anthracene oil, oil WP-Martin
4562 MARTIN'S CHLORDANE 45%-I-Martin
4563 MARTIN'S CHLORDANE 74%-I-Martin
4564 MARTIN'S 10% CHLORDANE DUST-I-Martin
4565 MARTIN'S CREOSOTE DIP, Coal tar neutral oil, phenols, sopa-I-Martin
4566 MARTIN'S CUBE POWDER 5% ROTENONE, Rotenone 5%, rotenoids 10%-I-Martin
4567 MARTIN'S 50% DDT WETTABLE POWDER-I-Martin
4568 MARTIN'S 25% DDT WHITE EMULSION-I-Martin
4569 MARTIN'S DIP SPRAY (17%-BHC, 33%-DDT)-I-Martin
4570 MARTIN'S D.M.T. 2-4-6 LIVESTOCK SPRAY, DDT, malathion, toxaphene-I-Martin
4571 MARTIN'S EAR TICK BOMBS BOMBANE, Lindane, pine oil-I-Martin
4572 MARTIN'S EAR-TIX-TOX, Gamma BHC 1%, dimethylbenzene, petrolatum, pine oil, pine tar oil-IR-Martin
4573 MARTIN'S FLEA POWDER FOR CATS, Rotenone 1.5%, rotenoids 3%-I-Martin
4574 MARTIN'S LIVESTOCK DUST, Methoxychlor 1[illegible]%, oil 0.43%, piperonyl butoxide 0.51%, pyrethrins 0.06%-I-Martin
4575 MARTIN'S MALATHION 5% DUST-I-Martin
4576 MARTIN'S MALATHION 50% CONCENTRATE-I-Martin
4577 MARTIN'S MAR-DANE 1883 SCREW WORM CONTROL, Benzol 35%, lindane 3%, pine oil 35%-IR-Martin
4578 MARTIN'S MAR-FRIN, Warfarin 0.5%-R-Martin
4579 MARTIN'S MAR-FRIN CONCENTRATE, Warfarin-R-Martin
4580 MARTIN'S MAR-FRIN READY BAIT, Warfarin 0.25%-R-Martin
4581 MARTIN'S M & S CREOSOTE OIL, Creosote oil 100%-WP-Martin
4582 MARTIN'S MULTI-KILL, Chlordane, Chlordane, DDT, oil, pyrethrins-I-Martin
4583 MARTIN'S PET-D-TICK, Lindane, 0.05%, pine oil 3%, rotenone 1%, rotenoids 2%-I-Martin
4584 MARTIN'S PURE ANTHRACENE OIL 100%-WP-I-Martin
4585 MARTIN'S RAT-STOP LIQUID, Thallium sulfate-R-Martin
4586 MARTIN'S ROTENONE LIQUID GRUB SPRAY, Methylated naphthalene 55%, rotenone 5%, rotenoids 10%-I-Martin
4587 MARTIN'S 20% SABADILLA DUST, Sabadilla alkaloids 0.8%-I-Martin

4588 MARTIN'S SCREW WORM KILLER LIQUID, Benzol, diphenylamine, pine oil, rosin soap-IR-Martin
4589 MARTIN'S SCREW WORM SMEAR U. S. FORMULA NO. 62, Benzol 35%, diphenylamine 25%, turkey red oil 7.5%-IR-Martin
4590 MARTIN'S SHUR-EASE SPRAY, Di-*n*-butyl succinate 0.5%, oil 99.45%, pyrethrins 0.05%-I-Martin
4591 MARTIN'S SMEAR 70, Bone oil, lindane 3%, petrolatum, pine tar oil, rosin-IR-Martin
4592 MARTIN'S STOCK-TOX, Oil 23%, toxaphene 65%-I-Martin
4593 MARTIN'S SUPER STOCK-TOX, Gamma BHC 2.5%, toxaphene 62%-I-Martin
4594 MARTIN'S U.S. E.Q. 335 SCREW WORM REMEDY, Lindane 3%, oil 42%, pine oil 35%-IR-Martin
4595 MARTIN'S WHITE TECOLE, Bone oil-ANR-Martin
4596 MARTINDALE EYE PROTECTORS-E-Martindale Elec. Co.
4597 MARTINDALE PROTECTIVE EYESHIELD-E-Martindale Elec. Co.
4598 MARTINDALE PROTECTIVE MASKS-E-Martindale Elec. Co.
4599 MASTER BRAND ALDRIN COTTON DUSTS-I-Stevens Ind.
4600 MASTER BRAND ALDRIN-DDT COTTON DUSTS-I-Stevens Ind.
4601 MASTER BRAND ALDRIN 25% DUST-I-Stevens Ind.
4602 MASTER BRAND ALDRIN 20% GRANULAES-I-Stevens Ind.
4603 MASTER BRAND ALDRIN 2 LB. SPRAY-I-Stevens Ind.
4604 MASTER BRAND ALDRIN 4 LB. SPRAY-I-Stevens Ind.
4605 MASTER BRAND ANT KILLER, Heptachlor 5%-I-Stevens Ind.
4606 MASTER BRAND BHC COTTON DUSTS-I-Stevens Ind.
4607 MASTER BRAND BHC-DDT COTTON DUSTS-I-Stevens Ind.
4608 MASTER BRAND BHC-DDT-MALATHION COTTON DUSTS-I-Stevens Ind.
4609 MASTER BRAND BHC-DDT-SULFUR COTTON DUSTS-FI-Stevens Ind.
4610 MASTER BRAND BHC 6% WETTABLE-I-Stevens Ind.
4611 MASTER BRAND CALCIUM ARSENATE-I-Stevens Ind.
4612 MASTER BRAND CATTLE GRUB DUST, Rotenone 5%-I-Stevens Ind.
4613 MASTER BRAND CHLORDANE 10% DUST-I-Stevens Ind.
4614 MASTER BRAND CHLORDANE 40% DUST-I-Stevens Ind.
4615 MASTER BRAND CHLORDANE 20% GRANULES-I-Stevens Ind.
4616 MASTER BRAND CHLORDANE 40% SPRAY-I-Stevens Ind.
4617 MASTER BRAND CHLORDANE 75% SPRAY-I-Stevens Ind.
4618 MASTER BRAND CHLORDANE 40% WETTABLE POWDER-I-Stevens Ind.
4619 MASTER BRAND 10% COPPER-SULPHUR PEANUT DUST-FI-Stevens Ind.
4620 MASTER BRAND 2-4D LIQUID (4 lb. acid equiv. low volatile)-H-Stevens Ind.
4621 MASTER BRAND 10% DDT DUST-I-Stevens Ind.
4622 MASTER BRAND 50% DDT BASE-IC-Stevens Ind.
4623 MASTER BRAND DDT-COPPER-SULFUR PEANUT DUSTS-FI-Stevens Ind.
4624 MASTER BRAND DDT 10% GRANULES-I-Stevens Ind.
4625 MASTER BRAND DDT-METHYL PARATHION COTTON DUSTS-I-Stevens Ind.
4626 MASTER BRAND 5% DDT PEANUT DUST-I-Stevens Ind.
4627 MASTER BRAND 10% DDT PEANUT DUST-I-Stevens Ind.
4628 MASTER BRAND 5 and 10% DDT-SULFUR PEANUT DUSTS-I-Stevens Ind.
4629 MASTER BRAND DDT-TOXAPHENE COTTON DUSTS-I-Stevens Ind.
4630 MASTER BRAND 25% DDT SPRAY-I-Stevens Ind.
4631 MASTER BRAND 2 LB. DDT SPRAYS, With xylene or aromatic oil solvent-I-Stevens Ind.
4632 MASTER BRAND DDT 2 LB. SPRAY (PETROLEUM DISTILLATES)-I-Stevens Ind.
4633 MASTER BRAND 25% DDT SPRAY (XYLENE)-I-Stevens Ind.
4634 MASTER BRAND 50% DDT WETTABLE POWDER-I-Stevens Ind.
4635 MASTER BRAND 1% DIELDRIN DUST-I-Stevens Ind.
4636 MASTER BRAND 2% DIELDRIN DUST-I-Stevens Ind.
4637 MASTER BRAND DIELDRIN COTTON DUSTS-I-Stevens Ind.
4638 MASTER BRAND 25% DIELDRIN DUST BASE-I-Stevens Ind.
4639 MASTER BRAND DIELDRIN-DDT COTTON DUSTS-I-Stevens Ind.
4640 MASTER BRAND 2% DIELDRIN GRANULES-I-Stevens Ind.
4641 MASTER BRAND 5% DIELDRIN GRANULES-I-Stevens Ind.
4642 MASTER BRAND 10% DIELDRIN GRANULES-I-Stevens Inc.
4643 MASTER BRAND DIELDRIN SPRAY, Dieldrin 1.6 lb./gal.-I-Stevens Ind.
4644 MASTER BRAND 1-½LB. DIELDRIN SPRAY-I-Stevens Ind.
4645 MASTER BRAND 25% DIELDRIN WETTABLE POWDER-I-Stevens Ind.
4646 MASTER BRAND DITHANE® 12, Zineb-F-Stevens Ind.
4647 MASTER BRAND DITHANE® 16, Zineb-F-Stevens Ind.
4648 MASTER BRAND DITHANE® Z-78, Zineb-F-Stevens Ind.

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4649 MASTER BRAND ENDRIN COTTON DUSTS-I-Stevens Ind.
4650 MASTER BRAND ENDRIN-DDT COTTON DUSTS-I-Stevens Ind.
4651 MASTER BRAND 1.6 LB. ENDRIN-2 LB. DDT SPRAY-I-Stevens Ind.
4652 MASTER BRAND 1.6 LB. ENDRIN-1.6 LB. METHYL PARATHION SPRAY-I-Stevens Ind.
4653 MASTER BRAND 1.6 LB. ENDRIN SPRAY-I-Stevens Ind.
4654 MASTER BRAND 25% HEPTACHLOR DUSTS-Stevens Ind.
4655 MASTER BRAND 5% HEPTACHLOR GRANULES-I-Stevens Ind.
4656 MASTER BRAND 10% HEPTACHLOR GRANULES-I-Stevens Ind.
4657 MASTER BRAND 20% HEPTACHLOR GRANULES-I-Stevens Ind.
4658 MASTER BRAND HEPTACHLOR 2 LB. SPRAY-I-Stevens Ind.
4659 MASTER BRAND HOUSEHOLD INSECT BOMB, Methoxychlor, piperonyl butoxide, pyrethrins-IA-Stevens Ind.
4660 MASTER BRAND LIVESTOCK SPRAY, Malathion 5 lb./gal.-I-Stevens Ind.
4661 MASTER BRAND 5% MALATHION DUST-I-Stevens Ind.
4662 MASTER BRAND 10% MALATHION DUST-I-Stevens Ind.
4663 MASTER BRAND MALATHION-DDT COTTON DUSTS-I-Stevens Ind.
4664 MASTER BRAND 5% MALATHION DUST PREMIUM GRADE-I-Stevens Ind.
4665 MASTER BRAND 57% MALATHION SPRAY PREMIUM GRADE-I-Stevens Ind.
4666 MASTER BRAND 5 LB. MALATHION SPRAY-I-Stevens Ind.
4667 MASTER BRAND MALATHION-TOXAPHENE COTTON DUSTS-I-Stevens Ind.
4668 MASTER BRAND METHYL PARATHION COTTON DUSTS, O,O-Diemthyl O-p-nitrophenyl phosphorothioate-I-Stevens Ind.
4669 MASTER BRAND METHYL BROMIDE PEANUT FUMIGANT-IF-Stevens Ind.
4670 MASTER BRAND METHYL BROMIDE SOIL FUMIGANT-IF-Stevens Ind.
4671 MASTER BRAND 30% NEMAGON® GRANULES, 1,2-Dibromo-3-chloropropene-IF-Stevens Ind.
4672 MASTER BRAND 50% NEMAGON® SPRAY, 1,2-Dibromo-3-chloropropene-IF-Stevens Ind.
4673 MASTER BRAND 2% PHOSDRIN® DUST, 2-Carbomethoxy-1-propen-2yl-dimethyl phosphate-I-Stevens Ind.
4674 MASTER BRAND 2 LB. PHOSDRIN® SPRAY, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate-I-Stevens Ind.
4675 MASTER BRAND RAT BAIT, Coumafuryl-R-Stevens Ind.
4676 MASTER BRAND 0.75% ROTENONE DUST-I-Stevens Ind.
4677 MASTER BRAND 1% ROTENONE DUST-I-Stevens Ind.
4678 MASTER BRAND 5% ROTENONE DUST-I-Stevens Ind.
4679 MASTER BRAND 20% SABADILLA DUST-I-Stevens Ind.
4680 MASTER BRAND SULPHUR PEANUT DUST-FI-Stevens Ind.
4681 MASTER BRAND TOMATO DUST M, Maneb 6%, TDE 5%-FI-Stevens Ind.
4682 MASTER BRAND 20% TOXAPHENE DUST-I-Stevens Ind.
4683 MASTER BRAND TOXAPHENE COTTON DUSTS-I-Stevens Ind.
4684 MASTER BRAND 5% TOXAPHENE GRANULES-I-Stevens Ind.
4685 MASTER BRAND 10% TOXAPHENE GRANULES-I-Stevens Ind.
4686 MASTER BRAND TOXAPHENE-SULFUR COTTON DUSTS-FI-Stevens Ind.
4687 MASTER BRAND WARFARIN READY MIX BAIT-R-Stevens Ind.
4688 MATHIESON ALDRIN 4 LB. EMUL., Aldrin equivalent 42.8%-I-Mathieson
4689 MATHIESON ALDRIN 20% GRANULAR-I-Mathieson
4690 MATHIESON AMINE 40 WEED KILLER, Dimethyl amine salt 2,4-D 49.4% (acid equiv. 41%)-H-Mathieson
4691 MATHIESON BHC 3% DUST-I-Mathieson
4692 MATHIESON BHC TECHNICAL HI-GAMMA 40%, other isomers 60%-IC-Mathieson
4693 MATHIESON BHC TECHNICAL LO-GAMMA 14%, other isomers 86%-IC-Mathieson
4694 MATHIESON BHC-12% W P, Other isomers 18%-I-Mathieson
4695 MATHIESON BUTYL ESTER D6 WEED KILLER, Butyl ester 2,4-D 77% (Acid equiv. 61.5%)-H-Mathieson
4696 MATHIESON CHLORDANE 10% DUST-I-Mathieson
4697 MATHIESON CHLORDANE 40% WETTABLE POWDER-I-Mathieson
4698 MATHIESON 3-5-0 COTTON DUST (BHC-DDT), Gamma BHC 3%, DDT 10%-I-Mathieson
4699 MATHIESON 3-5-40 COTTON DUST (BHC-DDT-SULPHUR), Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Mathieson
4700 MATHIESON 3-10-0 COTTON DUST (BHC-DDT), Gamma BHC 3%, DDT 5%-I-Mathieson
4701 MATHIESON 3-10-40 COTTON DUST (BHC-DDT-SULPHUR), Gamma BHC 3%, DDT 10%, sulfur 40%-Mathieson
4702 MATHIESON DDT 10% DUST-I-Mathieson
4703 MATHIESON DDT 2 LB. EMUL. CONC., DDT 25%-I-Mathieson

4704 MATHIESON DDT TECHNICAL-IC-Mathieson
4705 MATHIESON DIELDRIN 2½%-DDT 10% DUST-I-Mathieson
4706 MATHIESON DIELDRIN 2½ DUST-I-Mathieson
4707 MATHIESON DIELDRIN 1.5 LB. EMUL., Dieldrin equivalent 19%-I-Mathieson
4708 MATHIESON DIELDRIN 50% WETTABLE POWDER, Dieldrin 42.5%-I-Mathieson
4709 MATHIESON ENDRIN 1.6 LBS. EMUL., Endrin 19.8%-I-Mathieson
4710 MATHIESON HEPTACHLOR 2½ DDT 5% DUST-I-Mathieson
4711 MATHIESON HEPTACHLOR 3 LB. EMUL., Heptachlor 32.6%, Related Compounds 12%-I-Mathieson
4712 MATHIESON HEPTACHLOR 2-½%, DDT 10%, SULPHUR 40% DUST-FI-Mathieson
4713 MATHIESON MALATHION 5% DUST-I-Mathieson
4714 MATHIESON HEPTACHLOR 10% DUST-I-Mathieson
4715 MATHIESON MALATHION 5 LBS. EMUL., Malathion 57%-I-Mathieson
4716 MATHIESON MALTHION 25W. Malathion 25%-I-Mathieson
4717 MATHIESON PARATHION 2%-DDT 5% DUST-I-Mathieson
4718 MATHIESON PARATHION 1% DUST-I-Mathieson
4719 MATHIESON PARATHION 2% DUST-I-Mathieson
4720 MATHIESON PARATHION 2 LB. EMUL., Parathion 25.4%-I-Mathieson
4721 MATHIESON PARATHION 15% WETTABLE POWDER-I-Mathieson
4722 MATHIESON PHYTOMYCIN, Streptomycin nitrate 20%-F-antibiotic -Mathieson
4723 MATHIESON TDE (DDD) 10% DUST-I-Mathieson
4724 MATHIESON TDE (DDD) 50% WETTABLE POWDER-I-Mathieson
4725 MATHIESON TERRACAP 10-10 DUST, Pentachloronitrobenzene 10%, captan 10% I-Mathieson
4726 MATHIESON TERRACLOR® 75% WETTABLE POWDER, Pentachloronitrobenzene 75%-F-Mathieson
4727 MATHIESON TERRACLOR® 2 LB. EMUL. CONC., Pentachloronitrobenzene 24%-F-Mathieson
4728 MATHIESON TERRACLOR® 10% DUST, Pentachloronitrobenzene 10%-F-Mathieson
4729 MATHIESON TERRACLOR® 20% DUST, Pentachloronitrobenzene 20%-F-Mathieson
4730 MATHIESON TERRACLOR® 40% DUST, Pentachloronitrobenzene 40%-F-Mathieson
4731 MATHIESON TOXAPHENE — DDT 4-2 EMUL., Toxaphene 39.5%, DDT 19.7%-I-Mathieson
4732 MATHIESON TOXAPHENE 20% DUST-I-Mathieson
4733 MATHIESON TOXAPHENE 6 LB. EMUL. LIQUID, Toxaphene 58.8%-I-Mathieson
4734 MATHIESON WETTABLE SULPHUR, Sulfur 98%-FI-Mathieson
MCP = 2-METHYL-4-CHLOROPHENOXYACETIC ACID
4735 MECOPEX, Potassium salt of MCPP [2-(2-methyl-4-chlorophenoxy) propionic acid 31.5%]-Morton
4735.50 MELSAN® FUNGICIDE, Ethyl mercury phosphate 1.56%, sodium pentachlorophenate 38.6%, sodium salts of other chlorophenols 5.4%-WP-DuPont (I & B)
4736 MEMA, Methoxy ethyl mercury acetate 11.4% (equiv. to 0.6 lb. mercury/gal.)-ST-Chipman
4737 MENDOK®, Sodium *alpha, beta*-dichloroisobutyrate, Rohm & Haas
4738 MERBAM 10, Phenyl mercury dimethyldithiocarbamate equiv. to 5% metallic mercury F-Chipman
4738.50 MERCURAM, Malachite Green 3.30%, Phenyl mercury dimethyl dithiocarbamate 4.50%, thiram 75%-F-Vineland
4739 MERGAMMA, Gamma BHC 40%, phenyl mercury urea 1.93%-ST-Chipman
4740 MERGAMMA C, Gamma BHC 30%, ethyl mercury chloride 0.4% (mercury equiv. 2%), phenyl mercury acetate 2.86%-ST-Chipman (Can.)
4741 MERGAMMA LIQUID, Heptachlor 2.5 lbs./Imp. gal., methylmercury dicycandiamide 0.75%-ST-Chipman (Can.)
4741.50 DR. MERRICK'S SCRATCHEX FLEA TICK FUNGUS SPRAY, Pyrethrins 0.04%, piperonyl butoxide 0.1%, lindane 0.1%, hexachlorophene (2,2'-methylenebis (3,4,6-trichlorophenol 0.3%, 2-mercapto-benzothiazole 0.9%, oil 10%-FI-Westchester Vet. Prod.
MERPHOS=TRIBUTYL PHOSPHOROTRITHIOATE
4742 MERSECT® ALDRIN SEED INSECTICIDE, Aldrin 43.7%, aromatic petroleum derivatives 48.1%-ST-DuPont (I & B)
4743 MERSOLITE-8, Phenyl mercuric acetate 97.5%-F-Wood Ridge
4744 MERSOLITE 810, 10% Phenylmercuric acetate-F-Wood Ridge
4745 MERSOLITE 830, 30% Phenylmercuric acetate-F-Wood Ridge
4746 MERSOLITE-W, Phenyl mercuric acetate wettable 96.5%-F-Wood Ridge

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4747 MESSINGER DUST MIXERS-E-Tatamy
4748 MESSINGER FIELD DUSTER-E-Tatamy
4749 MESSINGER FIELD SPRAYERS-E-Tatamy
4750 MESSINGER HAND DUSTER-E-Tatamy
4751 MESSINGER ORCHARD DUSTER-E-Tatamy
4752 MESSINGER ORCHARD SPRAYERS-E-Tatamy
4753 METADELPHENE T, Deet-IR-Hercules
4754 METAG AGRICULTURAL BAIT (PELLETS), Calcium arsenate 5.16%, metaldehyde 1.5%-IB-Calif. Chem.
4755 METASOL 7, Phenylmercuric acetate 7%-ST-Metalsalts
4756 METASOL 10 (for turf) Phenylmercuric acetate 10%-F-Metalsalts
4757 METASOL BI-CAL, Mercuric chloride-mercurous chloride, 90%-F-Metalsalts
4758 METASOL EMCL, Ethylmercury chloride-ST-Metalsalts
4759 METASOL MMH CONCENTRATE, Methylmercury-8-hydroxyquinolinate 7.5%-ST-Metalsalts
4760 METASOL MMH-POWDER, Methylmercury-8-hydroxyquinolinate 0.8%-ST-Metalsalts
4761 METASOL MMH-POWDER CONCENTRATE, Methylmercury-8-hydroxyquinolinate 3.2%-ST-Metalsalts
4762 METASOL MMH REGULAR, Methylmercury-8-hydroxyquinolinate 2.25%-ST-Metalsalts
4763 METASOL MMOH, Methylmercury hydroxide 18%, ST-Metalsalts
4764 METASOL THIRAM 75%-F-Metalsalts
4765 METASOL THIRAM-MERCURY-F-Metalsalts
4783 METHAR, Disodium monoethylarsonate pentahydrate 75%-H-Cleary
4784 METHAR 30 (Liquid), Disodium monomethylarsonate hexahydrate 30%-H-Cleary
4785 METHAR 50 (Powder), Disodium monomethylarsonate hexahydrate 50%-H-Cleary
4786 METHOXLIN INSECT SPRAY, Lindane 0.5%, methoxychlor 3%-I-Cont. Chem.
4787 METHOXONE, Sodium salt of MCP equiv. to 2 lbs./gal.-H-Chipman
4787.50 METHOXONE "B", Sodium salt of 4-(2-methyl-4-chlorophenoxy) butyric acid-H-Chipman
4788 METHOXONE (MCP) AMINE 64, MCP acid equiv. 64 oz./Imp. gal.-H-Chipman (Can.)
4789 METHOXONE-CHLORAX LIQUID, MCP 0.2%, sodium chlorate 16.3%, sodium metaborate 9.1%-H-Chipman
4790 METHOXONE (MCP) ESTER 80, MCP acid equiv. 80 oz./Imp. gal.-H-Chipman (Can.)
4791 METHOXONE 2L, Dimethylamine salt of MCP contains 2 lbs./gal.-H-Chipman
4792 METHOXONE 4L, MCP 4 lbs./gal.-H-Chipman
4793 METHOXONE (MCP) SODIUM 48, MCP acid equiv. 48 oz./Imp. gal.-H-Chipman (Can.)
1-METHOXYCARBONYL-1-PROPEN-2-YL-DIMETHYL PHOSPHATE see 2-CARBOMETHOXY-1-PROPEN-2YL-DIMETHYL PHOSPHATE (PHOSDRIN®)
METHOXYCHLOR = 1,1,1-TRICHLORO-2,2-*Bis*-(*p*-METHOXYPHENYL) ETHANE
4794 METHYL BROMIDE 100%-IF-Dow
METHYL DEMETON = O,O-DIMETHYL S and O (2-ETHYLTHIO) ETHYL PHOSPHOROTHIOATES
4795 METHYL PARATHION, TECH. 80% O, O-dimethyl O,O-*p*-nitrophenyl thiophosphate, xylene 20%-IC-Velsicol
4797 MEXIDE DUST, Rotenone 1%, rotenoids 2%-FI-Woolfolk
4798 MEYERKIL, Warfarin .025%-R-Theo. Meyer
4799 MEYER'S LINDANE SPRAY, Lindane 0.5%-I-Theo. Meyer
4800 MEYER'S MIX POWDER, Pyrethrums 0.12% sodium fluoride 69.12%-I-Theo. Meyer
4801 MEYER'S RAPID ROACH SPRAY, Piperonyl butoxide, oil, pyrethrins-I-Theo. Meyer
4802 MFG MOLDED FIBER GLASS TANKS (For storage and handling of pesticides, fertilizers, etc.-E-Molded Fiber Glass Co.
4803 MGK ALLETHRIN 2.5% CONC.-IC-McLaughlin
4804 MGK ALLETHRIN 20% CONC.-IC-McLaughlin
4805 MGK ALLETHRIN 90% CONC.-IC-McLaughlin
4807 MGK CONCENTRATE 933, Oil 90.5%, pyrethrins 1.5%, piperonyl butoxide 3.0%, *n*-octyl bicycloheptene dicarboximide 5.0%-IC-McLaughlin
4808 MGK DIPTEREX® WATER SOLUBLE POWDER, Trichlorofon 80%-I-McLaughlin
4809 MGK 264 INSECTICIDE SYNERGIST, N-Octyl bicycloheptene dicarboximide. Also called N-(2-ethylhexyl) bicyclo [2.2.1] 5-heptene-2,3-dicarboximide-A-IC-McLaughlin
4810 MGK INTERMEDIATE 10, Allethrin 15%, N-octyl bicycloheptene dicarboximide 75%, oil 10%-IC-McLaughlin

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- NO WASTE
- NO LABOR

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4811 MGK REPELLENT 11, 2,3,4,5-Bis ($\Delta_9$butylene) tetrahydrofurfural. Also called 1,5a,6,9,9a, 9b-hexahydro-4a (4H)-dibenzofuranecarboxaldehyde-IR-McLaughlin
4812 MGK REPELLENT 326, Di-n-propyl isocinchomeronate-IR-McLaughlin
4813 MGK REPELLENT 874, 2-Hydroxy-n-octyl sulfide-IR-McLaughlin
4814 MGK TECH. PIPERONYL BUTOXIDE, (Butyl carbityl) (6-propyl piperonyl) ether, 80%, related compounds 20%-A-McLaughlin
4815 MH-30, Diethanolamine salt of maleic hydrazide 58%-H-U.S. Rubber (Naugatuck)
4816 MH 30 EMULSIVE, Maleic hydrazine 30%-H-Calif. Chem.
4816.50 MH®-30T, Diethanolamine salt of maleic hydrazide 59%-PH-U. S. Rubber (Naugatuck)
4817 MICE DOOM PELLETS, Strychnine-R-Murray
4818 MICRO-CEL, Snythetic calcium silicate, inert absorbent carrier and grinding aid-D-Johns-Manville
4819 MICRO-FLOTOX DUSTING SULFUR, Sulfur 100%-FI-Calif. Chem.
4820 MICRO-FLOTOX WETTABLE SULFUR, Sulfur 95%-FI-Calif. Chem.
4821 MICROGEL, Copper 50% (as basic sulfate)-F-Chem. Corp.
4822 MICROSOL FOG GENERATORS-E-Silver Creek
4823 MIKRO-AIRACON (Pesticide conveying equip.)-E-Pulverizing Mach.
4824 MIKRO-ATOMIZER (Pesticide grinding equip.)-E-Pulverizing Mach.
4825 MIKRO-BUD (Pesticide grinding equip.)-E-Pulverizing Mach.
4826 MIKRO-COLLECTOR (Pesticide dust collecting equip.)-E-Pulverizing Mach.
4827 MIKRO-CRUSHER (Pesticide grinding equip.)-E-Pulverizing Mach.
4828 MIKRO-PULSAIRE (Pesticide collecting & conveying equip.)-E-Pulverizing Mach.
4829 MIKRO-PULVERIZER (Pesticide grinding equip.)-E-Pulverizing Mach.
4830 MILDEX®, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 25% WP-F-Nott
4831 MILFUSO AEROSOL INSECT SPRAY, Piperonyl butoxide, pyrethrins-IA-Milfred
4832 MILFUSO EMULSIFIABLE DAIRY SPRAY CONCENTRATE, Butoxypolypropylene glycol, piperonyl butoxide, pyrethrins-I-Milfred
4833 MILFUSO PYRENONE®-TYPE DAIRY SPRAY WATER SOLUBLE CONCENTRATE, Piperonyl butoxide, pyrethrins-I-Milfred
4834 MILFUSO NO. 200 RESIDUAL INSECT SPRAY, Chlordane, piperonyl butoxide, pyrethrins-I-Milfred
4835 MILLER ALDRIN #2 E. C.-I-Miller Chem. Fert.
4836 MILLER ALDRIN 4% GRANULES-I-Miller Chem. Fert.
4837 MILLER ALDRIN 20% GRANULES-I-Miller Chem. Fert.
4838 MILLER ANTIBIOTIC SPRAY POWER, Streptomycin 8.5%-FI-Antibiotic-Miller Chem. Fert.
4838.50 MILLER'S ARAMITE 15W, 15% 2-(*p*-Tert-butylphenoxy) isopropyl-2-chloroethyl sulfite-I-Miller Prods.
4839 MILLER ARAMITE® 15% WETTABLE POWDER, 2-(*p-tert*-Butylphenoxyl) isopropyl 2'-chloroethyl sulfite-I-Miller Chem. Fert.
4840 MILLER ARSENATE OF LEAD-I-Miller Chem. Fert.
4841 MILLER BEAN & VEGETABLE DUST, DDT 4%, rotenone 50%, sulfur 25%-FI-Miller Chem. Fert.
4842 MILLER BHC (10% GAMMA ISOMER)-I-Miller Chem. Fert.
4843 MILLER BHC DUST (1.5% GAMMA ISOMER)-I-Miller Chem. Fert.
4844 MILLER CAPTAN DUST 7-¼%-F-Miller Chem. Fert.
4845 MILLER CHLORDANE #8-72%-I-H-Miller Chem. Fert.
4846 MILLER CHLORDANE 6% DUST-I-Miller Chem. Fert.
4847 MILLER CHLORDANE 10% GRANULAR-I-Miller Chem. Fert.
4848 MILLER CHLORDANE 40% W.P.-I-Miller Chem. Fert.
4849 MILLER 5% CIPC GRANULAR WEEDKILLER-H-Miller Chem. Fert.
4950 MILLER 2,4-D AMINE 40% (LIQUID WEEDAWAY), 49.8 Dimethyl amine salt of 2,4-D or 4 lb. of 2,4-D)-H-Miller Chem. Fert.
4851 MILLER 2,4-D 2,4,5-T AMINE BRUSHKILLER, 2# 2,4-D plus 2# 2,4,5-T acid equivalent per gal.-H-Miller Chem. Fert.
4852 MILLER DDT 25% E. C. (Xylene solvent)-I-Miller Chem. Fert.
4853 MILLER DDT 7½% GRANULAR-I-Miller Chem. Fert.
4854 MILLER DDT 50% W. P.-I-Miller Chem. Fert.
4855 MILLER DE-ODORIZED MALATHION 53% (Veterinarians and exterminators' use)-I-Miller Chem. Fert.
4856 MILLER DIELDRIN 1½% DUST-I-Miller Chem. Fert.
4857 MILLER DIELDRIN 1.5% E. C.-I-Miller Chem. Fert.
4858 MILLER DIELDRIN 2% GRANULAR-I-Miller Chem. Fert.
4859 MILLER DIELDRIN 5% GRANULAR-I-Miler Chem. Fert.
4860 MILLER DIELDRIN 10% GRANULAR-I-Miller Chem. Fert.
4861 MILLER DIELDRIN #2 N. E.-I-Miller Chem. Fert.
4862 MILLER DIELDRIN 50% WETTABLE POWDER-I-Miller Chem. Fert.

Electron micrograph showing plate-like Micro-Cel E structure.

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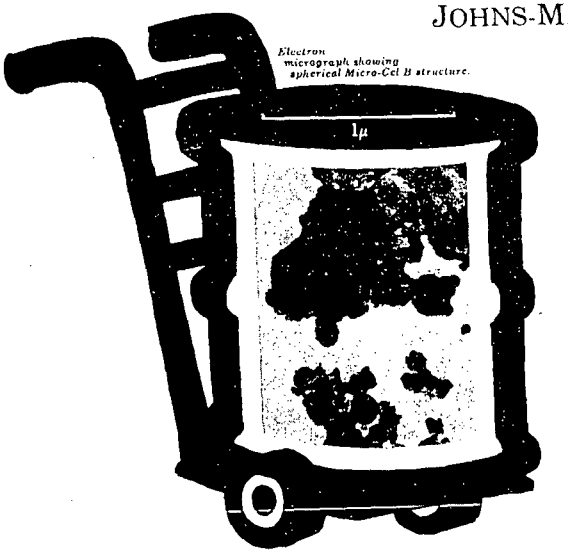

Electron micrograph showing spherical Micro-Cel B structure.

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4863 MILLER DUO COPPER, Basic copper (copper 53%)-F-Miller Chem. Fert.
4864 MILLER 658 DUST-F-Miller Chem. Fert.
4865 MILLER 6% 658 DUST-F-Miller Chem. Fert.
4866 MILLER ENDRIN 1% DUST-I-Miller Chem. Fert.
4867 MILLER ENDRIN 1%-5% "658" DUST-I-Miller Chem. Fert.
4868 MILLER ENDRIN 1.6 E. C.-I-Miller Chem. Fert.
4869 MILLER ENDRIN 75% W. P.-I-Miller Chem. Fert.
4870 MILLER FERBAM FUNGICIDE 75% WETTABLE POWDER-F-Miller Chem. Fert.
4871 MILLER FLY AWAY DAIRY SPRAY (READY TO USE), Pyrethrins, piperonyl butoxide, oil-I-Miller Chem. Fert.
4872 MILLER FOOD PROCESSORS' INSECT SPRAY (READY TO USE), Pyrethrins, piperonyl butoxide, oil-I-Miller Chem. Fert.
4873 MILLER HEPTACHLOR #2 E. C.-I-Miller Chem. Fert.
4874 MILLER HEPTACHLOR 2½% GRANULAR-I-Miller Chem. Fert.
4875 MILLER HEPTACHLOR 20% GRANULAR-I-Miller Chem. Fert.
4876 MILLER KILL ALL 40% SODIUM ARSENITE 4 lb./gal.-H-Miller Chem. Fert.
4877 MILLER KILL ALL 76% SODIUM ARSENITE, Contains 10 lb. active ingredient per gal.-H-Miller Chem. Fert.
4878 MILLER KILMITE 40 (40% TEPP)-I-Miller Chem. Fert.
4879 MILLER KILMITE DUST (1% TEPP)-I-Miller Chem. Fert.
4880 MILLER KWIK-TOX INSECT DUST, Malathion 1%-I-Miller Chem. Fert.
4881 MILLER KWIK-TOX INSECT SPRAY, Malathion 25%, methoxychlor 25%-I-Miller Chem. Fert.
4882 MILLER KWIK-TOX SULPHUR (WETTABLE), Sulfur 95%-FI-Miller Chem. Fert.
4883 MILLER LIME SULPHUR SOLUTION (32° Baume), 29% calcium polysulfides-FI-Miller Chem. Fert.
4884 MILLER MALATHION 55% E. C.-I-Miller Chem. Fert.
4885 MILLER MALATHION "8" LIQUID (8 lbs./gal.)-I-Miller Chem. Fert.
4886 MILLER MALATHION 90% N. E. (OIL BASE)-IC-Miller Chem. Fert.
4887 MILLER MALATHION 25% WETTABLE POWDER-I-Miller Chem. Fert.
4888 MILLER 4.2% MANEB DUST-F-Miller Chem. Fert.
4889 MILLER METHOXYCHLOR 50% W.P.-I-Miller Chem. Fert.
4890 MILLER MICO FUME 25-D (MYLONE®) (Soil Fumigant), 3,5-Dimethyltetrahydro-1,3,5,2H-thiadizine-2-thione 25.5%-IF-Miller Chem. Fert.
4891 MILLER NEMAGON® #2 E. C., 1,2-Dibromo-3-chloropropane-IF-Miller Chem. Fert.
4892 MILLER NEMAGON® 10% GRANULAR, 1,2-Dibromo-3-chloropropane-IF-Miller Chem. Fert.
4893 MILLER NEMAGON® 25% GRANULAR, 1,2-Dibromo-3-chloropropane-IF-Miller Chem. Fert.
4894 MILLER NU FILM-A-Miller Chem. Fert.
4895 MILLER NU SET (HORMONE SPRAY), 2,4,5-Trichlorophenoxy propionic acid-PH-Miller Chem. Fert.
4896 MILLER NU TONE (HORMONE SPRAY), Naphthaleneacetic acid 4 gms.-PH-Miller Chem. Fert.
4897 MILLER NUTRU-LEAF "60" SOLUBLE FERTILIZER, Elements and hormones-N-PH-Miller Chem. Fert.
4898 MILLER ORTAZOL POWDER, Dinitro *ortho* cresol 40%-FI-Miller Chem. Fert.
4899 MILLER PARATHION 25% E. C.-I-Miller Chem. Fert.
4900 MILLER PARATHION "8" LIQUID-8 lbs./gal.-I-Miller Chem. Fert.
4901 MILLER PARATHION 2%-95% OIL #70 E. C.-I-Miller Chem. Fert.
4902 MILLER PARATHION 15% W.P.-I-Miller Chem. Fert.
4903 MILLER PENTACHLOROPHENOL 40% (40% Non-emulsifiable conc.)-WP-Miller Chem. Fert.
4904 MILLER PENTACHLOROPHENOL 10% E. C.-WP-H-Miller Chem. Fert.
4905 MILLER PERTHANE® 5% DST, 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ethane-I-Miller Chem. Fert.
4906 MILLER PERTHANE® 4 E. C., 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ethane-I-Miller Chem. Fert.
4907 MILLER 4# PERTHANE®-4# MALATHION 1. C., 1,1-Dichloro-2,2-bis (*p*-chlorophenyl) ethane, malathion-I-Miller Chem. Fert.
4908 MILLER PHOSDRIN® # E. C., 2-Carbomethoxyl 1-propen-2yl dimethyl phosphate-I-Miller Chem. Fert.
4909 MILLER 1% ROTENONE DUST-I-Miller Chem. Fert.
4910 MILLER ROTENONE 4% WETTABLE POWDER-I-Miller Chem. Fert.
4911 MILLER SCALE TOX, Superior type oil 97%-I-Miller Chem. Fert.
4912 MILLER 1.75 SEVIN® DUST, 1.75% 1-Naphthyl N-methylcarbamate-I-Miller Chem. Fert.
4913 MILLER 3% SEVIN® DUST, 3% 1-Naphthyl N-Methylcarbamate-I-Miller Chem. Fert.

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4915 MILLER 10% SEVIN® DUST, 10% 1-Naphthyl N-Methylcarbamate-I-Miller Chem. Fert.
4916 MILLER SEVIN® 50% W.P., 50% 1-Naphthyl N-Methylcarbamate-I-Miller Chem. Fert.
4917 MILLER SUPERIOR NU-OIL, Miscible superior type oil 97.5%-70 Sec. Vis.-I-Miller Chem. Fert.
4918 MILLER TDE 5% DUST-I-Miller Chem. Fert.
4919 MILLER THIODAN® #2,6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,7-methane-2,4,3-benzodioxathiepin-3-oxide, 2 lbs./gal.-I-Miller Chem. Fert.
4920 MILLER 3% THIODAN® DUST, 6,7,8,9,10,10-Hexachloro-1,,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-Miller Chem. Fert.
4921 MILLER 3% THIODAN®-6% "658" DUST, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-Miller Chem. Fert.
4922 MILLER THIODAN® 50% W. P., 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide-I-Miller Chem. Fert.
4923 MILLER 3% THIODAN®-4% ZINEB DUST, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide, zineb-I-Miller Chem. Fert.
4924 MILLER TOMATO SET SPRAY 4-Chlorophenoxyacetic acid-PH-Miller Chem. Fert.
4925 MILLER TOXAPHENE 10% DUST-I-Miller Chem. Fert.
4926 MILLER TOXAPHENE #6 E. C., Contains 6 lb. Toxaphene per gal.-I-Miller Chem. Fert.
4927 MILLER TOXAPHENE 40% WETTABLE POWDER-I-Miller Chem. Fert.
4928 MILLER TURF FUNGICIDE-(BROAD SPECTRUM), Cadmium calcium copper zinc chromate thiram-F-Miller Chem. Fert.
4929 MILLER TURF FUNGICIDE-C, (Cadmium calcium copper zinc chromate)-F-Miller Chem. Fert.
4930 MILLER VHPF STARTER SOLUBLE FERTILIZER, With hormones-N-PH-Miller Chem. Fert.
4931 MILLER ZINEB DUST 4%-F-Miller Chem. Fert.
4932 MILLER ZINEB DUST 9.75%-F-Miller Chem. Fert.
4933 MILLER'S ALDRIN 2E, Aldrin 25%, oil 71.3%-I-Miller Prods.
4934 MILLER'S ALDRIN 4E, Aldrin 45.16%-I-Miller Prods.
4935 MILLER'S ALDRIN 5G, Aldrin 5%-I-Miller Prods.
4936 MILLER'S ALDRIN 25G, Aldrin 25%-I-Miller Prods.
4937 MILLER'S ALDRIN 25W, Aldrin 25%-I-Miller Prods.
4938 MILLER'S ALDRIN DUSTS, Various strengths aldrin-I-Miller Prods.
4939 MILLER'S ALPHASPRA, Alpha naphthaleneacetic acid conc.-PH-Miller Prods.
4940 MILLER'S AMITOX, LAWN, Dimethyl ammonium 2,4-D 15%-H-Miller Prods.
4941 MILLER'S BERRY BIG, Chlorophenoxyacetic acid, naphthaleneacetic acid-PH-Miller Prods.
4942 MILLER'S BHC DUSTS, Various strengths BHC dusts-I-Miller Prods.
4943 MILLER'S BHC-SULPHUR DUSTS, (Various strengths)-FI-Miller Prods.
4944 MILLER'S BHC 10E, Gamma BHC 10%, oil 67%-I-Miller Prods.
4945 MILLER'S BHC 12W, Gamma BHC-I-Miller Prods.
4946 MILLER'S BLACKBERRY VINE AND BRUSH KILLER, 2,4,5-T, isooctyl ester 12.0%, 2,4-D, isoooctyl ester 25.1%-H-Miller Prods.
4947 MILLER'S BORDO, Copper 25%, lime-F-Miller Prods.
4948 MILLER'S CAPTAN 50W, Captan 50%-F-Miller Prods.
4949 MILLER'S CAPTAN 75, Captan 75%-ST-Miller Prods.
4950 MILLER'S CAPTAN DUSTS, (Various strengths) F-Miller Prods.
4951 MILLER'S CAPTAN, GARDEN, Captan 5%-F-Miller Prods.
4952 MILLER'S COPPER FUNGICIDE 14D, MICRONIZED, Tribasic copper sulfate (copper 7.5%)-F-Miller Prods.
4953 MILLER'S CHLORDANE 8, Chlordane 73.3%-I-Miller Prods.
4954 MILLER'S CHLORDANE 40W, Chlordane 40%-I-Miller Prods.
4955 MILLER'S CHLORDUSTO, Various strengths chlordane dusts-I-Miller Prods.
4956 MILLER'S CHLOROSPRA 44, Chlordane 44%, oil 50%-I-Miller Prods.
4957 MILLER'S CRAB GRASS KILLER, Disodium methyl arsonate anhydrous 12.6%-H-Miller Prods.
4957.50 MILLER'S CRAB GRASS KILLER GRANULAR, 4.4% 0-(2,4-Dichlorophenyl) 0-methyl isopropylphosphoramidothioate-H-Miller Prods.
4958 MILLER'S CRATER 98, Sulfur 98%-FI-Miller Prods.
4959 MILLER'S CYPREX® DUSTS, Various strengths dodine-F-Miller Prods.
4960 MILLER'S 2,4-D AMINE-A, Alkanolamine salts (of the ethanol and isopropanol series) of 2,4-D 69.5%-H-Miller Prods.
4961 MILLER'S 2,4-D BUTYL ESTER 6E, 2,4-D 78.5%-H-Miller Prods.
4962 MILLER'S 2,4-D BUTYL ESTER 6 LB. OIL MIX, 2,4-D 79.6%-H-Miller Prods.

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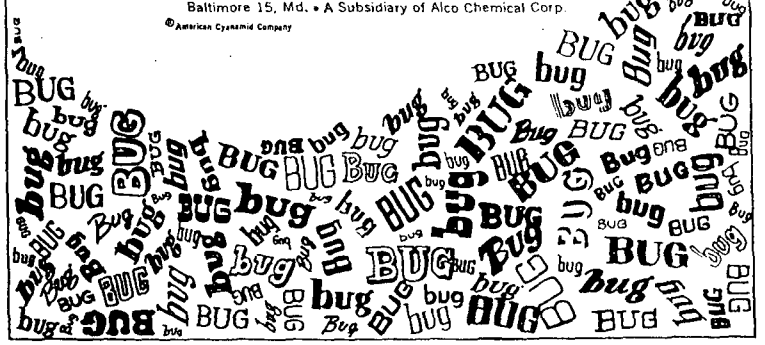

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4963 MILLER'S 2,4-D BUTYL ESTER 8 LB. OIL MIX, 2,4-D 97.5%-H-Miller Prods.
4964 MILLER'S D-D® SOIL FUMIGANT, 1,3-Dichloropropene, 1,2-dichloropropane 3,3-dichloropropene, 2,3-dichloropropene and related C_3 chlorinated hydrocarbons-IF-Miller Prods.
4965 MILLER'S DAIRY CATTLE, LIVESTOCK AND BARN SPRAY, Pyrethrins 0.025%, piperonyl butoxide 0.25%, Di-n-butyl succinate 1.0%, oil 98.725%-I-Miller Prods.
4966 MILLER'S DDT DUSTS, (Various strengths) -I-Miller Prods.
4967 MILLER'S 25% DDT EMUL.-I-Miller Prods.
4968 MILLER'S DDT-SULPHUR DUSTS, (Various strengths) -FI-Miller Prods.
4969 MILLER'S DDT-TOXAPHENE 24E, DDT 19.8%, toxaphene 39.7%, oil 34.6%-I-Miller Prods.
4970 MILLER'S 50% DDT WETTABLE-I-Miller Prods.
4971 MILLER'S DEFOAMER, SPEEDY, (Aerosol) -A-Miller Prods.
4972 MILLER'S DIAZINON DUSTS (Various strengths) -I-Miller Prods.
4973 MILLER'S DIELDRIN 1.5E, Dieldrin 18.62%, oil 73.38%-I-Miller Prods.
4974 MILLER'S DIELDRIN 5G, Dieldrin 4.25%-I-Miller Prods.
4974.50 MILLER'S DIELDRIN 25W, 25% Dieldrin-ST-Miller Prods.
4975 MILLER'S DIELDRIN 50W, Dieldrin 42.4% I-Miller Prods.
4976 MILLER'S DIELDRIN DUSTS, (Various strengths) -I-Miller Prods.
4977 MILLER'S DILAN 5E, 2-Nitro-1,1-bis (*p*-chlorophenyl) propene 14.91%, 2-nitro-1,1-bis (*p*-chlorophenyl) butane 29.89%, related compounds 11.20%, oil 40%-I-Miller Prods.
4978 MILLER'S DILAN® 25W, 2-Nitro-1, 1-bis (*p*-chlorophenyl) propane 6.66%, 2-nitro-1,1-bis (*p*-chlorophenyl) butane 13.34%, related compounds 5%-I-Miller Prods.
4979 MILLER'S DORMO, Oil 80%-I-Miller Prods.
4980 MILLER'S ENDRIN DUSTS, (Various strengths) I-Miller Prods.
4981 MILLER'S ENDRIN 1.6E, Endrin 19.5%, oil 73% I-Miller Prods.
4982 MILLER'S ENVY, 2,4-D 41%-H-Miller Prods
4983 MILLER'S ENVY BRUSH KILLER, 2,4-D 21.8%, 2,4,5-T 21.8%-H-Miller Prods.
4984 MILLER'S FERMOCIDE, Ferbam 68%-F-Miller Prods.
4985 MILLER'S FLY-GONE, DDT 3%, Terpene polychlorinates 1%, organic thiocyanates 1%, piperonyl butoxide 0.2%, pyrethrins 0.025%, oil 48.075%-I-Miller Prods.
4986 MILLER'S FREFLO, Sulfur 99.5%-SC-Miller Prods.
4987 MILLER'S FRUIT AND BERRY INSECT SPRAY, Methoxychlor 16.7%, malathion 9.4%, *alpha*-dichloromethyl-4,-4'-dichlorobenzhydrol 4.93%, oil 60%-I-Miller Prods.
4988 MILLER'S GIB-GRO, Various strengths Gibberellic acid-PH-Miller Prods.
4989 MILLER'S GRAIN AND BIN SPRAY, Malathion 57.5%-I-Miller Prods.
4990 MILLER'S GRASS AND WEED KILLER, IPC 5%-H-Miller Prods.
4991 MILLER'S GREEN 'N KLEEN, 2,4-D 1%-H-Miller Prods.
4992 MILLER'S GUTHION® DUSTS (Various strengths), O,O-Dimethyl S-4-oxo-1,2,3-benzotiazin-3 (4H) ylmethyl phosphorodithioate I-Miller Prods.
4993 MILLER'S HEPTACHLOR DUSTS, (Various strengths) -I-Miller Prods.
4994 MILLER'S HEPTACHLOR 5G, Heptachlor 5%-I-Miller Prods.
4995 MILLER'S HEPTOSPRA 50W, Heptachlor 50%-ST-Miller Prods.
4996 MILLER'S HOME AND PATIO INSECT SPRAY, Ronnel 1%, O'O-diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.4%, pyrethrins 0.05%, piperonyl butoxide 0.25%, orthodichlorobenzene 1.5%, oil 66.8%-I-Miller Prods.
4997 MILLER'S HORMOESTER, Butyl ester 2,4-D 50.4%-H-Miller Prods.
4998 MILLER'S HORMOTOX, Dimethlamine salt of 2,4-D 49.8%-H-Miller Prods.
4999 MILLER'S HORMOTOX, LAWN, 2,4-D, isooctyl ester 9.41%, 2,4,5-T 8.98%-H-Miller Prods.
5000 MILLER'S HORSE AND SHOW STOCK, Butoxypolypropylene glycol 15%, methoxychlor 2%, oil 2.1%, piperonyl butoxide 0.75%, pyrethrins 0.15%-I-Miller Prods.
5001 MILLER'S HOUSEHOLD SPACE FLY SPRAY, Ronnel 0.4%, pyrethrins 0.1%, piperonyl butoxide 0.8%, terpene polychlorinates 1.2%, oil 14.43%, organic thiocyanates 0.82%-I-Miller Prods.
5002 MILLER'S IPC 2E, 20%-H-Miller Prods.
5003 MILLER'S IPC GRASS KILLER, IPC 13.6%-H-Miller Prods.
5004 MILLER'S KARASPRA, GARDEN, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 3.8%-F-Miller Prods.
5005 MILLER'S KELTHANE® DUSTS, Various strengths 1,1-bis (chlorophenyl) trichloroethanol-I-Miller Prods.
5006 MILLER'S LINDANE DUSTS (Various strengths) I-Miller Prods.
5007 MILLER'S LINDANE 20E, Lindane 20%-I-Miller Prods.
5008 MILLER'S LINDANE SULPHUR, Various strengths lindane-sulfur dusts-FI-Miller Prods.
5009 MILLER'S LINDANE 25W, Lindane 25%-I-ST-Miller Prods.

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5010 MILLER'S LINDANE 75W, Lindane 75%, I-Miller Prods.
5011 MILLER'S LV BRUSH KILLER, 2,4-D 21.49%, 2,4,5-T 21.49% H-Miller Prods.
5012 MILLER'S LV 2,4-D ESTER, 2,4-D 43.5%-H-Miller Prods.
5013 MILLER'S LV 2,4-D ESTER 6E, 2,4-D 94%-H-Miller Prods.
5014 MILLER'S LV 2,4,5-T ESTER, 2,4,5-T 42.5%-H-Miller Prods.
5015 MILLER'S MALATHION DUSTS, (Various strengths)-I-Miller Prods.
5016 MILLER'S MALATHION 5E, Malathion 57.7%-I-Miller Prods.
5017 MILLER'S MALATHION 25W, Malathion 25%, -Miller Prods.
5018 MILLER'S MALATHION, GARDEN, Malathion 57.7%-I-Miller Prods.
5019 MILLER'S MALATHION-SEVIN® DUSTS (Various strengths), Malathion, 1-naphthyl-N-methylcarbamate-I-Miller Prods.
5020 MILLER'S MCP AMINE 4, MCP 47.1%, other MCP acids 5.2%-H-Miller Prods.
5020.50 MILLER'S MCP SODIUM SALT 2 (23.2%)-H-Miller Prods.
5021 MILLER'S METHOXYCHLOR 2E, Methoxychlor 25%-I-Miller Prods.
5022 MILLER'S METHOXO DUSTS, Various strengths methoxychlor dusts-I-Miller Prods.
5023 MILLER'S METHOXO-SULPHUR, Various strengths methoxychlor-sulfur dusts-FI-Miller Prods.
5024 MILLER'S MICROCOP, Tribasic copper sulfate (copper 47.7%)-F-Miller Prods.
5025 MILLER'S MILL FUMIGRAIN, Ethylene dichloride, carbon tetrachloride, ethylene dibromide, 100%-IF-Miller Prods.
5025.50 MILLER'S MOSQUITOCIDE B-IG, O,O-Dimethyl O-[(4-methylthio) *m*-tolyl] phosphorothioate 1%-I-Miller Prods.
5026 MILLER'S MOTH PROOFER, 1,1-Bis (*p*-ethylphenyl) -2,2-dichloroethane 4.75%, oil 65%-I-Miller Prods.
5027 MILLER'S MULTIFILM, Free and combined fatty acids, petroleum sulphonates, petroleum oil-A-Miller Prods
5028 MILLER'S NOXALL, Sodium arsenite 54.4%-H-Miller Prods.
5028.50 MILLER'S NOXALL GRANULAR, 1.25% Diuron 66.5% sodium metaborate tetrahydrate, 30% sodium chlorate-H-Miller Prods
5029 MILLER'S PANOGEN TURF SPRAY, Methylmercury dicyandiamide 2.2%-F-Miller Prods.
5030 MILLER'S PARATHION DDT, Various strengths parathion-DDT dusts-I-Miller Prods.
5031 MILLER'S PARATHION-DDT-SULPHUR, Various strengths parathion-DDT-sulfur dusts-FI-Miller Prods.
5032 MILLERS' PARATHION DUSTS, (Various strengths)-I-Miller Prods.
5033 MILLER'S PARATHION 4E, Parathion 47%-I-Miller Prods.
5034 MILLER'S PARATHION-SEVIN® DUSTS (Various strengths), 1-Naphthyl-N-methylcarbamate, parathion-I-Miller Prods.
5035 MILLER'S PARATHION 25W, Parathion 25%-I-Miller Prods.
5036 MILLER'S PENTA CONC., Oil 45%, pentachlorophenol 34.96%, related compds. 5.04%-WP-Miller Prods.
5037 MILLER'S PERTHANE® DUSTS, Various strengths, 1,1-bis (*p*-ethylphenyl) -2,2-dichloroethane-I-Miller Prods.
5038 MILLER'S PESTKIL, Lindane 2.2%, toxaphene 4.4%-I-Miller Prods.
5039 MILLER'S PESTKIL-C®, *Alpha*-methylbenzyl-3 (dimethoxyphosphinyloxy) -*cis*-crotonate 13%, oil 79%-I-Miller Prods.
5040 MILLER'S PESTKIL-M, Malathion 4.5%, toxaphene 45%-I-Miller Prods.
5041 MILLER'S PET, POULTRY AND LIVESTOCK DUST, Malathion 4%-I-Miller Prods.
5042 MILLER'S PHOSDRIN® 1.5D, 2-Carbomethoxyl-1-propen-2yl-dimethyl phosphate 1.5%-I-Miller Prods.
5043 MILLER'S PHOSDRIN 4E, 2-Carbomethoxyl-1-propen-2yl-dimethyl phosphate 46.8%-Miller Prods.
5044 MILLER'S POLYSUL, Calcium polysulfide 29%, calcium thiosulfate 1.5%-FI-Miller Prods.
5045 MILLER'S PURASPRA, Phenyl mercuric triethanol ammonium lactate 1.66%-F-Miller Prods.
5045.50 MILLER'S RAT AND MOUSE BAIT, PROLIN® + WARFARIN, 0.025% Sulfaquinoxalin, 0.025% warfarin-R-Miller Prods.
5046 MILLER'S RODUSTO, Various strengths rotenone dusts-I-Miller Prods.
5047 MILLER'S RONNEL 2E, Ronnel 24.5%, oil 70%-I-Miller Prods.
5048 MILLER'S ROTEFIVE, Rotenone 5%, rotenoids 5%, -I-Miller Prods.
5049 MILLER'S ROTENONE 100, Rotenone 1%, rotenoids 1%-I-Miller Prods.
5050 MILLER'S SEVIN® DUSTS, Various strengths 1-naphthyl N-methylcarbamate-I-Miller Prods.
5050.50 MILLER'S SEVIN® GARDEN, 50% Carbaryl-I-Miller Prods.
5051 MILLER'S SHEEP TICK DUST, Dieldrin 1.5%-I-Miller Prods.
5052 MILLER'S SILVEX, LAWN-H-Miller Prods.

5053 MILLER'S SILVEX, TURF, Butoxypolypropoxypropyl Esters of Silvex 64.5%-H-Miller Prods.
5053.50 MILLER'S SLUG, SNAIL AND INSECT KILLER BAIT, 5% Carbaryl, 2% metaldehyde-IB-Miller Prods.
5054 MILLER'S SLUGDUSTO, Metaldehyde dust-IB-Miller Prods.
5055 MILLER'S SLUGSPRA, Metaldehyde spray-IB-Miller Prods.
5056 MILLER'S SMUTGO, Hexachlorobenzene 40%-ST-Miller Prods.
5057 MILLER'S SMUT-GO 80, Hexachlorobenzene 80%-ST-Miller Prods.
5058 MILLER'S SOILDUSTO, DDT 20%, captan 5%, chlordane 5%, pentachloronitrobenzene 5%, aldrin 5%, lindane 0.5%-FI-Miller Prods.
5059 MILLER'S SPRADUSTO, Captan 5%, chlordane 5%, DDT 5%, lindane 1%, malathion 5%, sulphur 25%, 2,4-dinitro-6- (2-octyl) phenyl crotonate-FI-Miller Prods.
5061 MILLER'S SPREADO, Calcium caseinate spreader-A-Miller Prods.
5062 MILLER'S STA-STUK, Resinate sticker-spreader-A-Miller Prods.
5063 MILLER'S SULFO 95, Sulfur 95%-FI-Miller Prods.
5064 MILLER'S SULPHUR, GARDEN, Sulfur 90%-FI-Miller Prods.
5065 MILLER'S SUMERO, Oil 80%-I-Miller Prods.
5066 MILLER'S T-40 WORM KILLER, Toxaphene 40%-I-Miller Prods.
5067 MILLER'S 2,4,5-T AMINE 40, 2,4,5-T 57.2%-H-Miller Prods.
5068 MILLER'S SPRA-OIL, Petroleum oil 95.8%-I-Miller Prods.
5068.50 MILLER'S TERRACLOR® DUSTS, Various strengths pentachloronitrobenzene dusts -F-Miller Prods.
5069 MILLER'S TETRADANE, Diazinon 10%, lindane 5%, DDT 8%, 1,1-bis (chlorophenyl) 2,2,2-trichloroethanol 5%, oil 65%-I-Miller Prods.
5069.30 MILLER'S THIRAM 65W, 65% Thiram-F-Miller Prods.
5069.50 MILLER'S THIRAM 75W, 75% Thiram-St-F-Miller Prods.
5069.70 MILLER'S THIRAM-DIELDRIN 60-15, 15% Dieldrin, 60% thiram-St-Miller Prods.
5070 MILLER'S THREE DEE DUSTS, Various strengths TDE dusts-I-Miller Prods.
5071 MILLER'S THREE DEE-SULPHUR, Various strengths TDE-sulfur dusts FI-Miller Prods.
5072 MILLER'S TOMATO SET, Betanaphthoxyacetic acid, parachlorophenoxyacetic acid-PH-Miller Prods.
5073 MILLER'S TOXAPHENE-8, Toxaphene 73%-I-Miller Prods.
5074 MILLER'S TOXAPHENE DUSTS, (Various strengths) -I-Miller Prods.
5075 MILLER'S TOXAPHENE-SULPHUR, Various strengths toxaphene-sulfur dusts-FI-Miller Prods.
5076 MILLER'S TOXAPHENE 40W, Toxaphene 40%-I-Miller Prods.
5077 MILLER'S VAPONA® 2E, DDVP 22%, oil 7.31%-I-Miller Prods.
5078 MILLER'S VAPONA® 4E, DDVP 41.4%, oil 45.5%-I-Miller Prods.
5079 MILLER'S VAPONA® ONE-S, DDVP 0.92%, oil 99%-I-Miller Prods.
5080 MILLER'S VEGETABLE DUST, Rotenone 1%, rotenoids 1%, zineb 5%-FI-Miller Prods.
5082 MILLER'S X-77 SPREADER ACTIVATOR, Alkylarylpolyoxyethylene glycols, free fatty acids, isopropanol-A-Miller Prods.
5083 MILLER'S ZINEB DUST, (Various strengths) -F-Miller Prods.
5084 MILLFUME NO. 1, Carbon tetrachloride 80%, carbon bisulphide 20%-IF-Woodbury
5085 MILLFUME 66, Carbon tetrachloride 81.3%, carbon bisulphide 12.1%, ethylene dibromide 6.6%-IF-Woodbury
5086 MILO-MAG, Magnesium chlorate 40%-H-Woodbury
5086.30 MILLOSPRAY, Oil 98.6%, piperonyl butoxide 1.27%, pyrethrins 1.18%-I-Empire
5086.60 MILLOSPRAY MULSIFIABLE, Oil 72.17%, piperonyl butoxide 11.84%, pyrethrins 1.18%-I-Empire
5087 MINUGEL 100, Fullers earth (attapulgite) gelling grade-A-Floridin
5088 MINUGEL 200, Fullers earth (attapulgite) gelling grade-A-Floridin
5089 MINUGEL 300, Fullers earth (attapulgite) gelling grade-A-Floridin
5090 MINUGEL 400, Fullers earth (attapulgite) gelling grade-A-Floridin
5091 MIRACLE HOUSEHOLD DEODORANTS, Paradichlorobenzene-IF-Sterling
5092 MIRACLE MOTH PREVENTIVES, Naphthalene-IF-Sterling
5093 MIRACLE MOTH PREVENTIVES, Paradichlorobenzene-IF-Sterling
5094 MIRACLE-KILL, Chlordane-I-Puro
5095 MIRASECT, Chlordane 2%, DDT 2%, lindane 0.4%, oil 90.6%, piperonyl butoxide pyrethrins-I-Lorenz
MIREX = DECACHLOROOCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA (DC) PENTALENE
5096 MISSION BRAND 2.5 ALDRIN-5% DDT DUST-I-Hayes-Sammons
5097 MISSION BRAND 2.5% ALDRIN DUST-I-Hayes-Sammons
5098 MISSION BRAND ALDRIN 25% DUST CONC.-IC-Hayes-Sammons
5099 MISSION BRAND ALDRIN 2 LB. EMULSIFIABLE CONC.-I-Hayes-Sammons

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5101 MISSION BRAND 40-20 EMULSIFIABLE CONCENTRATE DDT 20%, 40% Terpene polychlorinates-I-Hayes-Sammons
5102 MISSION BRAND 3% GAMMA BHC-10% DDT DUST-I-Hayes-Sammons
5103 MISSION BRAND 5% GAMMA BHC-10% DDT DUST-I-Hayes-Sammons
5104 MISSION BRAND 3% GAMMA BHC-5% DDT DUST-I-Hayes-Sammons
5106 MISSION BRAND 3% GAMMA BHC-10% DDT 40% SULPHUR DUST-FI-Hayes-Sammons
5108 MISSION BRAND 5% GAMMA BHC-DDT 10%, 40% SULPHUR DUST-FI-Hayes-Sammons
5109 MISSION BRAND 3% GAMMA BHC DUST I-Hayes-Sammons
5110 MISSION BRAND 5% GAMMA BHC DUST-I-Hayes-Sammons
5111 MISSION BRAND 10% GAMMA BHC DUST CONC.-IC-Hayes-Sammons
5112 MISSION BRAND 12% GAMMA BHC DUST CONC.-IC-Hayes-Sammons
5113 MISSION BRAND BHC 1.2-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5115 MISSION BRAND 12% GAMMA BHC WETTABLE POWDER-I-Hayes-Sammons
5116 MISSION BRAND BORDEAUX MIXTURE-F-Hayes-Sammons
5117 MISSION BRAND BUG BAIT, Heptachlor 3%-IB-Hayes-Sammons
5118 MISSION BRAND CALCIUM ARSENATE-50% SULPHUR DUST-I-Hayes-Sammons
5119 MISSION BRAND CHLOR-BAN, 74% Chlordane E. C.-I-Hayes-Sammons
5120 MISSION BRAND 5% CHLORDANE DUST-I-Hayes-Sammons
5121 MISSION BRAND 10% CHLORDANE DUST-I-Hayes-Sammons
5122 MISSION BRAND CHLORDANE 40% DUST CONC.-IC-Hayes-Sammons
5124 MISSION BRAND CHLORDANE 74% EMULSIFIABLE CONC.-I-Hayes-Sammons
5125 MISSION BRAND CHLORDANE 40% WETTABLE POWDER-I-Hayes-Sammons
5126 MISSION BRAND CHLOR-O-SAN, Lindane 25%, ethyl mercury *p*-toluene sulfonanilide 2.89%-ST-FI-Hayes-Sammons
5127 MISSION BRAND CLAYS-D-Hayes-Sammons
5129 MISSION BRAND DDD or TDE 50% DUST BASE-IC-Hayes-Sammons
5131 MISSION BRAND 10% DDT DUST-I-Hayes Sammons
5133 MISSION BRAND DDT 50% DUST CONC. IC-Hayes-Sammons
5135 MISSION BRAND DDT 2-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5136 MISSION BRAND DDT 3-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5138 MISSION BRAND DDT 50% WETTABLE POWDER-I-Hayes-Sammons
5140 MISSION BRAND 2.5% DIELDRIN-5% DDT DUST-I-Hayes-Sammons
5141 MISSION BRAND 2.5% DIELDRIN-10% DDT DUST-I-Hayes-Sammons
5142 MISSION BRAND DIELDRIN-DDT (1-3) EMULSIFIABLE CONC.-I-Hayes-Sammons
5143 MISSION BRAND 2.5% DIELDRIN-5% DDT-40% SULPHUR DUST-FI-Hayes-Sammons
5144 MISSION BRAND 2.5% DIELDRIN-10% DDT 40% SULPHUR DUST-FI-Hayes-Sammons
5146 MISSION BRAND 2.5% DIELDRIN DUST-I-Hayes-Sammons
5147 MISSION BRAND DIELDRIN 25% DUST CONC.-IC-Hayes-Sammons
5148 MISSION BRAND DIELDRIN 50% DUST CONC.-IC-Hayes-Sammons
5149 MISSION BRAND 2.5% DIELDRIN GRANULAR I-Hayes-Sammons
5150 MISSION BRAND DIELDRIN 1.5-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5152 MISSION BRAND 2% ENDRIN DUST-I-Hayes-Sammons
5153 MISSION BRAND ENDRIN 25% DUST BASE-IC-Hayes-Sammons
5154 MISSION BRAND ENDRIN 50% DUST CONC.-IC-Hayes-Sammons
5155 MISSION BRAND ENDRIN 1.6-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5157 MISSION BRAND EQ 335 SCREW WORM SMEAR, Lindane 3%, pine oil 35%, mineral oil 42%-IR-Hayes-Sammons
5158 MISSION BRAND FIRECRACKER, 10% HEPTACHLOR GRANULAR-I-Hayes-Sammons
5159 MISSION BRAND GAM-O-SAN, Lindane 25%, thiram 6.25%-ST-FI-Hayes-Sammons
5160 MISSION BRAND GRAIN PROTECTANT Piperonyl butoxide 1.10%, pyrethrins 0.08%-I-Hayes-Sammons
5161 MISSION BRAND 5% HEPTACHLOR-5% DDT DUST-I-Hayes-Sammons
5162 MISSION BRAND 5% HEPTACHLOR-10% DDT DUST-I-Hayes-Sammons
5164 MISSION BRAND 5% HEPTACHLOR-10% DDT-40% SULPHUR DUST-FI-Hayes-Sammons
5165 MISSION BRAND 2.5% HEPTACHLOR DUST I-Hayes-Sammons
5166 MISSION BRAND 5% HEPTACHLOR DUST-I-Hayes-Sammons
5167 MISSION BRAND HEPTACHLOR 25% DUST CONC.-IC-Hayes-Sammons
5168 MISSION BRAND 2.5% HEPTACHLOR GRANULAR-I-Hayes-Sammons
5169 MISSION BRAND HEPTACHLOR 2-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5171 MISSION BRAND HI ISOMER 25, Lindane-ST-Hayes-Sammons
5172 MISSION BRAND IRON SULPHATE, Copperas-N-Hayes-Sammons
5173 MISSION BRAND KILL-TOX, TOXAPHENE-DDT (2) EMULSIFIABLE CONC.-I-Hayes-Sammons
5177 MISSION BRAND LINDANE 25% WETTABLE POWDER-I-Hayes-Sammons
5178 MISSION BRAND LINDANE 1.7-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5179 MISSION BRAND LIQUID APPLICATOR, 2 or 4-row applicator with trailer-E-Hayes-Sammons
5180 MISSION BRAND LIVESTOCK SPRAY OR DIP NO. 30 (Wettable Powder), BHC, DDT-I-Hayes-Sammons
5182 MISSION BRAND 5% MALATHION DUST-I-Hayes-Sammons
5183 MISSION BRAND MALATHION 25% DUST CONC.-IC-Hayes-Sammons
5184 MISSION BRAND MALA-TOX, 50% (DEODORIZED) EMULSIFIABLE CONC., Malathion 57%-I-Hayes-Sammons
5185 MISSION BRAND MALA-TOX EMULSIFIABLE CONCENTRATE, Malathion 5 lbs.-I-Hayes-Sammons
5186 MISSION MAL-THANE EMULSIFIABLE CONCENTRATE, LAWN AND SHRUB SPRAY, DDT-I-Hayes-Sammons
5187 MISSION BRAND MANEB (DITHANE® M-22 OR MANZATE®) -F-Hayes-Sammons
5188 MISSION BRAND MANGANESE SULPHATE 32% METALLIC-A-Hayes-Sammons
5189 MISSION BRAND 8% or MANZATE® MANEB 5.6-5% (DDD or TDE) DUST-FI-Hayes-Sammons
5190 MISSION BRAND 8% or MANZATE® (MANEB) 5.6 DUST-F-Hayes-Sammons
5193 MISSION BRAND 5% METHOXYCHLOR-I-Hayes-Sammons
5194 MISSION BRAND METHOXYCHLOR 50% WETTABLE POWDER-I-Hayes-Sammons
5195 MISSION BRAND METHYL PARATHION 25% DUST CONC.-IC-Hayes-Sammons
5196 MISSION BRAND METHYL PARATHION 2-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5197 MISSION BRAND 5% METHYL PARATHION DUST-I-Hayes-Sammons
5198 *MISSION BRAND 2.5% METHYL PARATHION-10% DDT DUST-I-Hayes-Sammons*
5200 MISSION BRAND 2.5% METHYL PARATHION-10% DDT DUST-I-Hayes-Sammons
5202 MISSION BRAND 2.5% METHYL PARATHION DUST-I-Hayes-Sammons
5203 MISSION BRAND METHYL-TOX DUST, Methyl parathion, toxaphene-I-Hayes-Sammons
5204 MISSION BRAND METHYL-TOX EMULSIFIABLE CONCENTRATE, Methyl parathion, toxaphene-I-Hayes-Sammons
5205 MISSION BRAND NABAM LIQUID FUNGICIDE-F-Hayes-Sammons
5206 MISSION BRAND NEMAGON® SOIL FUMIGANT 1,2-Dibromo-3-chloropropane 4.3 lb./gal.-IF-Hayes-Sammons
5208 MISSION BRAND 2% PARATHION-10% DDT DUST-I-Hayes-Sammons
5210 MISSION BRAND 2% PARATHION DUST-I-Hayes-Cammons
5211 MISSION BRAND PARATHION 25% DUST CONC.-IC-Hayes-Sammons
5212 MISSION BRAND PARATHION 2-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5213 MISSION BRAND PARATHION 4-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5214 MISSION BRAND 8% or PARZATE® (ZINEB 5.2) -5% (DDD or TDE) DUST-FI-Hayes-Sammons
5216 MISSION BRAND 8% or PARZATE® (ZINEB 5.2) -10% DDT DUST-FI-Hayes-Sammons
5217 MISSION BRAND 6% or PARZATE® (ZINEB 3.9) DUST, Inert-F-Hayes-Sammons
5218 MISSION BRAND 8% or PARZATE® (ZINEB 5.2) DUST-F-Hayes-Sammons
5220 MISSION BRAND 8% or PARZATE® (ZINEB 5.2) -2% PARATHION DUST-FI-Hayes-Sammons
5221 MISSION BRAND 8% or PARZATE® ZINEB 5.2-1% PARATHION DUST-FI-Hayes-Sammons
5222 MISSION BRAND PENTACHLOROPHENOL-H-WP-Hayes-Sammons
5223 MISSION BRAND 2% PHOSDRIN® DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate-I-Hayes-Sammons
5224 MISSION BRAND PHOSDRIN®, 2-LB. EMULSIFIABLE CONC., 2-Carbomethoxy-1-propen-2yl dimethyl phosphate-I-Hayes-Sammons
5225 MISSION BRAND 0.9% PIPERONYL BUTOXIDE-0.06% PYRETHRINS DUST-I-Hayes-Sammons
5226 MISSION BRAND POWER-TOX DUST, Parathion, toxaphene-I-Hayes-Sammons
5227 MISSION BRAND POWER-TOX EMULSIFIABLE CONC., Parathion, toxaphene-I-Hayes-Sammons
5229 MISSION BRAND 5% RHOTHANE® (DDD or TDE) DUST-I-Hayes-Sammons
5230 MISSION BRAND 10% RHOTHANE® (DDD or TDE) DUST-I-Hayes-Sammons

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5231 MISSION BRAND RHOTHANE®, 2-LB. EMULSIFIABLE CONC. (TDE)-I-Hayes-Sammons
5233 MISSION BRAND ROSE DUST, Captan 6%, lindane 1%, methoxychlor 5%, sulfur 15%-FI-Hayes-Sammons
5234 MISSION BRAND ROSE AND GARDEN EMULSIFIABLE CONCENTRATE, DDT 2.5%, dinitro 1.8%, lindane 2.5%, malathion 6.25%-FI-Hayes-Sammons
5235 MISSION BRAND 1% ROTENONE DUST-I-Hayes-Sammons
5236 MISSION BRAND 5% ROTENONE WETTABLE POWDER-I-Hayes-Sammons
5237 MISSION BRAND SHELL DD® SOIL FUMIGANT, Chlorinated propanes and propenes-IF-Hayes-Sammons
5238 MISSION BRAND STOCK-SPRAY, Toxaphene, liquid-I-Hayes-Sammons
5239 MISSION BRAND SUPER DYNATOX DUST, DDT 10%, heptachlor 2.5%, methyl parathion 1.5%-I-Hayes-Sammons
5240 MISSION BRAND SUPER DYNATOX EMULSIFIABLE CONC., DDT 22.18%, heptachlor 11.7%, methyl parathion 11.2%-I-Hayes-Sammons
5241 MISSION BRAND SUPER SENTINEL DUST, DDT 10%, heptachlor 2.5%, methyl parathion 1.5%-I-Hayes-Sammons
5242 MISSION BRAND SUPER STOCK SPRAY, Lindane-toxaphene livestock spray or dip-I-Hayes-Sammons
5242.20 MISSION BRAND 20% TERBENO DUST, Terpene polychlorinates-I-Hayes-Sammons
5242.40 MISSION BRAND TERBENO 40% DUST CONCENTRATE, Terpene polychlorinates-IC-Hayes-Sammons
5242.60 MISSION BRAND TERBENO 6 lb. EMULSIFIABLE CONC., Terpene polychlorinates-I-Hayes-Sammons
5242.80 MISSION BRAND 20% TERBENO 40% SULFUR DUST, Sulfur, terpene polychlorinates-I-Hayes-Sammons
5243 MISSION BRAND 20% TOXAPHENE DUST-I-Hayes-Sammons
5244 MISSION BRAND TOXAPHENE 40% DUST CONC.-IC-Hayes-Sammons
5245 MISSION BRAND TOXAPHENE 6-POUND EMULSIFIABLE CONC.-I-Hayes-Sammons
5246 MISSION BRAND 20% TOXAPHENE GRANULAR CORN DUST-I-Hayes-Sammons
5247 MISSION BRAND 20% TOXAPHENE-40% SULPHUR DUST-FI-Hayes-Sammons
5248 MISSION BRAND TOXAPHENE 40% WETTABLE POWDER-I-Hayes-Sammons
5249 MISSION BRAND TREE BANKING COMPOUND, Dieldrin 2.12%, copper 5.3%-FI-Hayes-Sammons
5250 MISSION BRAND 10% TRI-BASIC COPPER DUST-F-Hayes-Sammons
5251 MISSION BRAND TRI-BASIC COPPER SULPHATE, 53% Metallic-F-Hayes-Sammons
5253 MISSION BRAND YELLOW CUPROCIDE®, Cuprous oxide-F-ST-Hayes-Sammons
5254 MISSION BRAND ZINC SULPHATE, 36% Metallic-A-N-Hayes-Sammons
5255 MISSISSIPPI DUST DILUENT, Surface-treated ground limestone-D-Miss. Lime Co.
5256 MISSISSIPPI LIME GROUND LIMESTONE, (not surface treated)-D-Miss. Lime Co.
5257 MISSISSIPPI LIME HYDRATED LIME, for pesticide formulation and manufacturing-D-Miss. Lime Co.
5258 MIST BLO 26C, DDT 26%-I-Chem. Ins.
5259 MIST BLO 26-C, DDT, Rotenone-I-Chem. Ins.
5260 MIST BLO 26-C-O.F., Homogenized DDT liquid-I-Chem. Ins.
5261 MIST-I-FLY REFILL AEROSOL BOMBS, Pyrethrins 0.5%, piperonyl butoxide 4%, butoxypolypropylene glycol 5%, oil 7.5%-IA-Milfred
5262 MITE-NOT MALATHION 50, 50% Malathion-I-Nott
5263 MITEX 50% WETTABLE POWDER, *p*-Chlorophenyl *p*-chlorobenzene sulfonate-I-Chem. Ins.
MITOX® = CHLORBENSIDE (*p*-CHLOROBENZYL-*p*-CHLOROPHENYL SULFIDE), see ORTHO MITOX®
5263.50 MOBILSOL 100, Iso-paraffinic non-phytotoxic spray oil-I-Socony-Mobile
5264 MOBILSOL F, Methylated aromatic oil for insecticidal fogging-I-D-Socony-Mobil
5265 MOHAWK COLLOIDAL CHLORDANE, Chlordane 58%-I-Lorenz
5266 MOLE DEATH, Strychnine alk. 0.5%-R-Fox Dodge
5267 MOLE-NOTS, Thallium-R-Nott
5268 MOLITE MOLE KILLER GAS CARTRIDGE, Arsenic sulfide 25%, barium nitrate 20%, sodium sulfide 5%, sulfur 8%-R-Garden Prods.
5269 MONACIDE 5% DDVP-I-Mona
5270 MONACIDE 50% DDVP, Water-emulsifiable-I-Mona
5271 MONAMULSE 34-39 CONC., Emulsifier concentrate for agricultural spray oils-A-Mona
5271.50 MONAQUAT MIBC, Imidazoline benzyl chloride (Algicide)-H-Mona
5272 MONAQUEST Cu, Copper dihydrogen EDTA-F-(algicide)-Mona
5273 MONARCH ATOMIZING NOZZLES-E-Monarch
5274 MONARCH CHECK VALVES-E-Monarch

5275 MONARCH FLAT SPRAY NOZZLES-E-Monarch
5276 MONARCH HARD RUBBER NOZZLES-E-Monarch
5277 MONARCH HOLLOW SPRAY NOZZLES-E-Monarch
5278 MONARCH INDUSTRIAL SPRAY NOZZLES-E-Monarch
5279 MONARCH LINE STRAINERS-E-Monarch
5280 MONARCH "LONGWEAR" CARBALOY NOZZLES-E-Monarch
5281 MONARCH "NON-CLOG" SPRAY NOZZLES-E-Monarch
5282 MONARCH PRESSURE REGULATING VALVES-E-Monarch
5283 MONARCH SOLID SPRAY NOZZLES-E-Monarch
5284 MONARCH SPIRAL CORE NOZZLES-E-Monarch
5285 MONOBOR-CHLORATE® GRANULAR, Sodium chlorate 30%, sodium metaborate tetrahydrate 68%-H-U. S. Borax
5286 MONOCOP 35, Copper 12%-F-Chipman (Can.)
5286.30 MONSANTO AVADEX®, 2,4-Diochloroallyl diiopropylthiolcarbamate 45.7% or 4 lbs./gal.-H-Monsanto
5286.60 MONSANTO AVADEX BW®, 2,3,3-Trichloroallyl diiopropylthiolcarbamate 46.3% or 4 lbs./gal.-H-Monsanto
5287 MONSANTO BRUSH BLITZ, Isooctyl ester of 2,4,5-T 88.0% (equiv. to 61.1% 2,4,5-T acid or 6 lbs./gal.)-H-Monsanto
5288 MONSANTO BRUSH-O-CIDE, Isoctyl ester of 2,4-D 46.6%, isooctyl ester of 2,4,5-T 44.5% (equiv. to 30.9% or 3 lbs. 2,4-D acid/gal. and 30.9% or 3 lbs. 2,4,5-T acid/gal.)-H-Monsanto
5289 MONSANTO CROP-GUARD WEED KILLER, Isopropyl ester of 2,4-D 36.9%, butyl ester of 2,4-D 38.9% (equiv. to 62% 2,4-D acid or 6 lbs./gal.)-H-Monsanto
5290 MONSANTO 2,4-D AMINE WEED KILLER, Dimethylamine salt of 2,4-D 49.5% (equiv. to 41.1% 2,4-D or 4 lbs./gal.)-H-Monsanto
5291 MONSANTO 2,4-D BUTYL ESTER, TECH. (equiv. to 79% 2,4-D acid)-H-Monsanto
5292 MONSANTO 2,4-D BUTYL ESTER WEED KILLER, Butyl ester of 2,4-D 41.4% (equiv. to 33% 2,4-D or 2.67 lbs./gal.)-H-Monsanto
5293 MONSANTO 2,4-D BUTYL ESTER WEED KILLER CONC., Butyl ester of 2,4-D 57.6% (equiv. to 46% 2,4-D or 4 lbs./gal.)-H-Monsanto
5293.30 MONSANTO FARGO®, 2,3,3-Trichloroallyl diisopropylthiolcarbamate 46.3% or 4 lbs./gal.-H-Monsanto
5293.60 MONSANTO FIELD CLEAN®, Isooctyl ester of 2,4-D acid 94.5% (equiv. to 62.7% 2,4-D acid or 6#/gal.)-H-Monsanto
5294 MONSANTO 2,4-D GRANULAR, Isooctyl ester of 2,4-D 30.2% (equiv. to 20% 2,4-D acid by weight)-H-Monsanto
5295 MONSANTO 2,4-D ISOOCTYL ESTER, TECH., (equiv. to 64.4% 2,4-D acid)-H-Monsanto
5296 MONSANTO 2,4-D ISOPROPYL ESTER, TECH., (equiv. to 83% 2,4-D acid)-H-Monsanto
5297 MONSANTO 2,4-D ISOPROPYL ESTER WEED KILLER, Isopropyl ester of 2,4-D 45.2% (equiv. to 38% 2,4-D or 3.34 lbs./gal.)-H-Monsanto
5297.50 MONSANTO LIMIT®, CDAA 45.5%, 2,4-D acid 11.42% (equiv. to 4 lbs. CDDA/gal. and 1 lb. 2,4-D acid/gal.)-H-Monsanto
5298 MONSANTO 2,4-D LOW VOL. ESTER WEED KILLER, Isooctyl ester of 2,4-D 69.7% (equiv. to 46.2% 2,4-D or 4 lbs./gal.)-H-Monsanto
5299 MONSANTO 2,4-D-2,4,5-T BUTYL ESTER BRUSH KILLER, Butyl ester 2,4-D 27.5%, butyl ester 2,4,5-T 26.7% (equiv. to 21.9% or 2 lbs. 2,4-D acid/gal. & 21.9% or 2 lbs. 2,4,5-T acid/gal.-H-Monsanto
5300 MONSANTO 2,4-D-2,4,5-T LOW VOL. ESTER BRUSH KILLER, Isooctyl ester 2,4-D 34.5%, isooctyl ester 2,4,5-T 33.0% (equiv. to 22.9% or 2 lbs. 2,4-D acid/gal. & 22.9% or 2 lbs. 2,4,5-T acid/gal.)-H-Monsanto
5301 MONSANTO LAMBAST®, Selective herbicide for safflower, 2,4-bis (3-methoxypropylamino)-6-methylthio-s-triazine, (equiv. to 25.5% or 2 lbs./gal.)-H-Monsanto
5302 MONSANTO MCP AMINE WEED KILLER, Dimethylamine salt of 2-methyl-4-chlorophenoxyacetic acid 52% (equiv. to 42.5% 2-methyl-4-chlorophenoxyacetic acid or 4 lbs./gal.)-H-Monsanto
5303 MONSANTO METHYL PARATHION, Methyl parathion 80%, xylene 20%-IC-Monsanto
5304 MONSANTO METHYL PARATHION (STABILIZED), Methyl parathion 80%-IC-Monsanto
5305 MONSANTO NIRAN 10G®, Parathion, 10% granular-I-Monsanto
5306 MONSANTO ORTHODICHLOROBENZENE 100% ACTIVE-IF-Monsanto
5306.50 MONSANTO PARATHION (98.5%)-IC-Monsanto
5307 MONSANTO PCNB 80% DUST CONCENTRATE, Pentachloronitrobenzene 80.0%-F-Monsanto

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5308 MONSANTO PCNB TECHNICAL GRADE, Pentachloronitrobenzene 94.9%-F-Monsanto
5309 MONSANTO PENTA, Pentachlorophenol 83%, other chlorophenols 12%-H-WP-Monsanto
5310 MONSANTO RANDOX T® WEED KILLER, Alpha chloro-N,N-diallyacetamide (CDAA) 28.1% and trichlorobenzylchloride (TCBC) 57.6%, (equiv. to 3.1 lbs. CDAA/gal. and 6.3 lbs. TCBC/gal.)-H-Monsanto
5311 MONSANTO RANDOX® WEED KILLER CONC., Alpha-chloro-N,N-diallyacetamide (CDAA) (equiv. to 47.1% or 4 lbs. CDAA/gal.)-H-Monsanto
5312 MONSANTO RANDOX® T GRANULAR WEED KILLER, Alpha chloro-N,N-diallylacetamide (CDAA) 11.7% and trichlorobenzylchloride (TCBC) 23.3% by weight-H-Monsanto
5313 MONSANTO RANDOX® GRANULAR WEED KILLER, Alpha-chloro-N,N-diallylacetamide (CDAA) 20%-H-Monsanto
5314 MONSANTO ROGUE®, Selective herbicide for rice 3,4-dichloropropionanilide, (equiv. to 46% or 4 lbs./gal.)-H-Monsanto
5315 MONSANTO SANTOBRITE NEUTRAL PELLETS, Sodium pentachlorophenate 75%, sodium salts of other chlorophenols 13% F-Monsanto
5316 MONSANTO SANTOBRITE NEUTRAL POWDER, Sodium pentachlorophenate 75%, sodium salts of other chlorophenols 13%-F-H-Monsanto
5317 MONSANTO SANTOCHLOR, Paradichlorobenzene 100%-IF-Monsanto
5318 MONSANTO STOP SCALD FRUIT SPRAY, 1,2-dihydro-6-ethoxy-2,2,4-trimethylquinoline 70% (equiv. to 6 lbs. ethoxyquin/gal.)-A-PH-Monsanto
5319 MONSANTO 2,4,5-T BUTYL ESTER, TECH., (equiv. to 80% 2,4,5-T acid.)-H-Monsanto
5320 MONSANTO 2,4,5-T ESTER BRUSH KILLER, Butyl ester 2,4,5-T 23.1%, isopropyl ester 2,4,5-T 28.2% (equiv. to 43.2% or 4 lbs. 2,4,5-T acid/gal.)-H-Monsanto
5321 MONSANTO 2,4,5-T ISOOCTYL ESTER, TECH. (Equiv. to 67.5% 2,4,5-T acid)-H-Monsanto
5322 MONSANTO 2,4,5-T LOW VOL. ESTER BRUSH KILLER, Isooctyl ester of 2,4,5-T 65.3% (equiv. to 45.4% 2,4,5-T acid or 4 lbs./gal.)-H-Monsanto
5323 MONSANTO VEGADEX® GRANULAR WEED KILLER, 2-Chlorallyl diethyldithiocarbamate (CDEC) 20% by weight-H-Monsanto
5324 MONSANTO VEGADEX® WEED KILLER, 2-Chloroallyl diethyldithiocarbamate (CDEC) (equiv. to 46.4% or 4 lbs. CDEC/gal.-H-Monsanto
5325 MONTROSE N-BUTYL ACETANILIDE-IR-Montrose
5326 MONTROSE BUTYL ETHYL PROPANE DIOL (Repellent)-IR-Montrose
5327 MONTROSE DDT (TECH.)-IC-Montrose
5328 MORESTAN, 6-Methyl-2,3-quinoxalinedithiol cyclic carbonate-I-Chemagro
5329 MORTON SOIL DRENCH, Methylmercury hydroxide 3.5%-F-Morton
MONURON = 3-(*p*-CHLOROPHENYL)-1,1-DIMETHYLUREA
5330 MORTON SOIL DRENCH C, Methylmercury dicyandiamide 2.2%-F-Morton
MORZID = BIS (AZIRIDINYL) MORPHOLINO PHOSPHINE SULFIDE
5331 MOSQUITO BEATER, DDT 10%-I-Bonide
5332 MOSQUITO FOG OIL, DDS 25%, organic thiocyanates 3%-I-Bonide
5333 MOTH-CLOUD TABLETS, Lindane 10.5%, paradichlorobenzene 5.25%-MP-Cont. Chem.
5336 MOTH-TOX MOTHPROOFER, Terpene polychlorinates 5%-MP-Canada Rex
5337 MOTH-TOX MOTHPROOFER BOMB, DDT 3%, 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ehane 2.85%, oil 59%-IA-MP-Rex
5338 MOUSE DINER, Warfarin-R-Puro
5339 MOUSE DINER, Warfarin-R-Sterling
5340 MOUSE-NOTS, Strychnine-treated bait-R-Not
5341 MOUSE SEED, Strychnine-R-Reardon
5342 MSA ALL PURPOSE WORK GLOVES-E-Mine Safety
5343 MSA ALL VISION CHEMICAL CARTRIDGE RESPIRATOR-E-Mine Safety
5344 MSA ALL WEATHER FIRST AID KITS-E-Mine Safety
5345 MSA AMMONIA MASK (GMD), Safety equipment-E-Mine Safety
5346 MSA DUSTFOE NO. 66 RESPIRATOR-E-Mine Safety
5347 MSA FARM SPRAY RESPIRATOR-E-Mine Safety
5348 MSA GASFOE RESPIRATOR-E-Mine Safety
5349 MSA GREENHOUSE MASK, GMC-1-E-Mine Safety
5350 MSA HCN FUMIGANT MASK, GMK-E-Mine Safety
5351 MSA JONES VISOR GOGGLES, Safety equipment E-Mine Safety
5352 MSA KNEE PADS-E-Mine Safety
5353 MSA ORGANIC FUMIGANT MASK, GMA-E-Mine Safety
5354 MULSOID SULFUR, Micronized wettable sulfur-H-Sherwin-Williams
5355 MULTEEJET, Pesticide application-E-Spraying Systems

5356 MULTI-FILM BUFFER-X, Alkylarylpolyethoxy ethanol, organic and inorganic phosphate acids-A-Colloidal
5358 MULTI-FLIM C, Alkylarylpolyoxyethylene glycols-A-Colloidal
5360 MULTI-FILM L, Petroleum sulphonates-A-Colloidal
5361 MULTI-FILM X-77, Alkylarylpolyoxyethylene glycols-A-Colloidal
5362 MULTI-FILM SPRAY MODIFIER, Alkylene oxide condensates-A-Colloidal
5363 MULTI-FILM SPRAY-TAC, Ethylene oxide aducts, synthetic resins-A-Colloidal
5364 MULTI-JET, 21- & 31-foot boom-type sprayers-E-Hanson
5365 MULTI-PURPOSE SYNERGIZED PYRETHRUM CONC., N-Octyl bicycloheptene dicarboximide 1.66%, piperonyl butoxide 1%, pyrethrins 0.5%-I-Chapman
5366 MULTI-TOX TL, Toxaphene 45%, lindane 2%-I-Thomp. Chem.
5367 MUL-T-VAPOR NO. 104, DDT 5%-IA-Edco
5368 MUNSON INSECTICIDE BLENDERS AND MIXERS-E-Munson
5369 MUNSON INSECTICIDE IMPREGNATORS-E-Munson
5370 MUNSON PACKAGE PLANTS FOR INSECTICIDE FORMULATIONS-E-Munson
MYLONE® = 3,5-DIMETHYL-1,3,5,2H-TETRAHYDROTHIADIAZINE-2-THIONE—see CRAG MYLONE®
5371 MYSTERIOUS ANT TRAPS, Thallium sulphate 1%-IB-Lethelin
5372 MYSTERIOUS ROACH POWDER, DDT, pyrethrum-I-Lethelin
5373 MYSTIKIL CHLORDANE EMUL. (CONC.) MTE, Chlordane 8 lb./gal.-I-Lethelin
NAA = NAPHTHALENE ACETIC ACID
NABAM = DISODIUM ETHYLENE BISDITHIOCARBAMATE
5373.50 N-METHYL-2-PYRROLIDONE, Solvent-D-General Aniline
5374 NACO ALDRIN COTTON DUST (2.5-5-0 COTTON FORMULA), Aldrin 2.5%, DDT 5%-I-Davison
5375 NACO ALDRIN SPRAY, Aldrin 23.1%, oil 52.03%-I-Davison
5376 NACO BENNY-HEX COTTON DUST (3-10-0 COTTON FORMULA), Gamma BHC 3%, DDT 10%-I-Davison
5377 NACO BHC CONC. NO. 120, Gamma BHC 12%-IC-Davison
5378 NACO BHC-DDT SPRAY CONCENTRATE, BHC 10.25%, DDT 20%-I-Davison
5379 NACO BHC NO. 120 WETTABLE CONC., Gamma BHC 12%-I-Davison
5380 NACO 10% DDT DUST-I-Davison
5381 NACO 50% DDT DUST BASE-IC-Davison
5382 NACO DDT SPRAY, DDT 25%, oil 73%-I-Davison
5383 NACO DDT-TOXAPHENE SPRAY CONCENTRATE, Toxaphene 40%, DDT 20%-I-Davison
5384 NACO 50% DDT WETTABLE CONC.-I-Davison
5385 NACO DIELDRIN SPRAY 19%-I-Davison
5386 NACO 6% DITHANE® Z-78 DUST, Zineb 6%-F-Davison
5387 NACO 10% DITHANE® Z-78 DUST, Zineb 10%-F-Davison
5388 NACO 6% DITHANE® Z-78 & 1% PURE-GAM, Lindane 1%, zineb 6%-FI-Davison
5389 NACO 25% ENDRIN DUST BASE-IC-Davison
5390 NACO ENDRIN SPRAY CONCENTRATE, Endrin 19.5%-I-Davison
5391 NACO 15% FERMATE® DUST, Ferbam 11.4%-F-Davison
5392 NACO 5% MALATHION DUST-I-Davison
5393 NACO 25% MALATHION DUST BASE-IC-Davison
5394 NACO MALATHION SPRAY CONCENTRATE, Malathion 57%-I-Davison
5395 NACO METHYL PARATHION COTTON DUST (2½-10-0), Methyl parathion 2½%, DDT 10%-I-Davison
5396 NACO 25% METHYL PARATHION DUST BASE-IC-Davison
5397 NACCO METHYL PARATHION SPRAY CONCENTRATE, Methyl parathion 23.7%-I-Davison
5398 NACO 30% NEMAGON® DUST BASE, 1,2-Dibromo-3-chloropropane-IF-Davison
5399 NACO 1% PARATHION DUST-I-Davison
5400 NACO 1½% PARATHION DUST-I-Davison
5401 NACO 2% PARATHION DUST-I-Davison
5402 NACO 25% PARATHION DUST BASE-IC-Davison
5403 NACO 1% PARATHION & 10% RHOTHANE®, Parathion 1%, TDE 10%-I-Davison
5404 NACO 15% PARATHION WETTABLE POWDER-I-Davison
5405 NACO PHOSDRIN® SPRAY CONCENTRATE, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 25.4%-I-Davison z
5406 NACO 1¾% SEVIN®, 1-Naphthyl-N-methylcarbamate 1.75%-I-Davison
5407 NACO 7½% SEVIN®, 1-Naphthyl-N-methylcarbamate 7.5%-I-Davison
5408 NACO 10% SEVIN®, 1-Naphthyl-N-methylcarbamate 10%-I-Davison
5409 NACO 50% TDE (DDD) DUST BASE-IC-Davison
5410 NACO TDE SPRAY CONCENTRATE, TDE 25%-I-Davison
5411 NACO 20% TOXAPHENE COTTON DUST (20-0 COTTON FORMULA)-I-Davison
5412 NACO TOXAPHENE-DDT 14-7 DUST, Toxaphene 14%, DDT 7%-I-Davison

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5413 NACO 10% TOXAPHENE DUST-I-Davison
5414 NACO 20% TOXAPHENE DUST-I-Davison
5415 NACO 40% TOXAPHENE DUST BASE-IC-Davison
5416 NACO TOXAPHENE SPRAY, Oil 38.8%, toxaphene 60%-I-Davison
5417 NACO 40% TOXAPHENE WETTABLE CONC.-I-Davison
5418 NA-KLOR 10-D DUST, Chlordane 10%-I-Davison
5419 NA-KLOR 20-D DUST, Chlordane 20%-I-Davison
5420 NA-KLOR 25-D DUST, Chlordane 25%-I-Davison
5421 NA-KLOR 40-D DUST BASE, Chlordane 40%-IC-Davison
5422 NA-KLOR SPRAY, Chlordane 45%-I-Davison
5423 NA-KLOR 40-W WETTABLE CONC., Chlordane 40%-I-Davison
5424 NALCO H-174 (For Weed and Grass Control), Diuron 8%, sodium tetraborate 87%-H-Nalco Chem.
5425 NALCO H-174K (For Weed and Grass Control), Diuron 8%, sodium tetraborate 87%-H-Nalco Chem.
5426 NALKIL WEED KILLER GRANULAR (For Weed and Grass Control), 5-Bromo-3-sec-butyl-6-methyluracil 4%, sodium tetraborate 93%-H-Nalco Chem.
NALED=1,2-DIBROMO-2,2,-DICHLOROETHYL DIMETHYL PHOSPHATE
5427 BETA-NAPHTHOXYACETIC ACID, Plant growth hormone-PH-Fine Organics
5428 ALPHA-NAPHTHALENE ACETIC ACID, Plant growth hormone-PH-Fine Organics
5428.50 NAP-LENE NAPHTHALENE-IF-Record Chem.
5429 NAP-LENE MOTH PREVENTIVE PRODUCTS, Naphthalene-IF-Hobs-Reliable
5430 NARVON AGRI-F2 MINERAL CLAY, Diluents carriers for insecticides, pesticides, herbicides, etc.-D-Narvon Mines
5430.50 NARVON AGRI-F3 MINERAL CLAY, Diluents carriers for insecticides, pesticides, herbicides, etc.-D-Narvon Mines
5431 NARVON KAOLIN TYPE CARRIER, Diluent for insecticides, fungicides, herbicides, and pesticides-D-Narvon Mines, Ltd.
5432 NATKA CLAY (Kaolin type diluent for pesticide formulation)-D-National Kaolin Products
5433 NAUTOX MARINE PRESERVATIVE FOR WOOD, Endosulfan, tributyltin, oxide-WP-Osmose D
5434 N-C-D-B, Neutral Copper Dust Base, copper 83%-I-Calumet
5435 N'DM FLEA POWDER, Malathion 4%-I-Davison
5436 N5DS, Phenyl Mercuric Triethanol Ammonium Lactate 22.5% (For textiles)-F-Guard
NEBURON = 1-n-BUTYL-3-(3,4-DICHLOROPHENYL)-1-METHYLUREA
5437 NEGUVON®, O,O-Dimethyl 2,2,2-trichloro-1-hydroxyethyl phosphonate-I-Chemagro
5438 NEKAL BA-75, Sodium alkyl naphthalene sulfonate 65%-A-General Aniline
5439 NEKAL BX-78, Sodium alkyl naphthalene sulfonate 80%-A-General Aniline
5440 NEKAL WS-21, Sulfonated aliphatic polyester 18%-A-General Aniline
5441 NEKAL WS-25, Sulfonated aliphatic polyester 55.10%-A-General Aniline
5442 NEMAGON® C SOIL FUMIGANT, Contains not less than 95% 1,2-dibromo-3-chloropropane and not more than 5% nematocidally active, related compounds-IF-Shell
5443 NEVILLE CHLORINATED PARAFFINS-D-Neville
5444 NEVILLE CHLOINATED SOLVENTS-D-Neville
5445 NEVILLE LX-745, Aromatic solvent-D-Neville
5446 NEVILLE 2-50-W HI-FLASH, Aromatic hi-flash solvent-D-Neville
5447 NEW BLUE DRAGON DUST, Carbaryl 2%, sulfur 10%-FI-J. M. Harris
5448 NEW COPPER DRAGON DUST, Carbaryl 2%, tri-basic copper sulfate (copper 7%)-FI-J. M. Harris
5449 NEW GARD BUG KILL, Allethrin 0.1%, DDT 2%, oil 50.65%, organic thiocyanates 2%-IA-Gard
5450 NEW TENSITE, Chlordane 2%-I-Cenol
5451 NEW YORK SCIENTIFIC SUPPLY ALUMINIUM SULPHATE-A-N.Y. Sci. Supply
5452 NEW YORK SCIENTIFIC SUPPLY ARSENIC TRIOXIDE-I-N.Y. Sci. Supply
5453 NEW YORK SCIENTIFIC SUPPLY BARIUM CARBONATE-R-N.Y. Sci. Supply
5454 NEW YORK SCIENTIFIC SUPPLY BORAX-I-N.Y. Sci. Supply
5455 NEW YORK SCIENTIFIC SUPPLY BORIC ACID-I-N.Y. Sci. Supply
5456 NEW YORK SCIENTIFIC SUPPLY CALCIUM ARSENATE-I-N.Y. Sci. Supply
5457 NEW YORK SCIENTIFIC SUPPLY COPPER CARBONATE-F-N.Y. Sci. Supply
5458 NEW YORK SCIENTIFIC SUPPLY COPPER OXIDE-F-N.Y. Sci. Supply
5459 NEW YORK SCIENTIFIC SUPPLY COPPER SULPHATE-F-N.Y. Sci. Supply
5460 NEW YORK SCIENTIFIC SUPPLY CRYOLITE, Natural-I-N.Y. Sci. Supply
5461 NEW YORK SCIENTIFIC SUPPLY FORMALDEHYDE-F-N.Y. Sci. Supply
5462 NEW YORK SCIENTIFIC SUPPLY LEAD ARSENATE-I-N.Y. Sci. Supply
5463 NEW YORK SCIENTIFIC SUPPLY MAGNESIUM ARSENATE-I-N.Y. Sci. Supply
5464 NEW YORK SCIENTIFIC SUPPLY MERCURIC CHLORIDE-FI-N.Y. Sci. Supply
5465 NEW YORK SCIENTIFIC SUPPLY METHYL BROMIDE-IF-N.Y. Sci. Supply

5466 NEW YORK SCIENTIFIC SUPPLY METHYL SODIUM ARSENATE-I-H-N.Y. Sci. Supply
5467 NEW YORK SCIENTIFIC SUPPLY SODIUM ARSENITE-I-H-N.Y. Sci. Supply
5468 NEW YORK SCIENTIFIC SUPPLY SODIUM CHLORATE-H-N.Y. Sci. Supply
5469 NEW YORK SCIENTIFIC SUPPLY SODIUM FLUORIDE-I-N.Y. Sci. Supply
5470 NEW YORK SCIENTIFIC SUPPLY ZINC ARSENITE-I-N.Y. Sci. Supply
5471 NEW YORK SCIENTIFIC SUPPLY ZINC CARBONATE-F-N.Y. Sci. Supply
5472 NEW YORK SCIENTIFIC SUPPLY ZINC OXIDE-F-ST-N.Y. Sci. Supply
5473 NEW YORK SCIENTIFIC SUPPLY ZINC SULPHATE-A-N.Y. Sci. Supply
5474 NIAGARA BHC 1 NIATOX 5 PEACH DUST, Gamma BHC 1%, DDT 5%, sulfur 52.8%-FI-Niagara
5475 NIAGARA BHC 10 SPRAY, Gamma BHC 10%-I-Niagara
5476 NIAGARA CALCIUM ARSENATE, Tricalcium arsenate 70%-I-Niagara
5477 NIAGARA CARBAMATE, Ferbam 76%-F-Niagara
5478 NIAGARA CHLOROKIL 5 DUST, Chlordane 5%-I-Niagara
5479 NIAGARA CHLOROKIL 72 MISCIBLE, Chlordane 8 lbs./gal.-I-Niagara
5480 NIAGARA CHLOROKIL 40 SPRAY, Chlordane 25%-I-Niagara
5481 NIAGARA C-O-C-S, Copper oxychloride sulfate 100%-F-Niagara
5482 NIAGARA C-O-C-S- COPODUST, Copper oxychloride sulfate 11.823%-F-Niagara
5483 NIAGARA C-O-C-S COPOTEX, Calcium arsenate 17.5%, copper oxychloride sulfate 11.32%-FI-Niagara
5484 NIAGARA C-O-C-S NIATOX 2 DUST, Copper oxychloride sulfate 11.19%, DDT 2%-FI-Niagara
5485 NIAGARA C-O-C-S NIATOX 5 DUST, Copper oxychloride sulfate 11.19%, DDT 5%-FI-Niagara
5486 NIAGARA C-O-C-S PHOSKIL 1 DUST, Copper oxychloride sulfate 11.19%, parathion 1%-FI-Niagara
5487 NIAGARA C-O-C-S ROTENONE BEARING DUST, Copper oxychloride sulfate 10%, rotenone 0.75%, rotenoids 0.75%-FI-Niagara
5488 NIAGARA COMMERCIAL FLOUR SULPHUR, Sulfur 99.5%-FI-Niagara
5489 NIAGARA CYCLO JR. CRANK DUSTER, Hand duster-E-Niagara
5490 NIAGARA DDT TECH. GRADE-IC-Niagara
5491 NIAGARA DINITRO DRY, Dinitro-o-cresol 40%-FI-Niagara
5492 NIAGARA DUS-STIC, Sulfonated fatty acids 67%, Triton-X-100 33%-A-Niagara
5493 NIAGARA DUST 300, Oil 5%, sulfur 57%-FI-Niagara
5494 NIAGARA DUST 302, Lead arsenate 10%, oil 5%, sulfur 52%-FI-Niagara
5495 NIAGARA EMULSO DORMANT OIL, Oil 83%-I-Niagara
5496 NIAGARA ETHION GRANULAR PHOSPHATE INSECTICIDE-I-Niagara
5497 NIAGARA ETHION MISCIBLE PHOSPHATE INSECTICIDE-I-Niagara
5498 NIAGARA HORTICULTURAL PRODUCTS ROSE DUST, Sulfur, arsenic, nicotine-FI-Niagara Hort
5499 NIAGARA KOLO APPLE NIATOX 5 DUST, Fused bentonite sulfur 33%, DDT 5%, lead arsenate 15%-FI-Niagara
5500 NIAGARA KOLO CARBAMATE, Fused bentonite sulfur 75%, ferbam 10.8%-FI-Niagara
5501 NIAGARA KOLO ROTENONE DUST, Fused bentonite sulfur 4.5%, rotenone 0.75%, rotenoids 0.75%, sulfur 27%-FI-Niagara
5502 NIAGARA KOLODUST, Fused bentonite sulfur 13.5%, sulfur 80%-FI-Niagara
5503 NIAGARA KOLOFOG, Fused bentonite sulfur 100%-FI-Niagara
5504 NIAGARA KOLOPEACH, Fused bentonite sulfur 66%, lead arsenate 5%-FI-Niagara
5505 NIAGARA KOLOPHOSKIL 1 DUST, Fused bentonite sulfur 33%, oil 2%, parathion 1%-FI-Niagara
5506 NIAGARA KOLOZINC, Fused bentonite sulfur 57.5%, zinc sulfate 40%-FI-Niagara
5507 NIAGARA LINDANE 25 CONC., Lindane 25%-I-Niagara
5508 NIAGARA LINDANE 1 DUST, Lindane 1%-I-Niagara
5509 NIAGARA LINDANE 25 EMULSION, Lindane 25%-I-Niagara
5510 NIAGARA LINDANE 25 SPRAY, Lindane 25%-I-Niagara
5511 NIAGARA LINDANE 75 SPRAY ,Lindane 75%-I-Niagara
5512 NIAGARA LIQUID NIATOX 25, DDT 2.11 lbs./gal., methyl naphthalene 23%-I-Niagara
5513 NIAGARA LIQUID NIATOX 33, DDT 2.81 lbs./gal.-I-Niagara
5514 NIAGARA MISCIBLE OIL DORMANT, Oil 96.5%-I-Niagara
5515 NIAGARA NIACIDE A, 35% Ferbam, 24% manganous dimethyl dithiocarbamate, 6.2% thiram, 1.2% manganous benzothiazyl mercaptide, 1.1% 2,2-dithiobisbenzothiazole-F-Niagara
5516 NIAGARA NIACIDE M, 48% Manganous dimethyl dithiocarbamate, 12.4% thiram, 2.4% manganous benzothiazyl mercaptide, 2.2% 2,2-dithiobisbenzothiazole-F-Niagara

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5517 NIAGARA NIAGARAMITE 15 SPRAY 2-(*p-tert* Butylphenoxy) isopropyl 2'-chloroethyl sulfite 15%-I-Niagara
5518 NIAGARA NIATOX 2 DUST, DDT 2%-I-Niagara
5519 NIAGARA NIATOX 3 DUST, DDT 3%-I-Niagara
5520 NIAGARA NIATOX 5 DUST, DDT 5%-I-Niagara
5521 NIAGARA 533 NIATOX 5 DUST, DDT 5%, lead arsenate 14%, sulfur 49%-FI-Niagara
5522 NIAGARA NIATOX 10 DUST, DDT 10%-I-Niagara
5523 NIAGARA NIATOX 50 DUST BASE, DDT 50% IC-Niagara
5524 NIAGARA NIATOX 3 PHOSKIL 1 DUST, DDT 3%, parathion 1%-I-Niagara
5525 NIAGARA NIATOX 50 WETTABLE POWDER DDT 50%-I-Niagara
5526 NIAGARA PENINSULAR OIL EMULSION DORMANT, Oil 83%-I-Niagara
5527 NIAGARA PHOSKIL CARBAMATE KOLO DUST, Fused bentonite sulfur 15%, ferbam 3%, parathion 1%, sulfur 36%-FI-Niagara
5528 NIAGARA PHOSKIL 1 DUST, Parathion 1%-I-Niagara
5529 NIAGARA PHOSKIL SPRAY, Parathion 15%-I-Niagara
5530 NIAGARA PHOSTEX®, Mixture of *bis*-(dialkylphosphinothioyl) disulfides-I-Niagara
5531 NIAGARA PHYGON® SEED PROTECTANT, Dichlone 50%-ST-Niagara
5532 NIAGARA PURATIZED® AGRICULTURAL SPRAY, Phenyl mercuric triethanol ammonium lactate 5%-F-Niagara
5533 NIAGARA QUIK-KIL POISON, Calcium arsenate 5.5%, tricalcium arsenate 63%-I-Niagara
5534 NIAGARA ROTENONE BEARING DUST (with oil), Rotenone 1%, rotenoids 1%-I-Niagara
5535 NIAGARA SODIUM ARSENITE WEED KILLER-H-Niagara
5536 NIAGARA SPERGON® SEED PROTECTANT, Chloranil 96%-ST-Niagara
5537 NIAGARA SULFUR NIATOX 1 DUST (Impregnated), DDT 1%, sulfur 74.44%-FI-Niagara
5538 NIAGARA SULFUR ROTENONE-BEARING NIATOX 2 DUST, DDT 2%, rotenone 1%, sulfur 25%-FI-Niagara
5539 NIAGARA SUPERFINE DUSTING SULFUR, Sulfur 99.5%-FI-Niagara
5540 NIAGARA TEDION® 90 GREENHOUSE SPRAY MITICIDE, 2,4,5,4'-Tetrachloro diphenyl sulfone-I-Niagara
5541 NIAGARA TEDION® 25% WETTABLE POWDER MITICIDE, 2,4,5,4'-Tetrachloro phenyl sulfone-I-Niagara
5542 NIAGARA TEPP, TEPP 40%, related phosphates 60%-IC-Niagara
5543 NIAGARA TEPP DUST, TEPP 1.15%, related phosphates 1.85%-I-Niagara
5544 NIAGARA TOXAKIL 10 DUST, Toxaphene 10%-I-Niagara
5545 NIAGARA TOXAKIL 10 DUST, Toxaphene 10%-I-Niagara
5546 NIAGARA TOXAKIL MISCIBLE, Toxaphene 6 lbs./gal. I-Niagara
5547 NIAGARA Z-C DUST, Ziram 7%-F-Niagara
5548 NIAGARA Z-C PHOSKIL 1 DUST, Parathion 1%, ziram 7%-FI-Niagara
5549 NIAGARA Z-C ROTENONE-BEARING DUST, Rotenone 1%, rotenoids 1%, ziram 7%-FI-Niagara
5550 NIAGARA Z-C SPRAY, Ziram 70%-F-Niagara
5551 NIAGARA Z-G KOLODUST, Fused bentonite sulfur 13.8%, sulfur 73%, ziram 5%-FI-Niagara
5552 NICOTINE PRESSURE FUMIGATORS, Nicotine 14%-IA-Plant Prods.
5553 NICOTINE SPRAY, Nicotine (as alkaloid) 12%, sodium cyanide 8%, phenols 2%-I-Destruxol
5556 NITROX® 80, Methyl parathion 80%-IC-Chemagro
5557 NIXALITE, Stainless steel bird and animal repellent-ANR-Nixalite
5558 NOBLE GRANULAR APPLICATOR-E-Noble
5559 NO BUNT 40, Hexachlorobenzene 40%-ST-Chipman
5560 NO BUNT 80, Hexachlorobenzene 80%-ST-Chipman
5561 NO BUNT LIQUID, Hexachlorobenzene 4 lbs./gal.-ST-Chipman
5562 "NO-GRO" PREMERGENT CRABGRASS CONTROLLANT, Calcium arsenate-H-Vineland
5563 NoNEMO, 1,2-Dibromo-3-chloropropane 50%-IF-Davison
5564 NO RO, Chlordane 2%, oil 98%-I-Theo. Meyer
5565 NOTT'S ARTOX SODAR CRAB GRASS KILLER, Disodium monomethylarsonate pentahydrate 50%-H-Nott
5566 NOTT'S ARTOX SODAR 2,4-D LAWN WEED KILLER, Disodium monomethylarsonate pentahydrate 40%, sodium 2,4-D 16.6%-H-Nott
5567 NOTT'S 50% CAPTAN W. P.-F-Nott
5568 NOTT'S 25% DDD (TDE)-I-Nott
5569 NOTT'S 25% DDT, E. C.-I-Nott
5570 NOTT'S 25% DDT W. P.-I-Nott
5571 NOTT'S 75% DDT W. P.-I-Nott

NEW PRODUCTS FROM NIAGARA

THIODAN®. A new broad-range insecticide registered for control of a variety of insects on almonds, apples, apricots, nectarines, plums, prunes, artichokes, beans, broccoli, cabbage, cauliflower, cherries, cucumbers, melons, squash, cotton, eggplant, ornamentals, peaches, pears, peppers, potatoes, pumpkin, seed alfalfa, seed clover, seed peas, soybeans, strawberries, tobacco, tomatoes, walnuts. Gives effective, long-lasting, safe control.

TEDION®. A new selective miticide which affords unusually long control — up to two months with one application — even of mites resistant to other materials. Harmless to beneficial insects and safe for use on nearly all highly sensitive flowering plants. Approved for use on almonds, citrus and deciduous fruit, grapes, walnuts, greenhouse and field ornamentals, greenhouse roses, cotton, seed alfalfa, avocados, mangoes.

ETHION. A phosphate pesticide with both miticidal and insecticidal properties. As a miticide, ethion combines initial kill with long residual action. As an insecticide, it is effective against varying pests including scale on deciduous and citrus fruits, lygus bug on forage, codling moth on apples, leafminers on vegetables, soil maggots and chinch bug on turf. Registered for use on apples, almonds, walnuts, nectarines, peaches, pears, plums, prunes, beans, cherries, cotton, grapes, grapefruit, oranges, melons, onions, peppers seed alfalfa, seed clover, tomatoes, strawberries, turf.

. . . added to Niagara's line of grower-proven agricultural chemicals . . .

NIACIDE. An exceptionally effective yet bland apple fungicide. Controls scab and other fungus diseases, does not encourage spread of mildew. Produces finest texture and color on fruit, with no spots, netting, blotch or russet even on susceptible varieties. Safe for use on all varieties under all climatic conditions.

KOLO MATERIALS. Effective, mild fruit and vegetable fungicides for control of both mildew and scab as well as other orchard fungus diseases. Kolodust, Kolofog and Kolospray are formulations of Kolo sulfur — fused bentonite sulfur. The Kolo 100 materials are combinations of Kolo sulfur and dichlone. Kolo Carbamate and Carbamate Kolodust contain Kolo sulfur and ferbam in balanced formulations.

POLYRAM®. A new fungicide registered for use on potatoes. Checks early *and* late blight. Formulated as an 80% wettable powder, Polyram is compatible with nearly all pesticides used in potato culture. Safe to applicators and foliage. In extensive tests by U. S. Experiment Stations, commercial growers and Niagara, Polyram proved equal or superior to any fungicide previously used.

Tedion® is a registered trademark.
Thiodan® is a registered trademark of Farbwerke Hoechst, A.G.
POLYRAM is a registered trademark of Badische Anilin Soda Fabrik A.G.

For Complete Technical Information, Write to

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5572 NOTT'S 50% DIELDRIN, W. P.-I-Nott
5573 NOTT'S KELTHANE®, 4,4'-Dichloro-*alpha* trichloromethylbenzhydrol 18.5%-I-Nott
5574 NOTT'S KILRAT, Zinc phosphide-R-Nott
5575 NOTT'S 25% LINDANE, W. P.-I-Nott
5576 NOTT'S 25% MALATHION W. P.-I-Nott
5577 NOTT'S ROACH POWDER, DDT, sodium fluoride-I-Nott
5578 NOTT'S WASP SPRAY BOMB, Malathion, dieldrin-IA-Nott
5579 NOTT'S 3 WAY BULB SAVER, Copper 8-quinolinolate 4%, DDT 5%, dried blood 10%, naphthalene 72%, trichloroethane 5%-H-Nott
5580 NOTT'S WETTABLE SULPHUR-FI-Nott
5581 NO. 5 VAPORIZER INSECT SPRAY, N-Octyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-Uncle Sam
5582 NOVEGE®, 2-(2,4,5-Trichlorophenoxy) ethyl 2,2-dichloropropionate 12%-H-Dow
5583 NOXFISH FISH TOXICANT, Rotenoids 10%, rotenone 5%-FT-Penick
5584 NOX-GRASS COTTON HERBICIDE (DSMA), Methanearsonic acid, disodium salt -H-Thomp.-Hayward
5585 NOX-KWIK A 40, Ethylhexyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-U. S. Sanit. Sp.
5586 NPI BIO-GUARD, 15 billion/gram *Bacillus thuringiensis* spores-I-Nutrilite
5587 NPI BIO-GUARD DUST, 5 billion/gram *Bacillus thuringiensis* spores-I-Nutrilite
5588 NPI BIOTROL -2.5 2.5 billion/gram *Bacillus thuringiensis* spores-I-Nutrilite
5589 NPI BIOTROL -5-D, 5 billion/gram *Bacillus thuringiensis* spores-I-Nutrilite
5590 NPI BIOTROL -25-W, 25 billion/gram *Bacillus thuringiensis* spores-I-Nutrilite
5591 NSAE POWDER 85%, Sodium alkyl naphthalene sulfonate-wetting and dispensing agent for DDT and sulfur-A-Onyx Chem.
5592 NU-IRON, Total iron 30% as metallic, chelated iron 10% metallic-N-A-Tenn. Corp.
5593 NU-MANESE, Manganese 48%-A-N-Tenn. Corp.
5593.30 NUODEX 84, Sodium salt of mercaptobenzothiazole 50%-F-Nuodex
5593.35 NUODEX PMA-18, Phenyl mercury acetate (18% Hg)-F-Nuodex
5593.40 NUODEX PMO-10, Phenyl mercury oleate (11% Hg)-F-Nuodex
5593.45 NUODEX 100 SERIES FUNGICIDES, Quaternary ammonium naphthenates-F-Nuodex
5593.50 NUODEX 100 VT®, Quaternary ammonium naphthenates-F-Nuodex
5593.55 NUODEX ZINC 8%, Zinc naphthenate, zinc 8% for cordage and fibers-WP-Nuodex
5593.60 NUOPHENE®, Dichlorophene (dihydroxy-dichlorophenylmethane) technical-F- Nuodex
5594 NUTONEX SULPHUR, Sulfur 94%-FI-Woolfolk
5595 NU-TOX AEROSOL INSECTICIDE, Allethrin .1%, DDT 1%, isobornyl thiocyanoacetate 1.64%, methoxychlor 1%, oil 15.65%, piperonyl butoxide 0.25%-IA-Rex
5596 NUTRALCO, Odorant for pesticide manufacturing-A-Florasynth
5597 OCTOMITE VAPOR, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 10%, schradan 10%-IA-Edco
5598 ODORLESS FORAMBA INSECT SPRAY, N-Octyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-Uncle Sam
5599 OHIO SUPERSPRAY HYDRATED LIME (For spraying and dusting)-A-Ohio Lime Co.
5600 444 OIL TYPE LIQUID GRAIN PROTECTANT, Oil 43-7%, piperonyl butoxide 33%, pyrethrins 3.3%-I-Chem. Spec. Corp.
5600.50 OMITE®-85E, 2-2-(*p-tert*. Butylphenoxy)-isopropoxy isopropyl 2-chloroethyl sulfite 85%-I-U. S. Rubber (Naugatuck)
5601 ORCHARD BRAND ALDRIN EM-2 EMULSIFIABLE CONC., Aldrin 2 lbs./gal.-I-Gen. Chem.
5602 ORCHARD BRAND 20% ALDRIN GRANULAR DUST BASE, Aldrin 20%-IC-Gen. Chem.
5603 ORCHARD BRAND ALDRIN EM-4 EMULSIFIABLE CONC., Aldrin 4 lbs./gal.-I-Gen. Chem.
5604 ORCHARD BRAND ASTRINGENT LEAD ARSENATE, Lead arsenate 96%-I-Gen. Chem.
5605 ORCHARD BRAND BASIC LEAD ARSENATE, Basic lead arsenate 97%-I-Gen. Chem.
5606 ORCHARD BRAND BHC EM-1 EMULSIFIABLE CONC., Gamma BHC 11.4% (1 lb./gal.)-I-Gen. Chem.
5607 ORCHARD BRAND TRI-BASIC BORDEAUX MIXTURE, Basic copper sulfate (copper 12.75%)-F-Gen. Chem.
5608 ORCHARD BRAND CALCIUM ARSENATE, Calcium arsenate 69.28%-I-Gen. Chem.
5609 ORCHARD BRAND DDT EM-2 EMULSIFIABLE CONC., DDT 25.1% (2 lbs./gal.)-I-Gen. Chem.
5610 ORCHARD BRAND 50% DDT WETTABLE POWDER-I-Gen. Chem.
5611 ORCHARD BRAND 75% DDT WETTABLE POWDER-I-Gen. Chem.

5612 ORCHARD BRAND DIELDRIN EM- 1½ EMULSIFIABLE CONC., Dieldrin 15.5%, related compds. 2.7% (1.5 lbs./gal.)-I-Gen. Chem.
5613 ORCHARD BRAND 50% DIELDRIN WETTABLE POWDER-I-Gen. Chem.
5614 ORCHARD BRAND DRITOMIC SULFUR, Sulfur 95%-FI-Gen. Chem.
5615 ORCHARD BRAND ENDRIN EM 1.6, Endrin 19.5% (1.6 lbs./gal.)-I-Gen. Chem.
5616 ORCHARD BRAND 75% ENDRIN WETTABLE POWDER-I-Gen. Chem.
5617 ORCHARD BRAND FERBAM, Ferbam 76%-F-Gen. Chem.
5618 ORCHARD BRAND FERBAM DUST BASE, Ferbam 87.5%-F-Gen. Chem.
5619 ORCHARD BRAND FILMFAST SPREADER-STICKER-A-Gen. Chem.
5620 ORCHARD BRAND G-10 BHC WETTABLE POWDER, Gamma BHC 10%-I-Gen. Chem.
5621 ORCHARD BRAND G-12 BHC WETTABLE POWDER, Gamma BHC 12%-I-Gen. Chem.
5622 ORCHARD BRAND GENICOP WETTABLE POWDER, Basic copper sulfate 37%, DDT 25%-FI-Gen. Chem.
5623 ORCHARD BRAND GENITE® 923 EMULSIFIABLE CONCENTRATE MITICIDE, 2,4-Dichlorophenyl ester of benzenesulfonic acid 50%-I-Gen. Chem.
5624 ORCHARD BRAND 50% GENITE® 923 WETTABLE POWDER, 2,4-Dichlorophenyl ester benzenesulfonic acid 50%-I-Gen. Chem.
5625 ORCHARD BRAND GENITOX 50% DDT WETTABLE POWDER-I-Gen. Chem.
5626 ORCHARD BRAND HEPTACHLOR EM-2, Heptachlor 2 lbs./gal.-I-Gen. Chem.
5627 ORCHARD BRAND HI SUSPENSION CALCIUM ARSENATE-I-Gen. Chem.
5628 ORCHARD BRAND LIME SULFUR SOLN., Calcium polysulfide 29%-FI-Gen. Chem.
5629 ORCHARD BRAND 20% LINDANE EMULSIFIABLE CONC., Gamma BHC 20%-I-Gen. Chem.
5630 ORCHARD BRAND 25% LINDANE SEED CORN TREATER, Lindane 25%-ST-Gen. Chem.
5631 ORCHARD BRAND 25% LINDANE WETTABLE POWDER, Lindane 25%-I-Gen. Chem.
5632 ORCHARD BRAND MALATHION EM-5 EMULSIFIABLE CONCENTRATE-I-Gen. Chem.
5633 ORCHARD BRAND MALATHION 50% EMULSIFIABLE CONC.-I-Gen. Chem.
5634 ORCHARD BRAND 25% MALATHION WETTABLE POWDER-I-Gen. Chem.
5635 ORCHARD BRAND MERCURY SPRAY, Phenyl mercuric acetate 10%-F-Gen. Chem
5636 ORCHARD BRAND METHOXYCHLOR EM-2 EMULSIFIABLE CONC., Methoxychlor 25% (2 lbs./gal.)-I-Gen. Chem.
5637 ORCHARD BRAND 50% METHOXYCHLOR WETTABLE SPRAY POWDER-I-Gen. Chem.
5638 ORCHARD BRAND MICRO-DRITOMIC SULFUR, Sulfur 95%-FI-Gen. Chem.
5639 ORCHARD BRAND NABAM LIQUID FUNGICIDE, Nabam 22%-F-Gen. Chem.
5640 ORCHARD BRAND PARATHION EM-2, Parathion 25%-I-Gen. Chem.
5641 ORCHARD BRAND PARATHION EM-4 EMULSIFIABLE CONC., Parathion 46.5% (4 lbs./gal.)-I-Gen. Chem.
5642 ORCHARD BRAND PARATHION EM-9 EMULSIFIABLE CONCENTRATE-I-Gen. Chem.
5643 ORCHARD BRAND 15% PARATHION WETTABLE POWDER-I-Gen. Chem.
5644 ORCHARD BRAND 25% PARATHION WETTABLE POWDER-I-Gen. Chem.
5645 ORCHARD BRAND PHOSDRIN® EM-2, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 15.2%-I-Gen. Chem.
5646 ORCHARD BRAND PHYGON® NUGGETS, Dichlone 50%-F-Gen. Chem.
5647 ORCHARD BRAND PHYGON® WETTABLE POWDER, Dichlone 50%-F-Gen. Chem.
5648 ORCHARD BRAND PLYAC SPREADER-STICKER-A-Gen. Chem.
5649 ORCHARD BRAND PURATIZED® AGRICULTURAL SPRAY, Phenyl mercuric triethanol ammonium lactate 7.5%-F-Gen. Chem.
5650 ORCHARD BRAND SPERGON® WETTABLE POWDER, Chloranil 95%-F-Gen. Chem.
5651 ORCHARD BRAND 340 SPRAYCOP, Copper 34%-F-Gen. Chem.
5652 ORCHARD BRAND 530 SPRAYCOP, Copper 53%-F-Gen. Chem.
5653 ORCHARD BRAND STAFAST SPRAY POWDER, Naphthalene acetic acid 3.5%-PH-Gen. Chem.
5654 ORCHARD BRAND STANDARD LEAD ARSENATE, Lead arsenate 97%-I-Gen. Chem.
5655 ORCHARD BRAND STA-SET, Pre-harvest drop control, triethanolamine salt of alpha (2,4,5-trichlorophenoxy) propionic acid 10.6%-PH-Gen. Chem.
5656 ORCHARD BRAND TDE 75% DUST BASE, TDE 75%-I-Gen. Chem.
5657 ORCHARD BRAND TDE EM-2, TDE 25%-I-Gen. Chem.
5658 ORCHARD BRAND 50% TDE WETTABLE POWDER-I-Gen. Chem.

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5659 ORCHARD BRAND 25% TEDION® W. P., 2,4,5,4'-Tetrachlorodiphenyl sulphone 25%-I-Gen. Chem.
5660 ORCHARD BRAND 40% TEPP-I-Gen. Chem.
5661 ORCHARD BRAND WETTABLE SULFUR-FI-Gen. Chem.
5662 ORCHARD BRAND X-77 SPREADER-ACTIVATOR, Mixed fatty acids and isopropanol petroleum glycols-A-Gen. Chem.
5663 ORCHARD BRAND ZINEB WETTABLE POWDER (65%)-F-Gen. Chem.
5664 ORCHARD BRAND ZIRAM (76%)-F-Gen. Chem.
5665 ORTHO ADHESIVE FLOWABLE, Ammonium caseinate, oil 80%-A-Calif. Chem.
5672 ORTHO ALDRIN 5 DUST, Aldrin 4.75%-I-Calif. Chem.
5673 ORTHO ALDRIN 2 EMULSIVE, Aldrin 23%-I-Calif. Chem.
5674 ORTHO ALDRIN 4 EMULSIVE, Aldrin 22.6%-I-Calif. Chem.
5675 ORTHO ALDRIN 4 PLANT FOOD ADDITIVE, Aldrin 40.5%-I-Calif. Chem.
5676 ORTHO ALDRIN 5 GRANULAR, Aldrin 4.75%-I-Calif. Chem.
5677 ORTHO ALDRIN 25 GRANULAR, Aldrin 23.8%-I-Calif. Chem.
5679 ORTHO ALDRIN 25 WETTABLE, Aldrin 23.8%-I-Calif. Chem.
5680 ORTHO ANT POWDER, Dieldrin 0.6%-I-Calif. Chem.
5681 ORTHO ANT & ROACH BOMB, Dieldrin 0.30%, malathion 2%, piperonyl butoxide 0.12%, pyrethrins 0.05%-IA-Calif. Chem.
5682 ORTHO AQUATIC WEED KILLER 60, Oil 95%-H-Calif. Chem.
5683 ORTHO ARAMITE® 3 DUST, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 3%-I-Calif. Chem.
5686 ORTHO ARAMITE® 15 WETTABLE, 2-(*p-tert*-Butylphenoxy)-isopropyl-2'-chloroethyl sulfite 15%-I-Calif. Chem.
5687 ORTHO ARMYWORM SPRAY, Toxaphene 60%-I-Calif. Chem.
5688 ORTHO BASIC LEAD ARSENATE (96%)-I-Calif. Chem.
5690 ORTHO BERMUDA MITE SPRAY, Chlorbenside 1%, diazinon 12.5%-I-Calif. Chem.
5691 ORTHO BHC-DDT 3-10 DUST, Gamma BHC 3%, DDT 5%-I-Calif. Chem.
5692 ORTHO BHC-DDT 1.2-2 EMULSIVE, Gamma BHC 13.1%, isomers 1.4%, DDT 21.8%-I-Calif. Chem.
5694 ORTHO BHC-DDT-SULFUR 3-10-40 DUST, Gamma BHC 3%, DDT 10%, sulfur 40%-FI-Calif. Chem.
5695 ORTHO BHC 1 DUST, Gamma BHC 1%-I-Calif. Chem.
5696 ORTHO BHC 1 EMULSIVE, Gamma BHC 11.7%, I-Calif. Chem.
5697 ORTHO BHC-SULFUR 2-50 DUST, Gamma BHC 2%, sulfur 50%-FI-Calif. Chem.
5698 ORTHO BHC 10 WETTABLE, Gamma BHC 10%, I-Calif. Chem.
5700 ORTHO BORER SPRAY, Lindane 20%-I-Calif. Chem.
5701 ORTHO BRUSH KILLER, Tetrahydrofurfuryl ester of 2,4,5-T 17%-H-Calif. Chem.
5702 ORTHO BUG-GETA MEAL, Calcium arsenate 6.6%, metaldehyde 1.75%-IB-Calif. Chem.
5703 ORTHO BUG-GETA PELLETS, Calcium arsenate 5%, metaldehyde 3.25%-IB-Calif. Chem.
5704 ORTHO C-56 JOHNSON GRASS CONTROL, Hexachlorocyclopentadiene 41.6%, oil 58.4%-H-Calif. Chem.
5705 ORTHO CALCIUM ARSENATE, Calcium arsenate 70%-I-Calif. Chem.
5706 ORTHO CARROT WEED OIL, Petroleum oils 100%-H-Calif. Chem.
5707 ORTHO CATTLE GRUB SPRAY OR DUST, Rotenone 5%, rotenoids 5%-I-Calif. Chem.
5708 ORTHO C-B WEED KILLER, Sodium chlorate 40%, sodium pentaborate 45%, sodium tetraborate 11%-H-Calif. Chem.
5709 ORTHO CHICKWEED AND CLOVER KILLER, Iso-octyl ester of Silvex 13.8%-H-Calif. Chem.
5710 ORTHO CHLORDANE 1.5 BAIT, Chlordane 1.5%-IB-Calif. Chem.
5711 ORTHO CHLORDANE 5 DUST, Chlordane 5%-I-Calif. Chem.
5712 ORTHO CHLORDANE 8 EMULSIVE, Chlordane 72%-I-Calif. Chem.
5713 ORTHO CHLORDANE 40 WETTABLE, Chlordane 40%-I-Calif. Chem.
5714 ORTHO CHLOREA WEED KILLER, Sodium chlorate 40%, sodium metaborate 57%, monuron 1%-H-Calif. Chem.
5715 ORTHO 3 CHLORO IPC 4 WEED KILLER, IPC 46%-H-Calif. Chem.
5717 ORTHO COPPER 53 FUNGICIDE, Basic cupric sulfate 53%-F-Calif. Chem.
5719 ORTHO 2,4,-D AMINE 4, Dimethylamine salt of 2,4-D 49.4%-H-Calif. Chem.
5720 ORTHO 2,4-D BUTYL ESTER 2.65, 2,4-D, Butyl ester 39.4%-H-Calif. Chem.
5721 ORTHO 2,4-D BUTYL ESTER 4, Butyl ester of 2,4-D-H-Calif. Chem.
5722 ORTHO 2,4-D BUTYL ESTER 6E, Butyl ester of 2,4-D 78.5%-H-Calif. Chem.
5723 ORTHO 2,4-D ESTER 3.34, Isopropyl ester of 2,4-D 45.3%-H-Calif. Chem.
5724 ORTHO 2,4-D LV ESTER 4, Iso octyl ester of 2,4-D 69.1%-H-Calif. Chem.

READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH LABEL CAUTIONS, WARNINGS AND DIRECTIONS; AND IN CONFORMITY WITH FEDERAL AND STATE REGULATIONS.

The most important 21 words in pest control

Those words pretty well speak for themselves. It takes thousands of hours of tests to come up with those label directions—laboratory and field tests conducted by the ORTHO staff of agricultural scientists—the largest in the industry. Tests that have to meet the stringent standards of government agencies.

But the important thing is what happens when you use the product. And following the label directions has always been the best way to make sure that you get the safest, most effective and economical performance possible. That's why the label should always be read and understood before any chemical product is used. And that's why our dealers and fieldmen are always ready to help with any questions you might have.

ORTHO

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200 Bush Street, San Francisco 20, California

ORTHO, HELPING THE WORLD GROW BETTER

ON ALL CHEMICALS READ DIRECTIONS AND CAUTIONS BEFORE USE

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5725 ORTHO 2,4,D LV 20 GRANULAR WEED KILLER 2,4-D Acid equivalent 20%-H-Calif. Chem.
5726 ORTHO DAIRY AND STOCK FLY SPRAY, Oil, pine oil, pyrethrins, piperonyl butoxide, 2,3,4, 5 bis (Δ 2-butylene), tetrahydrofurfural-I-Calif. Chem.
5727 ORTHO D-D® SOIL FUMIGANT, Chlorinated C_3 hydrocarbons 100%-IF-Calif. Chem.
5729 ORTHO DDT COPPER 5-8 DUST, Copper 8%, DDT 5%-FI-Calif. Chem.
5730 ORTHO DDT-COPPER-SULFUR 5-5-50 DUST, Copper 5%, DDT 5%, sulfur 50%-FI-Calif. Chem.
5731 ORTHO DDT 5 CORN BORER GRANULES, DDT 5%-I-Calif. Chem.
5732 ORTHO DDT 5 DUST, DDT 5%-I-Calif. Chem.
5733 ORTHO DDT 2 EMULSIVE, DDT 25%-I-Calif. Chem.
5735 ORTHO DDT 10 GRANULAR, DDT 10%-I-Calif. Chem.
5737 ORTHO DDT MALATHION 5-4 TOBACCO DUST, DDT 5%, malathion 4%-I-Calif. Chem.
5738 ORTHO DDT 75 MICRO CONC., DDT 75%-I-Calif. Chem.
5739 ORTHO DDT-PARATHION 10-1 DUST, DDT 10%, parathion 1%-I-Calif. Chem.
5740 ORTHO DDT-PARATHION-SULFUR 5-1-50 DUST, DDT 5%, parathion 1%, sulfur 50%-FI-Calif. Chem.
5741 ORTHO DDT-PARATHION TOXAPHENE 5-2-15 DUST, DDT 5%, parathion 2%, toxaphene 15%-I-Calif. Chem.
5743 ORTHO DDT-PARATHION-ZINEB-SULFUR 5-1-3.25-15 DUST, DDT 5%, parathion 1%, sulfur 15%, zineb 3.25%-FI-Calif. Chem.
5743.50 ORTHO DDT-PARATHION-ZINEB 5-1-5 DUST, DDT 5%, parathion 1%, zineb 5%-FI-Calif. Chem.
5743.75 ORTHO DDT-ZINEB 5-5 DUST, DDT 5%, zineb 5%-FI-Calif. Chem.
5744 ORTHO DDT 25 SPRAY, DDT 25%-I-Calif. Chem.
5745 ORTHO DDT-SULFUR 5-50 DUST, DDT 5%, sulfur 50%-FI-Calif. Chem.
5746 ORTHO DDT 4.5 VAPO-DUST, DDT 4.5%, oil 89%-I-Calif. Chem.
5747 ORTHO DDT 50 WETTABLE, DDT 50%-I-Calif. Chem.
5748 ORTHO DDT 75 WETTABLE, DDT 75%-I-Calif. Chem.
5752 ORTHO DESICCANT OIL, Petroleum hydrocarbons 100%-D-Calif. Chem.
5753 ORTHO DIBROM 14 CONCENTRATE, Naled 91%-I-Calif. Chem.
5754 ORTHO DIBROM® 4 DUST, Naled 4%-I-Calif. Chem.
5755 ORTHO DIBROM® 8 EMULSIVE, Naled 64.5%-I-Calif. Chem.
5756 ORTHO DIBROM® ENDRIN 4-1.5 DUST, Endrin 1.5%, naled 4%-I-Calif. Chem.
5756.50 ORTHO DIBROM FLY SPRAY, Naled 1%-I-Calif. Chem.
5757 ORTHO DIBROM® ISOTOX 2.5-1 DUST, Lindane 1%, naled 2.5%-I-Calif. Chem.
5758 ORTHO DIBROM® KARTHANE® 2-1 DUST, Dinitro (1-methyl hepthyl) phenyl crotonate 0.9%, naled 2%-FI-Calif. Chem.
5759 ORTHO DIBROM® KELTHANE® 2-3 DUST, 4,4'-Dichloro-alpha-trichloromethyl-benzhydrol 4%, naled 2%-I-Calif. Chem.
5760 ORTHO DIBROM KELTHANE®-SULFUR 4-4-30 DUST, 1,1-bis (chlorophenyl) 2,2, 22-trichloroethanol 4%, naled 4%, sulfur 30%-FI-Calif. Chem.
5761 ORTHO DIBROM® LAWN SPRAY, Lindane 4.8%, naled 17.9%-I-Calif. Chem.
5762 ORTHO DIBROM® SEVIN® 2-5 DUST, Carbaryl 5%, naled 2%-I-Calif. Chem.
5762.50 ORTHO DIBROM 235 SPRAY, Naled 26%-I-Calif. Chem.
5763 ORTHO DIBROM® SULFUR 4-20 DUST, Naled 4%, sulfur 20%-FI-Calif. Chem.
5767 ORTHO DIELDRIN 1.5 DUST, Dieldrin 1.5%-I-Calif. Chem.
5768 ORTHO DIELDRIN 1.5 EMULSIVE, Dieldrin 18.5%, oils 79%-I-Calif. Chem.
5769 ORTHO DIELDRIN 10 GRANULAR, Dieldrin 10%-I-Calif. Chem.
5770 ORTHO DIELDRIN SPRAY, Aromatic oil 79%, dieldrin 18.6%-I-Calif. Chem.
5772 ORTHO DIELDRIN 50 WETTABLE, Dieldrin 50%-I-Calif. Chem.
5773 ORTHO DILAN® 5 EMULSIVE, 2-Nitro-1, 1-bis (*p*-chlorophenyl), propane 14.91%, 2-Nitro-1, 1-bis (*p*-chlorophenyl), butane 29.8%, related compounds 11.20%, oil 40%-I-Calif. Chem.
5774 ORTHO DIQUAT, 1,1'-Ethylene-2,2'-dipyridylium dibromide 37%-H-Calif. Chem.
5775 ORTHO DORMANT SPRAY, Calcium polysulfides 4.6%, petroleum oils 58%-FI-Calif. Chem.
5777 ORTHO DUSTING SULFUR, Sulfur 98%-FI Calif. Chem.
5779 ORTHO EARWIG BAIT, Sodium fluosilicate 5%-IB-Calif. Chem.
5780 ORTHO ENDRIN CUTWORM BAIT, Endrin 1.75%-IB-Calif. Chem.
5781 ORTHO ENDRIN 1.5 DUST, Endrin 1.5%-I-Calif. Chem.
5782 ORTHO ENDRIN 1.6 EMULSIVE, Endrin 19.5%, oil 70.5%-I-Calif. Chem.
5785 ORTHO ETHION 4 DUST, Ethion 4%-I-Calif. Chem.
5786 ORTHO ETHION 4 EMULSIVE, 46.5%, Aromatic oil 37.5%-I-Calif. Chem.
5787 ORTHO ETHION 8 GRANULAR, Ethion 8%-I-Calif. Chem.

5788 ORTHO ETHION 25 WETTABLE, Ethion 25%-I-Calif. Chem.
5789 ORTHO ETHYLENE DIBROMIDE 83 SOIL FUMIGANT, Ethylene dibromide 83%-IF-Calif. Chem.
5790 ORTHO FERBAM 7.6 DUST, Ferbam 7.6%-F-Calif. Chem.
5790.50 ORTHO FERBAM 76 FUNGICIDE (76%)-F-Calif. Chem.
5791 ORTHO FLY KILLER D, Naled 41%-IB-Calif. Chem.
5792 ORTHO FLY KILLER DRY BAIT, Malathion 2%-IB-Calif. Chem.
5793 ORTHO FLY SPRAY, Methoxychlor 0.50%, oils 98.65%, piperonyl butoxide 0.50%, pyrethrins 0.05%, organic thiocyanates 0.25%-I-Calif. Chem.
5794 ORTHO FRUIT TREE SPRAY, DDT 20%, 4,4'-dichloro-alpha-trichloro-methyl-benzhydrol 3%, oil 28%, malathion 2%-I-Calif. Chem.
5794.50 ORTHO GARBAGE CAN SPRAY, Methyldodecylbenzyl trimethyl ammonium chloride 0.20%, Methyldodecylxylylenebis (trimethyl ammonium chloride) 0.05%, 3,5,4' tribomo salicylanilide-FI-Calif. Chem.
5795 ORTHO GRAIN FUMIGANT (73), Ethylene dibromide 70%, methyl bromide 29.5%-IF-Calif. Chem.
5797 ORTHO GRAIN SPRAY, Malathion 57%-I-Calif. Chem.
5800 ORTHO HEPTACHLOR .5 DUST, Heptachlor 0.5%-I-Calif. Chem.
5801 ORTHO HEPTACHLOR 2 EMULSIVE, Heptachlor 23.4%-I-Calif. Chem.
5802 ORTHO HEPTACHLOR 20 GRANULAR, Heptachlor 20%-I-Calif. Chem.
5803 ORTHO HEPTACHLOR 25 SEED PROTECTANT, Heptachlor 25%-I-Calif. Chem.
5804 ORTHO HEPTACHLOR 25 WETTABLE, Heptachlor 25%-I-Calif. Chem.
5805 ORTHO HOME & GARDEN INSECT BOMB, Methoxychlor 2%, piperonyl butoxide 0.5%, pyrethrins 0.05%-IA-Calif. Chem.
5806 ORTHO HOME ORCHARD SPRAY, Captan 15%, malathion 7.5%, methoxychlor 15%-FI-Calif. Chem.
5807 ORTHO HORNET & WASP BOMB, Dieldrin 0.3%, piperonyl butoxide 0.3%, pyrethrins 0.04%-I-Calif. Chem.
5808 ORTHO HOUSEHOLD INSECT BOMB, Malathion 1%, piperonyl butoxide 0.2%, pyrethrins 0.025%, oil 46.525%, terpene polychlorinates 1%-IA-Calif. Chem.
5809 ORTHO IMPROVED HOUSEHOLD INSECT BOMB, Isobornyl thiocyanoacetate 0.82%, piperonyl butoxide 0.2%, pyrethrins 0.025%, ronnell 0.4%, terpene polychlorinates-IA-Calif. Chem.
5810 ORTHO INDOOR PLANT BOMB, Oil 0.18%, piperonyl cyclonene 0.25%, pyrethrins 0.02%, *rotenone* 0.13%, *rotenoids* 0.26%-IA-Calif. Chem.
5811 ORTHO INSTANT BLUESTONE, Cupric sulfate pentahydrate 94.3%-F-Calif. Chem.
5812 ORTHO KARTHANE® 1 DUST (1-methyl heptyl) phenyl crotonate 0.9%,-FI-Calif. Chem.
5813 ORTHO KELTHANE® 4 DUST, 4,4'-Dichloro-alpha-trichloromethyl-benzhydrol 4%-I-Calif. Chem.
5814 ORTHO KELTHANE®-DDT 3-10 DUST, DDT 10%, 4,4'-dichloro-alpha-trichloro-methyl-benzhydrol-3%-I-Calif. Chem.
5815 ORTHO KELTHANE®-KARTHANE® 3-.75 DUST, Dinitro (1-methyl heptyl) phenyl crotonate 0.67%, other nitro phenols 0.08%, 4,4'-dichloro-alpha-trichloro-methyl benzhydrol 3%-FI-Calif. Chem.
5816 ORTHO KELTHANE®-MALATHION 3-3 DUST, 4,4'-Dichloro-alpha-trichloro-methyl-benzhydrol 3% malathion 3%-I-Calif. Chem.
5817 ORTHO KELTHANE®-TDE 4-10 DUST, 4,4'-Dichloro-alpha-trichloromethyl-benzhydrol 4%, TDE 10%-I-Calif. Chem.
5818 ORTHO KELTHANE®-TOXAPHENE 3-10 DUST, 4,4'-Dichloro-alpha-trichloro-methyl-benzhydrol 3%, toxaphene 10%-I-Calif. Chem.
5819 ORTHO KLEEN STOCK SPRAY OR DIP, Lindane 1.7%, oil derivs. 0.1%, toxaphene 43.4%-I-Calif. Chem.
5821 ORTHO LAWN DISEASE CONTROL, Cadmium carbonate 3%, captan 25%, pentachloronitrobenzene 50%-F-Calif. Chem.
5822 ORTHO LAWN FUNGICIDE, Captan 60%, carbonate 5.3%, gamma BHC 1.5%-FI-Calif. Chem.
5823 ORTHO LAWN GARDEN DIELDRIN GRANULES, Dieldrin 3.4%, lindane 1%-I-Calif. Chem.
5824 ORTHO LAWN GROOM, Lindane 0.25%, 2,4-D 1%-H-Calif. Chem.
5825 ORTHO LAWN SPRAY, BHC 3.5%, DDT 23.5%-I-Calif. Chem.
5826 ORTHO LAWN & TURF FUNGICIDE, Cadmium carbonate 5%, N-trichloromethyl-thiophthalimide 60%, thiram 10%-F-Calif. Chem.
5827 ORTHO LIME-SULFUR SOLN., Calcium polysulfides, (Sulfur 29%)-FI-Calif. Chem.
5827.50 ORTHO LINDANE 95 (95%)-IC-Calif. Chem.
5828 ORTHO LIQUID CRAB GRASS KILLER (AMA), Octyl ammonium methyl arsonate 8%, dodecyl ammonium methyl arsonate 8%-H-Calif. Chem.

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5829 ORTHO L M APPLE SPRAY, Methyl mercury 8-hydroxyquinolinate 10.2%-F-Calif. Chem.
5830 ORTHO L M SEED PROTECTANT, Methyl mercury 8-hydroxyquinolinate 2.25%-F-Calif. Chem.
5831 ORTHO L M SEED PROTECTANT (CONCENTRATE), Methyl mercury 8-hydroxyquinolinate 7.5%-F-Calif. Chem.
5832 ORTHO L M SEED PROTECTANT (DRY), Methyl mercury 8-hydroxyquinolinate 5.7%-F-Calif. Chem.
5833 ORTHO LOUSE, TICK & FLEA POWDER, Lindane 1%-I-Calif. Chem.
5834 ORTHO LOW LIME CALCIUM ARSENATE, Calcium arsenate 70%-I-Calif. Chem.
5835 ORTHO L V BRUSH KILLER TD-2, Iso octyl ester 2,4-D 34.2%, iso octyl ester 2,4,5-T 32.7%-H-Calif. Chem.
5836 ORTHO MALATHION-DDT 5-10 DUST, DDT 10%, malathion 5%-I-Calif. Chem.
5837 ORTHO MALATHION 5 DUST, Malathion 5%-I-Calif. Chem.
5838 ORTHO MALATHION 5 EMULSIVE, Malathion 55.7%-I-Calif. Chem.
5839 ORTHO MALATHION 8 EMULSIVE, Malathion 80%-I-Calif. Chem.
5840 ORTHO MALATHION 8 FLOW CONCENTRATE, Malathion 81%-I-Calif. Chem.
5841 ORTHO MALATHION-KARTHANE® 4-1 DUST, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 1%, malathion 4%-FI-Calif. Chem.
5841.50 ORTHO MALATHION 5 LIVESTOCK DUST, Malathion 5%-I-Calif. Chem.
5842 ORTHO MALATHION 50 SPRAY, Malathion 50%, oil 39%-I-Calif. Chem.
5843 ORTHO MALATHION SULFUR 4-25 DUST, Malathion 4%, sulfur 25%-FI-Calif. Chem.
5846 ORTHO MALATHION 25 WETTABLE, Malathion 25%-I-Calif. Chem.
5847 ORTHO MC DEFOLIANT, Sodium chlorate 41.5%-H-Calif. Chem.
5848 ORTHO MELON & CUCUMBER DUST OR SPRAY, Lindane 1%, zineb 4%-FI-Calif. Chem.
5850 ORTHO METHYL BROMIDE SOIL FUMIGANT, Methyl bromide 98%-H-IF-Calif. Chem.
5850.50 ORTHO METHYL PARATHION-DDT 1.5-20 DUST-I-Calif. Chem.
5851 ORTHO METHYL PARATHION 2.5 DUST, O-O-Dimethyl O-p-nitrophenyl thiophosphate 2.5%-I-Calif. Chem.
5853 ORTHO METHYL PARATHION 2 EMULSIVE, Oils 65%, O,O-Dimethyl O-p-nitrophenyl phosphorothioate 25%-I-Calif. Chem.
5854 ORTHO METHYL PARATHION-TDE-ZINEB 2-5-5.2 DUST, O,O-Dimethyl O-p-nitrophenyl phosphorothioate 2%, TDE 5%, zineb 5.2%-FI-Calif. Chem.
5855 ORTHO METHYL PARATHION-TOXAPHENE 2.5-20 DUST, Toxaphene 20%, O,O-Dimethyl O-p-nitrophenyl phosphorothioate 2.5%-I-Calif. Chem.
5856 ORTHO MITOX® 3 DUST, Chlorbenside 3%-I-Calif. Chem.
5856.60 ORTHO MITOX 40 WETTABLE, Chlorbenside 40%-I-Calif. Chem.
5856.75 ORTHO MOSQUITO & FLY BOMB, Isobornyl Thiocyanoacetate 0.820%, oil 46.525%, pyrethrins 0.025%, ronnel 0.400%, piperonyl butoxide 0.200%, terpene polychlorinates 1%-IA-Calif. Chem.
5857 ORTHO MULTI-PURPOSE GARDEN SPRAY, Copper oleate 15%, pyrethrins 0.40%, rotenone 1.25%-FI-Calif. Chem.
5858 ORTHO N-P 90 OIL EMUL., Oil 90%-I-Calif. Chem.
5859 ORTHO PARATHION 2 DUST, Parathion 2%-I-Calif. Chem.
5861 ORTHO NEMAGON® 45 SOIL FUMIGANT, 1,2-Dibromo-3-chloropropane 45.4%, related compounds 0.9%-IF-Calif. Chem.
5862 ORTHO ORCHARD MOUSE BAIT, Zinc phosphide 2%-R-Calif. Chem.
5863 ORTHO PARATHION-SULFUR 2-50 DUST, Parathion 2%, sulfur 50%-FI-Calif. Chem.
5865 ORTHO PARATHION 2 EMULSIVE, Parathion 25%-I-Calif. Chem.
5866 ORTHO PARATHION 4 EMULSIVE, Parathion 45.6%-I-Calif. Chem.
5867 ORTHO PARATHION 4 FLOWABLE, Parathion 43.7%-I-Calif. Chem.
5868 ORTHO PARATHION 8 FLOW CONCENTRATE, Parathion 79.5%-I-Calif. Chem.
5871 ORTHO PARATHION SULFUR 3.75-70 WETTABLE, Parathion 3.75%, sulfur 70%-FI-Calif. Chem.
5872 ORTHO PARATHION-TDE 1-10, Parathion 1%, TDE 10%-I-Calif. Chem.
5876 ORTHO PARATHION 15 WETTABLE, Parathion 15%-I-Calif. Chem.
5877 ORTHO PARATHION 25 WETTABLE, Parathion 25%-I-Calif. Chem.
5878 ORTHO PARATHION ZINEB 1-4 DUST, Parathion 1%, zineb 4%-FI-Calif. Chem.
5879 ORTHO PCNB-DIELDRIN 15-2 SOIL TREATER, Dieldrin 2%, pentachloronitrobenzene 15%-FI-Calif. Chem.
5880 ORTHO PCNB 20 DUST, Pentachloronitrobenzene 20%-F-Calif. Chem.
5881 ORTHO 2.5-3.5-80 PEANUT DUST, Copper 3.4%, DDT 2.5%, sulfur 80.7%-FI-Calif. Chem.

5881.50 ORTHO PECAN TREE SPRAY, DDT 23.5%, 4,4'-dichloro-*alpha*-trichloromethylbenzhydrol 3%, malathion 12.5%-I-Calif. Chem.
5882 ORTHO PELLETED RAT & MICE BAIT, Warfarin 0.025%-R-Calif. Chem.
5883 ORTHO PHALTAN ROSE & GARDEN FUNGICIDE, Folpet 75%-F-Calif. Chem.
5884 ORTHO PHALTAN TECHNICAL, Folpet 88%-F-Calif. Chem.
5885 ORTHO PHOSDRIN® 2 DUST, 2-Carbomethoxy-1-propen-2yl-dimethyl phosphate 1.2%-I-Calif. Chem.
5886 ORTHO PERTHANE® 2 EMULSIVE, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 25%-I-Calif. Chem.
5886.50 ORTHO PHOSDRIN 4 EMULSIVE, 2-Carbomethoxy-1-methylvinyl dimethyl phosphate 28.1%-I-Calif. Chem.
5887 ORTHO PHOSDRIN®-PERTHANE® 2-5 DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%, 1,1-dichloro-2,2-bis (p-ethylphenyl) ethane 5%-I-Calif. Chem.
5888 ORTHO PHOSDRIN® SULFUR 2-30 DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%, sulfur 30%-FI-Calif. Chem.
5889 ORTHO PHOSDRIN®-ZINEB 2-5 DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%, zineb 5%-FI-Calif. Chem.
5890 ORTHO PHOSPHAMIDON 4 SPRAY, Phosphamidon 49%-I-Calif. Chem.
5891 ORTHO PHYGON®-SULFUR 2-30 DUST, Dichlone 2%, sulfur 30%-FI-Calif. Chem.
5892 ORTHO PMA SPRAY, OR DIP, Phenyl mercuric acetate 10%-F-Calif. Chem.
5893 ORTHO POTATO VINE KILLER, Sodium arsenite 52.5%-H-Calif. Chem.
5895 ORTHO RICE SEED PROTECTANT, Captan 9.4%, aldrin 12.6%, hardwood oil 1%-FI-Calif. Chem.
5897 ORTHO ROSE DUST, DDT 5.0%, lindane 1.0%, sulfur 30.0%, N-trichloromethyl thiophthalimide 7.5%-FI-Calif. Chem.
5898 ORTHO ROSE & FLOWER BOMB, *p*-Chlorophenyl *p*-chlorobenzene-sulfonate 0.124%, lindane 0.5%, N-propyl isome 0.25%, rotenone 0.2%, N-trichloromethyl thiophthalimide 0.5%-IA-Calif. Chem.
5900 ORTHO ROTENONE 1 DUST, Rotenone 1%, rotenoids 1%-I-Calif. Chem.
5901 ORTHO ROTENONE DUST OR SPRAY, Rotenone 1%, rotenoids 1%-I-Calif. Chem.
5903 ORTHO ROTENONE 5 WETTABLE, Rotenone 5%, rotenoids 10%-I-Calif. Chem.
5904 ORTHO 1038 SCREW WORM BOMB, DDT 13.6%, lindane 2.4%, oils 33%-IA-Calif. Chem.
5905 ORTHO 1038 SCREW WORM CONTROL, DDT 25%, lindane 4.5%, oils 57%-IR-Calif. Chem.
5906 ORTHO SEED GUARD WETTABLE, Captan 50%, lindane 25%-ST-Calif. Chem.
5907 ORTHO SEVIN® 5 DUST, 1-Naphthyl-N-methylcarbamate 7.5%-I-Calif. Chem.
5908 ORTHO SEVIN® GARDEN SPRAY, 1-Naphthyl-N-methylcarbamate 50%-I-Calif. Chem.
5909 ORTHO SEVIN® 50 WETTABLE, 1-Naphthyl N-methylcarbamate 50%-I-Calif. Chem.
5910 ORTHO SEVIN®-KELTHANE® 4-3 DUST, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 3%, 1-naphthyl N-methylcarbamate 4%-I-Calif. Chem.
5911 ORTHO SEVIN®-KELTHANE®-SULFUR 4-3-25 DUST, 4,4'Dichloro-alpha-trichloromethylbenzhydrol 3%, 1-naphthyl N-methylcarbamate 4%, sulfur 25%-FI-Calif. Chem.
5912 ORTHO SEVIN®-SULFUR 5-20 DUST, 1-Naphthyl N-methylcarbamate 5%, sulfur 20%-FI-Calif. Chem.
5912.50 ORTHO SODIUM ARSENITE WEED KILLER, Sodium arsenite 55%-H-Calif. Chem.
5913 ORTHO SODIUM MOLYBDATE, Molybdenum 38%-N-Calif. Chem.
5914 ORTHO SOIL & BULB DUST, Captan 5%, DDT 10%, dieldrin 5%, sulfur 40%-FI-FI-Calif. Chem.
5915 ORTHO SOYBEAN SEED PROTECTANT, Captan 25%-ST-Calif. Chem.
5916 ORTHO SPECIAL CORN OIL SPRAY, DDT 13.3%, oil 46.4%-I-Calif. Chem.
5918 ORTHO SPRAY STICKER-A-Calif. Chem.
5919 ORTHO STANDARD LEAD ARSENATE POWDER DUSTS & CONDITIONERS-I-Calif. Chem.
5920 ORTHO STORED GRAIN FUMIGANT, Carbon bisulfide 16.34%, carbon tetrachloride 82.27%, sulfur dioxide 1%, pentane 0.39%-IF-Calif. Chem.
5921 ORTHO STREPTOMYCIN SPRAY, Streptomycin 0.5%-F-ANT.-Calif. Chem.
5922 ORTHO 2,4,5-T L V ESTER, 4, Isooctyl ester of 2,4,5-T 65.4%-H-Calif. Chem.
5923 ORTHO TDE 5 DUST, TDE 5%-I-Calif. Chem.
5925 ORTHO TDE SULFUR 5-50 DUST, Sulfur 50%, TDE 5%-FI-Calif. Chem.
5926 ORTHO TDE 50 WETTABLE, TDE 50%-I-Calif. Chem.
5929 ORTHO TEDION® 1 EMULSIVE, Oil 35%, tetradifon 12.3%-I-Calif. Chem.
5930 ORTHO TEDION® 25 WETTABLE, Tetradifon 25%-I-Calif. Chem.
5930.50 ORTHO TEPP 40 SPRAY, Tepp 40%-I-Calif. Chem.
5931 ORTHO THIODAN® 3 DUST, Endosulfan 3%-I-Calif. Chem.

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5031.50 ORTHO THIODAN® DUST COMBINATIONS, Endosulfan, Calif. Chem.
5932 ORTHO THIODAN® 2 EMULSIVE, Endosulfan 23.5%, oil 68.5%-I-Calif. Chem.
5932.50 ORTHO THIODAN® 50 WETTABLE, Endosulfan 50%-I-Calif. Chem.
5933 ORTHO TOBACCO SPRAY-D, Dieldrin 2.3%, oil 70%, TDE 24.5%-I-Calif. Chem.
5934 ORTHO TOMATO & POTATO DUST OR SPRAY, Copper 7%, TDE 5%-FI-Calif. Chem.
5935 ORTHO TOMATO VEGETABLE DUST, Captan 5%, methoxychlor 5%, rotenone 0.75%, rotenoids 0.75%-FI-Calif. Chem.
5938 ORTHO TOXAPHENE-DDT CRYOLITE 15-5-30 DUST, Cryolite 30%, DDT 5%, toxaphene 15%-I-Calif. Chem.
5939 ORTHO TOXAPHENE-DDT 15-5 DUST 5%, toxaphene 15%-I-Calif. Chem.
5940 ORTHO TOXAPHENE DDT 4-2 EMULSIVE, Aromatic oil 36%, DDT 19.8%, toxaphene 29.6%-I-Calif. Chem.
5941 ORTHO TOXAPHENE-DDT-METHYL PARATHION 6-1.5-6 EMULSIVE, DDT 13.3%, petroleum solvent 23.0%, O,O-dimethyl O-*p*-nitrophenyl phosphorothioate 5.3%, toxaphene 53.5%-I-Calif. Chem.
5942 ORTHO TOXAPHENE-DDT-SLFUR 15-5-40, DDT 5%, sulfur 40%, toxaphene 15%-FI-Calif. Chem.
5943 ORTHO TOXAPHENE 10 DUST, Toxaphene 10%-I-Calif. Chem.
5944 ORTHO TOXAPHENE 4.8 EMULSIVE, Toxaphene 50%-I-Calif. Chem.
5945 ORTHO TOXAPHENE 6 EMULSIVE, Toxaphene 58.5%-I-Calif. Chem.
5946 ORTHO TOXAPHENE 8 EMULSIVE, Toxaphene 71%-I-Calif. Chem.
5947 ORTHO TOXAPHENE-SULFUR 20-40 DUST, Sulfur 40%, toxaphene 20%-FI-Calif. Chem.
5948 ORTHO TOXAPHENE 40 WETTABLE, Toxaphene 40%-I-Calif. Chem.
5949 ORTHO TOXAPHENE ZINEB 10-4 DUST, Toxaphene 10%, zineb 4%-FI-Calif. Chem.
5950 ORTHO TRITHION®-DDT 3-10 DUST, Carbophenothion 3%, DDT 10%-I-Calif. Chem.
5951 ORTHO TRITHION® 3 DUST, Carbophenothion 3%-I-Calif. Chem.
5952 ORTHO TRITHION® 4 EMULSIVE, Carbophenothion 46%-I-Calif. Chem.
5953 ORTHO TRITHION® 4 FLOWABLE, Carbophenothion 44%-I-Calif. Chem.
5954 ORTHO TRITHION® SULFUR 2-50 DUST, Carbophenothion 2%-FI-Calif. Chem.
5956 ORTHO TRITHION® 25 WETTABLE, Carbophenothion 25%-I-Calif. Chem.
5958 ORTHO WEEVIL BAIT (PELLETED), Sodium fluosilicate 4.75%-IB-Calif. Chem.
5959 ORTHO ZINC COPOSIL 20 DUST, Copper 3.6%, zinc 3.6%-F-Calif. Chem.
5960 ORTHO ZINC COPOSIL SULFUR 25-30 DUST, Copper 4.5%, sulfur 30%, zinc 4.5%-FI-Calif. Chem.
5961 ORTHO ZINEB 4 DUST, Zineb 4%-FI-Calif. Chem.
5962 ORTHO ZINEB WETTABLE, Zineb 75%-F-Calif. Chem.
5963 ORTHO ZIRAM 76 FUNGICIDE, Ziram 76%-F-Calif. Chem.
5964 ORTHOCIDE-DDT 5-5 DUST, Captan 5%, DDT 5%-FI-Calif. Chem.
5966 ORTHOCIDE DDT-PARATHION 5-5-1 DUST, Captan 5%, DDT 5%, parathion 1%-FI-Calif. Chem.
5967 ORTHOCIDE DIBROM® 5-4 DUST, Captan 5%, naled 4%-FI-Calif. Chem.
5969 ORTHOCIDE DIELDRIN 60-15 SEED PROTECTANT (DRY) (SLURRY), Captan 50%, dieldrin 17%-ST-Calif. Chem.
5970 ORTHOCIDE 7.5 DUST, Captan 7.5%-F-Calif. Chem.
5972 ORTHOCIDE GARDEN FUNGICIDE, Captan-F-Calif. Chem.
5973 ORTHOCIDE HCB WHEAT SEED PROTECTANT, Captan 40%, hexachlorobenzene 40%-ST-Calif. Chem.
5974 ORTHOCIDE ISOTOX 7.5-1 DUST, Captan 7.5%, lindane 1%-FI-Calif. Chem.
5975 ORTHOCIDE KARATHANE® 50.6 WETTABLE, Captan 50%, 2-4-dinitro-6-(2-octyl) phenyl crotonate 5.6%-FI-Calif. Chem.
5976 ORTHOCIDE MALATHION 75-1 SEED PROTECTANT, Captan 75%, malathion 1%-FI-Calif. Chem.
5977 ORTHOCIDE MALATHION-METHOXYCHLOR 75-1.5-3 SEED PROTECTANT, Captan 75%, malathion 1.5%, methoxychlor, technical 3%-ST-Calif. Chem.
5978 ORTHOCIDE PARATHION 25-7.5 WETTABLE, Captan 25%, parathion 7.5%-FI-Calif. Chem.
5979 ORTHOCIDE 65 SEED PROTECTANT, Captan 65%-F-Calif. Chem.
5980 ORTHOCIDE 75 SEED PROTECTANT (DRY) (SLURRY), Captan 75%-ST-Calif. Chem.
5980.50 ORTHOCIDE 75 SEED PROTECTANT M, Captan 75%, methoxychlor 3%-ST-Calif. Chem.
5981 ORTHOCIDE SOIL TREATER X, Captan 10%, pentachloronitrobenzene 10%-F-Calif. Chem.
5982 ORTHOCIDE-SULFUR 10-25 DUST, Captan 10%, sulfur 25%-FI-Calif. Chem.
5983 ORTHOCIDE 50 WETTABLE, Captan 50%-I-Calif. Chem.

5984 ORTHO-KLOR 10 CHLORDANE DUST, Chlordane 10%-I-Calif. Chem.
5985 ORTHO-KLOR 44 CHLORDANE SPRAY, Chlordane 44%, oil 51%-I-Calif. Chem.
5986 ORTHO-KLOR 74 CHLORDANE SPRAY, Chlordane 74%-I-Calif. Chem.
5987 ORTHO-KLOR 50 CHLORDANE WETTABLE, Chlordane 50%-I-Calif. Chem.
5988 ORTHOL-D SOLUBLE SUPERIOR OIL SPRAY, Oil 97%-I-Calif. Chem.
5989 ORTHOL-K FLOWABLE LIGHT MEDIUM, Oil 80%-I-Calif. Chem.
5990 ORTHOL-K FLOWABLE LIGHT MEDIUM N.W., Oil 80%-I-Calif. Chem.
5991 ORTHOL-K FLOWABLE LIGHT N.W., Oil 80%-I-Calif. Chem.
5992 ORTHOL-K FLOWABLE MEDIUM, Oil 80%-I-Calif. Chem.
5993 ORTHOL-K READY-MIX HEAVY-MEDIUM, Oil 99%-I-Calif. Chem.
5994 ORTHOL-K READY-MIX MEDIUM, Oil 99%-I-Calif. Chem.
5995 ORTHOL-L READY-MIX LIGHT MEDIUM, Oil 99%-I-Calif. Chem.
5996 ORTHOPHOS 4 EMULSIVE, Parathion 42%-I-Calif. Chem.
5997 ORTHORIX FOLIAGE SPRAY, Calcium polysulfides 27.5%-FI-Calif. Chem.
5998 ORTHORIX SPRAY, Calcium polysulfides 27.5%-FI-Calif. Chem.
5999 OROTRAN 50 WETTABLE, Ovex 50%-I-Calif. Chem.
6002 OUTDOOR FLEA DUST, BHC 3%, DDT 5%, sulfur 40%-FI-Fla. Agr. Supply
OVEX = *p*-CHLOROPHENYL *p*-CHLOROBENZENE SULFONATE
6003 OXALIS CONTROL, Monuron 8.9%-H-Destruxol
6004 OZ EXTERIOR WHITE PRIMER, Tributyltin oxide, aldrin-WP-Osmose
6005 OZ REDWOOD FINISH, Tributyltin oxide, aldrin-WP-Osmose
6006 OZ WOOD PRESERVER, Tributyltin oxide, aldrin plus-WP-Osmose
6007 P-40, Sodium selenate 2%-IS-Plant Prods.
6009 PACIDE TYPE "S", Oil 98.62%, pyrethrins 0.48%, sesame oil extractive 0.9%-I-Biocerta Corp.
6010 PACIFIC ALDRIN 1%, Aldrin 0.95%-I-Pacific Co-op
6011 PACIFIC ALDRIN 2%, Aldrin 1.9%-I-Pacific Co-op
6012 PACIFIC ALDRIN 2½ DUST, Aldrin 2.4%-I-Pacific Co-op
6013 PACIFIC ALDRIN 5 DUST, Aldrin 4.8%-I-Pacific Co-op
6014 PACIFIC AMINE WEED KILLER, Dimethyl amine salts of 2,4-D 49.8% (acid equiv. 1 lb./gal.)-H-Pacific Co-op
6015 PACIFIC ARSENITE 6 SOLN., Arsenic trioxide 41.5%, 96 lbs./gal.-H-Pacific Co-op
6016 PACIFIC CAPTAN 5% DUST-F-Pacific Co-op
6017 PACIFIC CAPTAN-TRITHION® 7.5-2 DUST, Captan 7.5%, O,O-diethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate 2%-FI-Pacific Co-op
6018 PACIFIC CHLORDANE 5 DUST, Chlordane 5%-I-Pacific Co-op
6019 PACIFIC CHLORDANE 10% DUST-I-Pacific Co-op
6020 PACIFIC CHLORDANE EMULSIVE CONC., Chlordane 73.1%, oil 21%-I-Pacific Co-op
6021 PACIFIC CREOSOTE, Coal tar neutral oils 97%-WP-Pacific Co-op
6022 PACIFIC 2,4-D BUTYL ESTER "6" E, Butyl ester of 2,4-D 78.2%-H-Pacific Co-op
6023 PACIFIC 2,4-D LOW VOL. ESTER, Isooctyl 2,4-D 69.5% (equiv. 46.1%-4 lb./gal.)-H Pacific Co-op
6025 PACIFIC DDT 5 DUST, DDT 5%-I-Pacific Co-op
6026 PACIFIC DDT 10 DUST, DDT 10%-I-Pacific Co-op
6027 PACIFIC DDT 5 & SULFUR 50 DUST ADHESIVE, DDT 5%, oil 2%, sulfur 50%-FI-Pacific Co-op
6028 PACIFIC DDT 10% & SULFUR 50% DUST-FI-Pacific Co-op
6029 PACIFIC DDT 50% WETTABLE-I-Pacific Co-op
6030 PACIFIC DDT-MALATHION 5-4 DUST, DDT 5%, malathion 4%-I-Pacific Co-op
6031 PACIFIC DITHANE® 3 DUST, Zineb 1.95%-F-Pacific Co-op
6032 PACIFIC DITHANE® 6 DUST, Zineb 3.9%-F-Pacific Co-op
6033 PACIFIC DIELDRIN "1.5" E, Dieldrin 18.8%, aromatic solvent 78%-I-Pacific Co-op
6034 PACIFIC 25 EMUL, DDT 25%-I-Pacific Co-op
6035 PACIFIC ENDRIN 1.6E, Endrin 19.7%-I-Pacific Co-op
6036 PACIFIC 2,4-D & 2,4,5-T ESTER BRUSH KILLER, Iso-octyl 2,4-D 23.1% Iso-octyl ester 2,3,5-T 22.1% (acid equiv. each 2,4-D & 2, 4,5-T 1.25 lbs./gal.)-H-Pacific Co-op
6036.50 PACIFIC ESTER WEED KILLER, Isopropyl ester 2,4-D 46.7% (acid equiv. 3.3 lbs./gal.)-H-Pacific Co-op
6037 PACIFIC FERTILIZER MIXTURE WITH 1% ALDRIN, Aldrin 0.95%-I-Pacific Co-op
6038 PACIFIC 75.25 GRAIN FUMIGANT, Carbon tetrachloride 29.7%, ethylene dichloride 70.3%-IF-Pacific Co-op
6039 PACIFIC GRAIN FUMIGANT 80-20 MIXTURE, Carbon tetrachloride 83.5%, carbon bisulfide 16.5%-IF-Pacific Co-op
6040 PACIFIC HEPTACHLOR 1½ DUST, Heptachlor 1.5%-I-Pacific Co-op
6041 PACIFIC HEPTACHLOR 2.5 DUST, Heptachlor 2.5%-I-Pacific Co-op
6042 PACIFIC HEPTACHLOR 2 E, Heptachlor 23.3%, oil 62%-I-Pacific Co-op

6043 PACIFIC IPC EMULSIVE (26%)-H-Pacific Co-op
6044 PACIFIC 3% IPC GYPSUM MIX, Isopropyl N-phenyl carbamate 3%-H-Pacific Co-op
6045 PACIFIC LEAD ARSENATE 40 DUST, Lead arsenate 40%-I-Pacific Co-op
6046 PACIFIC LEAD ARSENATE 15 & SULFUR 85 DUST, Lead arsenate 15%, sulfur 85%-FI-Pacific Co-op
6047 PACIFIC LOW VOL. ESTER WEED KILLER, 2,4-D Isooctyl ester 69.5% (4 lbs. 2,4-D acid/gal.)-H-Pacific Co-op
6048 PACIFIC MALATHION 5% DUST-I-Pacific Co-op
6049 PACIFIC MALATHION 5-PGE, Malathion 5%-I-Pacific Co-op
6050 PACIFIC MALATHION "5000" E, Malathion 56.8%-I-Pacific Co-op
6051 PACIFIC MALATHION "8000", Malathion 80.2%-I-Pacific Co-op
6052 PACIFIC METHOXYCHLOR 5 DUST, Methoxychlor 5%-I-Pacific Co-op
6053 PACIFIC PARATHION 1% DUST-I-Pacific Co-op
6054 PACIFIC PARATHION 25% EMUL-I-Pacific Co-op
6055 PACIFIC PARATHION "400", Parathion 42.8%-I-Pacific Co-op
6056 PACIFIC PROLIN® CONC., Sulfaquinoxaline 0.5%, warfarin 0.5%-R-Pacific Co-op
6056.50 PACIFIC PROLIN® READY TO USE BAIT, Sulfaquinoxaline 0.025%, warfarin 0.025%-Pacific Co-op
6057 PACIFIC ROTENONE 5 SPRAY POWDER FOR CATTLE WARBLE, Rotenone 5%, rotenoids 10%-I-Pacific Co-op
6058 PACIFIC SHEEP DIP, Phenols 15%, soap 29%, sulfur dioxide extract of petroleum 53%-I-Pacific Co-op
6061 PACIFIC 2,4,5-T & 2,4-D LOW VOL. ESTER BRUSH KILLER, 2,4-D isooctyl ester 34.4%, 2,4,5-T isooctyl ester 32.9%-H-Pacific Co-op
6062 PACIFIC SLUG PELLETS, Tricalcium arsenate 16%, methaldehyde 3%-IB-Pacific Co-op
6062.50 PACIFIC 2,4,5-T ESTER BRAMBLE KILLER, Isopropyl ester 2,4,5-T 34.9% (acid equiv. 1.25 lbs./gal.)-H-Pacific Co-op
6062.75 PACIFIC 2,4,5-T LOW VOL. ESTER BRAMBLE KILLER, 2,4,5-T Propylene glycol butyl ether esters 64.7%, 2,4,5-T acid equiv. 45% (4 lbs./gal.)-H-Pacific Co-op
6063 PACIFIC TEPP 1% DUST-I-Pacific Co-op
6064 PACIFIC TOXAPHENE 10 DUST, Toxaphene 10%-I-Pacific Co-op
6065 PACIFIC TOXAPHENE 8 EMULSIFIABLE, Oil 20%, toxphene 72%-I-Pacific Co-op
6066 PACIFIC TRITHION® 2 DUST, O,O-Diethyl S-(p-chlorophenylthio) methyl phosphorodithioate 2%-I-Pacific Co-op
6067 PANOGEN TURF FUNGICIDE, Methylmercury dicyandiamide 2.2%-F-Morton
6069 PACIFIC WOOD PRESERVATIVE, Oil 4.92%, pentachlorophenol 36.08-WP-Pacific Co-op
6070 PAN APPLE SPRAY, Copper 3.5%, lead arsenate 11.5%, sulfur 41%, zinc 5%-FI-Woolfolk
6071 PAN FRUIT DUST or SPRAY, 7.5% Captan 2%, 4,4'-dichloro-alpha-trichloromethylbenzhydrol, 7.5% 1-Naphthyl-N-methylcarbamate-FI-Woolfolk
6072 PAN PEACH SPRAY, Lead arsenate 11.5%, sulfur 31%, zinc 9.6%-FI-Woolfolk
6073 PAN PLANT DUST, 1% Lindane, 1% 4,4'-Dichloro-alpha-trichloromethylbenzhydrol, 2% kelthane, 5% 1-naphthyl-N-methylcarbamate, 6% zineb-FI-Woolfolk
6075 PANO-BROME, Methyl bromide-IF-Morton
6076 PANO-BROME CL-Methyl bromide 98%, chloropicrin 8%-IF-Morton
6078 PANOGEN 15, (Liquid seed disinfectant), methylmercury dicyandiamide 2.2%-ST-F-Morton
6079 PANOGEN 42 (Liquid seed disinfectant), methylmercury dicyandiamide 6.3%-ST-F-Morton
6080 PANORAM 75, Thiram 75%-ST-Morton
6081 PANORAM D-31, Dieldrin 18.8%, thiram 56.2%-ST-FI-Morton
6082 PANTERRA, Methylmercury dicyandiamide 0.4%, pentachloronitrobenzene 17%-F-Morton
6084 PANTHION SPRAY, Parathion 1.35%, sulfur 48.15%, zinc 11.2%-FI-Woolfolk
6085 PARA NUGGETS AND/OR PARA CRYSTALS, Paradichlorobenzene 100%-IF-Uncle Sam
6086 PARADOW®, Paradichlorobenzene 100%-IF-Dow
6087 PARAGON SPRAYERS, Hand and power sprayers-E-Campbell-Hausfield
6088 PARASPORIN DUSTING POWDER, 5 billion spores of *Bacillus thuringiensis*/gram-I-Grain Processing Corp.
6089 PARASPORIN WETTABLE SPRAYS, 50 and 100 billion spores of *Bacillus thuringiensis*/gram-I-Grain Processing Corp.
6090 PARA-SUL SPRAY, 3.75% Parathion, 70% sulfur-FI-Davison
PARATHION = O,O-DIETHYL-O-*p*-NITROPHENYL THIOPHOSPHATE
6091 PARATHION, TECH, O,O-diethyl-O-p-nitrophenyl thiophosphate-IC-Chemagro
6092 PARA-ZENE, Paradichlorobenzene-IF-Hobs Reliable

6093 PARA-ZENE AEROSOL INSECT KILLER, Allethrin 0.1%, N-octyl bicycloheptene dicarboximide 0.166%, DDT 2%, organic thiocyanates 0.5%, oil 12.23%-IA-Hobs-Reliable
6094 PARA-ZENE MOTH PREVENTION PRODUCTS, Paradichlorobenzene-IF-Hobs-Reliable
6095 PARA-ZENE MOTH PROOFER, Terpene polychlorinates (66% chlorine) 5.0%, oil 35.0%-IA-MP-Hobs-Reliable
6096 PARA-ZENE ROACH-ANT KILLER, Chlordane 1.15%, oil 44.85%-IA-Hobs-Reliable
6097 PARI-GRAN 10, Copper aceto arsenite 10%-I-Chipman
6098 PARSONS 3-WAY AEROSOL INSECTICIDE, Piperonyl butoxide 1%, pyrethrins 0.2%, rotenone 0.15%-I-Parsons
6099 PARSONS BARK-SAVER, Resinous material in an alcoholic solvent-ANR-Parsons
6100 PARSONS BORDEAUX MIXTURE, Copper 12.5%-F-Parsons
6101 PARSONS BROODER SPRAY, Pine oil 77%, soap 13%-I-Parsons
6102 PARSONS BRUSH KILLER NO. 2, Isooctyl ester of 2,4,5-T (equiv. to 22% 2,4,5-T acid)-H-Parsons
6103 PARSONS CAL-C-NATE, Calcium arsenate 70%-I-Parsons
6104 PARSONS CHLORDANE DUST 5%-I-Parsons
6105 PARSONS CHLORDANE DUST 10%-I-Parsons
6106 PARSONS 25% CHLORDANE EMULSIFIABLE SPRAY-I-Parsons
6107 PARSONS 50% CHLORDANE EMULSIFIABLE SPRAY-I-Parsons
6108 PARSONS 75% CHLORDANE EMULSIFIABLE SPRAY-I-Parsons
6109 PARSONS CHLORDANE WETTABLE POWDER, Tech. chlordane 40%-I-Parsons
6110 PARSONS CORN-TAL WEED KILLER, Butyl, isopropyl, isooctyl esters of 2,4-D 44%-H-Parsons
6111 PARSONS 2,4-D BEAUTY LAWN, Dimethylamine salt of 2,4-D (equiv. to 20.7% acid)-H-Parsons
6112 PARSONS 2,4D GRANULES, Isooctyl ester of 2,4-D-H-Parsons
6113 PARSONS 2,4-D WEED KILLER NO. 40, Dimethylamine salt of 2,4-D (equiv. to 41.4% 2,4-D acid)-H-Parsons
6114 PARSONS 2,4-D WEED KILLER NO. 44, Isopropyl ester of 2,4-D (equiv. to 37% 2,4-D acid or 3.3 lbs./gal.)-H-Parsons
6115 PARSONS 2,4-D 10/10 WEED KILLER ESTER, Isooctyl ester of 2,4-D (equiv. to 44.6% 2,4-D acid)-H-Parsons
6116 PARSONS DAIRY BARN FOGGING CONCENTRATE, Piperonyl butoxide, pyrethrins-I-Parsons
6117 PARSONS DAIRY FLY DUST, Beta butoxy beta' thiocyano diethyl ether, piperonyl butoxide, pyrethrins, 2-ethylhexanediol-1,3-I-Parsons
6118 PARSONS EYE-FLY INSECTICIDE, 0.2% DDVP-I-Parsons
6119 PARSONS FLEA POWDER, Lindane, para tertiary octyl phenoxy ethoxy ethyl dimethyl benzyl ammonium chloride, sulfur, rotenone, pyrethrins-FI-Parsons
6120 PARSONS FLY-DI AEROSOLS, Oil, piperonyl butoxide, pyrethrins-IA-Parsons
6121 PARSONS FLY-DI HOUSEHOLD SPRAY, Oil, pyrethrins-I-Parsons
6122 PARSONS FRUIT TREE SPRAY (Wettable Powder), Ferbam 5%, malathion 4.90%, methoxychlor 8.80%, phenothiazine 0.005%, sulfur 33%-FI-Parsons
6123 PARSONS GRUB DUST POWDER, Coal tar oils 0.66%, naphthalene 1%, pyrethrins 0.002%, rotenoids 0.07%, rotenone 1.70%, sulfur 10.70%-FI-Parsons
6124 PARSONS INSECTICIDE DUST, Derris 15%, rotenone 0.75%-I-Parsons
6125 PARSONS KAL-ZOO ANT & ROACH DUST, Chlordane 5%, octachloro 4,7-methanotetrahydroindane 1.2%, related compounds 0.8%-I-Parsons
6126 PARSONS KAL-ZOO DAIRY BARN SPRAY, Lindane 12.5%-I-Parsons
6127 PARSONS KAL-ZOO 25% DDT EMUL-I-Parsons
6128 PARSONS KAL-ZOO 5% DDT SPRAY (NON-FORTIFIED)-I-Parsons
6129 PARSONS KAL-ZOO 5% DDT SPRAY (FORTIFIED), DDT 5%, thiocyanates 2.25%-I-Parsons
6130 PARSONS KAL-ZOO DUST 5% DDT-I-Parsons
6131 PARSONS KAL-ZOO DUST 10% DDT-I-Parsons
6132 PARSONS KAL-ZOO DUST 3% DDT 6% COPPER-FI-Parsons
6133 PARSONS KAL-ZOO FUMIGANT, Carbon tetrachloride 29.8%, ethylene dichloride 70.2%-IF-Parsons
6134 PARSONS KAL-ZOO MALATHION 25%, Wettable powder-I-Parsons
6135 PARSONS KAL-ZOO WETTABLE POWDER 50% DDT-I-Parsons
6136 PARSONS KILANE CONTACT AND RESIDUAL SPRAY, Chlordane, ethyl hexanediol, organic thiocyanates, oil, pyrethrins-I-Parsons
6137 PARSONS LEAD ARSENATE, Arsenate of lead 96%-I-Parsons
6138 PARSONS LETHOGAS GRAIN FUMIGANT, Carbon tetrachloride, dichloroethane, ethylene dibromide, orthodichlorobenzene, paradichlorobenzene, paratoluensulfonchloramide, pentachloroethane, propylene dichloride-IF-Parsons

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6139 PARSONS LINDANE WETTABLE SPRAY POWDER, Lindane 25%-I-Parsons
6140 PARSONS LIQUID READY-MIX, Sodium and mercury salts of polyamino polycarboxylic acids, mercury 1.596%-ST-Parsons
6141 PARSONS LIQUID B-59 SEED BEAN TREATMENT, Dieldrin, pentachlorophenol-ST-Parsons
6142 PARSONS LOUSE DUST, Coal tar oils 5%, naphthalene 7.5%, rotenone 0.125%, rotenoids 0.005%, sulfur 5.5%-I-Parsons
6143 PARSONS MALATHION EMULSION 50%-I-Parsons
6144 PARSONS METHOXYCHLOR 50%, Wettable insecticide-I-Parsons
6145 PARSONS MOSQUITO YARD SPRAY (Wettable powder), Methoxychlor 25%-I-Parsons
6146 PARSONS MOTH CRYSTALS, Paradichlorobenzene 100%-IF-Parsons
6147 PARSONS NEW FISH TYPE WARFARIN RAT KILLER, Warfarin-R-Parsons
6148 PARSONS PARASOTE OIL WOOD PRESERVER Refined creosote oils-WP-Parsons
6149 PARSONS PARATHION WETTABLE POWDER 15%-I-Parsons
6150 PARSONS PAR-DIP DISINFECTANT, Coal tar neutral oils 62%, soap 17%-I-Parsons
6151 PARSONS PARZINE DRY CONC. HOG & POULTRY WORMER, Piperazine base 16.23%-I-Parsons
6152 PARSONS PARZINE LIQUID HOG & POULTRY WORMER, Each fluid ounce contains 5.05 grams piperazine base-I-Parsons
6153 PARSONS PINE-O-LIN DISINFECTANT, Pine oil 77%, soap 13%-I-Parsons
6154 PARSONS POISON IVY AND BRUSH KILLER NO. 2, Isooctyl ester of 2,4,5-T 31.7% and Isooctyl ester of 2,4-D 33.15%-H-Parsons
6155 PARSONS TOMATO DUST, Copper 7%, DDT 3%, methoxychlor 0.001%-FI-Parsons
6156 PARSONS POTASSIUM PERMANGANATE 100%-IF-Parsons
6157 PARSONS POTATO DUST, Copper 6%, DDT 3%, zinc sulphate 0.001%-FI-Parsons
6158 PARSONS QUACKIL, Sodium TCA 90%-H-Parsons
6159 PARSONS ROSE DUST, Malathion, ferbam, methoxychlor-FI-Parsons
6160 PARSONS ROSE SPRAY, Malathion emul. 50%-I-Parsons
6161 PARSONS ROTENONE DUST 1%, Rotenone 1%-I-Parsons
6162 PARSONS ROTO-RUB CONCENTRATE, Methylated naphthalene, pine oil, rotenoids, rotenone-I-Parsons
6163 PARSONS SEED SAVER CONCENTRATE (60) Sodium and mercury salts of polyamino polycarboxylic acids, mercury 4.2%-ST-Parsons
6164 PARSONS SEED SAVER DISINFECTANT DUST (ODORLESS), Para tertiary octyl phenoxy ethoxy ethyl dimethyl benzyl ammonium mercuric chlorides 5.15%, trioxymethylene 0.01%, mercuric chloride 0.01%-ST-Parsons
6165 PARSONS SMUT-OFF SOLUTION, Formaldehyde 18.5%,phenol 1%-ST-Parsons
6166 PARSONS SODIUM FLUORIDE-I-Parsons
6167 PARSONS SPECIAL APPROVED BULB DUST 5%, DDT-I-Parsons
6168 PARSONS SPECIAL GRAIN PROTECTANT #100, Piperonyl butoxide 1%, pyrethrins 0.06%-I-Parsons
6169 PARSONS SPECIAL POTATO WETTABLE POWDER SPRAY, Copper 6%, DDT 3%, zinc sulfate 0.001%-FI-Parsons
6170 PARSONS SS CROW REPELLENT, Coal tar, cresylic acids, naphthalenic oils, oils-ANR-Parsons
6171 PARSONS 3-WAY ROTENONE DUST, Sulfur, organic thiocyanates, rotenone, rotenoids-FI-Parsons
6172 PARSONS 2,4,5-T BRUSH KILLER (LOW VOLATILE ESTER), Isooctyl ester of 2,4,5-T (equiv. to 43.6% 2,4,5-T acid)-H-Parsons
6173 PARSONS TO-DOT SPRAY, Ois, dibutyl succinate, piperonyl butoxide, pyrethrins-I-Parsons
6174 PARSONS TO-DOT SPRAY, Regular, mineral oils, organic thiocyanates, pine oil, pyrethrins-I-Parsons
6175 PARSONS U.S.P. FORMALDEHYDE, Formaldehyde 37%-ST-Parsons
6176 PARSONS WARFARIN RAT KILLER, Warfarin R-Parsons
6177 PARSONS WETTABLE SULFUR-FI-Parsons
6178 PARSONS WOOD PRESERVATIVE, Pentachlorophenol 5%-WP-Parsons
6179 PARZATE® C ZINEB FUNGICIDE, 75% Zineb-I-DuPont (I & B)
6180 PARZATE® D ZINEB FUNGICIDAL COMPOSITION, Zineb 85%-F-DuPont (I & B)
6181 PARZATE® LIQUID NABAM FUNGICIDE, Nabam 22%-F-DuPont (I & B)
6182 PATTERSON'S AEROSOL INSECT KILLER, Allethrin 0.10%, organic thiocyanates 1%, methoxychlor 2%, N-octyl bicycloheptene dicarboximide 0.5%-IA-Pearson-Ferguson
6183 PATTERSON'S AL-DIEL-DRIN TERMITE CONTROL CONCENTRATE, Aldrin 12.5%, dieldrin 7.5%-I-Pearson-Ferguson
6184 PATTERSON'S 2# ALDRIN EMUL. CONC.-I-Pearson-Ferguson

6185 PATTERSON'S 4 LB. ALDRIN EMUL. CONC.-I-Pearson-Ferguson
6186 PATTERSON'S 50% ALDRIN SEED TREATMENT-ST-I-Pearson-Ferguson
6187 PATTERSON'S AMINE 2,4-D WEED KILLER, Dimethylamine salt of 2,4-D 4 lbs./gal.-H-Pearson-Ferguson
6188 PATTERSON'S BAGWORM SPRAY, Malathion 18%, toxaphene 40%-I-Pearson-Ferguson
6189 PATTERSON'S BHC EMUL. CONC., Gamma BHC 11%-I-Pearson-Ferguson
6190 PATTERSON'S BHC WETTABLE POWDER, Gamma BHC 12%-I-Pearson-Ferguson
6191 PATTERSON'S BORDEAUX MIXTURE, Copper 12.8%-F-Pearson-Ferguson
6192 PATTERSON'S BORER KILLER, Dieldrin 0.5%-I-Pearson-Ferguson
6193 PATTERSON'S BRUSHKILLER NO. 200, 2,4-D 1 lb./gal. and 2,4,5-T 1 lb./gal.-H-Pearson-Ferguson
6194 PATTERSON'S 40% BUTYL ESTER WEED KILLER, Butyl ester 2,4-D 2.65 lb./gal.-H-Pearson-Ferguson
6195 PATTERSON'S 4 lb. BUTYL WEED KILLER, Butyl ester 2,4-D lb./gal.-H-Pearson-Ferguson
6196 PATTERSON'S CAPTAN GARDEN SPRAY, Captan 50%-F-Pearson-Ferguson
6197 PATTERSON'S CATTLE GRUB CONTROL DUST, Rotenone 1.5%-I-Pearson-Ferguson
6198 PATTERSON'S CHICKWEED KILLER, Ethyl hexyl ester of silvex 13.3%-H-Pearson-Ferguson
6199 PATTERSON'S 20% CHLORDANE CONCENTRATE-I-Pearson-Ferguson
6200 PATTERSON'S 6% CHLORDANE DUST-I-Pearson-Ferguson
6201 PATTERSON'S 10% CHLORDANE DUST-I-Pearson-Ferguson
6202 PATTERSON'S 45% CHLORDANE EMUL. CONC.-I-Pearson-Ferguson
6203 PATTERSON'S 72% CHLORDANE EMUL. CONC.-I-Pearson-Ferguson
6204 PATTERSON'S 40% CHLORDANE WETTABLE POWDER-I-Pearson-Ferguson
6205 PATTERSON'S 20% COPPER CARBONATE, Metallic copper 20%-F-Pearson-Ferguson
6206 PATTERSON'S CORN EARWORM DROPS, Piperonyl butoxide 0.8%, pyrethrins 0.1%-I-Pearson-Ferguson
6207 PATTERSON'S CRABGRASS & CHICKWEED KILLER, LIQUID, Disodium monomethyl arsonate anhydrous 12.6%-H-Pearson-Ferguson
6209 PATTERSON'S CREOSOTE DIP & DISINFECTANT-I-Pearson-Ferguson
6210 PATTERSON'S DAIRY BACKRUBBER CONC. W/CRAG FLY REPELLENT, Butoxypolypropylene glycol 25%, methoxychlor 25%-I-IR-Pearson-Ferguson
6211 PATTERSON'S DAIRY CATTLE DUST, Methoxychlor 5%-I-Pearson-Ferguson
6212 PATTERSON'S DAIRY SPRAY CONCENTRATE, Piperonyl butoxide 4%, pyrethrins 0.5%-I-Pearson-Ferguson
6213 PATTERSON'S 25% DDT EMUL.-I-Pearson-Ferguson
6214 PATTERSON'S 50% DDT WETTABLE POWDER-I-Pearson-Ferguson
6215 PATTERSON'S 1½# DIELDRIN EMUL. CONC.-I-Pearson-Ferguson
6216 PATTERSON'S 5% DIELDRIN GRANULAR-I-Pearson-Ferguson
6217 PATTERSON'S 50% DIELDRIN WETTABLE POWDER-ST-I-Pearson-Ferguson
6218 PATTERSON'S ELM TREE SPRAY, DDT 25%-I-Pearson-Ferguson
6219 PATTERSON'S 1.6# ENDRIN EMUL. CONC.-I-Pearson-Ferguson
6220 PATTERSON'S FACE FLY SPRAY, Butoxypolypropylene glycol 5.3%, piperonyl butoxide 0.6%, pyrethrins 0.075%-I-IR-Pearson-Ferguson
6221 PATTERSON'S FARM BIN SPRAY, DDT 5%, organic thiocyanates 2%-I-Pearson-Ferguson
6222 PATTERSON'S FERBAM, 75%-F-Pearson-Ferguson
6223 PATTERSON'S FLY-BYE, Malathion 2%-IB-Pearson-Ferguson
6224 PATTERSON'S FLY & INSECT REPELLENT, Dibutyl succinate-IR-Pearson-Ferguson
6225 PATTERSON'S FLY REPELLENT FOR BACKRUBBER, Dibutyl succinate 1%-IR-Pearson-Ferguson
6226 PATTERSON'S FRUIT TREE SPRAY, DDT 6%, sulfur 25%, TDE 6%, zineb 11%-FI-Pearson-Ferguson
6227 PATTERSON'S FUNGICIDE, Captan 22%, zineb 21%-F-Pearson-Ferguson
6228 PATTERSON'S GARDEN DUST WITH 5% METHOXYCHLOR, Methoxychlor 5%, rotenone 0.73%, zineb 3.9%-FI-Pearson-Ferguson
6229 PATTERSON'S GENERAL WEED KILLER, Sodium arsenite 40%-H-Pearson-Ferguson
6230 PATTERSON'S GRAIN FUMIGANT NO. 925, Carbon tetrachloride 29%, ethylene dichloride 68%, sulfur dioxide 3%-IF-Pearson-Ferguson
6231 PATTERSON'S GRAIN PROTECTANT, DRY, READY TO USE, Malathion 1%-I-Pearson-Ferguson
6232 PATTERSON'S GRAIN SURFACE SPRAY, Piperonyl butoxide 1.88%, pyrethrins 0.19%, tetrachloroethylene 66.4%, trichloroethylene 10%-I-Pearson-Ferguson
6233 PATTERSON'S GRASSHOPPER BAIT, Aldrin 0.12%-IB-Pearson-Ferguson

6234 PATTERSON'S GREENHOUSE SPRAY, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol, malathion, methoxychlor, tributyl tin compound-FI-Pearson-Ferguson
6235 PATTERSON'S 2# HEPTACHLOR EMUL. CONC., Heptachlor 21.8%-I-Pearson-Ferguson
6236 PATTERSON'S HOME ORCHARD SPRAY, 2-(*p-tert*-Butylphenoxy) isopropyl 2-chloroethyl sulfite 1.9%, ferbam 19.7%, methoxychlor 17.2%, TDE 13%-FI-Pearson-Ferguson
6237 PATTERSON'S HOUSEHOLD FLY SPRAY, DDT 2%, organic thiocyanate 4%-I-Pearson-Ferguson
6238 PATTERSON'S HOUSEHOLD INSECTICIDE, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.5%, piperonyl butoxide 0.25%, pyrethrins 0.05%-I-Pearson-Ferguson
6239 PATTERSON'S KELTHANE® EMUL. CONC., 4,4'-Dichloro-*alpha*-trichloromethylbenzhydrol 18.5%-I-Pearson-Ferguson
6240 PATTERSON'S LAWN ESTER WEED KILLER, 2,4-D Capryl ester 9.9%, 2,4,5-T Capryl ester 4.7%-H-Pearson-Ferguson
6241 PATTERSON'S LEAD ARSENATE-I-Pearson-Ferguson
6242 PATTERSON'S 1% LINDANE DUST-I-Pearson-Ferguson
6243 PATTERSON'S 12½% LINDANE EMUL. CONC.-I-Pearson-Ferguson
6244 PATTERSON'S 20% LINDANE EMUL. CONC.-I-Pearson-Ferguson
6245 PATTERSON'S 5% LINDANE SPRAY-I-Pearson-Ferguson
6246 PATTERSON'S 25% LINDANE WETTABLE POWDER-ST-I-Pearson-Ferguson
6247 PATTARSON'S LIQUID LIME-SULPHUR, Calcium polysulphides 28%-FI-Pearson-Ferguson
6249 PATTERSON'S LIVESTOCK BACKRUBBER CONC. W/CRAG FLY REPELLENT, Butoxypolypropylene glycol 25%, DDT 2.5%, lindane 0.15%-I-IR-Pearson-Ferguson
6250 PATTERSON'S LIVESTOCK FLY SPRAY, Organic thiocyanates 2.25%-I-Pearson-Ferguson
6251 PATTERSON'S LIVESTOCK FLY SPRAY WITH CRAG REPELLENT, Butoxypolypropylene glycol 8.6%, methoxychlor 1.01%, piperonyl butoxide 0.25%, pyrethrins 0.03%-I-IR-Pearson-Ferguson
6252 PATTERSON'S LOUSE POWDER, Naphthaline 25%, nicotine 1%, sodium silicofluoride 5%, sulfur 8%-I-Pearson-Ferguson
6253 PATTERSON'S 5% MALATHION DUST-I-Pearson-Ferguson
6254 PATTERSON'S 55% MALATHION EMUL. CONC., Malathion 5 lb./gal.-I-Pearson-Ferguson
6255 PATTERSON'S MALATHION GRAIN PROTECTANT, Malathion 5#/gal.-I-Pearson-Ferguson
6256 PATTERSON'S MALATHION LIVESTOCK SPRAY, Malathion 5#/gal.-I-Pearson-Ferguson
6257 PATTERSON'S MANEB FUNGICIDE, Maneb 80%-F-Pearson-Ferguson
6258 PATTERSON'S MECHANICAL LIVESTOCK OILER CONC., DDT 25%, lindane 0.15%-I-Pearson-Ferguson
6259 PATTERSON'S 25% METHOXYCHLOR EMUL.-I-Pearson-Ferguson
6260 PATTERSON'S 12.5% METHOXYCHLOR EMUL. CONC.-I-Pearson-Ferguson
6261 PATTERSON'S 50% METHOXYCHLOR WETTABLE POWDER-I-Pearson-Ferguson
6262 PATTERSON'S MILL & FOOD PLANT SPRAY, Piperonyl butoxide 1.2%, pyrethrins 0.15%-I-Pearson-Ferguson
6263 PATTERSON'S MOLE & GOPHER KILLER, Thallium sulfate 1%-R-Pearson-Ferg.
6264 PATTERSON'S PARADICHLOROBENZENE CRYSTALS-IF-Pearson-Ferguson
6265 PATTERSON'S PENTACHLOROPHENOL PRESERVATIVE CONC. 1-10, Pentachlorophenol 40%-WP-Pearson-Ferguson
6266 PATTERSON'S PENTACHLOROPHENOL PRESERVATIVE, Ready to use, Pentachlorophenol 5%-WP-Pearson-Ferguson
6267 PATTERSON'S PESTOX GARDEN SPRAY, Lindane 5%, malathion 12.5%, TDE 5%-I-Pearson-Ferguson
6268 PATTERSON'S PET FLEA KILLER & DEODORANT, Malathion 0.5%, methoxychlor 0.5%, piperonyl butoxide 0.48%, pyrethrins 0.06%-IA-Pearson-Ferguson
6269 PATTERSON'S PHALTAN® WETTABLE POWDER, N-Trichloromethylthiophthalimide 75%-F-Pearson-Ferguson
6270 PATTERSON'S PHENOTHIAZINE (DRENCH GRADE)-FI-Pearson-Ferguson
6271 PATTERSON'S PINE OIL DISINFECTANT-I-Pearson-Ferguson
6272 PATTERSON'S PIVAL RAT & MOUSE KILLER, Pindone 0.025%-R-Pearson-Ferg.
6273 PATTERSON'S PLANT SPRAY, 2-(*p-tert*-Butylphenoxy) isopropyl 2-chloroethyl sulfide 3.5%, copper oleate 2%, lindane 2.75%, methoxychlor 13.5%-FI-Pearson-Ferguson
6274 PATTERSON'S PYRENONE® FOGGING CONCENTRATE, Piperonyl butoxide 1.5%, pyrethrins 0.3%-I-Pearson-Ferguson

6275 PATTERSON'S PYRENONE® GRAIN SPRAY CONCENTRATE, Piperonyl butoxide 5.3%, pyrethrins 0.62%-I-Pearson-Ferguson
6276 PATTERSON'S PYRENONE 20 NEW, Piperonyl butoxide 5.3%, pyrethrins 0.62%-I-Pearson-Ferguson
6277 PATTERSON'S ROACH & ANT REPELLENT, Dibutyl succinate 1%-IR-Pearson-Ferguson
6278 PATTERSON'S ROACH POWDER, Pyrethrins 0.18%, sodium fluoride 80%-I-Pearson-Ferguson
6279 PATTERSON'S ROSE DUST, DDT 5%, 4,4'dichloro-*alpha*-trichloromethylbenzhydrol 1.48%, 2,4-dinitro-6-(2-octyl) phenyl crotonate 1%, lindane 1%, zineb 3.9%-FI-Pearson-Ferguson
6280 PATTERSON'S ROSE SPRAY, Malathion, methoxychlor, 4,4'-dichloro-alpha-trichloromethyl-benzhydrol, tributyl tin-FI-Pearson-Ferguson
6281 PATTERSON'S ROSE SPRAY FLOWER BOMB, Piperonyl butoxide 0.256%, pyrethrins 0.255Z, rotenone 0.128%, rotenoids 0.236%, captan 0.5035%, 2,4-dinitro 6-(2-octyl) phenyl crotonate and related compounds 2%-FI-Pearson-Ferguson
6282 PATTERSON'S 1% ROTENONE DUST-I-Pearson-Ferguson
6283 PATTERSON'S 1% ROTENONE EMUL.-I-Pearson-Ferguson
6284 PATTERSON'S 5% ROTENONE EMUL.-I-Pearson-Ferguson
6285 PATTERSON'S 5% ROTENONE WETTABLE POWDER-I-Pearson-Ferguson
6286 PATTERSON'S SCREWORM & EARTICK BOMB, Gamma BHC 3%, Pine oil 15%-IA-Pearson-Ferguson
6287 PATTERSON'S 50% SEVIN® WETTABLE POWDER, 1-Naphthyl-N-methylcarbamate 50%-I-Pearson-Ferguson
6288 PATTERSON'S SOD WEBWORM SPRAY, O-O-Diethyl O-(2-isopropyl-4-methyl 6-pyrimidyl) phosphorothioate 12.5%, piperonyl butoxide 0.25%, pyrethrins 0.03%-I-Pearson-Ferguson
6289 PATTERSON'S SODIUM ARSENITE POWDER, Sodium arsenite 95%-H-I-Pearson-Ferguson
6290 PATTERSON'S SODIUM ARSENITE SOLN., Sodium arsenite 40% equiv. to 23% arsenic-H-I-Pearson-Ferguson
6291 PATTERSON'S SODIUM FLUORIDE-I-Pearson-Ferguson
6292 PATTERSON'S SOIL DRENCH, Tributyl tin chloride complex of ethylene oxide condensate of abietylamine 1%-IF-Pearson-Ferguson
6293 PATTERSON'S SPREADER-STICKER, Emulsifiable A-C polyethylene, fatty acid-amine condensate, alkyl aryl sulfonate-A-Pearson-Ferguson
6294 PATTERSON'S STORED GRAIN DUST, Methoxychlor 5%-I-Pearson-Ferguson
6295 PATTERSON'S SUPER BRUSHKILLER, 2,4-D 2 lb./gal. and 2,4,5-T 2 lb./gal.-H Pearson-Ferguson
6296 PATTERSON'S SUPER BRUSH KILLER, LOW VOL., 2,4-D Butoxy-ethoxypropyl ester 36.8%, 2,4,5-T Butoxy-ethoxypropyl ester 34.7%-H-Pearson-Ferguson
6297 PATTERSON'S 2,4,5-T LOW VOL. TREE & BRUSH KILLER, 2,4,5-T Butoxy-ethoxypropyl ester 68.65%-H-Pearson-Ferguson
6298 PATTERSON'S 2,4,5-T TREE & BRUSH KILLER, Butyl ester 2,4,5-T 4 lb./gal.-H-Pearson-Ferguson
6299 PATTERSON'S TOBACCO DUST, Nicotine 0.9%-I-Pearson-Ferguson
6300 PATTERSON'S TOMATO DUST, Copper arsenate 18%-FI-Pearson-Ferguson
6301 PATTERSON'S TOMATO SPRAY, TDE 15%, malathion 7.5%-I-Pearson-Ferguson
6302 PATTERSON'S TOXAPHENE-BHC LIVESTOCK SPRAY & DIP, Gamma BHC 1.94%, toxaphene 45%-I-Pearson-Ferguson
6303 PATTERSON'S TOXAPHENE EMUL. CONC., Toxaphene 60%-I-Pearson-Ferguson
6304 PATTERSON'S TOXOIL CONCENTRATE WITH CRAG FLY REPELLENT, Butoxy polypropylene glycol 25%, lindane 0.15%, toxaphene 25%-I-IR-Pearson-Ferguson
6305 PATTERSON'S TURF INSECT KILLER, Piperonyl butoxide 0.25%, pyrethrins 0.3%, toxaphene 36%-I-Pearson-Ferguson
6306 PATTERSON'S WARFARIN RAT & MOUSE KILLER, Warfarin 0.025%-R-Pearson-Ferguson
6307 PATTERSON'S WATER SOLUBLE PIVALYN®, Sodium salt of pindone 0.14%-R-Pearson-Ferguson
6308 PATTERSON'S WEEVIL KILLER & GRAIN CONDITIONER, Carbon tetrachloride 26.9%, ethylene dibromide 7.1%, ethylene dichloride 63.1%, sulfur dioxide 2.9%-IF-Pearson-Ferguson
6309 PATTERSON'S WETTABLE DUSTING SULPHUR, Sulfur 95%-FI-Pearson-Ferguson
6310 PATTERSON'S ZINC PHOSPHIDE RODENT BAIT, Zinc phosphide 2%-R-Pearson-Ferguson
6311 PATTERSON'S ZINEB WETTABLE POWDER, 75%-F-Pearson-Ferguson

6311.50 PAX CRABGRASS CONTROL PLUS FERTILIZER 6-3-2, Arsenic trioxide 47.2%, lead arsenate 3.5%-H-Pax
6312 PAX CRABGRASS & SOIL PEST CONTROL, Arsenic trioxide 47.20%, heptachlor 0.172%, lead arsenate 3.51%-H-I-Pax
6313 PAXIDE TYPE "B", Piperonyl butoxide 1.5%, pyrethrins 0.3%, oil 98.7%-I-Biocerta Corp.
6314 P.C. 80 CRAB GRASS KILLER, Potassium cyanate 80%-H-Garden Prods.
PCNB = PENTACHLORONITROBENZENE (TERRACHLOR)
PCP = PENTACHLOROPHENOL
6314.29 PCE DOUBLE-ACTING ROACH DUST, 2% Diazinon, 0.11% pyrethrin (impregnated) -I-Pest Control
6314.30 PCE FOG OIL, N-Ethylhexylbicycloheptene dicarboxylate 1.66%, piperonyl butoxide 1%, pyrethrins 0.5%-I-Pest Control
6314.40 PCE FORMULATION 050, 0.50% Diazinon-I-Pest Control
6314.50 PCE FORMULATION 120, 0.5% Diazion, 0.298%, N-ethylhexyl bicycloheptene dicarboximide 0.1250% piperonyl butoxide, 0.0625%, pyrethrins-I-Pest Control
6314.60 PCE MULTI PURPOSE CONCENTRATE, 1.175%, N-Ethylhexyl bicycloheptene dicarboximide, 2.5% piperonyl butoxide, 1.25%, pyrethrins-I-Pest Control
6314.70 PCE WATER MISCIBLE MULTI PURPOSE CONCENTRATE, 6.60% N-Ethylhexyl bicycloheptene dicarboximide, 3.98% piperonyl butoxide, 1.98% pyrethrins-I-Pest Control
6315 PD-181, Kaolin carrier-Georgia Kaolin
6316 P-D-Q SHADE TOBACCO DUST NO. 5, DDT 10%, zineb 6.5%-FI-Fla. Agr. Supply
6317 P-D-Q SHADE TOBACCO DUST NO. 6, DDT 10%, zineb 6.5%-FI-Fla. Agr. Supply
6318 PEARSON'S AZALEA PETAL BLIGHT DUST, Zineb 6%-F-Pearson
6319 PEARSON'S 5% CHLORDANE DUST-I-Pearson
6320 PEARSON'S 6% CHLORDANE DUST-I-Pearson
6321 PEARSON'S 10% CHLORDANE DUST-I-Pearson
6322 PEARSON'S 45% CHLORDANE EMULSIFIABLE CONCENTRATE-I-Pearson
6323 PEARSON'S 75% CHLORDANE EMULSIFIABLE CONCENTRATE-I-Pearson
6324 PEARSON'S 10% CHLORDANE GRANULAR-I-Pearson
6325 PEARSON'S 40% CHLORDANE WETTABLE POWDER-I-Pearson
6326 PEARSON'S 50% CHLORDANE WETTABLE POWDER-I-Pearson
6327 PEARSON'S 25% DDT EMULSIFIABLE CONCENTRATE-I-Pearson
6328 PEARSON'S 50% DDT WETTABLE POWDER-I-Pearson
6329 PEARSON'S 18.6% DIELDRIN EMULSIFIABLE CONCENTRATE-I-Pearson
6330 PEARSON'S 5% DIELDRIN GRANULAR-I-Pearson
6331 PEARSON'S FUMIGRAIN P-75, Carbon tetrachloride 25%, ethylene dichloride 75%-IF-Pearson
6332 PEARSON'S GREEN DEVIL DUST, 5% Malathion-I-Pearson
6333 PEARSON'S GREEN DEVIL SPRAY CONCENTRATE, 50% Malathion-I-Pearson
6334 PEARSON'S GREEN DEVIL WETTABLE POWDER 25% Malathion-I-Pearson
6335 PEARSON'S HEPTACHLOR 2E, Heptchlor 2 lb/gal.-I-Pearson
6336 PEARSON'S 10% HEPTACHLOR GRANULAR-I-Pearson
6337 PEARSON'S KWIK-KILL BAIT, Calcium arsenate 5%, metaldehyde 2%-IB-Pearson
6338 PEARSON'S 5% NEMA-KILL, GRANULAR, 1,2-Dibromo-3-chloropropene 5%-IF-Pearson
6339 PEARSON'S RAT POISON, Zinc phosphide 2%, R-Pearson
6340 PEARSON'S RED DEVIL DUST, Sabadilla 20%, I-Pearson
6341 PEARSON'S RED-I-CAT BAIT, Sulfaquinoxaline, warfarin (prolin) 0.025%-R-Pearson
6342 PEARSON'S RED-I-CAT CONCENTRATE Sulfaquinoxaline, warfarin (prolin) 0.5%-R-Pearson
6343 PEARSON'S RED-I-CAT WATERSOLUBLE CONCENTRATE, Warfarin 0.54%-R-Pearson
6344 PEARSON'S RED ROBIN DUST, Rotenone 1%-I-Pearson
6345 PEARSON'S ROACH POISON, Pyrethrins 0.18%, rvania powder 18%, sodium fluoride 59%, sodium silicofluoride 1%-I-Pearson
6346 PEARSON'S ROSE DUST, Copper 3.7%, DDT 5%, rotenone 0.75%, sulfur 20%-FI-Pearson
6347 PEARSON'S 5% ROTENONE WETTABLE POWDER-I-Pearson
6348 PEARSON'S SEED-SAVER, Aldrin 23%, hardwood oils 9%, bird repellent seedling insecticide for corn, etc.-ST-Pearson
6349 PEARSON'S TOMATO DUST, TDE 3.0%, zineb 3.9%-FI-Pearson
6350 PEARSON'S ZEBRA DUST, Rotenone 1%, zineb 5%-FI-Pearson
6350.50 PECAN & FRUIT TREE SPRAY, Diazinon 12.5%-I Destruxol
6351 PEERLESS POWER TAKE-OFF DUSTER-E Hudson
6352 PEERLESS POWER TAKE-OFF SPRAYER-E-Hudson

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RODENTICIDES

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6353 PENDANE (LINDANE) 10% EMULSIFIABLE-I-Penick
6354 PENDANE (LINDANE) 20% EMULSIFIABLE-I-Penick
6355 PENDANE (LINDANE) 1% OIL SOLUTION-I-Penick
6356 PENDANE (LINDANE) 10% OIL SOLUTION-I-Penick
6357 PENDANE (LINDANE) 20% OIL SOLN-I-Penick
6358 PENDANE (LINDANE) TECH. 100% GAMMA ISOMER-IC-Penick
6359 PENDANE (LINDANE) 25% WETTABLE POWDER-C-Penick
6360 PENICK ALLETHRIN 20% SOLN-IC-Penick
6361 PENICK ALLETHRIN TECH., Allethrin 80%-100%-IC-Penick
6362 PENICK ANTIRESISTANT/DDT OIL SOLUBLE DDT 2.5% N,N di-*n*-butyl-*p*-chlorobenzenesulfonamide 0.5%, oil 97%-I-Penick
6363 PENICK ANTU 92%-R-Penick
6364 PENICK ANTU 20% POWDER-R-Penick
6365 PENICK BRITTLE EXTRACT OF CUBE, Rotenone 25-40%-IC-Penick
6366 PENICK CHLORDANE TECH. (LIQUID) AGRICULTURAL GRADE-IC-Penick
6367 PENICK CHLORDANE TECH. (LIQUID) REFINED GRADE-IC-Penick
6368 PENICK 50% DDT DISPERSIBLE (DRY) POWDER-I-Penick
6369 PENICK 25% DDT EMULSIFIABLE-I-Penick
6370 PENICK 30% DDT EMULSIFIABLE-I-Penick
6371 PENICK 30% DDT OIL SOLUTION-I-Penick
6372 PENICK DDT TECH. 89° SETTING POINT-IC-Penick
6373 PENICK 50% DDT WETTABLE POWDER-I-Penick
6374 PENICK DICAPTHON CONCENTRATE, Dicapthon, synergized pyrethrins-I-Penick
6375 PENICK DICAPTHON CONCENTRATE, (2 lb./gal.)-I-Penick
6376 PENICK DICAPTHON 25% EMULSIFIABLE-I-Penick
6377 PENICK DIELDRIN 1.5 EMULSION, Dieldrin 1.5%-I-Penick
6378 PENICK EMULSIFIABLE ROTENONE 5%-I-Penick
6379 PENICK GRUB KILLER, Emulsifiable rotenone concentrate-I-Penick
6380 PENICK (LIQUID EXT. OF CUBE) 5% ROTENONE IN PINE OIL-IC-Penick
6381 PENICK MALATHION 90% CONC.-IC-Penick
6382 PENICK MALATHION E-5 EMUL. CONC., Malathion 5 lbs./gal.-I-Penick
6383 PENICK MALATHION 50% EMULSIFIABLE, Malathion 4.33 lbs./gal.-I-Penick
6384 PENICK MALATHION 30% OIL SOLN.-IC-Penick
6385 PENICK MALATHION 25% WETTABLE POWDER, Malathion 25%-I-Penick
6386 PENICK POWDERED CUBE ROOT, Rotenone 4%-7%-IC-Penick
6387 PENICK POWDERED PYRETHRULM FLOWERS, Pyrethrins 0.9-1.3%-IC-Penick
6388 PENICK *n*-PROPYL ISOME (DI-*n*-PROPYL MALEATE ISOSAFROLE)-A-Penick
6389 PENICK PYRETHRUM OLEORESIN 20% PURIFIED-IC-Penick
6390 PENICK ROTENONE CHEMICALLY PURE, Rotenone 95%-IC-Penick
6391 PENICK ROTENONE TECH., Rotenone 80%-IC-Penick
6392 PENICK RYANIA POWDERED, Ryania sp.-I-Penick
6393 PENICK SABADILLA 50% CALCINED, Sabadilla alkaloid 1-3%-I-Penick
6394 PENICK SABADILLA SEED-IC-Penick
6394.50 PENICK TECHNICAL PIPERONYL BUTOXIDE (SYNERGIST)-A-Penick
6395 PENICKLOR (CHLORDANE) 46% EMULSIFIABLE-I-Penick
6396 PENICKLOR (CHLORDANE) 50% EMULSIFIABLE-I-Penick
6397 PENICKLOR (CHLORDANE) 73½% EMULSIFIABLE-I-Penick
6398 PENICKLOR (CHLORDANE) 20% OIL SOLN.-IC-Penick
6399 PENICKLOR (CHLORDANE) 50% WETTABLE POWDER-I-Penick
6401 PENN DRAKE INSECT-SOL, Oil 100%-I-D-Penna. Ref.
6402 PENN DRAKE SUPER-SOL, Oil 100%-I-D-Penna. Ref.
6403 PENN-MIST, Pyrethrum-I-Rockland
6404 PENNSALT 2½-10-0 ALDRIN DUST, Aldrin 2.5%, DDT 10%-I-Pennsalt
6405 PENNSALT ALDRIN E-4, Aldrin 4 lb./gal.-I-Pennsalt
6406 PENNSALT ALDRIN GRANULAR 20%-I-Pennsalt
6407 PENNSALT ALDRIN GRANULAR 25%-I-Pennsalt
6408 PENNSALT AQUATHOL®, Disodium endothall technical 2 lbs./1 gal.-H-Pennsalt
6410 PENNSALT AQUATHOL® PLUS GRANULAR, Dipotassium endothall 5% plus silvex acid as potassium salt 5%-H-Pennsalt
6411 PENNSALT BHC D-12, Gamma BHC 12%-I-Pennsalt
6412 PENNSALT BHC D-18, Gamma BHC 18%-I-Pennsalt
6413 PENNSALT 1½% BHC DUST, Gamma BHC .5%-I-Pennsalt
6414 PENNSALT BHC E-11, Gamma BHC 1 lb./gal.-I-Pennsalt
6415 PENNSALT BHC TECH., Gamma BHC approx. 11%-IC-Pennsalt
6416 PENNSALT BHC TECH. HIGH GAMMA, Gamma BHC approx. 46%-IC-Pennsalt
6417 PENNSALT BHC W-6, Gamma BHC 6%-I-Pennsalt
6418 PENNSALT BHC W-10, Gamma BHC 10%-I-Pennsalt
6419 PENNSALT BHC W-12, Gamma BHC 12%-I-Pennsalt

6420 PENNSALT BIOTROL® BTB 2.5D, 2.5 billion viable spores of Bacillus thuringiensis per gram-I-Pennsalt
6422 PENNSALT CALCIUM ARSENATE, Tricalcium arsenate 70%-I-Pennsalt
6423 PENNSALT CALCIUM ARSENATE TECHNICAL, Tricalcium arsenate equivalent 84.5%-I-Pennsalt
6424 PENNSALT 10% CHLORDANE DUST, Chlordane 10%-I-Pennsalt
6425 PENNSALT COPPER-SULFUR-2½% DDT DUST, Copper 3.4%, DDT 2.5%, sulfur 75%-FI-Pennsalt
6427 PENNSALT COPPER-SULFUR DUST 10-90, Copper 3.4%, sulfur 77%-FI-Pennsalt
6428 PENNSALT 2-5 COTTON DUST, DDT 5%, O,O-dimethyl S-4-oxo-1,2,3-benzotriazin-3(4H) methyl phosphorodithioate 2%-I-Pennsalt
6429 PENNSALT 2-20-0 COTTON DUST, Gamma BHC 2%, DDT 20%-I-Pennsalt
6430 PENNSALT 2-20-40 COTTON DUST, Gamma BHC 2%, DDT 20%, sulfur 40%-FI-Pennsalt
6431 PENNSALT 3-10-1 COTTON DUST, Gamma BHC 3%, DDT 10%, methyl parathion 1%-I-Pennsalt
6432 PENNSALT 3-5-40 COTTON DUST, Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Pennsalt
6433 PENNSALT 3-10-0 COTTON DUST, Gamma BHC 3%, DDT 10%-I-Pennsalt
6434 PENNSALT 3-10-40 COTTON DUST, Gamma BHC 3%, DDT 10%, sulfur 40%-FI-Pennsalt
6435 PENNSALT 20-0 COTTON DUST, Toxaphene 20%-I-Pennsalt
6436 PENNSALT 20-5 COTTON DUST, DDT 5%, toxaphene 20%-I-Pennsalt
6437 PENNSALT 20-10 COTTONDUST, DDT 10%, toxaphene 20%-I-Pennsalt
6438 PENNSALT 20-40 COTTON DUST, Sulfur 40%, toxaphene 20%-FI-Pennsalt
6439 PENNSALT 2-10-40 COTTON DUST, Gamma BHC 2%, DDT 10%, sulfur 40%-FI-Pennsalt
6440 PENNSALT 14-7-2 COTTON DUST, DDT 7%, methyl parathion 2%, toxaphene 14%-I-Pennsalt
6441 PENNSALT 3-5-0 COTTON DUST DDT 5%, Gamma BHC 3%, DDT-I-Pennsalt
6442 PENNSALT 3-5-0 COTTON SPRAY, Gamma BHC 0.9 lb., DDT 1.5 lb./gal.-I-Pennsalt
6443 PENNSALT 3-10-0 COTTON SPRAY, Gamma BHC 0.6 lb., DDT 2 lb./gal.-I-Pennsalt
6444 PENNSALT 4-2-1 COTTON SPRAY, DDT 2 lb., methyl parathion 1 lb., toxaphene 4 lb. per gal.-I-Pennsalt
PHALTAN=FOLPET
6445 PENNSALT DDT D-50, DDT 50%-I-Pennsalt
6446 PENNSALT 10% DDT DUST, DDT 10%-I-Pennsalt
6447 PENNSALT 20% DDT DUST, DDT 20%-I-Pennsalt
6448 PENNSALT DDT E-2, DDT 2 lb./gal.-I-Pennsalt
6449 PENNSALT DDT E-3, DDT 3 lb./gal.-I-Pennsalt
6450 PENNSALT DDT-ENDRIN E-3:.6, DDT 3 lb., endrin 0.6 lb./gal.-I-Pennsalt
6451 PENNSALT 5% DDT GRANULAR-I-Pennsalt
6452 PENNSALT 10% DDT GRANULAR-I-Pennsalt
6453 PENNSALT DDT-SULFUR 5-80 DUST, DDT 5%, sulfur 80%-FI-Pennsalt
6454 PENNSALT DDT-SULFUR 10-40 DUST, DDT 10%, sulfur 40%-FI-Pennsalt
6455 PENNSALT DDT-SULFUR 10-75 DUST, DDT 10%, sulfur 75%-FI-Pennsalt
6456 PENNSALT DDT TECH. (FLAKE), DDT 100%-IC-Pennsalt
6457 PENNSALT DDT TECH. (POWDER) DDT 100%-IC-Pennsalt
6458 PENNSALT DDT W-50, DDT 50%-I-Pennsalt
6459 PENNSALT DDT W-75, DDT 75%-I-Pennsalt
6460 PENNSALT DE-FOL-ATE®, Magnesium chloride 58.5%, sodium chlorate 41.5%-H-Pennsalt
6461 PENNSALT DESICCANT L-10, Arsenic acid 11.75 lb./gal.-H-Pennsalt
6462 PENNSALT DIELDRIN E-1.5, Dieldrin 1.5 lb./gal.-I-Pennsalt
6463 PENNSALT DIELDRIN W-50, Dieldrin 50%-I-Pennsalt
6464 PENNSALT 2½-5-40 DIELDRIN DUST, DDT 5%, dieldrin 2.5%, sulfur 40%-FI-Pennsalt
6465 PENNSALT DIMITE® E-2, Di-(*p*-chloro-phenyl) methyl carbinol 2 lb./gal.-I-Pennsalt
6466 PENNSALT 5% ENDOTHAL GRANULAR, Disodium endothall technical 5%-H-Pennsalt
6467 PENNSALT ENDOTHAL HARVEST AID, Disodium endothall technical .63 lb./gal.-H-Pennsalt
6467.50 PENNSALT ENDOTHAL/2,4-D HERBICIDE, Endothall 3.1%, 2,4-D 2.8%-H-Pennsalt
6468 PENNSALT ENDOTHAL® TURF HERBICIDE, Disodium endothall technical 2 lb./gal.-H-Pennsalt
6469 PENNSALT ENDOTHAL-TCA GRANULAR, Endothall 6%, TCA 6%-H-Pennsalt

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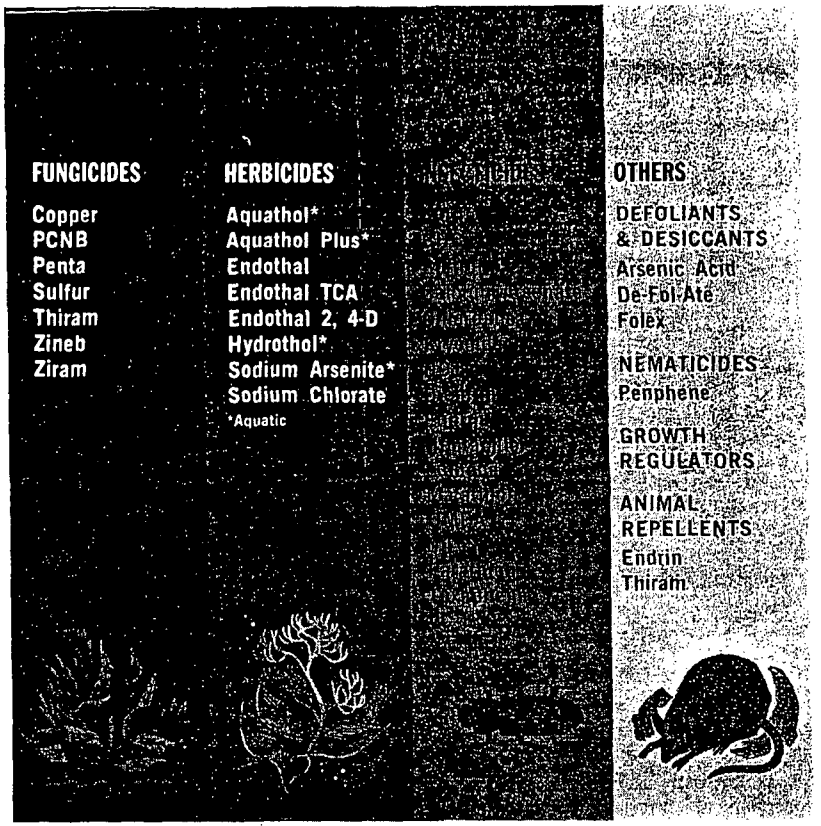
6470 PENNSALT ENDOTHAL-TCA HERBICIDE Disodium endothall 0.75 lb./gal. plus 90% sodium TCA 1.25 lb./gal.-H-Pennsalt
6471 PENNSALT ENDOTHAL WEED KILLER, Disodium endothall technical 2 lb./gal. -H-Pennsalt
6472 PENNSALT 2% ENDRIN DUST-I-Pennsalt
6473 PENNSALT ENDRIN E-1.6, Endrin 1.6 lb./gal.-I-Pennsalt
6474 PENNSALT FENSON W-50, *P*-chlorophenyl benzene sulfonate 50%-I-Pennsalt
6475 PENNSALT FERBAM (76%)-F-Pennsalt
6476 PENNSALT FERBAM D-87½ (87.5%)-F-Pennsalt
6477 PENNSALT HEPTACHLOR E-2, Heptachlor 2 lb. gal.-I-Pennsalt
6478 PENNSALT 10% HEPTACHLOR GRANULAR-I-Pennsalt
6479 PENNSALT HYDROTHOL 47 GRANULAR Endothall as dimethylcocoamine salt 5% -H-Pennsalt
6480 PENNSALT HYDROTHOL 191 GRANULAR, Endothall as monomethylcocoamine salt 5%-H-Pennsalt
6481 PENNSALT KNOX-OUT® COTTON DUST, DDT 5%, methyl parathion 2%, endrin 1%-I-Pennsalt
6482 PENNSALT KNOX OUT® COTTON SPRAY, DDT 1 lb. endrin 0.6 lb./gal. methyl parathion 0.8 lb.-I-Pennsalt
6483 PENNSALT KRYOCIDE®, Sodium fluoaluminate 95%-I-Pennsalt
6484 PENNSALT 1% LINDANE DUST-I-Pennsalt
6485 PENNSALT LINDANE E-20, Lindane 1.65 lb./gal. I Pennsalt
6486 PENNSALT LINDANE TECH., Gamma BHC 99% IC-Pennsalt
6487 PENNSALT LINDANE W-25, Lindane 25% I Pennsalt
6488 PENNSALT LIQUID DE-FOL-ATE®, Magnesium chloride 27.8%, sodium chlorate 19.6%-H-Pennsalt
6489 PENNSALT LIVESTOCK SPRAY, BHC 1.3%, toxaphene 43.5%-I-Pennsalt
6490 PENNSALT LIVESTOCK SPRAY M. T., Malathion 13%, toxaphene 43.1%-I-Pennsalt
6491 PENNSALT MALATHION D-25, Malathion 25% I Pennsalt
6492 PENNSALT 5% MALATHION-5% DDT DUST-I-Pennsalt
6493 PENNSALT 5% MALATHION DUST-I-Pennsalt
6494 PENNSALT 10% MALATHION DUST-I Pennsalt
6495 PENNSALT MALATHION E-5, Malathion 5 lb. gal. I Pennsalt
6496 PENNSALT MALATHION E-8, Malathion 8 lb. gal. I-Pennsalt
6497 PENNSALT MALATHION W-25, Malathion 25% Pennsalt
6498 PENNSALT METHYL PARATHION-DDT E 75-3 DDT 3 lb./gal., methyl parathion 0.75 lb. I-Pennsalt
6499 PENNSALT METHYL PARATHION-DDT E 1.5-3 DDT 3 lb., methyl parathion 1.5 lb. per gal.-I-Pennsalt
6500 PENNSALT METHYL PARATHION E-2 Methyl parathion 2 lb./gal.-I-Pennsalt
6501 PENNSALT METHYL PARATHION E-4, Methyl parathion 4 lbs./gal.-I-Pennsalt
6502 PENNSALT 1½-10 MP COTTON DUST DDT 10%, methyl parathion 1½%-I-Pennsalt
6503 PENNSALT 1½-2 MP COTTON DUST, DDT 20% methyl parathion 1.5%-I-Pennsalt
6504 PENNSALT 2½-5 MP COTTON DUST, DDT 5%, methyl parathion 2½%-I-Pennsalt
6505 PENNSALT 2½-10 MP COTTON DUST, DDT 10%, methyl parathion 2½%-I-Pennsalt
6506 PENNSALT 2½-20 MP COTTON DUST, DDT 20%, methyl parathion 2.5%-I-Pennsalt
6507 PENNSALT MP/ENDRIN E-1.6-1.6, Endrin 1.6 lb. per gal., methyl parathion 1.6 lb. per gal.-I-Pennsalt
6508 PENNSALT OMPA, Schradan 42%-IS-Pennsalt
6508.50 PENNSALT ORS-I-CATE®, Endothall 0.5% lbs./gal.-H-Pennsalt
6509 PENNSALT 1% PARATHION-10% DDT DUST-I-Pennsalt
6510 PENNSALT 2% PARATHION-5% DDT DUST-I-Pennsalt
6511 PENNSALT 2% PARATHION-10% DDT DUST-I-Pennsalt
6512 PENNSALT 2% PARATHION-20% DDT DUST-I-Pennsalt
6513 PENNSALT 2% PARATHION DUST-I-Pennsalt
6514 PENNSALT PARATHION E-2, Parathion 2 lbs./gal.-I-Pennsalt
6515 PENNSALT PARATHION E-4, Parathion 4 lb. per gal.-I-Pennsalt
6516 PENNSALT PARATHION W-15, Parathion 15%-I Pennsalt
6517 PENNSALT PARATHION W-25, Parathion 25%-I-Pennsalt
6518 PENNSALT PCNB TECHNICAL, Pentachloronitrobenzene 98%-F-Pennsalt
6519 PENNSALT PENCAL®, Tricalcium arsenate equivalent (low lime) 70%-I-Pennsalt
6520 PENNSALT PENCAL®-5% DDT, DDT 5%, tricalcium arsenate equivalent (low lime) 67%-I-Pennsalt
6521 PENNSALT PENCAL®-10% DDT, DDT 10%, tricalcium arsenate equivalent (low lime) 67%-I-Pennsalt
6522 PENNSALT PENCAL®-5% DDT-1% PARATHION, DDT 5%, parathion 1%, tricalcium arsenate equivalent (low lime) 67%-I-Pennsalt
6523 PENNSALT PENCAL® PARATHION 1% DUST Parathion 1%, tricalcium arsenate equivalent (low lime) 67%-I-Pennsalt

PENNSALT CHEMICALS PROVIDE BROAD SPECTRUM CONTROL



Pennsalt Chemicals are known for their dependable potency, high performance and constant quality. Buying from Pennsalt, a basic producer, ensures fast, on-time delivery from close-by plants or warehouses. Pennsalt technical service is available to you on any control problem. Contact your Pennsalt dealer or your Pennsalt representative for immediate assistance with your control problems.

Pennsalt Chemicals ESTABLISHED 1850

PENNSALT CHEMICALS CORPORATION
Agricultural Chemicals Division
Tacoma, Washington; Aurora, Illinois; Bryan, Texas; Montgomery, Alabama; Portland, Oregon.

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6524 PENNSALT PENITE®-8, Arsenic trioxide 8 lbs. gal.-H-Pennsalt
6525 PENNSALT PENITE®-35, Arsenic trioxide 3.5 lb. gal.-H-Pennsalt
6526 PENNSALT PENPHENE®, Tetrachlorothiophene 1 lb. per gal.-IF-Pennsalt
6527 PENNSALT PENTACHLOROPHENOL TECH.-WP-Pennsalt
6528 PENNSALT SODIUM CHLORATE 99%-H-Pennsalt
6529 PENNSALT SODIUM PENTACHLOROPHENATE TECH.-WP-Pennsalt
6530 PENNSALT SPRA-CAL, Tricalcium arsenate equivalent 80%-I-Pennsalt
6531 PENNSALT SUPER KNOX-OUT® COTTON SPRAY, DDT 2 lb., methyl parathion .6 lb., endrin 0.6 lb. per gal.-I-Pennsalt
6532 PENNSALT SUPERIOR OIL EMULSION, Horticultural spray oil emulsion-I-Pennsalt
6533 PENNSALT SUPER-SEVENTY, Cryolite 70%-I-Pennsalt
6534 PENNSALT SUPERIOR SPRAY OIL, Horticultural spray oil-I-Pennsalt
6535 PENNSALT TDE-PARATHION 10-1 DUST, Parathion 1%, TDE 10%-I-Pennsalt
6536 PENNSALT TDE-PARATHION 10-2 DUST, Parathion 2%, TDE 10%-I-Pennsalt
6537 PENNSALT THIRAM-65, Thiram 65%-F-Pennsalt
6538 PENNSALT THIRAM-90, Thiram 90%-F-Pennsalt
6539 PENNSALT THIRAM ANIMAL REPELLENT (1.82 lb./gal.)-ANR-Pennsalt
6540 PENNSALT THIRAM-MERCURY, Mercury 12.5%, thiram 50%-F-Pennsalt
6541 PENNSALT THIRAM S-42, Thiram 4 lbs./gal.-F-Pennsalt
6542 PENNSALT THIRAM TECHNICAL, Thiram 99%-F-Pennsalt
6543 PENNSALT THIRAM 75, Thiram 75%-F-Pennsalt
6544 PENNSALT TOXAPHENE-DDT E-2-1, DDT 2 lb./gal., toxaphene 4 lb./gal.-I-Pennsalt
6545 PENNSALT TOXAPHENE-DDT E-3-3, DDT 3 lb. gal. toxaphene 3 lb./gal.-I-Pennsalt
6546 PENNSALT TOXAPHENE E-6, Toxaphene 6 lb./gal.-I-Pennsalt
6547 PENNSALT TRANSPLANT LIQUID, Lindane 5%-I-Pennsalt
6548 PENNSALT 2% TRITHION® DUST, Carbophenothion 2%-I-Pennsalt
6549 PENNSALT 5% V-C 13® GRANULAR, O-2,4-dichlorophenyl O,O-diethyl phosphorothioate 5%-I-Pennsalt
6551 PENNSALT V-C 13® LIQUID, O-2, 4-Dichlorophenyl O,O-diethyl phosphorothioate 75%-I-Pennsalt
6552 PENNSALT V-C 13 NEMACIDE, O-2-4-Dichlorophenyl O,O-diethyl phosphorothioate 75%-I-Pennsalt
6553 PENNSALT 5% V-C 13-5% THIRAM GRANULAR-FI-Pennsalt
6554 PENNSALT ZINEB-TDE DUST, TDE 10%, zineb 6.5%-FI-Pennsalt
6555 PENNSALT ZINEB TECHNICAL, Zineb 85%-F-Pennsalt
6556 PENNSALT ZINEB W-75, Zineb 75%-F-Pennsalt
6557 PENNSALT ZIRAM F-3 (3 lb./gal.)-F-Pennsalt
6558 PENNSALT ZIRAM TECHNICAL, Ziram 99%-F-Pennsalt
6559 PENNSALT ZIRAM W-76 (76%)-F-Pennsalt
6560 PEN-PEST LITTER DUST, Malathion 4%-I-Howard
6562 PENTA-CURE, Oil 95%, pentachlorophenol 5%-WP-Apperson Chem.
6564 PENTA GENERAL WEED KILLER CON., Oil 89.5%, pentachlorophenol 8%-H-Chapman
6565 PENTA PLUS 40, Pentachlorophenol 40%-I-WP-Chapman
6566 PENTA PRESERVATIVE, Oil 95%, pentachlorophenol 5%-WP-Chapman
6567 PENTA PRESERVATIVE CONC. 1-10, OIL 60%, pentachlorophenol 40%-WP-Chapman
6568 PENTA WR, Oil, pentachlorophenol 5%-WP-Chapman
6569 PENTA WR CONC. 1-5, Oil, Pentachlorophenol 25.3%-I-WP-Chapman
6570 PENTAC®, Bis (Pentachloro-2,4-cyclopentadien-1-yl) 50%-H-Hooker
6571 PENTOX (CLEAR) WATER REPELLENT WOOD PRESERVATIVE, 5% Pentachlorophenol-WP-Osmose
6571.50 PERMAGARD CONCENTRATE NO. 10, Pentachlorophenol 40%-WP-Thomp.-Hayward
6572 PERMATOX A CONC. 1-10, Pentachlorophenol 40%-WP-Chapman
6573 PERMAX, Lindane-I-Dolge
6574 PER-MO MOTHPROOFING SPRAY, Magnesium silicofluoride 0.9%-MP-Uncle Sam
6575 PERRY CLAY-D-United Clay
6576 PERTHANE® EC, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane, diethyl diphenyl dichloroethane 47.3%-I-Rohm & Haas
6577 PERTHANE® 75% SOLUTION, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 71.25%-I-Rohm & Haas
6578 PERTHANE® TECHNICAL, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 100%-IC-Rohm & Haas
6579 PERNOX, Iso-octyl ester 2,4-D, contains 2 lbs./gal. 2,4-D acid equiv.-H-Chipman
6581 PEST-B-CON 50% DDT WETTABLE, DDT 50%-I-Cabot Chem.

6582 PEST CONTROL CHLORDANE-IC-Pest Control
6583 PEST CONTROL DDT-IC-Pest Control
6584 PEST CONTROL DIAZINON®, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphoro-thioate-IC-Pest Control
6585 PEST CONTROL DIELDRIN-IC-Pest Control
6586 PEST CONTROL FUMARIN®, Coumafuryl-R-Pest Control
6587 PEST CONTROL LINDANE-IC-Pest Control
6588 PEST CONTROL PIVAL®, Pindone-R-Pest Control
6589 PEST CONTROL PIVALYN®, Sodium salt of pindone-R-Pest Control
6590 PEST CONTROL PYRETHRUM-I-Pest Control
6591 PESTENE INSTICIDE POWDER, DDT 10%,-I-Uncle Sam
6592 PESTENE INSECT SPRAY WITH DDT, DDT, n-octyl bicycloheptene dicarboximide, oil, piperonyl butoxide, pyrethrins-I-Uncle Sam
6593 PESTENE SURFACE SPRAY, DDT 5%, oil-I-Uncle Sam
6594 PESTMASTER FUMIGANT 37, Ethylene dibromide 30%, methyl bromide 70%-IF-Mich. Chem.
6595 PESTMASTER FUMIGANT 73, Ethylene dibromide 70%, methyl bromide 30%-IF-Mich. Chem.
6596 PESTMASTER METHYL BROMIDE (100%)-IF-Mich. Chem.
6597 PESTMASTER METHYL BROMIDE WITH CHLOROPICRIN WARNING AGENT, Chloropicrin 2%, methyl bromide 98%-IF-Mich. Chem.
6598 PESTMASTER SOIL FUMIGANT-1, Chloropicrin 2%, methyl bromide 98%-IF-Mich. Chem.
6599 PESTMASTER SPOT SHOT, Ethylene dibromide 70%, methyl bromide 30%-IF-Mich. Chem.
6601 PETRO WP, Wetting agent for pesticide formulation-A-Petrochemicals
PHALTAN = FOLPET
6602 PHALTAN® 50 WETTABLE, Folpet 50%-F-Calif. Chem.
6603 PHELAM, Phenyl mercuric dimethyldithiocarbamate 95%-F-Wood Ridge
6604 PHENMAD, Phenyl mercuric acetate 10% solution-F-Mallinckrodt
6605 PHILLIPS BASE OIL NO. 1, Solvent & carrier oil for pesticides-D-Phillips
6606 PHILLIPS BASE OIL NO. 2, Solvent & carrier oil for pesticides-D-Phillips
PHORATE = O,O-DIETHYL S-(ETHYLTHIO) METHYL PHOSPHORODIETHIOATE— see THIMET® PHORATE
6606.50 PHILLIPS HYDROCARBON AEROSOL PROPELLANTS-D-Phillips
6607 PHOSDRIN® INSECTICIDE 100% ACTIVE, Contains not less than 60%w of the alpha isomer of 2-carbomethoxy-1-methylvinyl dimethyl phosphate and not more than 40%w insecticidally active, related compounds-IC-Shell
6608 PHOSFON® D 10% DUST, Tributyl 2,4-dichlorobenzyl phosphonium chloride (growth retardant) 10%, Virginia-Carolina
6609 PHOSFON®, 1% DUST, Tributyl 2,4-dichlorobenzyl phosphonium chloride (growth retardant) 1%-PH-Virginia-Carolina
6610 PHOSFON® LIQUID, Tributyl 2,4-dichlorobenzyl phosphonium chloride (growth retardant) 10%-PH-Virginia-Carolina
PHOSPHAMIDON = 1-CHLORO-1-DIETHYLCARBAMOYL-1-PROPEN-2YL DIMETHYL PHOSPHATE
6611 PHOSPHODUST PESTICIDE DUST DILUENT, Pesticide diluent and carrier, containing 32.3% P_2O_5-D-The Amer. Agri. Chem. Co.
PHOSTEX® = MIXTURE OF BIS-(DIALKYL PHOSPHINOTHIOYL) DISULFIDES (See NIAGARA PHOSTEX)
6611.50 PHYGON®-2D, Dichlone 2%-F-U. S. Rubber (Naugatuck)
6611.75 PHYGON®-3D, Dichlone 3%-F-U. S. Rubber (Naugatuck)
6612 PHYGON® SEED PROTECTANT, Dichlone 50%-ST-U. S. Rubber (Naugatuck)
6613 PHYGON®-XL, Dichlone 50%-F-U. S. Rubber (Naugatuck)
6614 PICFUME®, Chloropicrin 99%-IF-Dow
6615 PICRIDE®, Chloropicrin 20%, methyl bromide 80%-IF-Dow
6617 PIED PIPER ANTU, Antu 25%-R-Pied Piper
6618 PIED PIPER BIRD REPELLENT, For control of birds on buildings, etc.-ANR-Pied Piper
6619 PIED PIPER CHLOR-O-CIDE, Chlordane 5%-I-Pied Piper
6620 PIED PIPER 5% DDT SURFACE SPRAY, DDT 5%, oil 79.75%-I-Pied Piper
6621 PIED PIPER DOG SHAMPOO, Chlordane 6.5%-I-Pied Piper
6622 PIED PIPER FLEA POWDER FOR DOGS, CATS & POULTRY, Organic thiocyanates 10%, TDE 2.5%-I-Pied Piper
6623 PIED PIPER FLEA POWDER FOR PET BIRDS, Pyrethrins 0.57%-I-Pied Piper
6624 PIED PIPER INSECTICIDE, Borax 1.25%, oil 93.32%, organic thiocyanates 4%, para-dichlorobenzene 1.25%-I-Pied Piper

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6625 PIED PIPER INSECTICIDE CONTG. 2% TECH. CHLORDANE, Borax 1.25%, chlordane 2%, oil 95.4%, paradichlorobenzene 1.25%-I-Pied Piper
6626 PIED PIPER KWIK-KILL MOUSE SEED, Strychnine 0.3%-R-Pied Piper
6627 PIED PIPER LINDANE 99%-IC-Pied Piper
6628 *PIED PIPER PARADICHLOROBENZENE MOTH CRYSTALS, Paradichlorobenzene* 95%-IF-Pied Piper
6629 PIED PIPER RATSQUILL, Rodine 10% (liquid extract red squill, potency 500 mg./kg.)-R-Pied Piper
6630 PIED PIPER ROACHOCIDE, Borax 75%, pyrethrins 0.9%, sodium fluoride 10%-I-Pied Piper
6631 PIED PIPER RODENTICIDE, Red squill 5%-R-Pied Piper
6632 PIED PIPER SLUG'N BUG KILLER, Calcium arsenate 6%, metaldehyde 3%-IB-Pied Piper
6633 PIED PIPER .025% WARFARIN FOR RATS & MICE-R-Pied Piper
6634 PIKES PEAK BRAND DUST CARRIER AND DILUENT CLAY-(pH 5)-D-General Reduction
6635 PIKES PEAK BRAND GRANULAR CARRIER AND DILUENT CLAY, (pH 5)-General Reduction
PINDONE = 2-PIVALOYL-1,3-INDANDIONE
PIPERONYL BUTOXIDE = ALPHA-2-(2-BUTOXYETHOXY) ETHOXY-4,5-METHYLENEDIOXY-2-PROPYLTOLUENE
6636 PIPERONYL BUTOXIDE, TECH., *Alpha*-(2-Butoxyethoxy) ethoxy-4,5-methylenedioxy-2-propyltoluene 80%, related compds. 20% (synergist)-IC-Fairfield
PIPERONYL CYCLONENE = MIXTURE OF 2-ALKYL-6-CARBETHOXY-5-(3,4-METHYLENEDIOXYPHENYL)-2-CYCLOHEXENE-1-ONE and 3-ALKYL-5-(3,4-METHYLENEDIOXYPHENYL)-2-CYCLOHEXEN-1-ONE
6637 PIVAL® CONC., Pindone 0.5%-R-Motomco
6638 PIVALYN CONC.®, Sodium salt of pindone 1.5%-R-Motomco
6639 PIVALYN®, WATER SOLUBLE, Sodium salt of pindone 0.14%-R-Motomco
6640 PLANT DITHIO AEROSOL, Tetraethyl dithionopyrophosphate 5%-IA-Plant Prods.
6641 PLANT-GARD, oil, pyrethrins 0.32%, rotenoids and rotenone 3%-I-Garden Prods.
6642 PLANT MALATHION AEROSOL, Malathion 15%-IA-Plant Prods.
6643 PLANT PRODUCTS ARAMITE® AEROSOL, 2-(*p-tert*-Butylphenoxy), isopropyl 2′-chloroethyl sulfite 15%-IA-Plant Prods.
6644 PLANT PRODUCTS ARAMITE®, LINDANE AEROSOL, 2-(*p-tert*-Butylphenoxy), isopropyl 2′-chloroethyl sulfite 15%, lindane 1%-IA-Plant Prods.
6645 PLANT PRODUCTS 5% DDT DUST-I-Plant Prods.
6646 PLANT PRODUCTS SODIUM SELENATE, 99%-IS-Plant Prods.
6647 PLANTERS ALDRIN COTTON DUST, Aldrin 2.375%, related compds. 1.79%-I-Planters
6648 PLANTERS 2½% ALDRIN-10% DDT COTTON DUST-I-Planters
6649 PLANTERE 5% ALDRIN DUST-I-Planters
6650 PLANTERS 10% ALDRIN DUST-I-Planters
6651 PLANTERS 20% ALDRIN DUST BASE CONC. IC-Planters
6652 PLANTERS ALDRIN EMUL. CONC., Aldrin 23.5%, oil 65%-I-Planters
6653 PLANTERS BLUE MOLD DUST, Ferbam 11.4%-F-Planters
6654 PLANTERS COMBINATION DUST, DDT 5%, parathion 1%-I-Planters
6655 PLANTERS COPPER-SULFUR-DDT, Basic copper sulfate 7.7% (4% copper), 75% sulfur, 5% DDT-FI-Planters
6656 *PLANTERS COPPER-SULFUR DUST FOR PEANUTS, Basic copper sulfate 7.7%* (copper 4%), sulfur 85%-FI-Planters
6657 PLANTERS 3-7-0 COTTON DUST, Gamma BHC 3%, DDT 5%-I-Planters
6658 PLANTERS 3-7-0 COTTON DUST, 3% BHC, 5% DDT, 4% sulfur-F-Planters
6659 PLANTERS 3-10-0 COTTON DUST, 3% BHC, 10% DDT-I-Planters
6660 PLANTERS 10 DDT DUST-I-Planters
6661 PLANTERS 5% DDT-SULFUR DUST, DDT 5%, sulfur 75%-FI-Planters
6662 PLANTERS DDT 2 LB. EMUL. CONC.-I-Planters
6663 PLANTERE DEE-KOP DUST NO. 5, Copper sulfate 13.46% (copper 7%), DDT 5%-FI-Planters
6664 PLANTERS DIELDREX 15, Dieldrin 15.83%, oil 73.38%-I-Planters
6665 PLANTERS 1% DIELDRIN-7% COPPER DUST-FI-Planters
6666 PLANTERS 1½% DIELDRIN DUST-I-Planters
6667 PLANTERS DIELDRIN-ZINEB DUST, 1% Dieldrin, 3.9% zineb-FI-Planters
6668 PLANTERS DOUBLE STRENGTH INSECT SPRAY, Alkalated naphthalenes 23.33%, DDT 10%, oil 66.67%-I-Planters
6669 PLANTERS 1½% ENDRIN DUST-I-Planters
6670 PLANTERS 2% ENDRIN DUST-I-Planters
6671 PLANTERS 25% ENDRIN DUST CONC.-IC-Planters

PIKES PEAK ABSORBENT CLAY

CARRIER COMPATIBILITY

Pikes Peak clay's exceptionally low moisture content and pH of 5 is your assurance of highest compatibility with malathion, methyl parathion, ethyl parathion or other phosphated insecticides.

Don't take chances with the stability of your finished product or concentrate. Use Pikes Peak clay. It is ideal for adjusting bulk densities in finished products and as a carrier for either phosphate or hydrocarbon concentrates. Pikes Peak clay also safeguards the free flowing characteristics of your product.

When you buy Pikes Peak clay you buy uniformity you can count on. It is ground to a fineness of 95% through 325 mesh. Of course, other sizes—granulars as well as powders—are available to meet your requirements.

Find out about Pikes Peak clay today. See what its unrivalled compatibility factor can mean to you in product quality. Write now for more information and prices.

GRC
GENERAL REDUCTION COMPANY
212 W. MONROE STREET · CHICAGO 6, ILLINOIS

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6672 PLANTERS ENDRIN EMUL. CONC., Endrin 19.5%, oil 70.5%-I-Planters
6673 PLANTERS FERBAM-DDT PLANT BED DUST, DDT 3%, ferbam 11.40%-FI-Planters
6674 PLANTERS FERBAM-PARATHION, 11.4% ferbam 1% parathion-FI-Planters
6675 PLANTERS 1% GAMMA ISOMER BENZENE HEXACHLORIDE DUST-I-Planters
6676 PLANTERS 5% GRANULAR ALDRIN-I-Planters
6677 PLANTERS 10% GRANULAR ALDRIN-I-Planters
6678 PLANTERS 5% GRANULAR HEPTACHLOR-I-Planters
6679 PLANTERS 10% GRANULAR HEPTACHLOR-I-Planters
6680 PLANTERS HEPTACHLOR-DDT DUST, DDT 5%, heptachlor 2.5%-I-Planters
6681 PLANTERS 5% HEPTACHLOR DUST-I-Planters
6682 PLANTERS 10% HEPTACHLOR DUST-I-Planters
6683 PLANTERS HEPTACHLOR EMUL., Heptachlor 25.41%, oil 64.49%, related compds. 9.10%-I-Planters
6684 PLANTERS 2½% HEPTACHLOR GRANULAR-I-Planters
6685 PLANTERS 1% LINDANE-6% DITHANE® DUST, Lindane 1%, zineb 3.90%-FI-Planters
6686 PLANTERS 4% MALATHION DUST-I-Planters
6687 PLANTERS 2½% METHYL PARATHION-5% DDT DUST-I-Planters
6688 PLANTERS MEXICAN BEAN BEETLE DUST, Rotenone 0.75%, rotenoids 1.5%, sulfur 25%-FI-Planters
6689 PLANTERS MH-30, GROWTH RETARDANT & HERBICIDE, Maleic hydrazide-H-Planters
6690 PLANTERS PARATHION-DDT-SULFUR DUST 5% DDT, 1% parathion 50% sulfur-FI-Planters
6691 PLANTERS 1% PARATHION DUST-I-Planters
6692 PLANTERS 2% PARATHION DUST-I-Planters
6693 PLANTERS PARATHION-ZINEB DUST, Parathion 1%, zineb 3.9%-FI-Planters
6694 PLANTERS PDQ BEAN & GARDEN DUST Piperonyl cyclonene 0.37%, pyrethrins 0.03%, rotenone 0.25%, rotenoids 0.5%, sulfur 50%-FI-Planters
6695 PLANTERS 2% PHOSDRIN® DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%-I-Planters
6696 PLANTERS PHOSDRIN® EMULSIFIABLE CONCENTRATE, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate-I-Planters
6697 PLANTERS RAT & MOUSE BAIT, Warfarin 0.025%-R-Planters
6698 PLANTERS 1% ROTENONE DUST-I-Planters
6699 PLANTERS 10% SABADILLA DUST, Sabadilla alkaloids 0.4%-I-Planters
6700 PLANTERS 20% SABADILLA DUST, Sabadilla alkaloids 0.8%-I-Planters
6701 PLANTERS SAV-A-ROOT, Chlordane 75%-I-Planters
6702 PLANTERS SEVEN KOP DUST, Basic copper sulfate 13.46% (copper 7%)-F-Planters
6703 PLANTERS 3% SEVIN®-7% COPPER DUST, 1-Naphthyl-N-methylcarbamate 3%, copper 7%-FI-Planters
6704 PLANTERS SEVIN® COPPER-SULFUR DUST, 1-Naphthyl-N-methylcarbamate 5%, copper 4%, sulfur 75%-FI-Planters
6705 PLANTERS 3% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate 3%-I-Planters
6706 PLANTERS 5% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate 5%-I-Planters
6707 PLANTERS 10% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate-I-Planters
6708 PLANTERS 3% SEVIN®-50% SULFUR DUST, 1-Naphthyl-N-methylcarbamate 3%, sulfur 50%-FI-Planters
6709 PLANTERS 5% SEVIN®-SULFUR DUST, 1-Naphthyl-N-methylcarbamate, sulfur 75%-FI-Planters
6710 PLANTERS SEVIN® TOBACCO PROTECTOR, 1-Naphthyl-N-methylcarbamate 5%, parathion 1%-I-Planters
6711 PLANTERS SPECIAL INSECT SPRAY, Chlordane 2%, oil 98%-I-Planters
6712 PLANTERS 10% TDE DUST, TDE 10%-I-Planters
6713 PLANTERS 25% TDE EMUL. CONC., Oil 71.8%, TDE 25%-I-Planters
6714 PLANTERS 10% TDE-1% PARATHION DUST, Parathion 1%, TDE 10%-I-Planters
6715 PLANTERS TERMITOX, Chlordane 75%-I-Planters
6716 PLANTERE TOXAPHENE COTTON DUST, Sulfur 40%, toxaphene 20%-FI-Planters
6717 PLANTERS TOXAPHENE-DDT DUST 5-10, DDT 5%, toxaphene 10%-I-Planters
6718 PLANTERS TOXAPHENE-DDT-DUST 7-14, 7% DDT, 14% toxaphene-I-Planters
6719 PLANTERS 10% TOXAPHENE DUST-I-Planters
6720 PLANTERS 20% TOXAPHENE DUST-I-Planters
6721 PLANTERS TOXAPHENE 6 LBS. EMUL. CONC., Oil 29.8%, toxaphene 60.2%-I-Planters
6722 PLANTERS TOXAPHENE-PARATHION DUST, 2%, Parathion, 20% toxaphene-I-Planters
6723 PLANTERS TRUK-DUST, DDT 5%-I-Planters

6724 PLANTERS 40% WETTABLE CHLORDANE-I-Planters
6725 PLANTERS ZINEB DUST, Zineb 6.5%-F-Planters
6726 PLANTERS ZINEB DUST WITH DDT, DDT 5%, ZINEB 3.9%-FI-Planters
6727 PLANTFUME 103 SMOKE GENERATOR, Tetraethyl dithiopyrophosphate 15%-IA Plant Prods.
6728 PLANT-SHOOT, Gibberellic acid-PH-Nott
6729 PLANTTHION AEROSOL, Parathion 10%-IA-Plant Prods.
6730 99-PLUS INSECTICIDE, Oils, piperonyl butoxide, pyrethrins-I-Brilco
6731 PM 2, 4-D, Phenyl mercuric acetate 6.7%, 2,4,-D acid 4.4%-H-Cleary
PMA = PHENYLMERCURIC ACETATE
6732 PMACETATE, PMA, 98%, 95%, 90% — Germicides, fungicides, bactericides, mildewcides-F-Guard
6733 PMAS, Phenyl mercuric acetate 10%-H-F-Cleary
6734 PMB, Borate 100% (Paint fungicide)-F-Guard
6735 PMP DRY MEAL BAIT, Calcium 2-isovaleryl-1,3-indandione 0.055%-R-Donco
6736 PMP WATER SOLUBLE RAT & MOUSE KILLER, Sodium 2-isovaleryl-1, 3-inlandione 0.55%-R-Donco
6737 PMP WATER SOLUBLE RAT & MOUSE KILLER CONCENTRATE, Sodium 2-isovaleryl-1,3-indandione 0.28%-R-Donco
6737.50 P-NUT (DUST), DDT 5% maneb 4%-FI-Daly-Herring
6738 POISON IVY-OAK BOMB, Isooctyl ester 2,4,5-T 7.2%-H-Thomp. Chem.
6739 POLYBOR-CHLORATE, Disodium octaborate tetrahydrate 73%, sodium chlorate 25%-H-U. S. Borax
6740 POLYVINYLPYRROLIDONE (PVP) De-toxifier and suspending agent-D-General Aniline
6741 POULSEN RTR UNI-BLENDER FORMULATING EQUIPMENT-E-Poulsen
6742 POWDERED LOUSE KILLER, Rotenoids 1%, rotenone 0.5%-I-Hess & Clark
6742.20 PPG CHEMICALS CHLORO IPC GRANULAR 5%-H-Pittsburgh Plate Glass
6742.40 PPG CHEMICALS CHLORO IPC GRANULAR 20%-H-Pittsburgh Plate Glass
6742.60 PPG CHEMICALS CHLORO IPC LIQUID 4 lbs./gas.-H-Pittsburgh Plate Glass
6742.80 PPG CHEMICALS IPC WETTABLE POWDER 75%-H-Pittsburgh Plate Glass
6743 PRAMEX®, DDT 28.4%, N,N-di-*n*-butyl-*p*-chlorobenzenesulfonamide (Wisc. Alumni Foundation Antiresistant) 5.69%, oil 64.533%, pyrethrins 0.153%, sulfoxide 1.08%-I-Penick
6744 PRAMEX® EMULSIFIABLE CONCENTRATE, DDT 27.8%, N,N-di-*n*-butyl-*p*-chlorobenzenesulfonamide (Wisc. Alumni Foundation Antiresistant) 5.56%, methyl naphthalenes 57.29%, pyrethrins 0.15%, sulfoxide 1.07%-I-Penick
6745 PRATT LABORATORIES FLY BAIT, DDVP-IB-Martin
6746 PRATT LABORATORIES DRI-KIL, Malathion, methoxychlor, piperonyl butoxide, pyrethrins-I-Martin
6747 PRATT LABORATORIES HOG MANGE OIL, Lindane, oil-I-Martin
6748 PRATT LABORATORIES INSECT REPELLENT AND KILLER, Dibutyl succinate-IR-Martin
6749 PRATT'S A-5 WEED KILLER, Sodium arsenite 40%-H-Pratt
6750 PRATT'S A-6 WEED KILLER, Sodium arsenate 55%-H-Pratt
6751 PRATT'S AMA CRABGRASS KILLER, Dodecyl ammonium methyl arsonate 8%, octyl ammonium arsonate 8%-H-Pratt
6751.50 PRATT'S ANIMAL REPELLENT, Thiram 20%-ANR-Pratt
6751.75 PRATT'S ANT & ROACH BOMB, Dieldrin 0.5%, piperonyl butoxide 0.125%, pyrethrum 0.025%-IA-Pratt
6752 PRATT'S C-19 PYRENONE CONTACT SPRAY, Piperonyl butoxide 0.38%, pyrethrins 0.07%-I-Pratt
6752.50 PRATT'S CHICKWEED & CLOVER KILLER, Silvex 12.1%-H-Pratt
6752.75 PRATT'S C-V FACE FLY SPRAY, DDVP 0.24%, *alpha*-methylbenzyl 3-(dimethoxyphosphinyloxy) cis-crotonate 1%-I-Pratt
6753 PRATT'S 50W CHLORDANE-I-Pratt
6754 PRATT'S 72% CHLORDANE, Liquid chlordane 72%-I-Pratt
6755 PRATT'S 6% CHLORDANE DUST-I-Pratt
6756 PRATT'S 25% DDT, DDT 25%, oil 70%-I-Pratt
6757 PRATT'S 5% DDT BULB DUST-I-Pratt
6758 PRATT'S 18% DIELDRIN SPRAY, Tech, dieldrin 1.5 lb./gal.-I-Pratt
6759 PRATT'S D P INSECT SPRAY, Diazinon 0.5%, piperonyl butoxide 0.125%, pyrethrins 0.025%-I-Pratt
6760 PRATT'S DRY-WETTABLE 50% DDT-I-Pratt
6761 PRATT'S D-X AERO-SPRAY, Piperonyl cyclonene 0.256%, pyrethrins 0.025%, rotenone 0.128% rotenoids 0.23%-IA-Pratt
6762 PRATT'S D-X INSECT SPRAY, Oil 30.47%, pine oil 20% ,piperonyl butoxide 2%, pyrethrins 0.28%, rotenoids 1.5%, rotenone 0.75%, vegetable oil 40%-I-Pratt

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6762.50 PRATT'S EC 2 CIODRIN®, *Alpha* methylbenzyl 3 (dimethoxyphosphinyloxy) cis-crotonate-I-Pratt
6763 PRATT'S E C DIELDRIN TERMITE PROOFER, Dieldrin 18.6%-I-Pratt
6764 PRATT'S EC3 HEPTACHLOR, Heptachlor 32.4%, related compounds 12.6%-I-Pratt
6765 PRATT'S EMULSIFIABLE 25% DDT-I-Pratt
6766 PRATT'S E.C. 2 VAPONA® INSECT SPRAY, DDVP 22%-I-Pratt
6767 PRATT'S FLY BAIT, DDVP 0.5%, malathion 1%, IB-Pratt
6768 PRATT'S FLY SPRAY, Di-*n*-propyl isocinchomeronate 0.40%, N-octyl bicycloheptene dicarboximide 0.20%, oil 99.18%, piperonyl butoxide 0.12%, pyrethrins 0.10%-I-Pratt
6769 PRATT'S FOGGING SPRAY, Piperonyl butoxide 1%, pyrethrins 0.3%-I-Pratt
6770 PRATT'S FRUIT TREE SPRAY OR DUST, DDT 7.5%, lead arsenate 14.4%, sulfur 62%-FI-Pratt
6771 PRATT'S GENERAL PURPOSE SPRAY, 4,4'-Dichloro-alpha-trichloromethyl benzhydrol 1.5%, 1-naphthyl-N-methylcarbamate 12.5%, maneb 14.5%, sulfur 20%-FI-Pratt
6772 PRATT'S EC2 HEPTACHLOR, Heptachlor 22.3%, related compounds 8.7%, oil 66.0%-I-Pratt
6773 PRATT'S HOME & GARDEN INSECT SPRAY, DDT 5%, dieldrin 4%, lindane 5%, malathion 12.5%, 2,4-dichlorophenyl ester of benzenesulfonic acid 4%-I-Pratt
6773.50 PRATT'S HOUSE PLANT SPRAY BOMB, Pyrethrins 0.056%, rotenone 0.008%, rotenoids 0.016%-IA-Pratt
6774 PRATT'S LAWN INSECT SPRAY, O,O-Diethyl O (2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 18%, lindane 1.8%-I-Pratt
6775 PRATT'S LAWN & GARDEN FUNGICIDE, Captan 30%, 4,4'-dichloro-*alpha*-trichloromethyl-benzhydrol 3%-F-Pratt
6776 PRATT'S LAWN WEED KILLER, Ethyl hexyl ester of 2,4-D 10%, 2,4,5-T 5%-H-Pratt
6777 PRATT'S 10% LINDANE-I-Pratt
6778 PRATT'S 5% LINDANE SPRAY-I-Pratt
6779 PRATT'S 20% LINDANE SPRAY-I-Pratt
6780 PRATT'S LIQUID ROSE SPRAY, Dieldrin 4%, glyodin 12.5%, lindane 3%, 4,4'-dichloro-alpha-trichloromethylbenzhydrol 3%-FI-Pratt
6781 PRATT'S LIVESTOCK SPRAY, Piperonyl butoxide 0.19%, pyrethrins 0.07%-I-Pratt
6782 PRATT'S "M" INSECT SPRAY, Malathion 3.68%-I-Pratt
6783 PRATT'S MALATHION 60, Malathion 60% I-Pratt
ronnel 2%-I-Pratt
6784 PRATT'S MALATHION 90, Malathion 90%-I-Pratt
6785 PRATT'S 3% MALATHION INDUSTRIAL SPRAY, Malathion 3.6%, oil 81.4%-I-Pratt
6786 PRATT'S 50% MALATHION SPRAY, Malathion 50%, methylated oils 40%-I-Pratt
6787 PRATT'S 57% MALATHION SPRAY, Malathion 57%, solvent 35%-I-Pratt
6788 PRATT'S MILL SPRAY, Lindane 0.5%, methoxychlor 3%-I-Pratt
6789 PRATT'S ML FOG SPRAY CONCENTRATE, Malathion 44.7%, oil 35.5%, organic thiocyanates 19.8%-I-Pratt
6790 PRATT'S NEMAGON® (for nematodes), 1,2-Dibromo-3-chloropropane 69.2%-IF-Pratt
6791 PRATT'S NICOTINE SPRAY, Nicotine 20%, oil 5%, pine oil 25%, vegetable oil 45%-I-Pratt
6792 PRATT'S PARA-SCALECIDE, Naphthalene resin soap 6.7%, paradichlorobenzene 12.6%, sulfonated vegetable oil 5.6%-I-Pratt
6793 PRATT'S PDM INDUSTRIAL SPRAY, Dieldrin 0.5%, malathion 1%, piperonyl butoxide 0.5%, pyrethrins 0.05%-I-Pratt
6794 PRATT'S PYRENONE® DAIRY SPRAY, Oil 72%, piperonyl butoxide 11.82%, pyrethrins 1.18%-I-Pratt
6795 PRATT'S PYRENONE FOGGING SPRAY, Oil 99.15%, piperonyl butoxide 0.75%, pyrethrins 0.1%-I-Pratt
6796 PRATT'S ROACH SPRAY, DDVP 0.5%, dieldrin 0.5%, oil 98.85%, piperonyl butoxide 0.125%, pyrethrins 0.025%-I-Pratt
6797 PRATT'S ROSE DUST OR SPRAY, Basic copper sulfate, 3.4%, piperonyl cyclonene 0.375%, pyrethrins 0.03%, rotenone 0.5%, rotenoids 0.75%, sulfur 30%-FI-Pratt
6798 PRATT'S ROSE & FLORAL SPRAY BOMB, Captan 0.5%, piperonyl butoxide 0.256%, pyrethrins 0.025%, rotenone 0.128%, rotenoids 0.236%, 2,4-dinitro-6-(2-octyl) phenyl crotonate 0.2%-IA-Pratt
6799 PRATT'S 1% ROTENONE DUST, Rotenone 1%, rotenoids 2.8%-I-Pratt
6800 PRATT'S R P INSECT SPRAY, Piperonyl butoxide 0.125%, pyrethrins 0.025%, ronnel 2%-I-Pratt
6801 PRATT'S S-30, DDT 30%, oil 70%-I-Pratt
6802 PRATT'S SCALECIDE, Oil 96%-I-Pratt
6803 PRATT'S SELECTIVE WEED KILLER, 2,4-D 21.8%, 2,4,5-T 11.7%-H-Pratt

6804 PRATT'S 50% SEVIN® WETTABLE POWDER, 1-Naphthyl-N-methylcarbamate-I-Pratt
6805 PRATT'S 101 SHADE TREE SPRAY, DDT 22.7%, malathion 21.6%, 2,4-dichlorophenyl ester of benzenesulfonic acid 3%-I-Pratt
6806 PRATT'S 202 SHADE TREE SPRAY, Lindane 9.6%, malathion 29%, 2,4-dichlorophenyl ester of benzenesulfonic acid 6%-I-Pratt
6807 PRATT'S 303 SHADE TREE SPRAY, DDT 25%, malathion 2.69%, 2-4-dichlorophenyl ester of benzenesulfonic acid 1.6%-I-Pratt
6808 PRATT'S 404 SHADE TREE SPRAY, DDT 25%, malathion 3.8%, 2,4dichlorophenyl ester of benzenesulfonic acid 1.6%-I-Pratt
6809 PRATT'S 505K SHADE TREE SPRAY, Methoxychlor 24%, malathion 13%, 4,4'-dichloro-*alpha* trichloromethylbenzhydrol 3.46%-I-Pratt
6810 PRATT'S SPRAY CATALIZER, Dried milk 23%, manganese sulfate 9%, sulfur 61%-A-Pratt
6811 PRATT'S SPRAY FOR EVERGREENS, DDT 5.0%, lindane 5.0%, malathion 12.5%, 2,4-dichlorophenyl ester of benzenesulfonic acid 3%-I-Pratt
6812 PRATT'S SUMMER SPRA-OIL, Oil 97%-I-Pratt
6813 PRATT'S SUPERIOR OIL, Oil 98%-I-Pratt
6814 PRATT'S 7N SUPERIOR OIL, Oil 98%-I-Pratt
6815 PRATT'S SURFISPRAY, DDT 5%, oil 95%, piperonyl butoxide 0.32%, pyrethrins 0.04%-I-Pratt
6816 PRATT'S 2,4,5-T CLOVER KILLER, 2,4,5-T 64.9%-H-Pratt
6817 PRATT'S TOMATO & VEGETABLE DUST OR SPRAY, Copper sulfate (copper 7%), rotenone 0.75%, rotenoids 1.5%-FI-Pratt
6817.50 PRATT'S VAPONA® BARN & CATTLE SPRAY, DDVP 0.92%, Related compounds 0.08%-I-Pratt
6818 PRATT'S VAPONA® FOGGING SPRAY, DDVP 1% (oil base)-I-Pratt
6818.50 PRATT'S 4S VAPONA® GREENHOUSE CONCENTRATE, DDVP 40.7%, Related compounds 3.1%-I-Pratt
6819 PRATT'S VAPONA® INSECT SPRAY, DDVP, 0.5% (oil base)-I-Pratt
6820 PRATT'S VAPONA® INSECT SPRAY E.C. 4, DDVP 40.5%-I-Pratt
6821 PRATT'S WASP BOMB, DDVP 0.46%, dieldrin 0.5%, piperonyl butoxide 0.125%, pyrethrins 0.05%-IA-Pratt
6822 PRATT'S WEED KILLER, Sodium arsenite 35%-H-Pratt
6823 PRATT'S WETTABLE SULFUR DUST OR SPRAY, Sulfur 98.5%-FI-Pratt
6824 PREMERGE ®, Alkanolamine salts (of the ethanol and isopropanol series) of dinitro-o-sec-butylphenyl 51%-H-Dow
6825 PRENTOX AEROSOL FORMULATIONS, Allethrins, pyrethrum-IA-Prentiss
6826 PRENTOX ALDRIN 2 LB. EMULSIFIABLE CONC.-I-Prentiss
6827 PRENTOX ALDRIN 4 LB. EMULSIFIABLE CONC.-I-Prentiss
6828 PRENTOX ANTU POWDER, Antu 97.5%-R-Prentiss
6829 PRENTOX ATRAZINE—WETTABLE POWDER & GRANULAR-H-Prentiss
6830 PRENTOX BUTONATE 25% EMULSIFIABLE CONC.-I-Prentiss
6831 PRENTOX BUTONATE 20% OIL SOLUTION-I-Prentiss
6832 PRENTOX BUTONATE TECHNICAL-IC-Prentiss
6833 PRENTOX CHLORDANE CONC., Chlordane 20%, odorless oil 80%-IC-Prentiss
6834 PRENTOX CHLORDANE 40% DUST & WETTABLE POWDER-I-Prentiss
6835 PRENTOX CHLORDANE 50% DUST & WETTABLE POWDER-I-Prentiss
6836 PRENTOX CHLORDANE GRANULARS-I-Prentiss
6837 PRENTOX CHLORDANE TECH. AGRICULTURAL GRADE, Chlordane 100%-IC-Prentiss
6838 PRENTOX CHLORDANE TECH. CLARIFIED, Chlordane 100%-IC-Prentiss
6839 PRENTOX CHLORDANE 46% WATER MISCIBLE CONC., Chlordane 4 lbs./gal.-I-Prentiss
6840 PRENTOX CHLORDANE 62% WATER MISCIBLE CONC., Chlordane 6.3 lbs./gal.-I-Prentiss
6841 PRENTOX CHLORDANE 72% WATER MISCIBLE CONC., Chlordane 8 lbs./gal.-I-Prentiss
6842 PRENTOX CHLOROBENZILATE—25% EMULSIFIABLE CONCENTRATE-I-Prentiss
6843 PRENTOX CHLOROBENZILATE—25% WETTABLE POWDER-I-Prentiss
6844 PRENTOX CIODRIN® 3.2# EMULSIFIABLE CONCENTRATE, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy) *cis*-crotonate-I-Prentiss
6845 PRENTOX CUBE POWDER, Rotenone 4 to 7%-I-Prentiss
6846 PRENTOX CUBE RESINS, Rotenone 30-40%-IC-Prentiss
6847 PRENTOX CUBE 5% WETTABLE POWDER, Rotenone 5%-I-Prentiss
6848 PRENTOX CYGON®—DIMETHOATE 4E-I-Prentiss

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6849 PRENTOX 50% DDT DUST CONCENTRATE-C-Prentiss
6850 PRENTOX 75% DDT DUST CONCENTRATE-C-Prentiss
6851 PRENTOX 30% DDT OIL SOLUBLE CONC. DDT 30%, methyl naphthalenes 70%-I-Prentiss
6852 PRENTOX DDT TECH. GRADE-IC-Prentiss
6853 PRENTOX 50% DDT TRACKING POWDER-R-Prentiss
6854 PRENTOX 25% DDT WATER MISCIBLE-I-Prentiss
6855 PRENTOX 50% DDT WETTABLE POWDER-I-Prentiss
6856 PRENTOX 75% DDT WETTABLE POWDER-I-Prentiss
6857 PRENTOX 50% DDVP EMULSIFIABLE CONCENTRATE-I-Prentiss
6858 PRENTOX DDVP TECHNICAL-IC-Prentiss
6859 PRENTOX DIAZINON—DUSTS & GRANULES WETTABLE POWDER-I-Prentiss
6860 PRENTOX DIAZINON 4 lb. E. C. EMULSIFIABLE CONCENTRATE-I-Prentiss
6862 PRENTOX 1.5 LB. DIELDRIN EMULSIFIABLE CONC., Dieldrin 14.96%, related compds. 2.64%-I-Prentiss
6863 PRENTOX DIELDRIN GRANULARS-I-Prentiss
6863.50 PRENTOX DIAZINON 4 lb. O. S. OIL SOLUBLE CONCENTRATE-I-Prentiss
6864 PRENTOX 50% DIELDRIN WETTABLE POWDER-I-Prentiss
6865 PRENTOX 1.6 LB. ENDRIN EMULSIFIABLE CONC.-I-Prentiss
6866 PRETOX ENTEX 4 LB. EMULSIFIABLE CONCENTRATE, O,O-Dimethyl O-[4-(methylthio)-*m*-tolyl] phosphorothioate-I-Prentiss
6867 PRENTOX ENTEX® 4 LB. OIL SOLUBLE CONCENTRATE, O,O-Dimethyl[4-(methylthio)-*m*-tolyl] phosphorothioate-I-Prentiss
6868 PRENTOX HEPTACHLOR 25% DUST & WETTABLE POWDER-I-Prentiss
6869 PRENTOX HEPTACHLOR 2 LB. EMULSIFIABLE CONC.-I-Prentiss
6870 PRENTOX HEPTACHLOR 3 LB. EMULSIFIABLE CONC.-I-Prentiss
6871 PRENTOX HEPTACHLOR GRANULARS-I-Prentiss
6872 PRENTOX KEPONE®—GRANULAR & PASTE-H-Prentiss
6873 PRENTOX LINDANE 25% DRY & WETTABLE POWDER-I-Prentiss
6874 PRENTOX LINDANE 10% OIL CONC. & WATER MISCIBLE CONC.-I-Prentiss
6875 PRENTOX LINDANE 95% POWDER-IC-Prentiss
6876 PRENTOX LINDANE TECH. (99%)-IC-Prentiss
6877 PRENTOX LINDANE 20% WATER MISCIBLE CONC.-I-Prentiss
6878 PRENTOX MALATHION 90, 90% malathion-IC-Prentiss
6879 PRENTOX MALATHION 5 LB. EMULSIFIABLE CONCENTRATE, 57% Malathion (PREMIUM GRADE)-I-Prentiss
6880 PRENTOX MALATHION 5 LB. EMULSIFIABLE CONCENTRATE, 57% Malathion (REGULAR)-I-Prentiss
6881 PRENTOX 50% MALATHION EMULSIFIABLE (PREMIUM GRADE)-I-Prentiss
6882 PRENTOX 50% MALATHION EMULSIFIABLE (REGULAR)-I-Prentiss
6883 PRENTOX 50% MALATHION OIL CONC.-I-Prentiss
6884 PRENTOX MALATHION 90 REFINED, 90% Refined malathion-IC-Prentiss
6885 PRENTOX 25% MALATHION WETTABLE POWDER-I-Prentiss
6886 PRENTOX PROLIN® CONCENTRATE, 0.5% Sulfaquinoxaline and 0.5% warfarin-R-Prentiss
6887 PRENTOX PYBUTON #16, Butonate 16%, piperonyl butoxide, pyrethrins-I-Prentiss
6888 PRENTOX PYBUTREX CONCENTRATE #20, Di-*n*-butyl-succinate 10%, piperonyl butoxide 5%, pyrethrins 0.5%-IC-Prentiss
6889 PRENTOX PYBUTREX CONCENTRATE #100, Di-*n*-butyl succinate 50%, piperonyl butoxide 25%, pyrethrins 2.50%-IC-Prentiss
6890 PRENTOX PYRETHRUM CONC. NO. 10, Pyrethrins 1.25% (1 gram/100 c/c)-IC-Prentiss
6891 PRENTOX PYRETHRUM CONC. NO. 20, Pyrethrins 2.5% (2 grams/100 c/c)-IC-Prentiss
6892 PRENTOX PYRETHRUM CONC. NO. 100, Pyrethrins 11.8%-I-Prentiss
6893 PRENTOX PYRETHRUM EXTRACT 20%-IC-Prentiss
6894 PRENTOX PYRETHRUM POWDERS, Pyrethrins 0.5% and 0.9%-I-Prentiss
6895 PRENTOX PYRETHRUM SODIUM FLUORIDE POWDER, Pyrethrins 0.35%, sodium fluoride 38.8%-I-Prentiss
6896 PRENTOX PYRONYL NO. 20 CONC., Piperonyl butoxide 20%, pyrethrins 0.62%-IC-Prentiss
6897 PRENTOX PYRONYL 20-5 CONC., Piperonyl butoxide 20%, pyrethrins 5%-IC-Prentiss
6898 PRENTOX PYRONYL 20-8 CONC., Piperonyl butoxide 20%, pyrethrine 8%-IC-Prentiss
6899 PRENTOX PYRONYL 30-6 CONC., Piperonyl butoxide 30%, pyrethrins 6%-IC-Prentiss

Prentox

PEST-TESTED BASIC INSECTICIDE CONCENTRATES

- **CHLORDANE**
  Oil and Emulsifiable Concentrates
  Wettable and Dry Powders — Granules
- **DDT**
  Oil and Emulsifiable Concentrates
  Wettable and Dry Powders
- **LINDANE**
  Oil and Emulsifiable Concentrates
  Wettable Powders and Dusts
- **ALDRIN AND DIELDRIN**
  Emulsifiable Concentrates
  Wettable Powders — Granules
- **MALATHION** *(Regular & Refined Grades)*
  Oil and Emulsifiable Concentrates
  Wettable Powders
- **SABADILLA**
  Ground Seed
  Dust Concentrates
- **ENTEX**
  Oil and Emulsifiable Concentrates
- **CHLOROBENZILATE**
  Emulsifiable and Wettable Powder
- **ATRAZINE AND SIMAZINE**
  Industrial and Agricultural
  Granular and Wettable Powders
- **KEPONE**
  Pellets and Paste
- **HEPTACHLOR**
  Emulsifiable Concentrates
  Wettable Powders — Granules
- **PYRONYL CONCENTRATES**
  Pyrethrum-Piperonyl, Butoxide Concentrates
- **PYRETHRUM**
  Powder and Liquid Concentrates
- **PROLIN**
  A new, improved warfarin rodenticide
- **ROTENONE**
  Powdered Concentrates and Resins
  Oil and Emulsifiable Concentrates
- **DIAZINON**
  Oil and Emulsifiable Concentrates and Granules
  Wettable powder and dust concentrates
- **DDVP**
  Technical, Oil and Emulsifiable Concentrates
- **TABATREX**
  Oil and Emulsifiable Concentrates
- **BUTONATE**
  Oil and Emulsifiable Concentrates
- **CYGON**
  Emulsifiable Concentrate
- **CIODRIN**
  Oil and Emulsifiable Concentrates

Aerosol Concentrates

Prentiss Drug & Chemical Co., Inc.
101 WEST 31st STREET, NEW YORK 1, N. Y. • 9 SO. CLINTON STREET, CHICAGO, ILL.
Atlanta • Detroit • San Francisco • Los Angeles • Toronto • Montreal • Fort Worth

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6900 PRENTOX PYRONYL 40-5 CONC., Piperonyl butoxide 40%, pyrethrins 5%-IC-Prentiss
6901 PRENTOX PYRONYL NO. 100 CONC., Piperonyl butoxide 23.65%, pyrethrins 2.95%-IC-Prentiss
6902 PRENTOX PYRONYL DUST CONC., Piperonyl butoxide 6%, pyrethrins 0.6%-IC-Prentiss
6903 PRENTOX PYRONYL EMUL. NO. 101, Piperonyl butoxide 12%, pyrethrins 1.20%-I-Prentiss
6904 PRENTOX PYRONYL KNOCKDOWN CONC., Piperonyl butoxide 3.85%, pyrethrins 1.5%-IC-Prentiss
6905 PRENTOX PYRONYL 50-5 OIL CONC., Piperonyl butoxide 53.19%, pyrethrins 5.31%-IC-Prentiss
6906 PRENTOX PYRONYL 66-6 OIL CONC., Piperonyl butoxide 66.66%, pyrethrins 6.66%-IC-Prentiss
6907 PRENTOX PYRONYL ROACH SPRAY CONC., Piperonyl butoxide 7.5%, pyrethrins 1.5%-IC-Prentiss
6908 PRENTOX PYRONYL UNIVERSAL CONC. Piperonyl butoxide 5.05%, pyrethrins 1.25%-IC-Prentiss
6909 PRENTOX PYRONYL 20-2 WETTABLE POWDER, 20% piperonyl butoxide, 2% pyrethrins-IC-Prentiss
6910 PRENTOX ROACH POWDER, Chlordane 1%, pyrethrins 0.4%-I-Prentiss
6911 PRENTOX ROTENONE 5% EMULSIFIABLE CONC., Rotenone 5%, rotenoids 6.12%-I-Prentiss
6912 PRENTOX ROTENONE 5% OIL CONC., Rotenone 5%, rotenoids 6.12%-I-Prentiss
6913 PRENTOX SABADILLA DUST CONC. 50%, Alkaloid of sabadilla 2%-CI-Prentiss
6914 PRENTOX SIMAZINE WETTABLE POWDER & GRANULAR-H-Prentiss
6915 PRENTOX TABATREX® TECHNICAL, 100% Di-n-butyl succinate-IR-Prentiss
6916 PRENTOX TOXAPHENE 40% DUST & WETTABLE POWDER-I-Prentiss
6917 PRENTOX TOXAPHENE 60% WATER MISCIBLE CONC., (6 Lbs. toxaphene/gal.)-I-Prentiss
6918 PRENTOX WARFARIN CONC. RAX POWDER, Warfarin 0.5%-R-Prentiss
6919 PRES-STOK STOCK SPRAY, Allethrin 0.1%, Polyoxypolypropylene glycol 10%, methoxychlor 1.5%, MGK 264 1%, organic thiocyanates 1.64%-I-Howard
6921 PRIME PROFESSIONAL INSECTICIDE, 0.5% Pyrethrins, N-octyl sulfoxide of isosafrole 1.1%, oil 11.25%-IA-Penick
6922 PROFUME®, Chloropicrin 2%, methyl bromide 98%-IF-Dow
6923 PROLIN®, Warfarin, 3 (a-acetonylbenzyl)-4-hydroxycoumarin N[2-quinoxalinylsulfanilamide (sulfaquinoxaline)-R-Wisc Alumni Res Foundation
6924 PROLIN® CONCENTRATE, (Sulfaquinoxaline, 0.5%, warfarin 0.5%-R-Fairfield
6924.50 PROLIN® CONCENTRATE, 0.5% Sulfaquinoxaline and 0.5% warfarin-R-Penick
6925 PRO-NOXFISH FISH TOXICANT, Rotenoids 5% rotenone 2.5%, sulfoxide 2.2%-FT-Penick
6926 PROPARGYL ALCOHOL, Corrosion inhibitor for chlorinated insecticides and for chlorinated wood preservatives-D-General Aniline
N-PROPYL ISOME = DIPROPYL-3-METHYL-6,7-METHYLENEDIOXY-1,2,3,4-TETRAHYDRONAPHTHALENE 1,2-DICARBOXYLATE
6926.50 PROPARGYL BROMIDE, Soil fumigant-IF-General Aniline
6926.75 PROPI-RHAP® LOW VOLATILE 4DP, 2-(2,4-Dichlorophenoxy) propionic acid, 4 lbs. acid equiv. per gal., 2-ethyl hexyl, low volatile ester-H-Hercules
6927 PROREX 37, Paraffinic base oil-I-Socony-Mobil
6928 PROREX 39, Paraffinic base oil-I-Socony-Mobil
6929 PROTECTION PENTACHLOROPHENOL WOOD PRESERVATIVE 10-I, Pentachlorophenol 33.2%, other chlorophenols 6.8% WP-Prot. Prods.
6930 PROTECTION PENTACHLOROPHENOL WOOD PRESERVATIVE RTU, Pentachlorophenol 41.1%, other chlorophenols 0.9% WP-Prot. Prods.
6931 PROTECTO ALDRIN-I-Agr. Chem. Serv.
6932 PROTECTO BRAND 25% ALDRIN BASE-IC-Agr. Chem. Serv.
6933 PROTECTO BRAND ALDRIN — DDT DUST-I-Agr. Chem. Serv.
6934 PROTECTO BRAND 10% ALDRIN GRANULES I-Agr. Chem. Serv.
6935 PROTECTO BRAND 12% BHC WETTABLE-I-Agr. Chem. Serv.
6936 PROTECTO BRAND 10% CHLORDANE-I-Agr. Chem. Serv.
6937 PROTECTO BRAND 5% CHLORDANE GRANULES-I-Agr. Chem. Serv.
6938 PROTECTO BRAND 10% CHLORDANE GRANULES-I-Agr. Chem. Serv.
6939 PROTECTO BRAND 40% CHLORDANE WETTABLE-I-Agr. Chem. Serv.
6940 PROTECTO BRAND 50% DDT DUST BASE-IC-Agr. Chem. Serv.
6941 PROTECTO 25% DDT EMUL. CONC.-I-Agr Chem. Serv.
6942 PROTECTO BRAND 5% DDT-SULPHUR-FI-Agr. Chem. Serv.
6943 PROTECTO BRAND 5% DDT-TALC-I-Agr. Chem. Serv.

6944 PROTECTO BRAND 10% DDT-TALC-I-Agr. Chem. Serv.
6945 PROTECTO BRAND 50% DDT WETTABLE-I-Agr. Chem. Serv.
6946 PROTECTO BRAND 25% DIELDRIN-I-Agr. Chem. Serv.
6947 PROTECTO BRAND 1-1/2 LB. DIELDRIN-I-Agr. Chem. Serv.
6948 PROTECTO BRAND 10% DIELDRIN GRANULES-I-Agr. Chem. Serv.
6949 PROTECTO ENDRIN DUST 2%-I-Agr. Chem. Serv.
6950 PROTECTO ENDRIN 1.6 LB. EMUL.-I-Agr. Chem. Serv.
6951 PROTECTO BRAND GENERAL PURPOSE GARDEN DUST, Rotenone 1%, rotenoids 2%, zineb 5%-FI-Agr. Chem. Serv.
6952 PROTECTO BRAND 25% HEPTACHLOR CONC.-I-Agr. Chem. Serv.
6953 PROTECTO BRAND 5% HEPTACHLOR GRANULES-I-Agr. Chem. Serv.
6954 PROTECTO BRAND 10% HEPTACHLOR GRANULES-I-Agr. Chem. Serv.
6955 PROTECTO BRAND 3/4 ROTENONE-SULPHUR (OR TALC)-FI-Agr. Chem. Serv.
6956 PROTECTO BRAND 1% ROTENONE-SULPHUR (OR TALC),-FI-Agr. Chem. Serv.
6957 PROTECTO BRAND 20% SABADILLA-I-Agr. Chem. Serv.
6958 PROTECTO BRAND TEN-NINETY, Tribasic copper 3.4%, sulfur 85%-FI-Agr. Chem. Serv.
6959 PROTECTO BRAND TEN-NINETY 2½ DDT, DDT 2.5%, sulfur 85%, tribasic copper 3.4%-I-Agr. Chem. Serv.
6960 PROTECTO BRAND THREE-FIVE-FORTY, BHC 3%, DDT 5%, sulfur 40%-FI-Agr. Chem. Serv.
6961 PROTECTO BRAND THREE-FIVE-ZERO, BHC 3%, DDT 5%-I-Agr. Chem. Serv.
6962 PROTECTO BRAND THREE-TEN-FORTY, BHC 3%, DDT 10%, sulfur 40%-FI-Agr. Chem. Serv.
6963 PROTECTO BRAND THREE-TEN-ZERO, BHC 3%, DDT 10%-I-Agr. Chem. Serv.
6964 PROTECTO 6-LB. TOXAPHENE-I-Agr. Chem. Serv.
6965 PROTECTO BRAND 4# TOXAPHENE —2# EMULSION-I-Agr. Chem. Serv.
6966 PROTECTO BRAND TWENTY-FORTY, Sulfur 40%, toxaphene 20%-FI-Agr. Chem. Serv.
6967 PROTECTO BRAND TWENTY-ZERO, Toxaphene 20%-I-Agr. Chem. Serv.
6968 PROTECTO BRAND WETTABLE SULPHUR (93%-S)-FI-Agr. Chem. Serv.
6969 PROTECTO BRAND ZINEB-DDD TOMATO DUST-FI-Agr. Chem. Serv.
6969.50 PROTECTURF LAWN FUNGICIDE, Cadmium 2.50%, captan 15%, PCNB 24%, thiram 20%-F-Kilgore
6970 PROTEX PLUS, Pyrethrins, rotenone-I-Chem. Ins.
6971 PROTOX 7215, Nonionic-Anionic blend of emulsifiers-A-Emery
6972 PROTOX 7226, Nonionic-Anionic blend of emulsifiers-A-Emery
6973 PROTOX 7227, Nonionic-Anionic blend of emulsifiers-A-Emery
6974 PROTOX 7228, Nonionic-Anionic blend of emulsifiers-A-Emery
6975 PROTOX 7230, Nonionic-Anionic blend of emulsifiers-A-Emery
6976 PROTOX 7245, Nonionic-Anionic blend of emulsifiers-A-Emery
6977 PROTOX 7300-7400, Nonionic-Anionic blend of emulsifiers-A-Emery
6978 PROTOX 7704, Nonionic blend spray adjuvant-A-Emery
6979 PROTOX 7713, Nonionic blend spray adjuvant-A-Emery
6980 PROTOX 7719, Nonionic spray oil emulsifier-A-Emery
6981 PROTOX 7732-B, Nonionic blend spray adjuvant-A-Emery
6982 PROTOX 7750, Nonionic weed oil emulsifier-A-Emery
6991 PULGITE® RVM GRADE ATTAPULGITE (Pesticide carrier)-D-Magnet Cove
6992 PUMOSAN C 241 AGRICULTURAL RESPIRATOR-E-Pulmosan
6993 PURADRIN, Aldrin 40% phenyl amino cadmium dilactate 3%, phenyl mercury formamide 3%-FI-Gallowhur
6993.50 PURASAN PMA, Phenyl mercuric acetate 59.5% (Paint fungicide)-F-Guard
6994 PURASEED, Mercury compound and cadmium dilactate-F-ST-Guard
6995 PURASEED, Phenyl amino cadmium dilactate 6.25%, phenyl mercury formamide 6.25%-F-Gallowhur
6996 PURATIZED AGRICULTURAL SPRAY, Phenyl mercury triethanol ammonium lactate 7.5%-F-Gallowhur
6996.50 PURATIZED APPLE SPRAY, Phenyl mercury monoethanol ammonium acetate 11.5%-F-Gallowhur
6997 PURATOL 30, Phenyl mercuric 10.77% (Paint fungicide)-F-Guard
6998 PURATURF 10, Phenyl mercuric monoethanol ammonium lactate 12.8% (for turf)-F-Guard
6999 PURATURF NO. 10, Phenyl mercury acetate 10%-F-Gallowhur
7000 PURATURF 177, Phenyl amino cadmium dilactate 20% (for turf)-F-Guard
7001 PUR-GRASS, Phenyl mercury monethanol ammonium acetate 12.8%-F-Gallowhur
7002 PURINA BACK SCRATCH CONCENTRATE, 28.5% malathion 0.71% rotenone-I-Ralston Purina

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7003 PURINA BAYTEX® SPRAY CONCENTRATE, 46% Dimethyl methylthio-*m*-tolyl phosphorothioate-I-Ralston Purina
7004 PURINA BUILDING SPRAY POWDER, 50% DDT, 10% N,N-di-*n*-butyl-*p*-chlorobenzene sulfonamide-I-Ralston Purina
7005 PURINA CO-RAL®, O,O-Diethyl O-3-chloro-4-methyl-1-oxo-2H-1benzopyran-7yl phosphoro-thioate 25% -I-Ralston Purina
7006 PURINA CO-RAL® LIVESTOCK DUST, O,O-Diethyl O-3-chloro-4-methyl-1-oxo-2H-1-benzopyran-7yl phosphorothioate 0.5%-I-Ralston Purina
7007 PURINA DAIRY CATTLE DUST, 5% Butoxypolypropylene glycol, 10% methoxychlor, 1% MGK repellent 326-I-IR-Ralston Purina
7008 PURINA DAIRY OILER INSECTICIDE CONCENTRATE, 15% Butoxy polypropylene glycol, 1% hexahydro dibenzofuran carboxaldehyde, 1% piperonyl butoxide, 0.5% pyrethrins-I-Ralston Purina
7009 PURINA DAIRY SPRAY, 0.03% Pyrethrins 0.2% piperonyl butoxide, organic thiocyanates 1%, 0.20% MGK repellent 11-I-IR-Ralston Purina
7010 PURINA DDT INSECTICIDE, 75% DDT-I-Ralston Purina
7011 PURINA DIAZINON® SPRAY, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl), phosphorothioate 25%-I-Ralston Purina
7012 PURINA DOG POWDER, Carbaryl 5%, piperonyl butoxide 1%, pyrethrins 0.1%-I-Ralston Purina
7013 PURINA FACE AND HORSE FLY BOMB, 1.2% Di-*n*-propyl isocinchomeronate, 0.36% piperonyl butoxide, 0.18% pyrethrins-IA-Ralston Purina
7014 PURINA FACE AND HORSEFLY INSECTICIDE, Di-*n*-propyl isocinchomeronate 0.40%, piperonyl butoxide 0.12%, pyrethrine 0.06%-I-Ralston Purina
7015 PURINA FLY BAIT, DDVP 0.25%, trichlorofon 0.25%-IB-Ralston Purina
7016 PURINA FLY BAIT DRY KILLER, DDVP 0.25%, trichlorofon 0.25%-IB-Ralston Purina
7017 PURINA FLY CHECKER, 0.3% DDVP, 1% trichlorofon-IB-Ralston Purina
7018 PURINA HOG & CATTLE DUSTING POWDER 1% Lindane, 10% sulfur-I-Ralston Purina
7019 PURINA HOME AERO-SPRAY, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 1.9%, 0.8% piperonyl butoxide, 0.2% pyrethrins-IA-Ralston Purina
7020 PURINA HOME SPRAY, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 0.95%, 0.16% octyl sulfoxide of isosafrole, 0.03% pyrethrins I-Ralston Purine
7021 PURINA HORSE & LIVESTOCK SPRAY CONCENTRATE, 50% Butoxypolypropylene glycol, 5% methoxychlor-I-IR-Ralston Purina
7022 PURINA INSECT KILLER, 0.5% Lindane, 2.5% methoxychlor, 10% sulfur-I-Ralston Purina
7023 PURINA INSECTICIDE MIST, 5% Butoxypolypropylene glycol, 1% piperonyl butoxide, 0.1% pyrethrins-I-IR-Ralston Purina
7024 PURINA LICE & GRUB KILLER, 1.67% Rotenone, 50% sulfur-I-Ralston Purina
7025 PURINA LICE POWDER (For poultry), 5% carbaryl-I-Ralston Purina
7026 PURINA LIN-DANE INSECTICIDE, 25% Lindane wettable powder-I-Ralston Purina
7027 PURINA LIQUID STOCK SPRAY, 2.7% Lindane, 15% toxaphene-I-Ralston Purina
7028 PURINA MALATHION DUST, 4% Malathion, 10% sulfur-I-Ralston Purina
7029 PURINA MALATHION GRAIN SPRAY, 57% Premium grade malathion-I-Ralston Purina
7030 PURINA MALATHION SPRAY (Premium grade), 50% Premium grade malathion-I-Ralston Purina
7031 PURINA MALATHION SPRAY (Regular), 57% Malathion-I-Ralston Purina
7032 PURINA MANGE CONTROL, 6.5% Lindane-I-Ralston Purina
7033 PURINA POULTRY DUSTING POWDER, 5% 1-Naphthyl-N-methylcarbamate, 10% sulfur-FI-Ralston Purina
7034 PURINA POULTRY INSECTICIDE, 4% Malathion-I-Ralston Purina
7035 PURINA RANGE CATTLE SPRAY, 0.45%, 15% toxaphene-I-Ralston Purina
7036 PURINA RAT-KILL, 0.025% Pindone-R-Ralston Purina
7037 PURINA RAT-KILL, WATER SOLUBLE, 0.14% Pindone-R-Ralston Purina
7038 PURINA ROACH BOMB, O,O-Diethyl-O-(2-isopropyl-4-methyl-6-pyrimidyl), phosphorothioate 0.5%, 0.10% piperonyl butoxide, 0.05% pyrethrins-IA-Ralston Purina
7039 PURINA SPRAY AND DIP, 25% Ronnel-I-Ralston Purina
7040 PURINA WOUND PROTECTOR, 6% Butoxypolypropylene glycol, 6% chloroform, 6% pine oil, 2.5% ronnel-IR-Ralston Purina
7041 PURO DELUXE INSECTICIDE WITH DIAZINON®, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl phosphorothioate-I-Puro
7042 PURO INSECT POWDER, Sodium fluoride-I-Puro
7043 PURO NAPHTHALENE-IF-Puro

7044 PURO PARADICHLOROBENZENE-IF-Puro
7045 PUSH-BUTTON REAL-KILL BUG KILLER, DDVP 0.5%, Dieldrin 0.5%-IA-Cook Chem.
7046 PVP-IODINE, Nematocide, soil sterilization-I-General Aniline
7047 PYRACENE, Piperonyl butoxide 1.01%, pyrethrins .25%-I-Wipp
7048 PYRAID INSECTICIDE DAIRY, CATTLE AND BARN SPRAY, Piperonyl butoxide, pyrethrins-I-Feller Chem.
7049 PYRAX® ABB, Pyrophyllite-D-Vanderbilt
7050 PYRAX GRANULES, Pyrophyllite-D-Vanderbilt
7051 PYREFUME SUPER 20, Pyrethrins 2.5%-IC-Penick
7052 PYRENONE® AEROSOL CONC. 20-5, Piperonyl butoxide 20%, pyrethrins 5%-IC Fairfield
7053 PYRENONE® AEROSOL CONC. 20-8, Piperonyl butoxide 20%, pyrethrins 8%-IC Fairfield
7054 PYRENONE® AEROSOL CONC. 30-6, Piperonyl butoxide 30%, pyrethrins 6%-IC-Fairfield
7055 PYRENONE® AEROSOL CONC. 30-8, Piperonyl butoxide 30%, pyrethrins 8%-IC-Fairfield
7056 PYRENONE® AEROSOL CONC. 40-5, Piperonyl butoxide 40%, pyrethrins 5%-IC-Fairfield
7057 PYRENONE® COATING POWDER, Piperonyl butoxide 16.6%, pyrethrins 1.67%-IC-Fairfield
7058 PYRENONE® DUST BASE NO. 100, Piperonyl butoxide 2.5%, pyrethrins 0.2%-IC-Fairfield
7059 PYRENONE® DUST BASE NO. 160, Piperonyl butoxide 2.5%, pyrethrins 0.4%-IC Fairfield
7060 PYRENONE® DUST BASE NO. 200, Piperonyl butoxide 5%, pyrethrins 0.4%-IC-Fairfield
7061 PYRENONE® DUST BASE PB 1320, Piperonyl butoxide 5%, pyrethrins 0.3%-IC-Fairfield
7062 PYRENONE® DUST BASE PB 1327, Piperonyl butoxide 9%, pyrethrins 0.6%-IC-Fairfield
7063 PYRENONE® EMUL. CONC. 40-4, Piperonyl butoxide 42.55%, pyrethrins 4.25%-IC-Fairfield
7064 PYRENONE® GRAIN PROTECTANT, Piperonyl butoxide 1%, pyrethrins 0.06%-I-Woodbury
7065 PYRENONE® K.D., CONC., Piperonyl butoxide 3.76%, Pyrethrins 1.5%-IC-Fairfield
7066 PYRENONE® LARGE SEED PROTECTANT (SLURRY), Piperonyl butoxide 10%, Pyrethrins 0.75%-I-Fairfield
7067 PYRENONE® 20 NEW, Piperonyl butoxide 5.03%, pyrethrins 0.62%-IC-Fairfield
7068 PYRENONE® 40 NEW, Piperonyl butoxide 10%, pyrethrine 1.25%-IC-Fairfield
7069 PYRENONE® 100 NEW, Piperonyl butoxide 24%, pyrethrins 3%-IC-Fairfield
7070 PYRENONE® O.T. 50-5, Piperonyl butoxide 53.97%, pyrethrins 5.3%-IC-Fairfield
7071 PYRENONE® O.T. 60-3, Piperonyl butoxide 62.5%, pyrethrins 3.12%-IC-Fairfield
7072 PYRENONE® O.T. 666, Piperonyl butoxide 66.67%, pyrethrins 6.67%-IC-Fairfield
7073 PYRENONE® ROACH SPRAY CONC., piperonyl butoxide 7.5%, pyrethrins 1.5%-IC Fairfield
PYRETHRINS = ACTIVE PRINCIPLES OF PYRETHRUM
7074 PYRETHRUM EXTRACT NO. 20, Pyrethrins 2.51%,-IC-Fairfield
7075 PYRETHRUM EXTRACT NO. 40, Pyrethrins 5.00%,-IC-Fairfield
7076 PYRETHRUM EXTRACT NO. 100, Pyrethrins 11.82%-IC-Fairfield
7077 PYRETHRUM EXTRACT (PURIFIED) 20%-IC-Fairfield
7077.20 PYRETHRUM-PIPERONYL BUTOXIDE 20-6 CONCENTRATE, 20% Piperonyl butoxide and 6% pyrethrins-IC-Penick
7077.30 PYRETHRUM-PIPERONYL BUTOXIDE 20-8 CONCENTRATE, 20% Piperonyl butoxide and 8% pyrethrins-IC-Penick
7077.40 PYRETHRUM-PIPERONYL BUTOXIDE 40-5 CONCENTRATE, 40% Piperonyl butoxide and 5% pyrethrins-IC-Penick
7077.50 PYRETHRUM-PIPERONYL BUTOXIDE 40-8 CONCENTRATE, 40% Piperonyl butoxide and 8% pyrethrins-IC-Penick
7077.60 PYRETHRUM-PIPERONYL BUTOXIDE 50-10 CONCENTRATE, 50% Piperonyl butoxide and 10% pyrethrins-IC-Penick
7077.70 PYRETHRUM-PIPERONYL BUTOXIDE NO. 20 SPECIAL, 5.03% Piperonyl butoxide and 0.62% pyrethrins-IC-Penick
7078 PYRETHRUM POWDER, Pyrethrins 1%-IC-Fairfield
7079 PYRETOX NO. 100, Pyrethrins 1%-IC-Fairfield
7080 PYREXCEL WETTABLE POWDER, Pyrethrins 2%, sulfoxide 20%-I-Penick

7081 PYREXCEL 20, N-propyl isome 5%, pyrethrins [illegible]-IC-Penick
7082 PYREXCEL 40-5 CONC., Pyrethrins 5%, sulfoxide 40%-IC-Penick
7083 PYREXCEL 50-5 CONC., Pyrethrins 5%, sulfoxide 50%-I-Penick
7084 PYRIDOSE®, Pyridylmercuric acetate 80% (mercury 47.5%)-F-Mallinckrodt
7085 PYRIX 10, N-octyl bicycloheptene dicarboximide, pyrethrins-I-Chem. Ins.
7086 PYRIX 20-1, N-octyl bicycloheptene dicarboximide, pyrethrins-IC-Chem. Ins.
7087 PYRIX PB, Piperonyl butoxide, pyrethrins-I Chem. Ins.
7088 PYRIXICIDE, Pyrethrins, sesame oil extractives I-Chem. Ins.
7089 PYROCIDE 20, Oil 97.5%, pyrethrins 2.5%-IC-McLaughlin
7090 PYROCIDE 175, Oil 80%, pyrethrins 20%-IC-McLaughlin
7091 PYROCIDE BOOSTER CONC. C, Oil 94.37%, piperonyl butoxide 5%, pyrethrins 0.63%-IC-McLaughlin
7092 PYROCIDE BOOSTER CONC. E, Oil 91%, piperonyl butoxide 7.5%, pyrethrins 1.5%-IC-McLaughlin
7093 PYROCIDE BOOSTER CONC. K, Oil 45%, piperonyl butoxide 50%, pyrethrins 5%-IC-McLaughlin
7094 PYROCIDE DRY, Oil 45.8%, pyrethrins 2.2%-IC-McLaughlin
7094.50 PYROCIDE INTERMEDIATES, A wide range of intermediates containing pyrethrins or allethrins and synergists at many levels-IC-McLaughlin
7095 PYROCIDE INTERMEDIATE 51, Oil 72%, piperonyl butoxide 20%, pyrethrins 8%-IC-McLaughlin
7096 PYROCIDE INTERMEDIATE 54, Oil 55%, piperonyl butoxide 40%, pyrethrins 5%-IC-McLaughlin
7097 PYROCIDE INTERMEDIATE 55, Oil 64%, piperonyl butoxide 30%, pyrethrins 6%-IC-McLaughlin
7098 PYROCIDE INTERMEDIATE 64, Oil 75%, piperonyl butoxide 20%, pyrethrins 5%-IC-McLaughlin
7099 PYROCIDE INTERMEDIATE 5192, N-octyl bicycloheptene dicarboximide 30%, oil 43%, piperonyl butoxide 18%, pyrethrins 9%-IC-McLaughlin
7100 PYRROLE 46% AG CHLORDANE EMULSIFIABLE CONC.-I-Pyrrole
7101 PYRROLE 2% AG CHLORDANE IN OIL-I-Pyrrole
7102 PYRROLE 20% AG CHLORDANE IN OIL-I-Pyrrole
7103 PYRROLE 50% AG CHLORDANE IN OIL-I-Pyrrole
7104 PYRROLE ALDRIN EMULSIFIABLE CONCENTRATE NO. 8901, 2 lb./gal.-I-Pyrrole
7105 PYRROLE ALDRIN EMULSIFIABLE CONCENTRATE NO. 8902, 4 lb./gal.-I-Pyrrole
7106 PYRROLE BENZENE HEXACHLORIDE SOLN. NO. 8205, 2 lb./gal.-IC-Pyrrole
7107 PYRROLE CHLORDANE SOLN. NO. 8104-20% AG. GRADE-IC-Pyrrole
7108 PYRROLE CHLORDANE SOLN. NO. 8105-20%, REFINED GRADE-IC-Pyrrole
7109 PYRROLE 25% CHLORBENZILATE® EMULSIFIABLE CONC., Ethyl 4,4'-dichlorobenzilate 25%-I-Pyrrole
7110 PYRROLE DALTEX EMULSIFIABLE CONC., Dicapthon-I-Pyrrole
7111 PYRROLE DALTEX 101 OIL SOLUTION, Dicapthon-I-Pyrrole
7112 PYRROLE DDT OIL SOLN. CONC. NO. 8401-30%-IC-Pyrrole
7113 PYRROLE DIAZINON® 25E EMULSIFIABLE CONC. (25%), O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 25%-I-Pyrrole
7114 PYRROLE DIAZINON® 20S OIL SOLUTION, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 20%-I-Pyrrole
7115 PYRROLE DIELDRIN EMULSIFIABLE CONC. NO. 8801, (18.68%)-IC-Pyrrole
7116 PYRROLE DIELDRIN OIL SOLN. NO. 8802, (18.68%)-IC-Pyrrole
7117 PYRROLE DIELDRIN EMULSIFIABLE CONCENTRATE NO. 8803, (1.5 lb./gal.)-I-Pyrrole
7118 PYRROLE DI-LUTE, Oil solvent-D-Pyrrole
7119 PYRROLE DIPTEREX® SUGAR BAIT FLY KILLER, Trichlorofon-IB-Pyrrole
7120 PYRROLE EMULSIFIABLE BENZENE HEXACHLORIDE NO. 8201, (2 lb./gal.)-IC-Pyrrole
7121 PYRROLE EMULSIFIABLE CHLORDANE CONC. NO. 8112, (73%)-IC-Pyrrole
7122 PYRROLE EMULSIFIABLE CHLORDANE CONC. NO. 8114, (46%)-IC-Pyrrole
7123 PYRROLE 24E EMULSIFIABLE KORLAN® CONCENTRATE, Ronnel-I-Pyrrole
7124 PYRROLE EMULSIFIABLE LINDANE CONC. NO. 8201, (20%)-IC-Pyrrole
7125 PYRROLE EMULSIFIABLE PYRETHRIN CONC. NO. 8301, Piperonyl butoxide 11.89%, pyrethrins 1.19%-IC-Pyrrole
7126 PYRROLE LINDANE 100%-IC-Pyrrole
7127 PYRROLE LINDANE SOLN. NO. 8203, (10%)-IC-Pyrrole
7128 PYRROLE LINDANE SOLN. NO. 8202, (20%)-IC-Pyrrole
7129 PYRROLE 55% MALRIN EMULSIFIABLE CONC., 1,1,-Dichloro-2,2-bis (*p*-ethylphenyl) ethane, malathion-I-Pyrrole

7130 PYRROLE 55% MALRIN 576 EMULSIFIABLE CONC., 1,1-Dichloro-2,2-bis (*p*-ethylphenyl) ehane, DDVP-I-Pyrrole
7131 PYRROLE 55% MALRIN IN OIL, DDVP, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane, DDVP-I-Pyrrole
7132 PYRROLE 55% IN OIL, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane, malathion, oil-I-Pyrrole
7133 PYRROLE 55% MALRIN L. V. FOGGING CONC. IN OIL, Oil, organic thiocyanates-I-Pyrrole
7134 PYRROLE MALRIN SUGAR BAIT, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane, DDVP-IB-Pyrrole
7135 PYRROLE METHOXYCHLOR EMULSIFIABLE CONC. NO. 8601, (25%)-IF-Pyrrole
7136 PYRROLE METHOXYCHLOR OIL SOLN. NO. 8602-, (25%)-IC-Pyrrole
7137 PYRROLE PARADICHLOROBENZENE-IF-Pyrrole
7138 PYRROLE-PENTA 40E NO. 8004, 40% pentachlorophenol-H-I-Pyrrole
7139 PYRROLE PENTACHLOROPHENOL NO. 8002, (40%)-I-WP-Pyrrole
7140 PYRROLE-40% PENTACHLOROPHENOL NO. 8003-H-I-Pyrrole
7141 PYRROLE 50% PERTHANE® EMULSIFIABLE, 1,1-Dichloro-2,2-bis (ethylphenyl) ethane 50%-I-Pyrrole
7142 PYRROLE PERTHANE® IN OIL (50%), 1,1-Dichloro-2,2-bis (ethylphenyl), ethane 50%-I-Pyrrole
7143 PYRROLE PIVAL®, Pindone-R-Pyrrole
7144 PYRROLE PIVALYN®, Sodium salt of pindone-R-Pyrrole
7145 PYRROLE P.M.P. ANTICOAGULANT 1% CONCENTRATE, 2-Isovaleryl-1,1-indandione 1%-R-Pyrrole
7146 PYRROLE P.M.P. DRY MEAL BAIT, 2-Isovaleryl-1,1-indandione-R-Pyrrole
7147 PYRROLE P.M.P. PREPARED READY TO USE BAIT, 2-Isovaleryl-1,1-indandione-R-Pyrrole
7148 PYRROLE P.M.P. WATER SOLUBLE, Sodium salt of 2-Isovaleryl-1,1-indandione-R-Pyrrole
7149 PYRROLE PYRETHRIN OIL SOLN. CONC. NO. 8302, Oil, piperonyl butoxide 11.89%, pyrethrins 1.19%-IC-Pyrrole
7150 PYRROLE PYRO-NEL FOGGING CONCENTRATE, Ronnel-I-Pyrrole
7151 PYRROLE PYRO-THON 50% EMULSIFIABLE MALATHION-I-Pyrrole
7152 PYRROLE PYRO-THON 50% OIL SOLUTION, Malathion 50%-I-Pyrrole
7153 PYRROLE 2% REFINED CHLORDANE IN OIL-I-Pyrrole
7154 PYRROLE 50% REFINED CHLORDANE IN OIL-I-Pyrrole
7155 PYRROLE ROUGH AND READY, 0.5% Purified red squill-R-Pyrrole
7156 PYRROLE SIMAZINE 50W, Simazine 50%-H-Pyrrole
7157 PYRROLE SODIUM FLUORACETATE-R-Pyrrole
7158 PYRROLE STABLE EMULSIFIABLE CHLORDANE CONC. NO. 8115, (4 lbs./gal.)-IC-Pyrrole
7159 PYRROLE STROBANE® EMULSIFIABLE CONC. NO. 8701, Terpene polychlorinates 4 lb./gal.-IC-Pyrrole
7160 PYRROLE STROBANE® OIL SOLN. NO. 8702, Terpene polychlorinates 4 lb./gal. Pyrrole
7161 PYRROLE TECHNICAL CHLORDANE-IC-Pyrrole
7162 QUAT-A-MONE, Methyldodecylbenzyl trimethyl ammonium chloride 20%-F-Russell Co. Lab.
7163 QUATROIL, A 50% soln. of a quaternary ammonium compd. in a petroleum solvent.-F-Fine Organics
7164 QUICK ACTION GULFSPRAY, Methoxychlor 0.75%, oil 99.03%, piperonyl butoxide 0.12%, pyrethrins 0.10%-I-Gulf
7164.20 QUICKSAN, Phenyl mercuric acetate 10%-F-Stecker
7164.30 QUICKSAN-20, Phenyl mercuric acetate 20%-F-Stecker
7164.40 QUICKSAN-C20, Chloromethoxypropyl mercuric acetate 20%-F-Stecker
7164.50 QUICKSAN-CMA, Chloromethoxypropyl mercuric acetate 10%-F-ST-Stecker
7164.60 QUINDEX®, 10% Copper 8-quinolinolate solution (1.8% copper) for cordage and textiles-WP-Nuodex
7165 QUIST AGR. GRADE CHLORDANE-IC-Chem. Compounding
7166 QUIST ALDRIN EMULSIFIABLE-4 lb./gal.-I-Chem. Compounding
7167 QUIST BRUSH KILLER NO. 10, 4 Lb. 2,4,5-T acid/gal.-H-Chem. Compounding
7168 QUIST BRUSH KILLER NO. 20, 2 Lb. 2,4-D; 2 lb. 2,4,5-T/gal.-H-Chem. Compounding
7169 QUIST 5% CHLORDANE DUST-I-Chem. Compounding
7170 QUIST 40% CHLORDANE WETTABLE-I-Chem. Compounding
7171 QUIST 50% CHLORDANE WETTABLE-I-Chem. Compounding
7172 QUIST CREOSOTE WOOD PRESERVATIVE-WP-Chem. Compounding

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7173 QUIST 5% DIELDRIN GRANULAR-I-Chem. Compounding
7174 QUIST 10% DIELDRIN GRANULAR-I-Chem. Compounding
7175 QUIST 50% DIELDRIN WETTABLE-I-Chem. Compounding
7176 QUIST 36% EMULSIFIABLE CHLORDANE I-Chem. Compounding
7177 QUIST 46% EMULSIFIABLE CHLORDANE I-Chem. Compounding
7178 QUIST 62% EMULSIFIABLE CHLORDANE I-Chem. Compounding
7179 QUIST 72% EMULSIFIABLE CHLORDANE-I-Chem. Compounding
7180 QUIST 25% EMULSIFIABLE DIAZINON®, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 25%-I-Chem. Compounding
7181 QUIST EMULSIFIABLE DIELDRIN 1.5 LB.-GAL.-I-Chem. Compounding
7182 QUIST EMULSIFIABLE ENDRIN-I-Chem. Compounding
7183 QUIST 10% EMULSIFIABLE LINDANE-I-Chem. Compounding
7184 QUIST 20% EMULSIFIABLE LINDANE-I-Chem. Compounding
7185 QUIST 57% EMULSIFIABLE MALATHION-I-Chem. Compounding
7186 QUIST 10% HEPTACHLOR GRANULAR-I-Chem. Compounding
7187 QUIST LINDANE TECH.-IC-Chem. Compounding
7188 QUIST 25% LINDANE WETTABLE-I-Chem. Compounding
7189 QUIST 50% MALATHION EMULSIFIABLE-I-Chem. Compounding
7190 QUIST 90% MALATHION IN OIL-I-Chem. Compounding
7191 QUIST MOTH SPRAY, Terpene polychlorinates-I-Chem. Compounding
7192 QUIST 20% OIL SOLUBLE DIAZINON®, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 20%-I-Chem. Compounding
7193 QUIST ORTHODICHLOROBENZENE-IF-Chem. Compounding
7194 QUIST PARADICHLOROBENZENE-IF-Chem. Compounding
7195 QUIST PENTACHLOROPHENOL-WP-Chem. Compounding
7196 QUIST PENTACHLOROPHENOL CONC. 40%-WP-Chem. Compounding
7197 QUIST 50% PREMIUM MALATHION EMULSIFIABLE-I-Chem. Compounding
7198 QUIST 0.5% PYRETHRUM POWDER-I-Chem. Compounding
7199 QUIST 0.9% PYRETHRUM POWDER-I-Chem. Compounding
7200 QUIST 1.3% PYRETHRUM POWDER-I-Chem. Compounding
7201 QUIST PYRETHRUM SUPER CONCENTRATE-IC-Chem. Compounding
7202 QUIST RED SQUILL POWDER, 500 mg./kg.-R-Chem. Compounding
7203 QUIST REFINED GRADE CHLORDANE-IC-Chem. Compounding
7204 QUIST 50% REFINED MALATHION IN OIL-I-Chem. Compounding
7205 QUIST 90% REFINED MALATHION IN OIL-I-Chem. Compounding
7206 QUIST ROTENONE 5% EMULSIFIABLE-I-Chem. Compounding
7207 QUIST ROTENONE 5% IN OIL-I-Chem. Compounding
7208 QUIST SODIUM FLUORIDE-I-Chem. Compounding
7209 QUIST TOXAPHENE 6 lb./gal.-I-Chem. Compounding
7210 QUIST WARFARIN CONC. 0.5%-R-Chem. Compounding
7211 QUIST WEED KILLER, 2,4-D amine, 4 lb./gal.-H-Chem. Compounding
7212 QUIST WOOD PRESERVATIVE-PENTA-CHLOROPHENOL TYPE-WP-Chem. Compounding
7213 QUIST WOOD PRESERVATIVE-COPPER NAPHTHENATE TYPE-WP-Chem. Compounding
7214 RABBIT TOX, Naphthaline, nicotine, oil of mustard-ANR-Garden Prods.
7215 RADAPON®, Sodium 2,2-dichloropropionate 85%-H-Dow
7216 RADAPON® LIQUID, Sodium 2,2-dichloropropionate 30.7%-H-Dow
7217 RADAPON® M, Sodium 2,2-dichloropropionate 30.7%-H-Dow
RANDOX=see MONSANTO RANDOX
7218 RAT 42, Warfarin conc.-R-Chem. Ins.
7219 RAT CAFETERIA, Bait dispenser for liquids and solids-E-Solvit
7220 RAT DINER, Warfarin-R-Sterling
7221 RAT DINER, Warfarin-R-Puro
7222 RAT DOOM, Warfarin-R-Murray
7223 RAT DRAGON, Warfarin 0.025%-R-J. M. Harris
7223.25 RAT-FIX, Warfarin 0.025%, sulfaquinoxaline 0.025%-R-Thomp. Chem.
7223.50 RAT-O-CIDE, Anti-coagulant rodenticide-R-Am. Fumig.
7223.75 RAT-OLA, Sulfaquinoxaline, warfarin-R-Rockland
7224 RATEX READY-MIXED BAIT, Warfarin-R-Lester
7226 RAT KILLER, Pindone-R-Destruxol
7227 RAT-NOTS, Red squill bait-R-Nott
7230 RATOPAX, Liquid red squill-R-Biocerta Corp.
7231 RAT-PAK, Red squill (fortified) 10%-R-Cont. Chem.
7232 RAT-TOX WARFARIN RAT BAIT, Warfarin 0.025%-R-Rex
7233 RAT'S END, Liquid extract of red squill-R-Chem. Ins.
7234 RATS-NO-MORE, Warfarin 0.5%-R-Clersite
7235 RATS-NO-MORE, Warfarin-R-Dart

7236 RAT-TU, 25% Antu-R-Nott
7237 REAL-KILL BUG KILLER, DDVP 0.5%, dieldrin 0.5%-I-Cook Chem.
7238 REAL-KILL FLY AND MOSQUITO KILLER, DDVP 0.5%-I-Cook Chem.
7239 REAL-KILL FLY AND MOSQUITO KILLER BOMB, DDVP 0.5%-IA-Cook Chem.
7241 REAL-KILL MOTH PROOFER, Dieldrin 0.5%, phenyl mercuric lactate 0.016%-MP-Cook Chem. Co.
7241.50 RECO INSECT REPELLENT, Butyl-3,4-dihydro-2,2-dimethyl-4-oxo-1,2-H-pyran-6-carboxylate, dimethyl phthalate 60%, ethylhexanediol 20%-IR-Record Chem.
7242 RECORD'S CREOSOTE 99.5%-WP-Record Chem.
7243 RECORD'S DEATH-TO-MICE, warfarin 0.025%-R-Record Chem.
7244 RECORD'S NAP-LENE MOTH BALLS AND FLAKES, Naphthalene 99%-IF-Record Chem.
7245 RECORD'S NERO INSECT REPELLENT, Deet 75%-IR-Record Chem.
7246 RECORD'S PARAZENE CRYSTALS AND NUGGETS, Paradichlorobenzene 99%-IF-Record Chem.
7247 RECORD'S SQUIRREL SCARER & BULB PRESERVER, Copper carbonate 0.5%, copper naphthenate 2%, DDT 5%, naphthalene 60%, zinc naphthenate 2%-ANR-FI-Record Chem.
7248 RECORD'S WOOL GUARD, MOTH SPRAY, Chlorine 66%, oil 65%, terpene polychlorinates 5%-MP-Record Chem.
7249 RED-CAP, Cart for sprayer-E-Hudson
7251 RED PANTHER 3-10-40, Gamma BHC 3%, DDT 10%, sulfur 40%-FI-Coahoma
7252 RED PANTHER 2 LB. ALDRIN CONC., Aldrin 21.85%, related compds. 16.48%-I-Coahoma
7253 RED PANTHER 2½-0-0 ALDRIN EQUIV. DUST, Aldrin 2.37%, related compds. 1.79%-I-Coahoma
7254 RED PANTHER 2½-5-0 ALDRIN EQUIV. DUST, Aldrin 2.37%, related compds. 1.79%, DDT 5%-I-Coahoma
7255 RED PANTHER 2½-5-40 ALDRIN EQUIV. DUST, Aldrin 2.37%, related compds. 1.79%, DDT 5%, sulfur 40%-FI-Coahoma
7256 RED PANTHER 20% ALDRIN GRANULES-I-Coahoma
7257 RED PANTHER 1.2 BHC LIQUID EMUL. CONC., Aromatic oil 60%, Gamma BHC 13.5%-I-Coahoma
7258 RED PANTHER CATTLE GRUB DUST (WETTABLE), Rotenone 1.5%, rotenoids 1.50%-I-Coahoma
7259 RED PANTHER 3-5-0 COTTON DUST, Gamma BHC 3%, DDT 5%-I-Coahoma
7260 RED PANTHER 3-5-40 COTTON DUST, Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Coahoma
7261 RED PANTHER 3-10-0 COTTON DUST,, Gamma BHC 3%, DDT 10%-I-Coahoma
7262 RED PANTHER 3 LB. DDT CONC.-I-Coahoma
7263 RED PANTHER DDT 50D, DDT, 50%-I-Coahoma
7264 RED PANTHER 25% DDT CONC., DDT 25%-I-Coahoma
7265 RED PANTHER 5% DDT DUST-I-Coahoma
7266 RED PANTHER 10% DDT DUST-I-Coahoma
7267 RED PANTHER 25% DDT EMULSIFIABLE CONC.-I-Coahoma
7268 RED PANTHER 10 DDT GRANULAR-I-Coahoma
7269 RED PANTHER 10% DDT GRANULES-I-Coahoma
7270 RED PANTHER DDT LINDANE LIQUID EMULSIFIABLE CONC., DDT 25%, lindane 1.2%-I-Coahoma
7271 RED PANTHER 50% DDT WETTABLE POWDER-I-Coahoma
7272 RED PANTHER DICRYL® 1.6 LB. CONC., N-(3,4-Dichlorophenyl) methylacrylamide-H-Coahoma
7273 RED PANTHER 1½ DIELDRIN CONC.-I-Coahoma
7274 RED PANTHER 1½-5-1 DIELDRIN-DDT PARATHION COTTON DUST, Dieldrin 1.275%, related compds. 0.225%, DDT 5%, parathion 1%-I-Coahoma
7275 RED PANTHER 1½-0-0 DIELDRIN EQUIV. DUST-I-Coahoma
7276 RED PANTHER 1½-5-0 DIELDRIN EQUIV. DUST-I-Coahoma
7277 RED PANTHER 1½-5-40 DIELDRIN EQUIV. DUST-I-Coahoma
7278 RED PANTHER 1½-0-0 DIELDRIN EQUIV. DUST, DDT 10%, dieldrin 1.27%, related compds. 0.22%-I-Coahoma
7279 RED PANTHER 5% DIELDRIN GRANULES-I-Coahoma
7280 RED PANTHER 10% DIELDRIN GRANULES-I-Coahoma
7281 RED PANTHER 10% DIELDRIN GRANULAR, Dieldrin 8.5%, related compds. 1.5%-I-Coahoma
7282 RED PANTHER 50% DIELDRIN WETTABLE POWDER-I-Coahoma
7283 RED PANTHER E. Q. 335 SCREW WORM-SMEAR, Lindane 3%, oil 42%, pine oil 35%-IR-Coahoma

7284 RED PANTHER ENDATION EMULSIFIABLE CONC., 1.6 lb. endrin & 1.6 lb. methyl parathion/gal.) -I-Coahoma
7285 RED PANTHER ENDRIN 1.6 LB. EMULSIFIABLE CONC.-I-Coahoma
7286 RED PANTHER 12% GAMMA BHC WETTABLE POWDER, Gamma BHC 12%-I-Coahoma
7287 RED PANTHER LINDANE LIVESTOCK EMULSIFIABLE CONC., Lindane 20%-I-Coahoma
7288 RED PANTHER 25% LINDANE WETTABLE POWDER, Lindane 25%-I-Coahoma
7289 RED PANTHER 3-5-0 LIQUID EMUL. CONC. Gamma BHC 10%, DDT 16.8%-I-Coahoma
7290 RED PANTHER MALATHION 5 LB. CONC.-I-Coahoma
7291 RED PANTHER 50% MALATHION EMULSIFIABLE CONC., Malathion 50%-I-Coahoma
7292 RED PANTHER 25% METHOXYCHLOR EMULSIFIABLE CONC., Methoxychlor 25%-I-Coahoma
7293 RED PANTHER METHYL PARATHION 2 LB. CONC.-I-Coahoma
7294 RED PANTHER METHYL PARATHION 4 LB. CONC.-I-Coahoma
7295 RED PANTHER 1% PARATHION DUST-I-Coahoma
7296 RED PANTHER PYRENONE® EMULSIFIABLE CONC., Oil 83%, piperonyl butoxide 10%, pyrethrins 1%-I-Coahoma
7297 RED PANTHER READY TO USE PYRENONE® FLY-STOCK SPRAY, Oil, piperonyl butoxide 0.19%, pyrethrins 0.024%-I-Coahoma
7298 RED PANTHER 1½% ROTENONE CATTLE GRUB & GARDEN DUST, Rotenone 1.5%, rotenoids 1.5%-I-Coahoma
7299 RED PANTHER 5% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate-I-Coahoma
7300 RED PANTHER 10% SEVIN® DUST, 1-Naphthyl-N-methylcarbamate-I-Coahoma
7301 RED PANTHER TOXAPHENE-BHC LIVESTOCK EMULSIFIABLE CONC., Gamma BHC 2.4%, toxaphene 60%-I-Coahoma
7302 RED PANTHER 20-0 TOXAPHENE DUST, Toxaphene 20%-I-Coahoma
7303 RED PANTHER 20-5 TOXAPHENE DUST, DDT 5%, toxaphene 20%-I-Coahoma
7304 RED PANTHER 20-40 TOXAPHENE DUST, Sulfur 40%, toxaphene 20%-FI-Coahoma
7305 RED PANTHER 4 LBS. TOXAPHENE EMUL. (40%)-I-Coahoma
7306 RED PANTHER 6 LBS. TOXAPHENE EMUL. (60%)-I-Coahoma
7307 RED PANTHER 8 LBS. TOXAPHENE EMUL. (72%)-I-Coahoma
7308 RED PANTHER TOXAPHENE-LINDANE LIVESTOCK CONC., Lindane 2.4%, toxaphene 61%-I-Coahoma
7309 RED PANTHER TOXAPHENE LIVESTOCK EMULSIFIABLE CONC. 61%-I-Coahoma
7310 RED PANTHER 20-1 TOXAPHENE-PARATHION COTTON DUST, Parathion 1%, toxaphene 20%-I-Coahoma
7310.50 REDDON®, Propylene glycol butyl ether esters of 2,4,5-T 18%-H-Dow
7311 REE GREEN SPRAY, Iron 30%-N-Fla. Agr. Supply
7312 REICHHOLD ORTHO-PHENYLPHENOL 98%-F-Reichhold
7313 RENEX 20, Poloxyethylene esters of mixed fatty & resin acids-A-Atlas
7314 RENEX 25, Polyoxyethylene esters of mixed fatty & resin acids 50%, urea 50%-A-Atlas
7314.50 RENEX 30, Polyoxyethylene ether alcohol-A-Atlas
7314.75 RENEX 35, Polyoxyethylene ether alcohol complexed with urea-A-Atlas
7315 RE-NU IRON CHELATE, Iron 15%-A-Stephenson
7316 REPELLA BUG BOMB, Butyl dihydro dimethyl gamma pyrone carboxylate 3.46%, dimethyl phthalate 12.77%, 2-ethylhexanedione 1,3 3.77%-IR-Thomp. Chem.
7316.50 REPELOCIDE, Butoxy polypropylene glycol 5%, oil 93.6%, piperonyl butoxide 1.27%, pyrethrins 0.13%-I-Empire
7317 REPUBLIC COPPER OXIDE-F-Republic
7318 REPUBLIC 10% D.D.T. HOUSEHOLD INSECTICIDE-I-Republic Chem. Corp.
7319 REVENGE LITTER SPRAY, Coal tar neutral oils, coal tar phenols, soap-FI-Russell Co. Lab
7320 REX ANT BAIT, Thallium sulfate 1%-IB-Rex
7321 REX DEODORIZED FLY-TOX, Oil 99.5% piperonyl butoxide 0.375%, pyrethrins 0.075%-I-Rex
7322 REX INSECT REPELLENT BOMB, Ethyl hexanediol 20%-IR-Rex
7323 REX MOUSE-TOX, Strychnine 0.3%-R-Canada Rex
7325 REX SURFACE INSECTICIDE, DDT 5%, methyl naphthalenes 11.9%, oil 82.6%, organic thiocyanates 0.5%-I-Rex
7326 RESIDEX 603, DDT 1.5%, lindane 0.2%-I-Residex
7327 RESIDEX AA GENERAL PURPOSE HOUSEHOLD SPRAY, Oil 99.55%, piperonyl butoxide .2%, pyrethrins 0.25%-I-Residex
7328 RESIDEX ALDRIN "2L," 2 lbs. Aldrin/gal.-I-Residex

7329 RESIDEX ALDRIN "4L", 4 lbs. Aldrin/gal.-I-Residex
7330 RESIDEX CHLORDANE 70 REFINED, 8 lbs./gal.-I-Residex
7331 RESIDEX CHLORDANE 70 EMULSIFIABLE CONCENTRATE, 8 lbs./gal.-I-Residex
7332 RESIDEX CHLORDANE 46% EMULSION CONCENTRATE, 46% Chlordane Ag. Grade-I-Residex
7333 RESIDEX CHLORDANE 20% REFINED OIL CONCENTRATE, 20% Chlordane-I-Residex
7334 RESIDEX CRAWLING INSECT SPRAY, N-Octyl bicycloheptene dicarboximide 0.25%, piperonyl butoxide .15%, pyrethrins 0.075%-I-Residex
7335 RESIDEX DDT 30% OIL SOLUBLE CONCENTRATE, 2.5 lb. DDT/gal.-I-Residex
7336 RESIDEX DDT 25% EMULSIFIABLE CONCENTRATE-I-Residex
7337 RESIDEX DDVP 2 EMULSIFIABLE CONCENTRATE, DDVP 2 lb./gal.-I-Residex
7338 RESIDEX DIELDRIN 1.5 LB. EMULSION CONCENTRATE, Dieldrin 1.5 lb./gal. -I-Residex
7339 RESIDEX FLY FOG INDUSTRIAL AEROSOL, piperonyl butoxide 3%, pyrethrins 0.5%-IA-Residex
7340 RESIDEX FLY FOG JR.-12 OZ. CAN, Piperonyl butoxide 1%, pyrethrins 0.25%-IA-Residex
7341 RESIDEX FLYING INSECT SPRAY, N-Octyl bicycloheptene dicarboximide 0.133%, piperonyl butoxide 0.08%, pyrethrins 0.04%-I-Residex
7342 RESIDEX HEPTACHLOR 2E, 2 lb./gal.-I-Residex
7343 RESIDEX HOUSEHOLD INSECT SPRAY, Diazinon 0.5%, N-octyl bicycloheptene dicarboximide 0.17%, piperonyl butoxide 0.1%, pyrethrins 0.05%-I-Residex
7344 RESIDEX INDUSTRIAL SPRAY, Diazinon 0.5%, N-octyl bicycloheptene dicarboximide 0.17%, piperonyl butoxide 0.1%, pyrethrins 0.05%-I-Residex
7345 RESIDEX LINDANE 20% EMULSIFIABLE CONCENTRATE-I-Residex
7346 RESIDEX MALATHION 5 LB. EMULSIFIABLE CONCENTRATE PREMIUM GRADE-I-Residex
7347 RESIDEX MALATHION 5 LB. OIL SOLUBLE PREMIUM GRADE-I-Residex
7348 RESIDEX METHOXYCHLOR 24E, Methoxychlor 2 lb./gal.-I-Residex
7349 RESIDEX RAT-PAK, Warfarin 0.025%-R-Residex
7350 RESIDEX RESIPOWDER, Chlordane 2%, DDT 3.33%, lindane 0.33%-I-Residex
7351 RESIDEX RESRATTUS (Pival) MIX, Pindone 0.025%-R-Residex
7352 RESIDEX RESRATTUS (Warfarin) MIX, Warfarin 0.025%-R-Residex
7353 RESIDEX ROACH SPRAY CONCENTRATE, DDT 5%, organic thiocyanates 5.3%-I-Residex
7354 RESIDEX SAFTICIDE EMULSION CONCENTRATE, N-Octyl bicycloheptene dicarboximide 4.46%, piperonyl butoxide 2.7%, pyrethrins 1.35%-I-Residex
7355 RESIDEX SAFTICIDE FOGGING COMPOUND, N-Octyl bicycloheptene dicarboximide 1%, piperonyl butoxide 0.6%, pyrethrins 0.3%-I-Residex
7356 RESIDEX SEVIN® 10-D, Carbaryl 10%-I-Residex
7357 RESIDEX SUPER SAFTICIDE CONCENTRATE, N-Octyl bicycloheptene dicarboximide 10%, piperonyl butoxide 6%, pyrethrins 3%-I-Residex
7358 RESIDEX RESIMUS TRACKING POWDER, DDT 50%-R-Residex
7359 RESIDEX TUMBLEBUG, Chlordane 2%-I-Residex
7360 RHOTHANE® AD-50, TDE 50%-I-Rohm & Haas
7361 RHOTHANE® D-3 TECHNICAL (Flake), TDE 100%-Rohm & Haas
7362 RHOTHANE® 25% EMUL. CONC., TDE 25%-I-Rohm & Haas
7363 RHOTHANE® WP-50 (Wettable), TDE 50%-I-Rohm & Haas
7364 RICHFIELD AQUATIC WEEDKILLER, Emulsifiable aromatic hydrocarbon oil-H-Richfield
7365 RICHFIELD AQUATIC WEEDKILLER, Emulsifiable aromatic herbicide-H-Richfield
7366 RICHFIELD SELECTIVE WEEDKILLER, Selective petroleum herbicide-H-Richfield
7367 RICHFIELD SELECTIVE WEEDKILLER NO. 1, Refined volatile type petroleum oil for use on carrots and parsnips-H-Richfield
7368 RICHFIELD WEEDKILLER "A", Emulsifiable aromatic hydrocarbon oil-H-Richfield
7369 RICHFIELD WEEDKILLER "A", Non-selective petroleum herbicide-H-Richfield
7370 RID-O-WEED, 2,4-D 10% acid-H-Rockland
7372 RIDSECT HOUSEHOLD FLY SPRAY, Methoxychlor 1%, piperonyl butoxide 0.4%, pyrethrins 0.5%-I-Chipman (Can.)
7373 RIDSECT HOUSEHOLD INSECT KILLER (AEROSOL), DDT 2%, organic thiocyanates 1%, piperonyl butoxide 0.25%, pyrethrins-IA-Chipman (Can.)
7374 RIDZ INDOOR PUSH-BUTTON DOG REPELLENT, Allyl isothiocyanate 0.25%, imitation oil of sassafras 0.5%, paradichlorobenzene 1%, perfume 0.5%-ANR-Boyle-Midway
7375 RIDZ OUTDOOR PUSH-BUTTON DOG REPELLENT, Allyl isothiocyanate 0.25%, bone oil 0.5%, imitation oil of sassafras 0.5%, paradichlorobenzene 1%-ANR-Boyle-Midway

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7377 RISOSAN, A 100% active quaternary ammonium compound-F-Fine Organics
7378 RITE-O-WAY TCA CHLORATE, Sodium chlorate 22.5%, TCA 10%-H-Gen. Chem.
7379 ROACH & ANT TOXICANT, Chlordane 2%, malathion 1%, oil 96.8%, piperonyl butoxide 0.15%, pyrethrins 0.03%-I-Brulio
7380 ROACH CAFE, Boric acid 50%-IB-Agkem
7381 ROACH DINER, Lead arsenate-IB-Puro
7382 ROACH DINER, Lead arsenate-IB-Sterling
7383 ROACH DOOM, Sodium fluoride-I-Murray
7383.50 ROACHKIL, Oil 98.8%, piperonyl butoxide 1%, pyrethrins 0.2%-I-Empire
7384 ROACHKIL INSECT SPRAY, Chlordane, oil, N-octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins-I-Uncle Sam
7385 ROACH-TOX, Chlordane 2%, oil 98%-I-Rex
7385.50 ROADSIDE WEED AND BRUSH SPRAYERS, High pressure and air-type-E-John Bean
7386 ROBALL SIFTERS (FOR SIFTING OR SCREENING PESTICIDES)-E-J. H. Day
7387 ROBECO LINDANE TECHNICAL 99% PLUS-IC-Robeco
7388 ROBECO MCP, 2-Methyl-4-chlorophenoxyacetic acid 92% or 97%-H-Robeco
7389 ROBECO MERCURIC CHLORIDE-F-Robeco
7390 ROBECO SODIUM TCA, 95%, trichloroacetic acid sodium salt-H-Robeco
7391 ROBECO THALLIUM SULFATE-R-Robeco
7392 ROBECO THIRAM 98/100%-F-Robeco
7393 ROBECO THIRAM 75% WETTABLE POWDER-F-Robeco
7394 ROBERTS DDT, 100% Aerosol grade DDT-IC-Roberts
7395 ROBERTS FERBAM (76%)-F-Roberts
7396 ROBERTS PURIFIED DDT 50%, Aerosol grade-I-Roberts
7397 ROBERTS THIRAM (75%)-F-Roberts
7398 ROBERTS ZIRAM (76%)-F-Roberts
7399 ROCKLAND AMINE 40, Amine 2,4-D 4 lbs.-H-Rockland
7400 ROCKLAND BRUSH KILLER, 2 lbs., 2,4-D and 2 lbs., 2,4,5-T-H-Rockland
7401 ROCKLAND CHLORDANE 5% DUST-I-Rockland
7402 ROCKLAND CHLORDANE 10% GRANULARS-I-Rockland
7403 ROCKLAND 50% DDT, WETTABLE POWDER-I-Rockland
7403.50 ROCKLAND "HS" FLY SPRAY FOR HORSES, Hexahydro dibenzofurancarboxaldehyde, organic thiocyanates, pine oil, pyrethrum-I-Rockland
7404 ROCKLAND HEPTACHLOR 2E (2 lbs./gal.)-I-Rockland
7405 ROCKLAND KLEEN-KOW DAIRY AEROSOL, Piperonyl butoxide, pyrethrins-IA-Rockland
7406 ROCKLAND LINDANE 25% WETTABLE POWDER-I-Rockland
7407 ROCKLAND MALATHION 5 LBS. EMUL.-I-Rockland
7408 ROCKLAND METHOXYCHLOR 2-E (2 lb./gal.)-I-Rockland
7409 ROCKLAND PENN-OLA COAL TAR DISINFECTANT-F-Rockland
7410 ROCKLAND POTATO VINE KILLER, Sodium arsenite-H-Rockland
7411 ROCKLAND ROOST PAINT, BHC-I-Rockland
7413 ROCKLAND LIVESTOCK PEST SPRAY CONCENTRATE, *Alpha*-methylbenzyl 3-(dimethoxyphosphonyloxy) *cis*-crotonate 57.3%-I-Rockland
7414 ROCKLAND RESIDUAL FLY SPRAY, Ronnel 24%-I-Rockland
7414.50 ROCKLAND "SPONGE-ON", Butoxy polypropylene glycol, methoxychlor, pine oil, piperonyl butoxide, pyrethrum-I-Rockland
7414.75 ROCKLAND WEED KILLER, 4 lbs. Sodium arsenite-H-Rockland
7415 RODENT ROCKETS, Fire cracker or rocket-like tubes which, when ignited, produce a gas which destroys moles, gophers, and similar rodents in their burrows.-ANR-Benson-Maclean
7416 RODINE (LIQUID EXT. OF RED SQUILL) 500 MG./KG.-R-Penick
7417 RO-DO Warfarin 0.4%-R-Lorenz
7418 ROLERO, Compression sprayer-E-Hudson
RONNEL = O,O-DIMETHYL-O-(2,4,5-TRICHLOROPHENYL) PHOSPHOROTHIOATE
7419 ROOT-LOWELL NO. 904 PRO, 1 gal. stainless steel sprayer-E-Root-Lowell
7420 ROOT-LOWELL NO. 908 PRO, 2 gal. stainless steel sprayer-E-Root-Lowell
7421 ROOT-LOWELL NO. 925 PRO, 2 qt. stainless steel sprayer-E-Root-Lowell
7422 ROOT-LOWELL NO. 903 RODENT & PEST DUSTER-E-Root-Lowell
7423 ROSE-ALL, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 2.6%, glyodin 12.4%, lindane 2.9%, piperonyl butoxide 0.5%, pyrethrins 0.05%-FI-Doggett-Pfeil
7424 ROSE AND GARDEN BOMB, Captan 0.5%, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 0.2%, pyrethrins 0.025%, rotenone 0.125%-FI-Thomp. Chem.
7425 ROSE RAT KILLER, Arsenic trioxide 99.08%-R-Rose Exterm.
7426 ROSEX (WARFARIN), Warfarin 0.025%-R-Rose Exterm.
7427 ROTESSENOL A.G. CONC., Rotenone 6%-I-Fairfield

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7427.50 ROSETOX LIQUID, Carbaryl, captan, 4,4-dichloro-alpha trichloromethylbenzhydrol, 2,4-dinitro-6- (-octyl) phenyl crotonate-H-Bowide
7428 ROT-NOT, Copper naphthenate, oil-WP-S. C Labs.
7429 ROTOMIST AIR-TYPE MIST SPRAYER-E-John Bean
7430 ROUGH ON BUGS, Piperonyl butoxide 1.5%, pyrethrins 0.15%, pyrethrins 0.15%, ryania 18.35%, sodium fluoride 58%-I-Brown Mfg.
7432 ROUGH ON RATS ANTICOAGULANT BAIT, Coumafuryl 0.025%-R-Brown Mfg.
7433 ROUGH ON RATS ORIGINAL CONCENTRATE, Arsenic trioxide 73.9%, barium carbonate 20.0%-R-Brown Mfg.
7435 ROUGH & READY ANT POWDER WITH DIELDRIN, Dieldrin 1%-I-Eaton
7436 ROUGH & READY CONC. WARFARIN, Warfarin 0.5%-R-Eaton
7437 ROUGH & READY MOUSE MIX, Warfarin 0.5%-R-Eaton
7438 ROUGH & READY RAT BAIT, Fortified red squill 10%-R-Eaton
7439 ROUGH & READY RAT & MOUSE BAIT WITH WARFARIN, Warfarin 0.025%-R-Eaton
7440 ROUGH AND READY RAT PASTE, Fortified red squill 41%-R-Eaton
7441 ROUGH & READY ROACH POWDER WITH DIELDRIN, Dieldrin 1%-I-Eaton
7442 ROYAL POWER SPRAYER-E-John Bean
7443 ROYALETTE POWER SPRAYER-E-John Bean
7444 ROYALIER POWER SPRAYER-E-John Bean
7445 RUELENE® 25E, 4-*tert*-Butyl-2-chlorophenyl methyl methylphosphoroamidate 25%-IS-WP-Dow
7446 RUN ROACH, Oil, piperonyl butoxide, pyrethrins 2,3,4,5 bis (2-butylene) -tetrahydrofurfural-I-Lester
7448 RUSSELL MALATHION, Malathion 56%-I-Russell Co. Lab.
RUTGERS 612 = 2-ETHYL-1,3-HEXANEDIOL
7449 RYANICIDE 50, *Ryania Speciosa* 50%-IC-Penick
7450 SABANE DUST, Sabadilla seed 20%-I-Woolfolk
7451 SACO INSECT & ROACH SPRAY, Chlordane 2%, oil 98%-I-S & S Co.
7452 SAFITE DIAZINON® SPRAY, O,O-Diethyl O (2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.5%, oil 99.5%-I-Safety Fumig
7453 SAFITE LIQUID INSECTICIDE, Chlordane 2%, oil 98%-I-Safety Fumig.
7454 SAFITE RODENTICIDE, Warfarin 0.025%-R Safety Fumig.
7455 SAFTI-FUME BRIQUETTE, Sodium chlorate 10%, sodium cyanide 37%, (forms cyanogen chloride) -IF-Safety Fumig.
7456 SAMINCORP CALCIUM ARSENTE 72% POWDER I-Samincorp
7457 SAMINCORP COPPER ACETATE-F-Samincorp
7458 SAMINCORP COPPER CARBONATE-F-Samincorp
7459 SAMINCORP COPPER CHLORIDE-F-Samincorp
7460 SAMINCORP COPPER OXYCHLORIDE 58% COPPER POWDER-F-Samincorp
7461 SAMINCORP COPPER SULFATE MONOHYDRATE-F-Samincorp
7462 SAMINCORP COPPER SULFATE TRIBASIC-F-Samincorp
7463 SAMINCORP DISODIUM METHYL ARSONATE 39% POWDER-H-Samincorp
7464 SAMINCORP ETHYL MERCURY CHLORIDE 7.8% POWDER-F-ST-Samincorp
7465 SAMINCORP FERBAM 76% WETTABLE POWDER-F-Samincorp
7466 SAMINCORP LEAD ARSENATE 97% WETTABLE POWDER-I-Samincorp
7467 SAMINCORP MCPA 95% CRYSTALS, MCP 95%-H-Samincorp
7468 SAMINCORP MCPP 4.7 LBS./GAL. LIQUID, 2-(4-Chloro-2-methyl phenoxy) propionic acid-H-Samincorp
7469 SAMINCORP MERCURIC CHLORIDE 97% POWDER, (Corrosive sublimate) -F-ST-Samincorp
7470 SAMINCORP MERCURY OXIDE (YELLOW) 98% POWDER-F-ST-Samincorp
7471 SAMINCORP METALDEHYDE 98% POWDER-IF-Samincorp
7472 SAMINCORP METHYL MERCURY PENTACHLOROPHENOLATE 41.7% POWDER-F-ST-Samincorp
7473 SAMINCORP NABAM 22% LIQUID-F-Samincorp
7474 SAMINCORP NICOTINE SULFATE-I-Samincorp
7475 SAMINCORP OXYCHLORIDE SULFATE 55% WETTABLE POWDER-F-Samincorp
7476 SAMINCORP SODIUM CHLORATE-H-Samincorp
7477 SAMINCORP THIRAM 65% WETTABLE POWDER-F-Samincorp
7478 SAMINCORP ZINC SULFATE MONOHYDRATE, Zinc 36%-F-A-Samincorp
7479 SAMINCORP ETHYL MERCURY ACETATE-F-Samincrop
7480 SAMINCORP ZINC SULFATE SEPTAHYDRATE, Zinc 23%-F-A-Samincorp
7481 SAMINCORP ZINEB 75% WETTABLE POWDER, 90% unfomulated-F-Samincorp
7482 SAMINCORP ZIRAM 76% WETTABLE POWDER-F-Samincorp
7483 SANAMINE, Alkyl dimethyl benzyl ammonium chloride 10%-F-Lorenz
7484 SANI-DETH ALL PURPOSE BUG KILLER, Chlordane 2%, oil 97.737%, piperonyl butoxide 0.188%, pyrethrins 0.075%-I-Jaylin

7485 SANI-DETH BED BUG AND FLEA SPRAY, Oil 98.814%, phenol 1.186%-I-Jaylin
7486 SANI-DETH BEE, HORNET, WASP, AEROSOL BOMB, N-Octyl bicycloheptene dicarboximide 0.40%, oil 13.68%, piperonyl butoxide 0.72%, pyrethrins 0.2%-IA-Jaylin
7487 SANI-DETH BUG KILLER, chlordane 2%, di-n-propyl maleate isosafrole condensate 0.1%, oil 97.673%-I-Jaylin
7488 SANI-DETH 50% DDT DUST-I-Jaylin
7489 SANI-DETH DDT 50% WATERBUG POWDER-I-Jaylin
7490 SANI-DETH FLY AND MOSQUITO AEROSOL BOMB, Allethrin .1%, DDT 1%, isobornyl thiocyanoacetate 0.820%, methoxychlor 1%, N-octyl bicycloheptene dicarboximide 0.166%, oil 16.734%-IA-Jaylin
7491 SANI-DETH HOUSEHOLD INSECTICIDE, Diazinon 0.5%, oil 98.298%, organic thiocyanates 1.202%-I-Jaylin
7492 SANI-DETH NON TOXIC GARDEN AND HOME AEROSOL BOMB, Oil 0.8%, piperonyl butoxide 1%, pyrethrins 0.2%-IA-Jaylin
7493 SANI-DETH ROACH AND ANT AEROSOL BOMB, Chlordane 2%, N-octyl bicycloheptene dicarboximide 0.154%, oil 72.078%, piperonyl butoxide 0.092%, pyrethrins 0.046%-IA-Jaylin
7494 SANI-DETH TECH. CHLORDANE 72%-I-Jaylin
7495 SANI-DETH WARFARIN .025% RAT AND MOUSE BAIT-R-Jaylin
7496 SANOCIDE SEED PROTECTANT, Hexachlorobenzene 40%-ST-Calif. Chem.
7497 SAN-PHE-NOL, Chloro-2-phenylphenol 67.68%, isopropyl alcohol 15.33%, anhydrous soap 6.33%, terpineol 4.66%-I-Russell Co. Lab.
7498 SAPHO 5% CHLORDANE DUST,-I-Kennedy
7499 SAPHO 2% CHLORDANE LIQUID, Chlordane 2%, oil 98%-I-Kennedy
7500 SAPHO CRYSTALS, Paradichlorobenzene 99%-IF-Kennedy
7501 SAPHO 2-4-D, 3 Oz. acid equiv./Imp. pint-H-Kennedy
7502 SAPHO 25% DDT EMUL. 2½ lbs./Imp. gal. gal-I-Kennedy
7503 SAPHO 5% DDT INSECTICIDE, DDT 5%, organic thiocyanates 2%, oil 93%-I-Kennedy
7503.20 SAPHO EMULSIFIABLE CONCENTRATE, Pyrethrins 1.25%, piperonyl butoxide 12.5%-I-Kennedy
7503.30 SAPHO EMULSIFIABLE INDUSTRIAL CONCENTRATE, Oil 86.5%, piperonyl butoxide 12%, pyrethrins 1.5%-I-Kennedy
7503.40 SAPHO INDUSTRIAL MILL SPRAY, Oil 99.4375%, piperonyl butoxide 0.5%, pyrethrins 0.0625%-I-Kennedy
7503.50 SAPHO INDUSTRIAL SPRAY, Oil 92%, pyrethrins-I-Kennedy
7503.60 SAPHO INSECT BOMB, Allethrin 0.1%, DDT 3%, methoxychlor 1%, N-octyl bicycloheptent dicarboximide 0.166%-IA-Kennedy
7503.70 SAPHO INSECT BOMB, DDT 3%-IA-Kennedy
7504 SAPHO GARDEN INSECTICIDE DUST, Piperonyl cyclonene 0.63%, pyrethrins 0.06%, rotenone 0.31%-I-Kennedy
7507 SAPHO INSECT POWDER, Pyrethrum 0.9%-I-Kennedy
7507.50 SAPHO 0.25% PROLIN® RAT & MOUSE KILLER, Sulfaquinoxaline, warfarin-R-Kennedy
7508 SAPHO MOTH PROOFER BOMB, Para chloraniline oleate 1.84%, para chloraniline salicylate 16%-MP-Kennedy
7509 SAPHO "RID" REPELLENT, 42.5%, N,N-Diethyl-*m*-toluamide-IR-Kennedy
7510 SAPHO WARFARIN RAT & MOUSE KILLER, Sulfaquinoxaline, warfarin (prolin 0.025%) -R-Kennedy
7511 SAPHONIA CATTLE SPRAY, Butoxypolypropylene glycol 5Z-IR-Kennedy
7512 SAPHONIA CATTLE SPRAY, Butoxy polypropylene glycol 5%, pyrethrins 0.025%, sulfoxide 0.2%-I-Kennedy
7513 SC-110, 10% Phenyl mercuric acetate-F-Guard
7514 SC-220, 20% Phenyl mercuric acetate-F-Guard
7515 SC-330, 30% Phenyl mercuric acetate-F-Guard
SCHRADAN = OCTAMETHYL PYROPHOSPHORAMIDE
7516 SCRAM MOTH BALLDS, 100% Naphthalene-IF-Curran
7517 SCRAM MOTH CAKES, Paradichlorobenzene-IF-Curran
7518 SCRAM MOTH FLAKES, 100% Naphthalene-IF-Curran
7519 SCRAM MOTH VAPORIZERS, Paradichlorobenzene-IF-Curran
7520 SCRAM PARADICHLOROBENZENE CRYSTALS-IF-Curran
7521 SAPHONIA STOCK SPRAY, Butoxypolypropylene glycol 5%, piperonyl butoxide 0.15%, pyrethrins 0.012%-I-Kennedy
7522 SCUTL, Phenyl mercuric acetate 0.59%, thiram 2.90%-H-Scott
7523 SEAL-TREAT, Oil 81.8%, pentachlorophenol 4.37%-WP-King Chemical
7524 SECT-O-CIDE INDUSTRIAL & FOOD PROCESSING PLANT INSECTICIDE, Oil, piperonyl butoxide, pyrethrins, active-I-Jaylin

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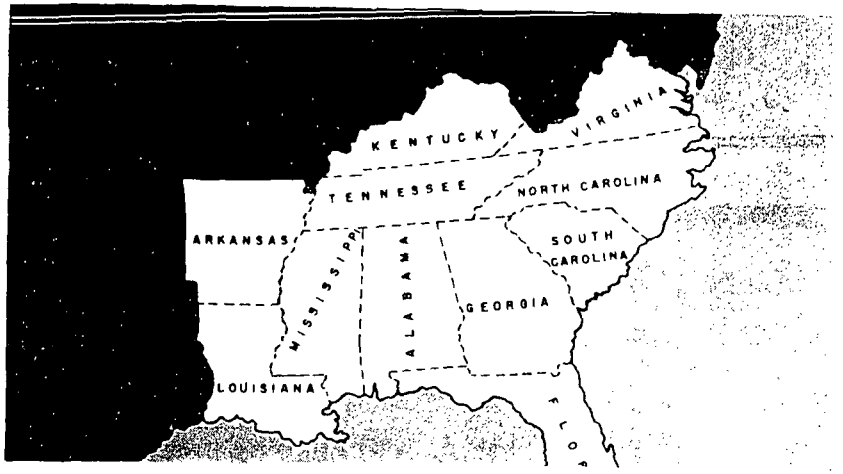
7525 SECT-O-CIDE NON TOXIC AEROSOL BOMB, N-Octyl bicycloheptene dicarboximide 0.4%, oil 13.68%, piperonyl butoxide 0.72%, pyrethrins 0.2%-IA-Jaylin
7526 SECTOX INSECT SPRAY, Piperonyl butoxide, pyrethrins-I-Chem. Compounding
7527 SECURITY BRAND 5% ALDRIN GRANULATED-I-Woolfolk
7528 SECURITY BRAND 10% ALDRIN GRANULATED-I-Woolfolk
7529 SECURITY BRAND 20% ALDRIN GRANULATED-I-Woolfolk
7530 SECURITY BRAND ARSENIOUS OXIDE, White arsenic 98%-I-H-Woolfolk
7531 SECURITY BRAND BHC CONC., Gamma BHC 1 lb./gal.-I-Woolfolk
7532 SECURITY BRAND 3-5 BHC-DDT COTTON DUST-I-Woolfolk
7532.50 SECURITY BRAND BITOXIN COTTON SPRAY, DDT 33.8%, *alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy)-cis-crotonate 8.5%, oil 50.1%-Woolfolk
7533 SECURITY BRAND BSZ (BASIC ZINC SULPHATE), Metallic zinc 20%-F-Woolfolk
7534 SECURITY BRAND CALCIUM ARSENATE, Tricalcium arsenate 70%-I-Woolfolk
7535 SECURITY BRAND 7½ CAPTAN PEACH DUST-F-Woolfolk
7536 SECURITY BRAND CATTLE GRUB DUST, Rotenone 1.5%, rotenoids 3%-I-Woolfolk
7537 SECURITY BRAND CHINCH BUG KILLER GRANULATED, Gamma BHC 3%, DDT 5%-I-Woolfolk
7538 SECURITY BRAND 5% CHLORDANE DUST-I-Woolfolk
7539 SECURITY BRAND 10% CHLORDANE DUST, Chlordane 10%, sulfur 40%-FI-Woolfolk
7540 SECURITY BRAND 75% CHLORDANE EMULSIFIABLE CONC.-I-Woolfolk
7541 SECURITY BRAND 10% CHLORDANE GRANULAR-I-Woolfolk
7542 SECURITY BRAND CHLORDANE 40% WETTABLE-I-Woolfolk
7543 SECURITY BRAND CONDITIONED SULPHUR, Sulfur 94%-FI-Woolfolk
7544 SECURITY BRAND COPPER-ZINC SPRAY, 12.5% copper, 10% zinc-F-Woolfolk
7545 SECURITY BRAND 3-WAY COTTON SPRAY, DDT 9.8%, methyl parathion 4.9%, toxaphene 39.5%-I-Woolfolk
7546 SECURITY BRAND 10% 3-D's DUST, TDE 10%-I-Woolfolk
7547 SECURITY BRAND 3-D's TDE 50%-I-Woolfolk
7548 SECURITY BRAND D-98 SPRAY OIL, Oil 98%-I-Woolfolk
7549 SECURITY BRAND 5% DDT DUST-I-Woolfolk
7550 SECURITY BRAND 10% DDT DUST-I-Woolfolk
7551 SECURITY BRAND DDT EMULSIFIABLE CONC.-I-Woolfolk
7552 SECURITY BRAND DDT 50W, DDT 50%-I-Woolfolk
7553 SECURITY BRAND 5% DIELDRIN GRANULATED-I-Woolfolk
7554 SECURITY BRAND 10% DIELDRIN GRANULATED-I-Woolfolk
7555 SECURITY BRAND 1½% DIELDRIN 86% SULPHUR PEACH DUST-FI-Woolfolk
7556 SECURITY BRAND 50% DIELDRIN WETTABLE-I-Woolfolk
7557 SECURITY BRAND DRIN-SOL, 24.4% Dieldrin-I-Woolfolk
7558 SECURITY BRAND EARWIG DUST, 10% 1-Naphthyl-N-methylcarbamate-I-Woolfolk
7559 SECURITY BRAND 25% EMULSIFIABLE 3-D's, TDE 25%-I-Woolfolk
7560 SECURITY BRAND 1½% ENDRIN DUST-I-Woolfolk
7561 SECURITY BRAND 2% ENDRIN DUST-I-Woolfolk
7562 SECURITY BRAND EQ 335 SCREW-WORM REMEDY, Lindane 3%, oil 42%, pine oil 35%-IR-Woolfolk
7564 SECURITY BRAND FERBAM DUST, Ferbam 11.4%-F-Woolfolk
7565 SECURITY BRAND FIRE ANT KILLER GRANULATED, 5% Heptachlor-I-Woolfolk
7566 SECURITY BRAND FIRE ANT KILLER LIQUID, 22.6% Heptachlor, 8.6% related compounds-I-Woolfolk
7568 SECURITY BRAND FLEA KILLER, Malathion 4%-I-Woolfolk
7568.50 SECURITY BRAND FOLEX® COTTON DEFOLIANT EMULSIFIABLE CONCENTRATE, Merphos 71.2%-H-Woolfolk
7569 SECURITY BRAND 2½% HEPTACHLOR GRANULATED-I-Woolfolk
7570 SECURITY BRAND 10% HEPTACHLOR GRANULATED-I-Woolfolk
7571 SECURITY BRAND KELTHANE® EMULSIFIABLE CONCENTRATE, 18.5% 1,1-*Bis* (chlorophenyl) 2,2,2-trichloroethane-I-Woolfolk
7572 SECURITY BRAND LEAD ARSENATE, Lead arsenate 98%-I-Woolfolk
7573 SECURITY BRAND LEAD ARSENATE DEFLOCULATED, Lead arsenate 96%-I-Woolfolk
7574 SECURITY BRAND LIME SULPHUR SOLN., Calcium polysulfides 30%-FI-Woolfolk
7575 SECURITY BRAND 1% LINDANE-I-Woolfolk
SECURITY BRAND 20% LINDANE EMULSIFIABLE CONC. CONTAINING 20% LINDANE-I-Woolfolk
7576
7577 SECURITY BRAND 25% LINDANE WETTABLE-I-Woolfolk
7577.50 SECURITY BRAND C-12 LIVESTOCK SPRAY, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy)-cis-crotonate 15.6%, oil 77.6%-I-Woolfolk



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Woolfolk's Security brand products rank high among pest control chemicals used in the Southeast. This is no accident but the result of more than 35 years of working with entomologists and agriculturalists of this region in the formulation of products designed especially for pest control problems in this area. Security brand chemicals are readily available from retail dealers and distribution centers throughout the Southeast. For specific information contact Woolfolk. Our technical representatives will be happy to work with you on various formulations.

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Endrin
EPN
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Malathion
Parathion
*Phosdrin
*Sevin
*Thiodan
Toxaphene

FUNGICIDES
MITICIDES
FUMIGANTS
DEFOLIANTS
WOOD PRESERVATIVES
GRAIN PROTECTANTS

HERBICIDES
*Atrazine
Chloro IPC
*Dacthal
*Herban
*Randox
*Simazine
*Treflan
2, 4-D
2, 4, 5-T
Vegedex

*Trademark Products

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Fort Valley, Georgia

958870210

7578 SECURITY BRAND 5% MALATHION DUST-I-Woolfolk
7579 SECURITY BRAND 55% MALATHION EMULSIFIABLE CONCENTRATE-I-Woolfolk
7580 SECURITY BRAND 25% MALATHION WETTABLE-I-Woolfolk
7581 SECURITY BRAND MANEB-DDT PEANUT DUST, DDT 5%, maneb 4%-FI-Woolfolk
7582 SECURITY BRAND MANEB DUST, Maneb 4%-I-Woolfolk
7583 SECURITYBRAND MED-O-SOL COTTON SPRAY, 22.4% DDT, 4.5% endrin, 5.6% methyl parathion-I-Woolfolk
7584 SECURITY BRAND METHYL PARATHION DDT SPRAY, DDT 22.4%, methyl parathion 11.2%-I-Woolfolk
7585 SECURITY BRAND PARATHION-EC4, (46.3%) I-Woolfolk
7586 SECURITY BRAND 7½% SEVIN® DUST, 7.5% Carbaryl-I-Woolfolk
7587 SECURITY BRAND 10% SEVIN® DUST, 10% Carbaryl-I-Woolfolk
7588 SECURITY BRAND 50% SEVIN® WETTABLE, 50% Carbaryl-I-Woolfolk
7589 SECURITY BRAND ETHION LAWN CHINCH BUG KILLER, Ethion 24%, oil 70%-I-Woolfolk
7590 SECURITY BRAND FISH TOX, 5% rotenone, 9.8% rotenoids-I-Woolfolk
7591 SECURITY BRAND 25W EPN®, O-Ethyl O-p-nitrophenyl phenylphosphorothioate-I-Woolfolk
7592 SECURITY BRAND 10% NEMAGON® GRANULATED, 1,2-Dibromo-3-chloropropane 10%-IF-Woolfolk
7593 SECRITY BRAND 30% NEMAGON® GRANULATED, 1,2-Dibromo-3-chloropropane 30%-IF-Woolfolk
7594 SECURITY BRAND 71% NEMAGON® EMULSIFIABLE CONCENTRATE, 1,2-Dibromo-3-chloropropane 71%-I-Woolfolk
7595 SECURITY BRAND NEUKAL, Low lime calcium arsenate 84%-I-Woolfolk
7596 SECURITY BRAND OIL EMUL., Oil 64%-I-Woolfolk
7597 SECURITY BRAND 2% PARATHION-I-Woolfolk
7598 SECURITY BRAND PARATHION-CAPTAN PEACH SPRAY, Captan 25%, parathion 7.5%-FI-Woolfolk
7599 SECURITY BRAND 1% PARATHION DUST-I-Woolfolk
7600 SECURITY BRAND PARATHION SULPHUR, Parathion 3.75%, sulfur 76.25%-FI-Woolfolk
7601 SECURITY BRAND PARATHION 15% WETTABLE CONC.-I-Woolfolk
7602 SECURITY BRAND PARATHION ZINK-O-DUST, Parathion 1.5%, sulfur 60%, zinc 6%-FI-Woolfolk
7603 SECURITY PARIS GREEN, Copper aceto arsenite 85.4%-I-Woolfolk
7604 SECURITY BRAND 2% PHOSDRIN® DUST 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%-I-Woolfolk
7604.50 SECURITY BRAND PHOSDRIN® EMULSIFIABLE, 2-Carbomethoxy-1-propen-2yl-dimethyl phosphate 25%-I-Woolfolk
7606 SECURITY BRAND ROSE DUST, Copper 5.2%, DDT 5%, lindane 1%, sulfur 80%-FI-Woolfolk
7607 SECURITY BRAND 5% ROTENONE-I-Woolfolk
7608 SECURITY BRAND SEVIN® BEAN DUST, 1.75% 1-Naphthyl-N-methylcarbamate-I-Woolfolk
7611 SECURITY BRAND 5% SEVIN® GARDEN DUST, 5% 1-Naphthyl-N-methylcarbamate-I-Woolfolk
7612 SECURITY BRAND 5% SEVIN®-1% PARATHION DUST, 5% 1-Naphthyl N-methylcarbamate, 1% parathion-I-Woolfolk
7613 SECURITY BRAND SEVIN®-SULPHUR 2-6 PEACH SPRAY, 1-Naphthyl-N-methylcarbamate 12.5%, sulfur 69%-FI-Woolfolk
7614 SECURITY BRAND 40% SODIUM ARSENITE-H-Woolfolk
7615 SECURITY BRAND STAN-AID SOIL FUNGICIDE, 3.5% Captan, 0.75% nabam-F-Woolfolk
7616 SECURITY BRAND STANDARD WETTABLE SULPHUR, Sulfur 90%-F-Woolfolk
7617 SECURITY BRAND STREPTOMYCIN, Streptomycin 8.5%, antibiotic-F-Woolfolk
7619 SECURITY BRAND SULPHUR-COPPER DUST-90-10, Copper 3.4%, sulfur 87%-F-Woolfolk
7620 SECURITY BRAND SUPERIOR OIL, Oil 97%-I-Woolfolk
7621 SECURITY BRAND THIODAN® EMULSIFIABLE CONCENTRATE, 2 Lbs. per gal. 6,7,8,9,10,10-hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin oxide-I-Woolfolk
7622 SECURITY BRAND 3% THIODAN® TOBACCO DUST, 3%-6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin oxide-I-Woolfolk
7622.50 SECURITY BRAND 50% THIODAN® WETTABLE, 50% Endosulfan-I-Woolfolk

7622.75 SECURITY BRAND 3-WAY COTTON SPRAY 4-2-½, DDT 19.3%, methyl parathion 4.8%, oil 27.3%, toxaphene 38.6%-I-Woolfolk
7623 SECURITY BRAND 3-WAY TOBACCO DUST, Parathion 1%, TDE 5%-I-Woolfolk
7624 SECURITY BRAND TOBACCO HOPPER-WORM SPRAY, Aldrin 5.7%, TDE 23.2%-I-Woolfolk
7625 SECURITY BRAND TOMATO DUST, Calcium arsenate 60%, copper 7%-FI-Woolfolk
7626 SECURITY BRAND 20% TOXAPHENE COTTON DUST-I-Woolfolk
7627 SECURITY BRAND TOXAPHENE-DDT 2-1 DUST, DDT 7%, toxaphene 14%-I-Woolfolk
7628 SECURITY BRAND 20-10 TOXAPHENE-DDT DUST, DDT 10%, toxaphene 20%-I-Woolfolk
7629 SECURITY BRAND 40% TOXAPHENE WETTABLE-I-Woolfolk
7630 SECURITY BRAND TOX-SOL-6, 19.7% DDT, 39.4% toxaphene-I-Woolfolk
7631 SECURITY BRAND TOX-SOL-DDT-4-2, DDT 19%, toxaphene 38.5%-I-Woolfolk
7632 SECURITY BRAND TRI-ME 2½-7, 2½%, O,O-Dihetyl S-(*p*-chlorophenylthio) methyl phosphorodithioate, 7% DDT-I-Woolfolk
7633 SECURITY BRAND TRI-ME COTTON SPRAY 1-2, 1 lb. O,O-Dimethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate, 2 lbs. DDT per gallon-I-Woolfolk
7634 SECURITY BRAND TRI-ME COTTON SPRAY 2-2,- lbs. O,O-Dimethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate, 2 lbs. DDT per gallon-I-Woolfolk
7635 SECURITY BRAND 2% TRITHION® DUST, O,O-Diethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate 2%-I-Woolfolk
7635.50 SECURITY BRAND TRITHION® EC-4, Carbophenothion 45.9%, oil 43%-I-Woolfolk
7636 SECURITY BRAND VEGE-O-GARD, 1-Naphthyl-N-methylcarbamate 5%, zineb 6%-FI-Woolfolk
7637 SECURITY BRAND WATERMELON DUST, 6% copper-F-Woolfolk
7638 SECURITY BRAND 10% Z-78 DUST, Zineb 6.5%-F-Woolfolk
7639 SECURITY BRAND 6% ZINEB-10% 3-D's TOMATO DUST, 10% TDE, 6% zineb-FI-Woolfolk
7639.50 SECURITY POISON, Calcium arsenate 56%-I-Woolfolk
7640 SEED-COAT, Methyl cellulose-A-Colloidal
7641 SEEDRIN LIQUID, Aldrin 4 lbs./gal.-ST-Chipman
7642 SEEDRIN W-50, Aldrin 50%-ST-Chipman
7643 SEEDRIN W-75, Aldrin 75%-ST-Chipman
7644 SELLOGEN HR, Alkyl naphthalene sulfonate 75% active powder, anionic, wetting agent for wettable powders-A-Nopco Chem.
7645 SEL-TOX, Phenylmercuric acetate 2.5% and 100%-H-Nott
7645.50 SEMESAN®, Hydroxymercurichlorophenol 28.6%-ST-F-DuPont (I & B)
7645.75 "SEMESAN BEL"® S, Hydroxymercurichlorophenol 3.8%, hydroxymercurinitrophenol 12.5%-ST-DuPont (I & B)
7647 SEMESAN® TURF FUNGICIDE, Hydroxymercurichlorophenol 25.3%-F-DuPont (I&B)
7648 SEMINOLE COPPER & SULPHUR MIXTURE NO. 1-FI-Fla. Agr. Supply
7649 SEMINOLE WETTABLE SULFUR-FI-Fla. Agr. Supply
7650 SEMINOLE Z-M-S 3-2-5 NUTRITIONAL MIXTURE, Nu-manese 9.5%, sulfur 45%, zinc 10.6%-N-Fla. Agr. Supply
7651 SENCO ARSENIC SOLN. 9 to 1, Arsenic trioxide 20%-R-Sennewald
7652 SENCO BIRD REPELLENT-ANR-Sennewald
7653 SENCO CHLORDANE OIL SOLUBLE CONC., Chlordane 20%, oil 80%-IC-Sennewald
7654 SENCO CUPS, PAPER, For liquid rodenticides-E-Sennewald
7655 SENCO EIGHT CONCENTRATE, Chlordane 75%, oil 17%-I-Sennewald
7656 SENCO MICROFINE ARSENIC POWDER, Arsenic trioxide 99%-R-Sennewald
7657 SENCO PHOSPHORUS PASTE, Phosphorus 2%-R-Sennewald
7659 SENCO 55% PLUS EMUL. CONC., Chlordane 55%, oil 25%-I-Sennewald
7660 SENCO POISON CANARY SEED, Strychnine sulfate 0.5%-R-Sennewald
7661 SENCO POISON GRAINS FOR BIRDS, Strychnine sulfate 1%-ANR-Sennewald
7663 SENCO SPECIAL POISON CANARY SEED, Strychnine sulfate 1%-R-Sennewald
7664 SENCO SPECIAL TERMITE CONTROL CONC., Chlordane 56%, oil 32%-I-Sennewald
7665 SENCO THALLIUM CANARY SEED, Thallium sulfate 1%-R-Sennewald
7666 SENCO THALLIUM CORN MIX, Thallium sulfate 2%-R-Sennewald
7667 SEQUESTRENE Na_2Cu COPPER CHELATE, 13% copper-N-Geigy
7668 SEQUESTRENE 138 FE IRON CHELATE, 6% iron-N-Geigy
7669 SEQUESTRENE 330 FE IRON CHELATE, Iron 10%-N-Geigy
7670 SEQUESTRENE NaFe IRON CHELATE, Iron 12%-N-Geigy
7671 SEQUESTRENE NaFe IRON CHELATE ON VERMICULITE, 5% iron-N-Geigy
7672 SEQUESTRENE Na_2Mn MANGANESE CHELATE,Manganese 12%-N-Geigy
7673 SEQUESTRENE Na_2Zn ZINC CHELATE, Zinc 14.2%-N-Geigy
7673.50 SEQUESTRENE® Zn 45 CHELATE GRANULES, Zinc 6.3%-H-Geigy

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7673.75 SERAFUME® Carbon bisulfide 10%, carbon tetrachloride 76.5%, ethylene dibromide 3.5%, ethylene dichloride 10%-IF-Dow
7675 SER-X HYDROUS ALUMINUM SILICATES, Grind 325 & 200 mesh-carrier-filler-D-Summit Ind.
SES OR SESONE = SODIUM 2,4-DICHLOROPHENOXY SULFATE
7677 SETRETE, Phenyl mercuric ammonium acetate 7%-ST-Cleary
7678 SETRETE-FORTIFIED, Ethyl mercuric acetate 1%, phenyl merc. acetate 5%-ST-Cleary
7679 SETRETE-MIST, Ethyl mercuric acetate 1.5%, phenyl mercuric acetate 2.25%-ST-Cleary
7680 SEVIN® AEROSOL GRADE (98%), Carbaryl-IC-Fairfield
7681 SEVIN® CARBARYL, 1-Naphthyl-N-methylcarbamate-IC-Union Carbide
7682 SEVIN® 50 PER CENT MANUFACTURING CONCENTRATE, Carbaryl (-naphthyl -N-methylcarbamate 50%)-IC, Union Carbide
7682.50 SEVIN® SPRAYABLE, Carbaryl (1-Naphthyl-N-methylcarbamate) 80%-I-Union Carbide
7682.60 SEVIN® 50W, Carbaryl (1-naphthyl-N-methylcarbamate) 50%-I-Union Carbide
7682.70 SEVIN® 85W, Carbaryl (1-naphthyl-N-methylcarbamate) 85%-I-Union Carbide
7683 SHED-A-LEAF, Sodium chlorate 40% (spray powder defoliant)-H-Chipman
7684 SHED-A-LEAF "D" (Cotton defoliating dust), Sodium chlorate 15% or 20%-H-Chipman
7685 SHED-A-LEAF "L", Sodium chlorate 18.5%-H-Chipman
7686 SHELL METHYL PARATHION 80%, O'O-Dimethyl O-p-nitrophenyl thiophosphate and 20% inert ingredients-IC-Shell
7687 SHERWIN-WILLIAMS ARSENATE OF CALCIUM-I-Sherwin-Williams
7688 SHERWIN-WILLIAMS ARSENATE OF LEAD-I-Sherwin-Williams
7689 SHERWIN-WILLIAMS BASIC COPPER ARSENATE-FI-Sherwin-Williams
7690 SHERWIN-WILLIAMS CHLORDANE 45% EMULSIFIABLE CONC.-I-Sherwin-Williams
7691 SHERWIN-WILLIAMS CHLORDANE 72% EMULSIFIABLE CONCENTRATE-I-Sherwin Williams
7692 SHERWIN-WILLIAMS CHLORDANE 40% WETTABLE POWDER-I-Sherwin-Williams
7693 SHERWIN-WILLIAMS DIELDRIN 18 EMULSIFIABLE CONC.-I-Sherwin-Williams
7694 SHERWIN-WILLIAMS DIELDRIN 50% W.P.-I-Sherwin-Williams
7695 SHERWIN-WILLIAMS ENDRIN 1.6 EMULSIFIABLE CONC.-I-Sherwin-Williams
7696 SHERWIN-WILLIAMS HEPTACHLOR 2E EMULSIFIABLE-I-Sherwin-Williams
7697 SHERWIN-WILLIAMS MALATHION 50% EMULSIFIABLE CONC.-I-Sherwin-Williams
7698 SHERWIN-WILLIAMS MALATHION 25% WETTABLE POWDER-I-Sherwin-Williams
7699 SHERWIN-WILLIAMS PARATHION 15% WETTABLE POWDER-I-Sherwin-Williams
7700 SHERWIN-WILLIAMS PARATHION 8-W FLOW CONCENTRATE-I-Sherwin-Williams
7701 SHERWIN-WILLIAMS PARIS GREEN, Copper aceto arsenite-I-Sherwin-Williams
7702 SHERWIN-WILLIAMS 42.5% SODIUM ARSENATE SOLN.-H-Sherwin-Williams
7703 SHERWIN-WILLIAMS 56% SODIUM ARSENITE SOLN.-H-Sherwin-Williams
7704 SHERWIN-WILLIAMS 65% SODIUM ARSENITE SOLN.-H-Sherwin-Williams
7705 SHERWIN-WILLIAMS 72% SODIUM ARSENITE SOLN.-H-Sherwin-Williams
7706 SHERWIN-WILLIAMS SUPER KILLEX (40% TEPP)-I-Sherwin-Williams
7707 SHERWIN-WILLIAMS TDE 25% EMUL. CONC.-I-Sherwin-Williams
7708 SHERWIN-WILLIAMS TDE 50% WETTABLE POWDER-I-Sherwin-Williams
7709 SHERWIN-WILLIAMS ZINC SULFATE-F-A-Sherwin-Williams
7710 SHIELD NON-TOXIC INSECT KILLER, Oil 15.5%, piperonyl butoxide 4%, pyrethrins 0.5%-I-Shield
7711 SILIKIL PYRETHRINS, Pyrethrins, silica aerogel-I-Penick
7713 SILIKIL SILICA AEROGEL-I-Penick
7714 SILVACON 490, Diluent and carrier for pesticides-D-Weyerhaeuser
SILVEX = 2-(2,4,5-TRICHLOROPHENOXY) PROPIONIC ACID
SILMAZINE = 2-CHLORO-4, 6-BIS-(ETHYLAMINO)-S-TRIAZINE
7714.50 SILVI-RHAP® LOW VOLATILE 4TP, 4 lbs. silvex acid equiv. per gal. 2-ethyl hexyl ester, low volatile-H-Hercules
7715 SIMPLEX ACCESSORIES & PARTS FOR AERIAL SPRAY EQUIPMENT-E-Columbia Exporters
7716 SIMPLEX AERIAL SPRAY PUMPS-E-Columbia Exporters
7717 SIMPLEX DUMP VALVES (SECTIONAL DESIGN)-E-Columbia Exporters
7718 SIMPLEX HELICOPTER DIRECT DRIVE SPRAY SYSTEMS-E-Columbia Exporters

Here's why SEVIN®
CARBARYL INSECTICIDE

pays more ways!

1 **Powerful protection** against fruit insects with fewer sprays. Ideal control of codling moth, leaf rollers, San Jose scale, apple rust mite, oriental fruit moth, and many other pests. Consistent thinner for apples when used in early cover sprays.

2 **Controls 150 different insect pests** of 85 different crops, including cotton, vegetables, tobacco, corn, sorghum and rice.

3 **Safer to use** than many other insecticides. No special protective clothing needed. Reduces drift hazards.

See your SEVIN Supplier Now!

UNION CARBIDE
UNION CARBIDE CORPORATION
CHEMICALS DIVISION
270 PARK AVENUE, NEW YORK, N. Y. 10017

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7719 SIMPLEX STREAMLINED BOOMS, NOZZLES AND FITTINGS-E-Columbia Exporters
7720 SIMPLEX SYNCHRONIZED VARIABLE PITCH FAN & BRAKE UNITS-E Columbia Exporter
7721 SIMUL-CASTER, (Granular pesticide applicator)-E-Noble
7722 SINOX®, Sdium dinitro-ortho-cresylate 30% H-Niagara Chem.
7723 SINOX® G-100, Alkanolamine salts (ethanol and isopropanol series) of 4,6-dinitro-o-sec-butylphenol 16.5%-H-Niagara Chem.
7724 SINOX® GENERAL, Dinitro-o-sec-butyl phenol 55%-H-Niagara Chem.
7725 SINOX® P.E., Triethanolamine salt of dinitro-o-sec-butyl phenol 57%-H-Niagara Chem.
7726 SINOX® W, Ammonium dinitro-o-sec-butyl-phenate 13%-H-Niagara Chem.
7727 SIX ROOST PAINT, Gamma BHC 1.25%, other isomers 1.25%, oil 97.5%-I-Hess & Clark
7728 SLA-RAT, Warfarin-R-Nott
7729 SLUGEM BAIT, Metaldehydre 5%-IB-Destruxol
7730 SLUG EM LIQUID Metadehydre 25%-I-Destruxol
7731 SLUG-KILL, Metaldehyde 15%-IB-Plant Prods.
7732 SMCP ALDRIN EM-4, 4# Aldrin-I-Southern Mill Creek
7733 SMCP AQUAHERB 100, 25% Trichlorobenzene, polychlorinated benzene 72.5%, 2.5% alkylaryl polyether alcohol-H-Southern Mill Creek
7734 SMCP BHC EM-1, 1# BHC-I-Southern Mill Creek
7735 SMCP BHC EM-1.9, 1.9# BHC-I-Southern Mill Creek
7736 SMCP CHLORDANE EM-4, 4# Chlordane-I-Southern Mill Creek
7737 SMCP CHLORDANE EM-8, 8# Chlordane-I-Southern Mill Creek
7738 SMCP 5% CHLORDANE DUST-I-Southern Mill Creek
7739 SMCP 10% CHLORDANE DUST, 10% Chlordane-I-Southern Mill Creek
7740 SMCP CHLORDANE 20% SOLUTION-I-Southern Mill Creek
7741 SMCP CONCENTRATE AMINE, 6# 2,4-D acid-H-Southern Mill Creek
7742 SMCP DEL-TIC, 25% 2,3-p-Dioxane S,S-bis (O,O-diethyl phosphorothioate) -I-Southern Mill Creek
7743 SMCP DIELDRIN EM 1.5, 1.5# dieldrin-I-Southern Mill Creek
7744 SMCP DDT EM-2, 2# DDT-I-Southern Mill Creek
7745 SMCP DDT EM-3, 3# DDT-I-Southern Mill Creek
7746 SMCP ELECTRIC TERMITE PUMP MODEL 102-E-Southern Mill Creek
7747 SMCP EMULSIFIABLE 10-1 PYRENONE®, 11.81% Piperonyl butoxide, 1.18% pyrethrins-I-Southern Mill Creek
7748 SMCP FISH TOX PLUS, 5% Rotenone-I-Southern Mill Creek
7749 SMCP FLY DIE FLY BAIT, 0.5% DDVP-IB-Southern Mill Creek
7750 SMCP GAS TERMITE PUMP BIG TWIN MODEL 109-Southern Mill Creek
7751 SMCP GAS TERMITE PUMP MODEL 103,-E-Southern Mill Creek
7752 SMCP GRADE AA CONTACT, Butoxypolypropylene glycol, ethylene glycol, ether of pinene, hydrogenated rotenone, piperonyl butoxide, pyrethrins, rotenoids-I-Southern Mill Creek
7753 SMCP HEPTACHLOR EM-3, 3# Heptachlor-I-Southern Mill Creek
7754 SMCP LETHANE 384® INSECTICIDE CONCENTRATE, 53% Beta butoxy, beta-thiocyano diethyl ether-I-Southern Mill Creek
7755 SMCP M/L CONCENTRATE, 44.70% malathion, 9.80% organic thiocyanates-I-Southern Mill Creek
7756 SMCP 25% MALATHION, 25% Malathion-I-Southern Mill Creek
7757 SMCP MALATHION EMULSIFIABLE CONCENTRATE, 50% malathion-I-Southern Mill Creek
7758 SMCP MALATHION 5 DUST, 5% malathion-I-Southern Mill Creek
7759 SMCP MALATHION E-5, 5# Malathion-I-Southern Mill Creek
7760 SMCP MALATHION SOLUTION 90, 9# malathion-I-Southern Mill Creek
7761 SMCP MILL-GAM LIVESTOCK SPRAY CONCENTRATE, 45% toxaphene, 1.8% lindane-I-Southern Mill Creek
7762 SMCP MILL-TOX LIVESTOCK SPRAY CONCENTRATE, 62% toxaphene-I-Southern Mill Creek
7763 SMCP NEMAGON® SOIL FUMIGANT EC 2, 8.6# 1,2-Dibromo-3-chloropropane-IF-Southern Mill Creek
7764 SMCP OUTDOOR FOG INSECTICIDE, 1.40% Beta butoxy, beta-thiocyano diethyl ether, 3% malathion-I-Southern Mill Creek
7765 SMCP 10-1 PENTA, 41% Pentachlorophenol-I-WP-Southern Mill Creek
7766 SMCP PYRETHRUM DUST 100, Pyrethrins 1%-I-Southern Mill Creek
7767 SMCP PYRETHRUM DUST CONCENTRATE NO. 6-6, 6% Piperonyl butoxide, 0.6% pyrethrins-I-Southern Mill Creek
7768 SMCP PYRETHRUM EXTRACT 20 ODORLESS, 2% Pyrethrins-I-Southern Mill Creek

There are more than 500 agricultural uses for Shell pesticides. Check and mail this coupon to learn more about them.

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Advertising Department,
110 West 51st St., N.Y. 20, N.Y.

Gentlemen: Please send me the following information:

CORN AND COTTON:
- ☐ SC: 60-22 Endrin for Corn Borer.
- ☐ SC: 61-104 Cutworm control on corn.
- ☐ ACD: 63-1R Increase corn yields with aldrin.
- ☐ ACD: 63-13 Nemagon® Soil Fumigant increases cotton yields.
- ☐ SC: 60-32 Fertilize, fumigate and plant all in one operation.
- ☐ ACD: 63-9 Cotton Insect control: Endrin-Methyl Parathion.
- ☐ ACD: 64-15 Bidrin® Insecticide for cotton insects.
- ☐ ACD: 64-8 Compound 4072 gets Corn Rootworms — boosts corn yields.

FIELD CROPS AND FORAGE:
- ☐ SC: 60-3 Stop Nematodes on Sugar Beets: D-D® Soil Fumigant.
- ☐ SC: 60-8 Boosts sugar beet profits: Endrin.
- ☐ SC: 59-84 Phosdrin® Insecticide for alfalfa pests.
- ☐ SC: 62-138 Dieldrin for alfalfa insects.

FRUITS AND VEGETABLES:
- ☐ SC: 60-42 Insect and nematode control on strawberries.
- ☐ SC: 60-98 Control citrus nematode: Nemagon® Soil Fumigant.
- ☐ SC: 60-55 Control Red-Banded Leaf Roller: Endrin.
- ☐ SC: 60-61 Control Red-Banded Leaf Roller: Phosdrin® Insecticide.
- ☐ SC: 60-86 Control Peach Tree Borer: Dieldrin.
- ☐ ACD: 63-5 Dieldrin for control of Plum Curculio.
- ☐ SC:57-2 Kill Nematodes attacking vegetables with D-D® soil fumigant.
- ☐ SC: 61-127 Control Drosophila Fly on tomatoes with aldrin.
- ☐ SC: 62-76 Cutworm control on vegetables with dieldrin.

SMALL GRAINS AND TOBACCO:
- ☐ SC: 62-82 Grasshopper control.
- ☐ SC: 60-40 Aldrin for Rice Soil Insects.
- ☐ SC: 61-128 Control Tobacco Insects with endrin.
- ☐ SC: 62-75 Control Tobacco Insects with Endrin-Methyl Parathion.

LIVESTOCK:
- ☐ ACD: 64-16 Livestock fly Identification Chart. Ciodrin® Insecticide—Vapona® Insecticide.
- ☐ ACD: 63-22 Ciodrin® Insecticide for flies on dairy cows.
- ☐ ACD: 63-23 Vapona® Insecticide for flies in feedlots.
- ☐ ACD: 64-9 Vapona® Insecticide resin strips in milkrooms.
- ☐ ACD: 64-6 Ciodrin® Insecticide for backrubbers.
- ☐ ACD: 64-5 Ciodrin®-Vapona® Insecticide combination spray for complete 24-hour dairy fly control.

GENERAL:
- ☐ SC: 61-10 Stop Nematodes with Nemagon® Soil Fumigant.
- ☐ SC: 62-141 Vapona® Insecticide Greenhouse ornamentals.
- ☐ ACD: 63-4 Termites can wreck your home.
- ☐ ACD: 64-13 Vapona® Insecticide resin strips for home and industry.

Name _____

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City _____ State _____

Shell Chemical Company

SHELL

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7769 SMCP RESIDUAL INSECTICIDE, Lindane methoxychlor-I-Southern Mill Creek
7770 SMCP ROACH SPRAY CONCENTRATE, 7.5% Piperonyl butoxide, 1.5% pyrethrins-I-Southern Mill Creek
7771 SMCP S-20, 20% DDT I-Southern Mill Creek
7772 SMCP 42½ SODIUM ARSENITE SOLUTION, 42 Arsenic trioxide-H-Southern Mill Creek
7773 SMCP SOUTHERNS COMFORT INSECT REPELLENT, 15% Deet-IR-Southern Mill Creek
7774 SMCP SPECIAL 2,4-D AMINE, 3#, 2,4-D Acid equivalent-H-Southern Mill Creek
7775 SMCP SPECIAL BLEND MOSQUITO FOG INSECTICIDE #402, 1,1-Dichloro-2-2-bis-(P-ethylphenyl) ethane, pine oil, piperonyl butoxide, pyrethrins, hydrogenated rotenone-I-Southern Mill Creek
7776 SMCP SPECIAL ESTER LVD & T, 2# 2,4-D Acid and 2# 2,4,5-T acid-H-Southern Mill Creek
7777 SMCP SPECIAL MILL SPRAY CONCENTRATE, Ethylene glycol ether of pinene, isothymoxy chloroethyl ether, methylated naphthalenes, pine oil, piperonyl butoxide, pyrethrins, rotenone-I-Southern Mill Creek
7778 SMCP SPECIAL RESIDUAL INSECTICIDE, 0.5% O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl), phosphorothioate, 0.052% pyrethrins, 0.261% piperonyl butoxide-I-Southern Mill Creek
7779 SMCP STANDARD AMINE & BRUSH KILLER, 4# 2,4,5-T Acid-H-Southern Mill Creek
7780 SMCP STANDARD 2,4-D AMINE, 4# 2,4-D Acid H-Southern Mill Creek
7781 SMCP STANDARD LV-T ESTER BRUSH KILLER, 4#, 2,4,5-T Acid-H-Southern Mill Creek
7782 SMCP SWINGFOG-E-Southern Mill Creek
7783 SMCP THANITE® EMULSIFIABLE CONCENTRATE, 57.4% Isobornyl thiocyanoacetate, 12.6% other related terpenes-I-Southern Mill Creek
7784 SMCP VAPONA® EM-2, 2# DDVP-I-Southern Mill Creek
7785 SMCP WAREHOUSE FOG INSECTICIDE, Butoxypolypropylene glycol, ethylene glycol ether of pinene, piperonyl butoxide, pyrethrins, hydrogenated rotenone-I-Southern Mill Creek
7786 SMEARON EQ-335 SCREW WORM REMEDY, Lindane 3%, oil 42%, pine oil 35%-IR-Crown Prod.
7787 SMEARON SMEAR NO. 62 SCREW WORM KILLER, Benzene 35%, diphenylamine 35%, turkey oil 10%-IR-Crown Prod.
7788 SMITH BANNER SPRAYER, Compressed air-E-D. B. Smith
7789 SMITH BIG BOY HAND SPRAYER-E-D. B. Smith
7790 SMITH BLIZZARD SPRAYER-E-D. B. Smith
7791 SMITH BUCKET SPRAY PUMP-E-D. B. Smith
7792 SMITH CCC SPRAY PUMP-E-D. B. Smith
7793 SMITH 39-D BROADWAY DUSTER-E-D. B. Smith
7794 SMITH 16-D DUST KING DUSTER-E-D. B. Smith
7795 SMITH 44-D GIANT DUSTER-E-D. B. Smith
7796 SMITH DDT SPRAYER, Compressed air-E-D. B. Smith
7797 SMITH DUSTMASTER DUSTER-E-D. B. Smith
7798 SMITH E-Z KNAPSACK SPRAYER-E-D. B. Smith
7799 SMITH FLAME GUN-E-D. B. Smith
7800 SMITH GARDEN KING POWER SPRAYER-E-D. B. Smith
7801 SMITH HANDY DUSTER-E-D. B. Smith
7801.50 SMITH INDIAN BACK-PACK PORTABLE FIRE PUMPS-E-D. B. Smith
7802 SMITH JUSTRITE SPRAYER, Compressed air-E-D. B. Smith
7803 SMITH KNAPSACK SPRAYER-E-D. B. Smith
7804 SMITH LIGHTNING SPRAYER, Compressed air-E-D. B. Smith
7805 SMITH OPEN TOP SPRAYER, Compressed air-E-D. B. Smith
7806 SMITH RITESIZE SPRAYER, Compressed air-E-D. B. Smith
7807 SMITH ROCKET SPRAYER, Compressed air-E-D. B. Smith
7808 SMITH SAVOL HAND SPRAYER-E-D. B. Smith
7809 SMITH SPEEDEX SPRAY PUMP-E-D. B. Smith
7810 SMITH SPRAYMASTER, Handwheel sprayer-E-D. B. Smith
7811 SMITH TOM THUMB SPRAYER, Compressed air-E-D. B. Smith
7812 SMITH UTK NO. 10 CONTINUOUS SPRAYER-E-D. B. Smith
7813 SMITH WHEELBARROW SPRAYER-E-D. B. Smith
7814 SMITH YORKTOWN SPRAYER, Compressed air E-D. B. Smith
7815 SMO-CLOUD BUG KILLER, Methoxychlor 10.2%-I-Cont. Chem.
7816 SMO-CLOUD LINDANE BUG KILLER, Lindane 10.2%-I-Cont. Chem.
7817 SNAROL MEAL, Metaldehyde 1.75%, trichalcium arsenate 5%-IB-Boyle-Midway
7818 SNAROL PELLETS, Metaldehyde 3.15%, tricalcium arsenate 5%-IB-Boyle-Midway

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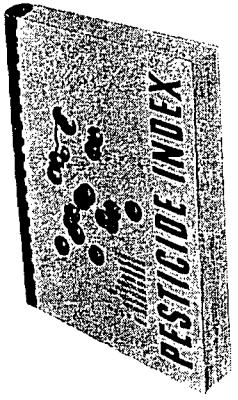

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7819 SNOWFLAKE MOTH SPRAY, Benzol, chloroethene, paradichlorobenzene-I-Uncle Sam
7820 SODAM, Sodium dimethyldithiocarbamate 25%-F-Wood Ridge
SODAR=METHANEARSONIC ACID, SODIUM SALT
7821 SODITE ARSENICAL POISON, Arsenic trioxide 32%-I-Calif. Chem.
SODIUM FLUOALUMINATE = CRYOLITE
SODIUM FLUOROACETATE = 1080
1080 = SODIUM FLUOROACETATE
7822 SODIUM FLUORIDE, Sylvan
7825 SOLE-MULSE TA (EMULSIFIER), Ethoxylated and sulfonated derivatives 100%-A-Sole Chem.
7826 SOLE-MULSE TB (EMULSIFIER), Ethoxylated and sulfonated derivatives 100%-A-Sole Chem.
7827 SOLE-MULSES TA & TB, (Anionic-nonionic blends) Pesticide emulsifiers-A-Sole Chemical
7828 SOLE-ONIC CDS (Diglycol laurate-S. E.) Defoamer-A-Sole Chemical
7829 SOLE-ONIC CDS (WETTABLE POWDER DEFOAMER), Diglycol laurate 100%-A-Sole Chem.
7829.50 SOLE-ONIC PGO (Oleic glyceride ester), Wetter-sticker, also aerosol emulsifier stabilizer-A-Sole Chem.
7832 SOLEXTO, Chlordane-I-Dolge
7833 SOLFARIN, 0.14% Warfarin-R-Woodbury
7834 SOLO ALL PLASTIC HANDSPRAYER-E-Solo Industries, Inc.
7835 SOLO POWER-DRIVEN KNAPSACK SPRAYER DUSTER-E-Solo Industries, Inc.
7836 SOLTROL® 170, Odorless isoparaffinic & carrier oil D-Phillips
7837 444 SOLVENT FREE LIQUID GRAIN PROTECTANT, Oil 14%, piperonyl butoxide 60%, pyrethrins 6%-I-Chem. Spec. Corp.
7838 SOLVIT INDUSTRIAL AEROSOL BOMBS, Oil piperonyl butoxide, pyrethrins-IA-Solvit
7838.50 SOLVIT PROFESSIONAL RAT & MOUSE KILLER Pindone 0.025%-R-Solvit
7838.60 SOLVIT RESIDUAL INISECT SPRAY, Chlordane 2%, DDT 4%, oil 94%-I-Solvit
7838.70 SOLVIT SUPER FOG, Oil, organic thiocyanates-I-Solvit
7839 SOVASOL NO. 5, Petroleum naphtha 100% H-Socony-Mobil
7841 SPARTAN POWER SPRAYER-E-John Bean
7842 SPECIAL GULFSPRAY, Oil 99.55%, piperonyl butoxide 0.2%, pyrethrins 0.25%-I-Gulf
7843 SPECIAL OUTDOOR FLY-TOX, Oil 99.545%, piperonyl butoxide 0.375%, pyrethrins 0.08%-I-Rex
7844 SPECIAL OUTDOOR FOGGING CONC., 7% Gamma BHC, 40.5% methylated naphthalenes, 14% oil, 28% organic thiocyanates-I-Lorenz
7845 SPECIAL TERMITE FLUID, Orthodichlorobenzene 100%-IF-Uncle Sam
7846 SPEED SPRAYER, Air-type orchard sprayer-E-John Bean
7847 SPEEDAIRE SPRAYER, Air-type conversion type E-John Bean
7848 SPEEKMAN ALGESEPT, Di-isobutylphenoxyethyl dimethyl benzyl ammonium chloride monohydrate 10%-F-Speekman
7849 SPEEKMAN ALGETOX, Sodium pentachlorophenate 15%-F-Speekman
7850 SPEEKMAN AQUAFLO, Emulsifiable chlorinated benzenes 100%-F-Speekman
7852 SPEEKMAN AQUASEPT, Copper disodium ethylenediamine tetra-acetate 21.9%-F-Speekman
7852.50 SPEEKMAN "CLORO-T", Chloramine-T-16%-F-Speekman
7852.60 SPEEKMAN "CLOROFOS", Chlorinated Tri-Sodium Phosphate-F-Speekman
7852.70 SPEEKMAN "CLOROZENE," Emulsifiable Chlorinated Benzenes—83%-F-Speekman
7853 SPEEKMAN CREOSOTE, Coal tar neutral oils 97%-WP-Speekman
7857 SPEEKMAN DETH-BAIT (RODENTICIDE), Warfarin-R-Speekman
7858 SPEEKMAN DUROTOX (WOOD PRESERVATIVE), Pentachlorophenol 36%, other chlorophenols 4%-WP-Speekman
7859 SPEEKMAN FUMIGAS (FUMIGANT), Ethylene dichloride 70%, carbon tetrachloride 30%-IF-Speekman
7861 SPEEKMAN INDUSTRIAL SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Speekman
7862 SPEEKMAN MULTISEPT, Methyldodecylbenzyl trimethyl ammonium chloride 50%-F-Speekman
7863 SPEEKMAN NAPTOX (WOOD PRESERVATIVE), Copper naphthenate 20%-WP-Speekman
7864 SPEEKMAN NEOSEPT, Methyldodecybenzyl trimethyl ammonium chloride 10.25%-F-Speekman
7864.50 SPEEKMAN "PACKERS SPRAY," 2% Piperonyl Butoxide, 0.2% pyrethrin-I-Speekman
7865 SPEEKMAN PERMITE, Pentachlorophenol 1.5%-WP-Speekman
7866 SPEEKMAN PINEX, Pine oil, soap-F-Speekman

7867 SPEEKMAN PYRECIDE, Oils 93.4%, piperonyl butoxide 5.92%, polyoxyethylene pyrethrins 0.59%-I-Speekman
7870 SPEEKMAN PYROTOX SPRAY, Piperonyl butoxide 28%, pyrethrins 2.8%, oil 69.2%-I-Speekman
7873 SPEEKMAN STEROSEPT, n-Alkyl dimethyl benzyl ammonium chlorides 10.25%-F-Speekman
7874 SPEEKMAN "TERGISEPT", 2,2-Methylenebis (3,4,6-trichlorophenol) 2.5%-F-Speekman
7875 SPERGON®, Chloranil 96%-ST-U. S. Rubber (Naugatuck)
7876 SPERGON®-DDT, Chloranil 93%, DDT 3%-ST-U. S. Rubber (Naugatuck)
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7878 SPERGON® GLADIOLUS DUST, Chloranil 50%, DDT 3%-ST-U. S. Rubber (Naugatuck)
7879 SPERGON®-SL, Chloranil 95%-ST-U. S. Rubber (Naugatuck)
7879.50 SPERGON® SOYBEAN SEED PROTECTANT, Chloranil 50%-ST-U. S. Rubber (Naugatuck)
7880 SPERGON® WETTABLE, Chloranil 48%-F-ST-U. S. Rubber (Naugatuck)
7881 SPIX AEROSOL, Piperonyl butoxide, pyrethrins-I-Dolge
7882 SPOTRETE, Thiram 75%-F-Cleary
7883 SPRALASTIC, (Spreader, deposit builder)-A-Sherwin-Williams
7884 SPRAY-R-KITS, Kit for building power weed and insecticide sprayers-E-S. C. Labs
7885 SPRAY-TROL BRAND ALL-TROL, Oil, malathion, lindane, piperonyl butoxide, pyrethrins, terpene polychlorinates, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate-I-Coyne
7886 SPRAY-TROL BRAND CONCEN-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7887 SPRAY-TROL BRAND CONTAC-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7888 SPRAY-TROL BRAND CON-TROL, Lindane 25%-I-Coyne
7889 SPRAY-TROL BRAND FLY-TROL, Oil, lethane-I-Coyne
7890 SPRAY-TROL BRAND FUMI-TROL, Carbon tetrachloride, ethylene dichloride-IF-Coyne
7891 SPRAY-TROL BRAND INSEC-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7892 SPRAY-TROL BRAND MALA-TROL, Malathion, oil-I-Coyne
7893 SPRAY-TROL BRAND MOTH-TROL, DDT, oil, TDE-I-Coyne
7894 SPRAY-TROL BRAND PARA-TROL, Paradichlorobenzene-IF-Coyne
7895 SPRAY-TROL BRAND PYR-EMULSA-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7896 SPRAY-TROL BRAND QUIK-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7897 SPRAY-TROL BRAND RESIDU-TROL, DDT, chlordane, oil-I-Coyne
7898 SPRAY-TROL BRAND RODEN-TROL, Warfarin 0.5%-R-Coyne
7899 SPRAY-TROL BRAND SUPER-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7900 SPRAY-TROL BRAND SURE-TROL, Oil, piperonyl butoxide, pyrethrins-I-Coyne
7901 SPRAY-TROL BRAND TOXI-TROL, Oil, methoxychlor, lindane-I-Coyne
7902 SPREADER STICKER, Alkylaryl polyoxy glycols-A-Destruxol
7903 SPREADHESIT, Sticking agent-A-Fla. Agr. Supply
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7909 STABILENE® FLY REPELLENT, Butoxypolypropylene glycol 100%-IR-Union Carbide
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7911 STANDARD AIR FLOAT, Kaolin carrier, Georgia Kaolin
7912 STAOFF EMULSION, Alcohol, resin-ANR-Niagara Hort
7913 STAPLES 25% DDT EMULSION CONCENTRATE-I-Staples
7914 STAPLES DOUBLE STRENGTH VINE KILLER NO. 8 (66% sodium arsenite)-H-Staples
7915 STAPLES 50% MALATHION EMULSION CONCENTRATE-I-Staples
7916 STAPLES 25% PARATHION EMULSION CONCENTRATE-I-Staples
7917 STAPLES VINE KILLER (40% sodium arsenite)-H-Staples
7918 STARBAR LINTOX-D LIVESTOCK SPRAY AND DIP, 2,3-*p*-Dioxane, S,S-bis (O,O-diethyl phosphorodithioate) 15%-I-Agr. Spec.
7919 STARBAR LINTOX-D SCREW WORM AND EAR TICK BOMB, 2,3-*p*-Dioxane S,S-bis (O,O-diethyl phosphorodithioate 15%)-IA-Agr. Spec.
7920 STARBAR LINTOX LIVESTOCK SPRAY & DIP, W.P., Lindane 1%, toxaphene 45%-I-Agr. Spec.

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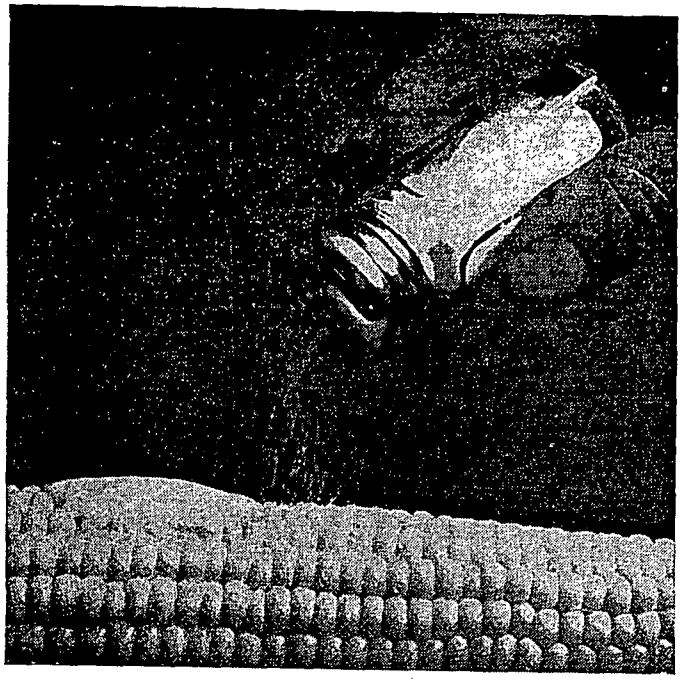
7921 STARBAR LINTOX-M LIVESTOCK SPRAY, Malathion 4.3%, oil 42.7%, toxaphene 43%-I-Agr. Spec.
7922 STARBAR LINTOX-X LIVESTOCK SPRAY AND DIP, Oil 26%, toxaphene 62%-I-Agr. Spec.
7923 STARBAR M & M DAIRY, LIVESTOCK & POULTRY DUST, Malathion 4%, methoxychlor 5%-I-Agr. Spec.
7924 STARBAR POULTONE POULTRY INSECTICIDE, Malathion 30%-I-Agr. Spec.
7925 STARBAR REDI-FOAM FACE FLY BOMB, Butoxypolypropylene glycol 5%, oil 50%, piperonyl butoxide 1%, pyrethrins 0.1%-IA-Agr. Spec.
7926 STARBAR REDI-MIST DAIRY LIVESTOCK SPRAY, Butoxypolypropylene glycol 5%, pine oil 0.5%, piperonyl butoxide 1%, pyrethrins 0.1%-I-Agr. Spec.
7927 STARBAR ROTENONE-LINDANE GRUB KILLER, Lindane 1.3%, pine oil 25%, rotenone & rotenoids 10.47%-I-Agr. Spec.
7928 STARBAR SIMAX DAIRY LIVESTOCK SPRAY WITH CIODRIN®, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy)-*cis*-crotonate 14.4%-I-Agric. Spec.
7929 STARBAR SLICK SPREADER-STICKER-A-Agr. Spec.
7930 STARBAR STRIKE "INSTANT FLY SYRUP", DDVP 0.2%-IB-Agr. Spec.
7931 STARBAR TRAX RAT AND MOUSE BAIT, Coumafuryl 0.025%-R-Agr. Spec.
7932 STARBAR TRIX DOG & CAT POWDER, Chloranil, 1-Naphthyl-N-methylcarbamate-FI-Agr. Spec.
7933 STAUFFER ACRITET 34-66®FUMIGANT, Acrylontrile 34%, carbon tetrachloride 66%-IF-Stauffer
7934 STAUFFER AGRICULTURAL FERRIC SULFATE, Iron 21%-SC-Stauffer
7935 STAUFFER ALANAP®-3, Sodium salt of N-1-naphthyl phthalamic acid 22%-H-Stauffer
7936 STAUFFER ALDRIN-DDT 2.55, Aldrin 2.5%, DDT 5%-I-Stauffer
7937 STAUFFER ALDRIN-DDT 1-2E (LIQUID), Aldrin 1 lb./gal., DDT 2 lbs./gal.-I-Stauffer
7938 STAUFFER ALDRIN 5 DUST, Aldrin 5%-I-Stauffer
7939 STAUFFER ALDRIN 25 DUST BASE, Aldrin 25%-IC-Stauffer
7940 STAUFFER ALDRIN 2-E (LIQUID), Aldrin 2 lbs./gal.-I-Stauffer
7940.50 STAUFFER ALDRIN 4-E, (4 lb./gal.)-I-Stauffer
7940.60 STAUFFER ALDRIN 5-G, (5% Granular)-I-Stauffer
7940.70 STAUFFER ALDRIN 10-G, (10% Granular)-I-Stauffer
7941 STAUFFER ALDRIN 20 GRANULAR, Aldrin 20%-I-Stauffer
7941.50 STAUFFER ALDRIN 25-G, (25% Granular)-I-Stauffer
7942 STAUFFER ALDRIN 25-W, Aldrin 25%-I-Stauffer
7942.50 STAUFFER ALDRIN 50-W (50% Wettable)-I-Stauffer
7943 STAUFFER ARAMITE® 3 DUST, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 3%-I-Stauffer
7944 STAUFFER ARAMITE® 30 DUST BASE, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite 30%-I-Stauffer
7945 STAUFFER ARAMITE® 2-E (LIQUID), 2-(*p-tert*-Butylphenoxy), isopropyl 2'-chloroethyl sulfite 2 lb./gal.-I-Stauffer
7946 STAUFFER ARAMITE® 15-W, 2-(*p-tert*-Butylphenoxy) isopropyl-2'chloroethyl sulfite 15%-I-Stauffer
7947 STAUFFER ASP-51®, Tetra-n-propyl dithiono-pyrophosphate-I-Stauffer
7947.50 STAUFFER ASPON 6-E, Tetra-*n*-propyl dithionopyrophosphate 66.6%, aromatic solvent-I-Stauffer
7948 STAFFER BHC-DDT 2-10 DUST, Gamma BHC 2%, DDT 10%-I-Stauffer
7949 STAUFFER BHC-DDT 3-5 DUST, Gamma BHC 3%, DDT 5%-I-Stauffer
7950 STAUFFER BHC-DDT .9-1.5E (LIQUID), Gamma BHC 0.9 lb./gal., DDT 1.5 lb./gal.-I-Stauffer
7951 STAUFFER BHC-DDT SULFUR 3-5-40 DUST, Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Stauffer
7952 STAUFFER BHC 2 DUST, Gamma BHC 2%-I-Stauffer
7953 STAUFFER BHC 12 DUST BASE, Gamma BHC 12%-IC-Stauffer
7954 STAUFFER BHC 18 DUST BASE, Gamma BHC 18%-IC-Stauffer
7955 STAUFFER BHC 1-E (LIQUID), Gamma BHC 1 lb./gal.-I-Stauffer
7957 STAUFFER BHC 26 TECH., Gamma BHC 24%-IC-Stauffer
7958 STAUFFER BHC 40 TECH., Gamma BHC 40%-IC-Stauffer
7959 STAUFFER BHC 12-W, Gamma BHC 12%-I-Stauffer
7959.50 STAUFFER BIDRIN® 75, 3-(Dimethoxyphosphinyloxy) N,N-dimethyl cis-crotonate-I-Stauffer
7960 STAUFFER CAPTAN-DDT 75-3, Captan 75%, DDT 3%-ST-Stauffer
7961 STAUFFER CAPTAN-DIELDRIN 60-15 SEED PROTECTANT, Captan 60%, dieldrin 15%-ST-Stauffer
7962 STAUFFER CAPTAN-DIELDRIN 75-3 SEED PROTECTANT, Captan 75%, dieldrin 3%-ST-Stauffer



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The development of a new pesticide is a slow, expensive process. It requires hundreds of laboratory and field tests, but out of this work comes knowledge on exactly how the material should be used.

So remember . . . for better results, for more economical pest control, for greater personal and crop safety . . . always read and heed label instructions.

Stauffer Chemical Company, 380 Madison Avenue, New York 17, N.Y. Sales and service offices throughout the country.

Stauffer CHEMICALS

958870216

7963 STAUFFER CAPTAN 7.5 DUST, Captan 7.5%-F-Stauffer
7964 STAUFFER CAPTAN 90% DUST BASE-F-Stauffer
7965 STAUFFER CAPTAN-MALATHION 75-1.5, Captan 75%, malathion 1.5%-ST Stauffer
7966 STAUFFER CAPTAN 75 SEED PROTECTANT, Captan 75%-ST-Stauffer
7967 STAUFFER CAPTAN 7.5%-SEVIN® DUST, Captan, carbaryl-FI-Stauffer
7967.50 STAUFFER CAPTAN 80 SPRAY DIP-F-Stauffer
7967.60 STAUFFER CAPTAN-TERRACHLOR SEED TREATMENT 10-10 ST, Captan 10%, pentachloronitrobenzene 10%-ST-Stauffer
7967.70 STAUFFER CAPTAN-TRITHION 7.5-10 G, Captan 7.5%, carbophenothion 10% granular-FI-Stauffer
7968 STAUFFER CAPTAN 50W, Captan 50%-F-Stauffer
7968.50 STAUFFER CAPTAN 80-W, (80% Wettable)-F-Stauffer
7968.60 STAUFFER CARBON BISULFIDE-IF-Stauffer
7968.70 STAUFFER CARBON TETRACHLORIDE-IF-Stauffer
7969 STAUFFER CHLORDANE 5 DUST, Chlordane 5%-I-Stauffer
7970 STAUFFER CHLORDANE 40 DUST BASE, Chlordane 40%-IC-Stauffer
7971 STAUFFER CHLORDANE 4-E (LIQUID), Chlordane 4 lb./gal.-I-Stauffer
7972 STAUFFER CHLORDANE 8-E (LIQUID), Chlordane 8 lb./gal.-I-Stauffer
7973 STAUFFER CHLORDANE 8-OS (OIL SOLN.), Chlordane 8 lb./gal.-I-Stauffer
7974 STAUFFER CHLORDANE 40-W, Chlordane 40%-I-Stauffer
7974.50 STAUFFER 2,4-D AMINE-H-Stauffer
7974.75 STAUFFER 2,4-DB AMINE, 4-(2,4-Dichlorophenoxy) butyric acid-H-Stauffer
7975 STAUFFER 2,4-D BUTYL ESTER 2.65-E, 2,4-D acid 2.65 lbs./gal.-H-Stauffer
7976 STAUFFER 2,4-D BUTYL ESTER 4-E, 2,4-D acid 4 lbs./gal.-H-Stauffer
7977 STAUFFER 2,4-D BUTYL ESTER 6, 2,4-D acid 6 lbs./gal.-H-Stauffer
7978 STAUFFER 2,4-D BUTYL ESTER 6-E, 2,4-D acid 6 lbs./gal.-H-Stauffer
7979 STAUFFER 2,4-D DIMETHYLAMINE 4, 2,4-D acid 4 lbs./gal.-H-Stauffer
7980 STAUFFER 2,4-D ISO-OCTYL ESTER 4-E, 2,4-D acid 4 lbs./gal.-H-Stauffer
7981 STAUFFER 2,4-D ISOPROPYL 3.34-E, 2,4-D acid 3.34 lbs./gal.-H-Stauffer
7982 STAUFFER 2,4-D-2,4,5-T BUTYL ESTERS 2-2E, 2,4-D acid 2 lbs./gal., 2,4,5-T acid 2 lbs./gal.-H-Stauffer
7983 STAUFFER 2,4-D-2,4,5-T ISOOCTYL ESTERS 2-2E, 2,4-D acid 2 lbs./gal., 2,4,5-T acid 2 lbs./gal.-H-Stauffer
7983.50 STAUFFER DAIRY & LIVESTOCK SPRAY NO. 1, Butoxypolypropylene glycol 8%, piperonyl butoxide 0.25%, pyrethrins 0.031%-I-Stauffer
7983.75 STAUFFER DAIRY & LIVESTOCK SPRAY NO. 2, Butoxypolypropylene glycol 4%, piperonyl butoxide 0.2%, pyrethrins 0.024%-I-Stauffer
7984 STAUFFER DD® SOIL FUMIGANT, Chlrinated C_3 hydrocarbons-H-Stauffer
7984.50 STAUFFER DDT 10-D, (10% Dust)-I-Stauffer
7985 STAUFFER DDT 5 DUST, DDT 5%-I-Stauffer
7985.50 STAUFFER DDT 20-D, (20% Dust)-I-Stauffer
7986 STAUFFER DDT 50 DUST BASE, DDT 50%-IC-Stauffer
7987 STAUFFER DDT 2-E (LIQUID), DDT 2 lb./gal.-I-Stauffer
7987.50 STAUFFER DDT 3-E, (3lb./gal.)-I-Stauffer
7987.75 STAUFFER DDT 5-G, (5% Granular)-I-Stauffer
7988 STAUFFER DDT 10 GRANULAR, DDT 10%-I-Stauffer
7989 STAUFFER DDT-STROBANE® 2-2 (LIQUID), DDT 2 lb./gal., terpene polychlorinates 2 lb./gal.-I-Stauffer
7990 STAUFFER DDT-SULFUR 10-40 DUST, DDT 10%, sulfur 40%-FI-Stauffer
7991 STAUFFER DDT-TOXAPHENE 2-4-E (LIQUID), DDT 2 lb./gal., toxaphene 4 lb./gal.-I-Stauffer
7992 STAUFFER DDT 50-W, DDT-I-Stauffer
7993 STAUFFER DDT 75-W, DDT 75%-I-Stauffer
7994 STAUFFER DE-GREEN DEFOLANT (LIQUID), S,S,S-Tributyl phosphorotrithioate H-Stauffer
7994.50 STAUFFER DIAZINON 5-G, (5% Granular)-I-Stauffer
7994.75 STAUFFER DIAZINON 10-G, (10% Granular)-I-Stauffer
7995 STAUFFER DIBROM® 8-D (LIQUID), Naled 8 lb./gal.-I-Stauffer
7996 STAUFFER DIELDRIN 2.5 DUST, Dieldrin 2.5%-Stauffer
7997 STAUFFER DIELDRIN 50 DUST BASE, Dieldrin 50%-IC-Stauffer
7998 STAUFFER DIELDRIN 1.5E (LIQUID), Dieldrin 1.5 lb./gal.-I-Stauffer
7999 STAUFFER DIELDRIN 10 GRANULAR, Dieldrin 10%-I-Stauffer
8000 STAUFFER DIELDRIN-SULFUR 2.5-40 DUST, Dieldrin 2.5%, sulfur 40%-FI-Stauffer
8001 STAUFFER DIELDRIN 50-W, Dieldrin 50%-I-Stauffer
8003 STAUFFER ENDRIN 25-DUST BASE, Endrin 25%-IC-Stauffer
8004 STAUFFER ENDRIN 1.6-E (LIQUID), Endrin 1.6 lb./gal.-I-Stauffer
8005 STAUFFER ENDRIN 75-W, Endrin 75%-I-Stauffer

8006 STAUFFER EPTAM® 6E PRE-EMERGENCE HERBICIDE, 6 lbs./gal. Ethyl di-n-propyl-thiocarbamate (liquid and granular formulations)-H-Stauffer
8007 STAUFFER EPTAM® 10-G, Ethyl di-n-proylthiolcarbamate 10% granular-H-Staffer
8007.50 STAUFFER ETHION 4-E, (4 lb./gal.)-I-Stauffer
8008 STAUFFER FERBAM 76-W, Ferbam 76%-F-Stauffer
8009 STAUFFER F.I.A. 80-20 GRAIN FUMIGANT, Carbon bisulfide, carbon tetrachloride-IF-Stauffer
8010 STAUFFER F.I.A. 80-20 GRAIN FUMIGANT WITH SO_2, Carbon bisulfide 20%, carbon tetrachloride 80%-IF-Stauffer
8010.50 STAUFFER FOLPET 50-W, (50% Wettable)-F-Stauffer
8010.75 STAUFFER FOLPET 75-W, (75% Wettable)-F-Stauffer
8011 STAUFFER GARRATHION® 3.5E, Carbophenothion 3.5 lb./gal.-I-Stauffer
8012 STAUFFER 80-20 GRAIN FUMIGANT, Carbon bisulfide 20%, carbon tetrachloride 80% with or without SO_2-IF-Stauffer
8013 STAUFFER 80-20 GRAIN FUMIGANT WITH SO_2, Carbon bisulfide 20%, carbon tetrachloride 80%-IF-Stauffer
8014 STAUFFER HEPTACHLOR 5 DUST, Heptachlor 5%-I-Stauffer
8015 STAUFFER HEPTACHLOR 25 DUST BASE, Heptachlor 25%-IC-Stauffer
8016 STAUFFER HEPTACHLOR 2-E (LIQUID), Heptachlor 2 lb./gal.-I-Stauffer
8017 STAUFFER HEPTACHLOR 5 GRANULAR, Heptachlor 5%-I-Stauffer
8018 STAUFFER HEPTACHLOR 25-W, Heptachlor 25%-I-Stauffer
8021 STAUFFER IMIDAN®, Phthalimidomethyl-O,O-dimethyl phosphorodiothioate-IC-Stauffer
8022 STAUFFER KARATHANE® 25-W, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 25%-FI-Stauffer
8023 STAUFFER LINDANE 1.7E (LIQUID), Lindane 1.7 lb./gal.-I-Stauffer
8025 STAUFFER LINDANE 25-W, Lindane 25%-I-Stauffer
8026 STAUFFER LINDANE 75-W, Lindane 75%-I-Stauffer
8027 STAUFFER MAGNETIC® 6 FLOWABLE SULFUR, Sulfur 6 lb./gal.-FI-Stauffer
8028 STAUFFER MALATHION 5 DUST, Malathion 5%-I-Stauffer
8029 STAUFFER MALATHION 25-DUST BASE, Malathion 25%-IC-Stauffer
8030 STAUFFER MALATHION 4.5-E (LIQUID), Malathion 4.5 lbs./gal.-I-Stauffer
8031 STAUFFER MALATHION 5-E (LIQUID), Malathion 5 lb./gal.-I-Stauffer
8031.50 STAUFFER MALATHION 95 PREMIUM (95%)-I-Stauffer
8032 STAUFFER MALATHION 25-W, Malathion 25%-I-Stauffer
8033 STAUFFER MCP AMINE 2, MCP acid 2 lbs./gal.-H-Stauffer
8034 STAUFFER MCP AMINE 4, MCP acid 4 lbs./gal.-H-Stauffer
8035 STAUFFER MER-CAD, Anilinocadmium dilactate 6.25%, phenylmercury formamide 6.25%-F-ST-Stauffer
8036 STAUFFER MER-SOL 7, Phenyl mercuric ammonium acetate 7%-ST-Stauffer
8037 STAUFFER MER-SOL 48, Phenyl mercury acetate 4%, ethyl mercury acetate 0.8%-F-ST-Stauffer
8038 STAUFFER MER-SOL 51, Phenyl mercury acetate, 5%, ethyl mercury acetate 1%-F-ST-Stauffer
8039 STAUFFER METHOXYCHLOR 50-W, Methoxychlor 50%-I-Stauffer
8039.50 STAUFFER METHYL PARATHION 25 DB, 25% Dust base-IC-Stauffer
8039.60 STAUFFER METHYL PARATHION DUSTS (Various strengths)-I-Stauffer
8039.70 STAUFFER METHYL PARATHION 2E, 2 lb./gal.-I-Stauffer
8039.80 STAUFFER METHYL PARATHION 4E, 4 lb./gal.-I-Stauffer
8039.90 STAUFFER METHYL PARATHION 2EH, 2 lb./gal.-I-Stauffer
8040 STAUFFER METHYL PARATHION 80% SOLUTION TECHNICAL-IC-Stauffer
8040.50 STAUFFER METHYL PARATHION 70 TECH. 70%-IC-Stauffer
8040.60 STAUFFER METHYL PARATHION 80 TECH. 80%-IC-Stauffer
8040.70 STAUFFER METHYL PARATHION-TOX, 2,5-20 (Methyl parathion 2.5%, toxaphene 20%)-I-Stauffer
8041 STAUFFER METHYL TRITHION®, Carbophenothion-IC-Stauffer
8041.50 STAUFFER METHYL TRITHION-DDT DUSTS, O,O-Dimethyl S-(*p*-chlorophenylthio) methyl phosphorodithioate (various strengths)-I-Stauffer
8042 STAUFFER METHYL TRITHION®=DDT 1-2E, DDT 2 lbs./gal., O'O-dimethyl-S-p-chlorophenyl thiomethyl phosphorodithioate 1 lb./gal-I-Stauffer
8043 STAUFFER METHYL TRITHION®-DDT 1½-3E, DDT 3 lbs./gal., O,O-Dimethyl-S-p-chlorophenyl thiomethyl phosphorodithioate, 1½ lb./gal.-I-Stauffer
8044 STAUFFER METHYL TRITHION®-DDT 2½-5D, DDT 5% dust, O,O-dimethyl-S-p-chlorophenyl thiomethyl phosphorodithioate 2½%-I-Stauffer
8045 STAUFFER METHYL TRITHION®-DDT 2½-10D, DDT 10% dust, O,O-dimethyl-S-p-chlorophenyl thiomethyl phosphorodithioate 2½%-I-Stauffer
8046 STAUFFER METHYL TRITHION®-DDT 2-2E, DDT 2 lbs./gal., O,O-dimethyl-S-p-chlorophenyl thiomethyl phosphorodithioate 2 lbs./gal.-I-Stauffer

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8046.20 STAUFFER METHYL TRITHION-DDT 1.5-3H, 3 lb./gal. DDT, 1.5 lb./gal. O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate-I-Stauffer
8046.30 STAUFFER METHYL TRITHION 2-E, 2 lb./gal. O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate-I-Stauffer
8046.40 STAUFFER METHYL TRITHION 4-E [4 lb./gal. O,O-Dimethyl S-(p-chlorophenylthio) methyl phosphorodithioate]-I-Stauffer
8046.50 STAUFFER HEPTACHLOR 3-E, (3 lb./gal.) -I-Stauffer
8046.60 STAUFFER HEPTACHLOR 10-G, (10% Granular) -I-Stauffer
8046.70 STAUFFER HEPTACHLOR 20-G, (20% Granular) -I-Stauffer
8046.80 STAUFFER HEPTACHLOR 3.33-OS, (3.33 lb./gal.) -I-Stauffer
8047 STAUFFER NEMAGON® 8.6E, 1,2-Dibromo-3-chloropropane 8.6 lb./gal.-IF-Stauffer
8048 STAUFFER NEMAGON® 10 GRANULAR, 1,2-Dibromo-3-chloropropone 10%-IF-Stauffer
8048.50 STAUFFER NEMAGON® GRANULAR 25, 1,2-Dibromo-3-chloropropane 25%-IF-Stauffer
8049 STAUFFER OVEX 50-W, Ovex 50%-I-Stauffer
8049.50 STAUFFER PARATHION DUSTS 1% and 2%-I-Stauffer
8049.75 STAUFFER PARATHION 15 DUST BASE (15%)-IC-Stauffer
8050 STAUFFER PARATHION 25 DUST BASE. Parathion 25%-IC-Stauffer
8051 STAUFFER PARATHION 2-E (LIQUID), Parathion 2 lb./gal.-I-Stauffer
8051.50 STAUFFER PARATHION 4E, 4 lb./gal.-I-Stauffer
8051.75 STAUFFER PARATHION 8E, 8 lb./gal.-I-Stauffer
8052 STAUFFER PARATHION 4 FLOWABLE (EMUL.), Parathion 4 lb./gal.-I-Stauffer
8052.50 STAUFFER PARATHION 8F, 8 lb./gal.-I-Stauffer
8052.75 STAUFFER PARATHION 10G (10% Granular) -I-Stauffer
8053 STAUFFER PARATHION 15-W, Parathion 15%-I-Stauffer
8053.30 STAUFFER PARATHION 25-W (25%) -I-Stauffer
8053.40 STAUFFER PCNB 10 and 20, Pentachloronitrobenzene 10 and 20%-F-Stauffer
8053.50 STAUFFER PCNB 20 DUST BASE, Pentachloronitrobenzene 15%-F-Stauffer
8053.60 STAUFFER PCNB 2E, 2 lb./gal. pentachloronitrobenzene-F-Stauffer
8053.70 STAUFFER PCNB 10G, Granular pentachloronitrobenzene 10%-F-Stauffer
8053.80 STAUFFER PCNB 75W, Pentachloronitrobenzene 75%-F-Stauffer
8054 STAUFFER PENTA 40 WOOD PRESERVATIVE, Pentachlorophenol 40%-WP-Stauffer
8055 STAUFFER PHOSDRIN® 2, 2 lb./gal. 2-Carbomethoxy-1-propen-2yl dimethyl phosphate-I-Stauffer
8057 STAUFFER PHOSDRIN® 4-E (LIQUID), 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 4 lb./gal.-I-Stauffer
8058 STAUFFER PHYGON®-XL 50-W, Dichlone 50%-F-Stauffer
8059 STAUFFER PYRENONE® LIQUID GRAIN PROTECTANT, Piperonyl butoxide 60%, pyrethrins 6%-I-Stauffer
8060 STAUFFER SEVIN® DUSTS (Various strengths carbaryl) -I-Stauffer
8061 STAUFFER SEVIN® 4 FLOWABLE, Carbaryl-I-Stauffer
8062 STAUFFER SEVIN® 80 SPRAYABLE, 80% Carbaryl-I-Stauffer
8062.50 STAUFFER SEVIN® 50W, 50% Carbaryl-I-Stauffer
8063 STAUFFER STANDARD LEAD ARSENATE, Arsenate of lead 98%-I-Stauffer
8063.50 STAUFFER STROBANE® 6-E, Terpene polychlorinates-I-Stauffer
8064 STAUFFER SULFUR, AGRICULTURAL COARSE, Sulfur 99.5%-SC-Stauffer
8065 STAUFFER SULFUR, ALPHA WETTABLE, Sulfur 95%-FI-Stauffer
8066 STAUFFER SULFUR, ANCHOR-SUBLIMED FLOWERS, Sulfur 99.7%-FI-Stauffer
8067 STAUFFER SULFUR CROWN WETTABLE, Sulfur 95%-FI-Stauffer
8068 STAUFFER SULFUR, ELECTRIC DUSTING, Sulfur 99.5%-FI-Stauffer
8069 STAUFFER SULFUR, ELECTRIC-SPECIAL DUSTIND, Sulfur 98%-FI-Stauffer
8070 STAUFFER SULFUR, MAGNETIC 90 MICROFINE DUSTING, Sulfur 90%-FI-Stauffer
8071 STAUFFER SULFUR, MAGNETIC 95 MICROFINE WETTABLE, Sulfur 95%-FI-Stauffer
8072 STAUFFER SULFUR, MAGNETIC 70 PASTE, Sulfur 68%-FI-Stauffer
8073 STAUFFER SULFUR, MAGNETIC SPRAY WETTABLE, Sulfur 98.5%-FI-Stauffer
8074 STAUFFER SULFUR, OWL SUPERFINE DUSTING, Sulfur 99.5%-FI-Stauffer
8075 STAUFFER SULFUR, PERFECTION SUPERFINE DUSTING, Sulfur 93%-FI-Stauffer
8076 STAUFFER SULFUR,-SWAN BRAND SUPERFINE DUSTING, Sulfur 97.5%-FI-Stauffer
8077 STAUFFER SULPHENONE® 4-EV (LIQUID), p-Chlorophenyl phenyl sulfone 4 lb./gal.-I-Stauffer
8078 STAUFFER SULPHENONE® 50-W, P-chlorophenyl phenyl sulfone 50%-I-Stauffer
8079 STAUFFER 2,4-5-T BUTYL ESTER 4-E, 2,4,5-T acid 4 lbs./gal.-H-Stauffer

8080 STAUFFER, 2,4,5-T ISOOCTYL ESTER 4-E, 2,4,5-T acid 4 lbs./gal.-H-Stauffer
8081 STAUFFER TDE (DDD) 50 DUST BASE, TDE 50%-IC-Stauffer
8082 STAUFFER TDE (DDD) 2-E (LIQUID), TDE 2 lb./gal.-I-Stauffer
8083 STAUFFER TDE (DDD) 50-W, (TDE 50%-I-Stauffer
8084 STAUFFER TEDION® 1E, Tetradifon 1 lb./gal-I-Stauffer
8085 STAUFFER TEDION® 4F, Tetradifon 4 lb./gal-I-Stauffer
8086 STAUFFER TEDION® 90 GREENHOUSE SPRAY, Tetradifon 90%-I-Stauffer
8087 STAUFFER TEDION® 25 WP, Tetradifon 25%-I-Stauffer
8057.50 STAUFFER THIMET® 10 GRANULAR, 10% Phorate-I-Stauffer
8088 STAUFFER THURICIDE® DUST, Microorganism *Bacillus thuringiensis berliner*-I-Stauffer
8088.50 STAUFFER THURICIDE 90T FLOWABLE, Spores of *Baccilus thuringiensis*-I-Stauffer
8089 STAUFFER THURICIDE® WETTABLE POWDER, Microorganism *Bacillus thuringiensis berliner*-I-Stauffer
8090 STAUFFER TILLAM® 6E, Propyl ethyl-n-butylthiolcarbamate 6 lb./gal.-H-Stauffer
8091 STAUFFER TILLAM® 10G, Propyl ethyl -n-butylthiolcarbamate 10% granular-H-Stauffer
8092 STAUFFER TOXAPHENE 40 DUST BASE, Toxaphene 40%-IC-Stauffer
8093 STAUFFER TOXAPHENE 6-E (LIQUID), Toxaphene 6 lb./gal.-I-Stauffer
8094 STAUFFER TOXAPHENE 8-E (LIQUID), Toxaphene 8 lb./gal.-I-Stauffer
8095 STAUFFER TOXAPHENE 20 GRANULAR, Toxaphene 20%-I-Stauffer
8096 STAUFFER TOXAPHENE-SULFUR 20-40 DUST, Sulfur 40%, toxaphene 20%-FI Stauffer
8097 STAUFFER TOXAPHENE 40-W, Toxaphene 40%-I-Stauffer
8097.50 STAUFFER TRITHION® 25DB, 25% Carbophenothion dust base-IC-Stauffer
8098 STAUFFER TRITHION® 2-DUST, O,O-Diethyl S-(p-chlorophenylthio) methyl phosphorodithioate 2%-I-Stauffer
8098.50 STAUFFER TRITHION® 2E, 2 lb./gal. Carbophenothion-I-Stauffer
8098.60 STAUFFER TRITHION® 8E, 8 lb./gal. Carbophenothion-I-Stauffer
8098.70 STAUFFER TRITHION® 4EC, 4 lb./gal. Carbophenothion-I-Stauffer
8099 STAUFFER TRITHION® 4-FLOWABLE (EMUL.), O,O-Diethyl S-(p-chlorophenyl thio) methyl phosphorodithioate 4 lb./gal.-I-Stauffer
8100 STAUFFER TRITHION® 5 AND 10 GRANULAR, Carbophenothion 5% and 10%-I-Stauffer
8100.50 STAUFFER TRITHION® 90% SOLUBLE, 90% Carbophenothion-IC-Stauffer
8100.75 STAUFFER TRITHION® 95 TECH., 95% Carbophenothion-IC-Stauffer
8101 STAUFFER TRITHION® 25-W, O,O-Diethyl S-(p-chlorophenyl thio) methyl phosphorodithioate 25%, many other formulations-I-Stauffer
8102 STAUFFER VAPAM® SOIL FUMIGANT (SOLN.), Sodium methyl dithiocarbamate IF-Stauffer
8103 STAUFFER WAYLAY (LIQUID), DDT 2 lb./gal., methyl parathion 0.51 lb./gal terpene polychlorinates 4 lb./gal.-I-Stauffer
8104 STAUFFER ZINEB 65-W, Zineb 65%-F-Stauffer
8105 STAY-DEE DUSTING POWDER, PURIFIED, DDT 10%-I-Stayner
8106 STCA, Sodium trichloroacetate 90%-H-Agrochem
8107 STEPHENSON CHEMICALS-ALDRIN 4 LB.-I-Stephenson
8108 STEPHENSON CHEMICALS-ALDRIN 20% DUST-I-Stephenson
8109 STEPHENSON CHEMICALS-CHLORDANE 8# (72%) -I-Stephenson
8110 STEPHENSON CHEMICALS-CHLORDANE 6% DUST-I-Stephenson
8111 STEPHENSON CHEMICALS-CHLORDANE DUST 10%-I-Stephenson
8112 STEPHENSON CHEMICALS-CHLORDANE EMUL. CONC. 45%-I-Stephenson
8113 STEPHENSON CHEMICALS-CHLORDANE 20% OIL SOLUBLE-I-Stephenson
8114 STEPHENSON CHEMICALS-CHLORDANE WETTABLE 40%-I-Stephenson
8115 STEPHENSON CHEMICALS-DDT EMUL. CONC. 25%-I-Stephenson
8116 STEPHENSON CHEMICALS-DDT 30% OIL SOLUBLE-I-Stephenson
8117 STEPHENSON CHEMICALS-DDT TRACKING POWDER 50%-R-Stephenson
8118 STEPHENSON CHEMICALS-DIELDRIN EMUL. CONC. (1.5 lbs./gal.) -I-Stephenson
8119 STEPHENSON CHEMICALS-DIELDRIN GRANULES 5%-I-Stephenson
8120 STEPHENSON CHEMICALS-DIELDRIN 10% GRANULAR-I-Stephenson
8120.50 STEPHENSON CHEMICALS-DROP-TOX AERO BOMB, DDVP 5%, piperonyl butoxide 1.0%, pyrethrum .2%-IA-Stephenson
8121 STEPHENSON CHEMICALS-DUSTING SULFUR-FI-Stephenson
8122 STEPHENSON CHEMICALS-EARWIG BAIT, Chlordane, toxaphene-I-Stephenson
8123 STEPHENSON CHEMICALS-FOG CONC., 0.3% Pyrethrins, 1.5% piperonyl butoxide-I-Stephenson
8124 STEPHENSON CHEMICALS-FUMARIN MEAL, REDI-MIXED, Coumafuryl-R-Stephenson
8125 STEPHENSON CHEMICALS-FUMARIN PELLETS, Coumafuryl-R-Stephenson

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8126 STEPHENSON CHEMICALS-GRAIN FUMIGANT, Carbon tetrachloride, ethylene dichloride-IF-Stephenson
8127 STEPHENSON CHEMICALS-HEPTACHLOR GRANULAR 2½-I-Stephenson
8128 STEPHENSON CHEMICALS-HOUSEHOLD FLY & DAIRY SPRAY, Piperonyl butoxide, pyrethrins-I-I-Stephenson
8129 STEPHENSON CHEMICALS-LINDANE 20% EMULSIFIABLE CONC.-I-Stephenson
8130 STEPHENSON CHEMICALS-MALATHION EMUL. CONC. 50%-I-Stephenson
8131 STEPHENSON CHEMICALS-MALATHION DUST 4%-I-Stephenson
8132 STEPHENSON CHEMICALS-MALATHION 25%-WETTABLE-I-Stephenson
8133 STEPHENSON CHEMICALS-NEMAGON® 70% E.C., 1,2-Dibromo-3-chloropropane F-Stephenson
8134 STEPHENSON CHEMICALS NEMAGON® GRANULES 10%, 1,2-Dibromo-3-chloropropane 10%-I-Stephenson
8135 STEPHENSON CHEMICALS-NEMAGON® 30% GRANULES, 1,2-Dibromo-3-chloropropane 30%-IF-Stephenson
8136 STEPHENSON CHEMICALS-PENTACHLOROPHENOL 1-10 CONC.-WP-Stephenson
8137 STEPHENSON CHEMICALS PIVAL® PELLETS, Pindone-R-Stephenson
8138 STEPHENSON CHEMICALS-PYRETHRUM & PIPERONYL BUTOXIDE EMUL. CONCENTRATE-I-Stephenson
8139 STEPHENSON CHEMICALS-ROSE DUST, Captan, DDT, malathion, 2,4-Dinitro-6 (2-octyl) phenyl crotonate-FI-Stephenson
8140 STEPHENSON CHEMICALS-ROTENONE DUST 5%-I-Stephenson
8141 STEPHENSON CHEMICALS-SEVIN® 1¾%, 1-Naphthyl-N-methylcarbamate 1.75%-I-Stephenson
8142 STEPHENSON CHEMICALS-SEVIN® 5%, 1-Naphthyl-N-methylcarbamate 5%-I-Stephenson
8143 STEPHENSON CHEMICALS-SNAIL AND SLUG DUST BAIT, 5% Chlordane, 5% metalde-hyde-IB-Stephenson
8144 STEPHENSON CHEMICALS-SPECIAL FOG SPRAY, 0.375% Piperonyl butoxide, 0.075% pyrethrins-I-Stephenson
8145 STEPHENSON CHEMICALS-TOMATO BLOSSOM END-ROT SPRAY, Calcium chloride solution-F-Stephenson
8146 STEPHENSON CHEMICALS-TOMATO DUST, Copper sulfate, TDE-FI-Stephenson
8146.50 STEPHENSON CHEMICALS-VAPONA INSECTICIDE RESIN STRIP-DDVP-IB-Stephenson
8147 STEPHENSON CHEMICALS-WARFARIN MEAL REDI-MIXED-R-Stephenson
8148 STEPHENSON CHEMICALS-WARFARIN PELLETS-R-Stephenson
8149 STERLING AQUATIC WEEDKILLER 99.8% PETROLEUM DERIVATIVE-H-Smith Chem.
8150 STERLING 5% CHLORDANE DUST-I-Smith Chem.
8151 STERLING DIELDRIN 15 EMULSION 1.5 LB.-I-Smith Chem.
8152 STERLING HEPTACHLOR 20 EMULSION 2 LB.-I-Smith Chem.
8153 STERLING LIQUID LIME-SULFUR FRUIT TREE & VEGETABLE SPRAY, 31.5% Calcium polysulfide-I-Smith Chem.
8154 STERLING MULTI-GARDEN DUST, Copper 3.4%, malathion 4%, methoxychlor 5%-FI-Smith Chem.
8155 STERLING SABADILLA DUST NO. 80, Sabadilla 10%-I-Smith Chem.
8156 STERMINATE 20, Oil, piperonyl butoxide, pyrethrins-IA-U. S. Sanit. Sp.
8157 STICKEM, Adhesive pads for rodent control-R-Biocerta Corp.
8158 STOCKAID ANIMAL SPRAY, Di-*n*-butyl succinate 0.5%, piperonyl butoxide 0.2%, pyrethrins 0.025%-I-Canada Rex
8159 STOCKAID ANIMAL SPRAY, Di-*n*-butly succinate 0.25%, oil 99.48%, piperonyl butoxide 0.24%, pyrethrins 0.03%-I-Rex
8160 STOKFLY POWDER, 10% DDT-I-Howard
8161 STOKFLY SPRAY, 25% DDT-I-Howard
8162 STOK-PEST LOUSE POWDER, Lindane 0.5%-I-Howard
8163 STOK-PEST LOUSE SPRAY, Lindane-I-Howard
8164 STOP-DROP, Naphthaleneacetic acid-PH-Sherwin-Williams
8165 STROBANE 90%, Terpene polychlorinates-IC-Heyden-Newport
8166 STROBANE 100%, Terpene polychlorinates-IC-Heyden-Newport
8167 STROBANE® 80% CONCENTRATE, Chlorinated terpenes (terpene polychlorinate)-IC-Fairfield
8168 STROLLER, Compression Sprayer-E-Hudson
8169 STURTEVANT AIR SEPARATORS-E-Sturtevant
8170 STURTEVANT BLENDERS AND MIXERS, Processing equipment-E-Sturtevant
8171 STURTEVANT CRUSHING AND MILLING MACHINES-E-Sturtevant
8172 STURTEVANT GRANULATORS-E-Sturtevant

8173 STURTEVANT MICRONIZER®, Pesticide grinding equipment-E-Sturtevant
8174 STURTEVANT PULVER-MILL, Grinding equipment-E-Sturtevant
8175 STURTEVANT SIMPACTOR, Pulverizing unit-E-Sturtevant
8176 SULFIX SULFUR, Wettable sulfur-FI-Sherwin-Williams
8176.50 SULFOXIDE (SYNERGIST), n-Octyl sulfoxide of isosafrole-A-Penick
8177 SULFOXIDE-PYREXCEL 1-10 EMULSIFIABLE, Pyrethrins 1.14%, sulfoxide 11.4%-I-Penick
8178 SULFOXIDE-PYREXCEL 20, Pyrethrins 0.62%, sulfoxide 4.98%-IC-Penick
8179 SULFOXIDE 40% SOL.-IC-A-Penick
8181 SULPHUR SMOKE DUSTING SULPHUR 93%-FI-Davison
8182 SULPHUR SMOKE WETTABLE SULPHUR 93%-FI-Davison
8183 SUMMIT CANNERS' SPECIAL INSECTICIDE, Ethylhexyl bicycloheptene dicarboximide 1.0%, oil 97.6%, piperonyl butoxide 1.0%, pyrethrins 0.4%-I-Summit Chem.
8184 SUMMIT CASE TREATMENT CONCENTRATE, (Emulsifiable roach repellent), 2-Hydroxyethyl-*n*-octyl sulfide 4.75%, n-octyl bicycloheptene dicarboximide 10%, oil 75%-IR-Summit Chem.
8184.50 SUMMIT GREENHOUSE FOGGING INSECTICIDE, DDVP 3.5%, oil 96.5%-I-Summit Chem.
8185 SUMMIT MISTOCIDE, N-Octyl bicycloheptene dicarboximide 0.5%, oil 98.6%, piperonyl butoxide 0.5%, pyrethrins 0.4%-I-Summit Chem.
8186 SUMMIT MOSQUITOCIDE, Malathion 5.0%, oil 92.09% organic thiocyantes 2.91%-I-Summit Chem.
8187 SUMMIT MOSQUITOCIDE CONCENTRATE, Malathion 27.01%, oil 55.62%, organic thiocyanates 17.37%-I-Summit Chem.
8188 SUMMIT PERMACIDE, Butonate 1.5%, DDVP 0.5%, oil 98.05%, piperonyl butoxide 0.4%, pyrethrins 0.05%-I-Summit Chem.
8189 SUMMIT SUMMACIDE, Oil 99.3%, piperonyl butoxide 0.5%, pyrethrins 0.2%-I-Summit Chem.
8190 SUMMIT SYNERGIZED PYRETHRUM DUST, oil 1.89%, piperonyl butoxide 1%, pyrethrins 0.1%-I-Summit Chem.
8191 SUN 1756 AROMATIC SOLVENT-D-Sun Oil
8192 SUN AROMATICS T-1 (SOLVENT)-D-Sun Oil
8193 SUN HERBICIDE OIL #40 and #70-H-Sun Oil
8194 SUN SPIRITS (SOLVENT)-D-Sun Oil
8195 SUN SUPERIOR SPRAY OIL 7N-I-Sun Oil
8196 SUN SUPERIOR SPRAY OIL #11-I-Sun Oil
8197 SUNOCO BENZENE-D-Sun Oil
8198 SUNOCO SELF-EMULSIFYING SPRAY OIL-I-Sun Oil
8199 SUNOCO TOLUENE-D-Sun Oil
8200 SUNOCO XYLENE-D-Sun Oil
8200.50 SUPER AD-IT®, Di (phenylmercury) dodecenyl succinate (10% Hg)-F-Nuodex
8201 SUPER ARTOX-A.M.A., Dodecyl and octyl ammonium methyl arsonates-H-Nott
8202 SUPER BLUE DRAGON DUST, Carbaryl 3%, sulfur 10%-FI-J. M. Harris
8203 SUPER CHICK-NOT, 2,4-S-Trichloropropionic acid-H-Nott
8204 SUPER CRAB-E-RAD + 2, 2,4-D, ammonium methyl arsonates-H-Vineland
8205 SUPER CRAB-E-RAD A.M.A., Octyl and dodecyl ammonium methyl arsonates-H-Vineland
8206 SUPER CRAB-E-RAD CALAR, Calcium acid methyl arsonate-H-Vineland
8207 SUPER DRAGON, Rotenone 1%, rotenoids 1.53%, sulfur 10%-FI-J. M. Harris
8208 SUPER-MAL, O.S., Malathion 50%, pine oil 25%-I-Agr. Spec.
8209 SUPER-MAL W.E., Malathion 50%, aromatic oil 40%-I-Agr. Spec.
8210 SUPER METHAR (AMA), Amine methyl arsonate, 8% octyl ammonium methyl arsonate 8% dodecyl ammonium methyl arsonate-H-Cleary
8211 SUPER MOLE-NOTS, Thallium-R-Nott
8211.50 SUPER ROOST SPREAD, Malathion 57%, nicotine 4%, oils 92.23%-I-Russell Co. Lab.
8212 SUPERIOR AA FLY SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8213 SUPERIOR CATTLE SPRAY, Oil, piperonyl butoxide, pyrethrin-I-Superior Chem.
8214 SUPERIOR 10-1 CONCENTRATE, Oil, piperonyl butoxide, pyrethrin-I-Superior Chem.
8215 SUPERIOR 60-6 CONCENTRATE, Piperonyl butoxide, pyrethrins-I-Superior Chem.
8216 SUPERIOR DDT 25% E., DDT, oil-I-Superior Chem.
8217 SUPERIOR DDT 30% O.S., DDT, oil-I-Superior Chem.
8219 SUPERIOR DICAP, Dicapthon, oil, piperonyl butoxide, pyrethrins-I-Superior Chem
8219.50 SUPERIOR DYAZZ, Diazinon oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8220 SUPERIOR ECONOFOG 28 ML, Malathion, oil, organic thiocyanates-I-Superior Chem.
8221 SUPERIOR F.R.C. CONCENTRATE, Malathion, oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8222 SUPERIOR JOY RIDE, Oil, piperonyl butoxide, pyrethrins-I-Superior Chem.

8223 SUPERIOR K.D.—A.R. CONCENTRATE E., Antiresistant DDT, piperonyl butoxide, pyrethrins-I-Superior Chem.
8224 SUPERIOR K.D.-A.R. CONCENTRATE O.S., Antiresistant DDT, oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8225 SUPERIOR K.D. CONCENTRATE E., DDT, piperonyl butoxide, pyrethrins-I-Superior Chem.
8226 SUPERIOR K.D. CONCENTRATE O.S., Oil, DDT, piperonyl butoxide, pyrethrins-I-Superior Chem.
8227 SUPERIOR LINDANE 10% E., Lindane, oil-I-Superior Chem.
8228 SUPERIOR LINDANE 20% E., Lindane, oil-I-Superior Chem.
8229 SUPERIOR LINDANE 10% O.S., Lindane, oil-I-Superior Chem.
8230 SUPERIOR LINDANE 20% O.S., Lindane, oil-I-Superior Chem.
8231 SUPERIOR MALATHION 45E and 57E-I-Superior Chem.
8232 SUPERIOR T-F 25 MASKING AGENT, Odorant-A-Superior Chem.
8233 SUPERIOR NON-TOX CONCENTRATE, Oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8234 SUPERIOR OMNICIDE, Piperonyl butoxide, oil, pyrethrins-I-Superior Chem.
8234.50 SUPER OMNICIDE AEROSOL, Piperonyl butoxide, pyrethrins-IA-Superior Chem.
8235 SUPERIOR OMNICIDE BB, DDT, Oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8236 SUPERIOR OMNICIDE C, Chlordane, DDT, oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8237 SUPERIOR OMNICIDE "C" CONCENTRATE, Chlordane, oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8238 SUPERIOR OMNICIDE "D" CONCENTRATE, Diazinon, oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8239 SUPERIOR OMNICIDE DYNA FOG SPECIAL, Oil, piperonyl butoxide, pyrethrins-I-Superior Chem.
8240 SUPERIOR OMNI-DUST, Ammonium fluosilicate, oil, piperonyl butoxide, pyrethrins, silica gel-I-Superior Chem.
8240.50 SUPERIOR PET SPRAY BOMB, Piperonyl butoxide, pyrethrins-IA-Superior Chem.
8241 SUPERIOR REDIKOR, Oil, piperonyl butoxide, pyrethrins, ronnel-I-Superior Chem.
8242 SUPERIOR S.K. FORMULA, Malathion, piperonyl butoxide, pyrethrins-I-Superior Chem.
8243 SUPERIOR SODIUM FLUORIDE WITH PYRETHRUM, Pyrethrum, sodium fluoride-I-Superior Chem.
8244 SUPERIOR TERMICIDE #460, Chlordane 4 lb./gal.-I-Superior Chem.
8245 SUPERIOR TERMICIDE #740, Chlordane 8 lb./gal.-I-Superior Chem.
8245.50 SUPERIOR'S BASIC COPPER FUNGICIDE 53%-F-Superior Fert. & Chem.
8245.75 SUPERIOR'S CHLORDANE, 5% Dust Base-IC-Superior Fert. & Chem.
8246 SUPERIOR'S COMMERCIAL SULPHUR, 93-95% Sulfur-FI-Superior Fert. & Chem.
8247 SUPERIOR'S DDT 50% DUST BASE-IC-Superior Fert. & Chem.
8248 SUPERIOR'S DDT SULPHUR DUST, 5% DDT, 80% sulfur-FI-Superior Fert. & Chem.
8249 SUPERIOR'S DDT 50% WETTABLE-I-Superior Fert. & Chem.
8250 SUPERIOR'S DUSTING SULPHUR 90% Sulfur-FI-Superior Fert. & Chem.
8250.50 SUPERIOR'S ETHION 4-EC 4-lb./gal.-I-Superior Fert. & Chem.
8250.75 SUPERIOR'S ETHION 25% WETTABLE-I-Superior Fert. & Chem.
8251 SUPERIOR'S MALATHION 25% WETTABLE-I-Superior Fert. & Chem.
8252 SUPERIOR'S PARATHION 25% DUST BASE-IC-Superior Fert. & Chem.
8253 SUPERIOR'S PARATHION 15% WETTABLE-I-Superior Fert. & Chem.
8254 SUPERIOR'S PARATHION 25% WETTABLE-I-Superior Fert. & Chem.
8255 SUPERIOR'S PARATHION SULPHUR DUST, 1% Parathion, 80% sulfur-FI-Superior Fert. & Chem.
8255.50 SUPERIOR'S TEDION 1-E MISCIBLE 1-lb./gal., Tetradifon-I-Superior Fert. & Chem.
8255.75 SUPERIOR'S ZINEB 75% WETTABLE-F-Superior Fert. & Chem.
8256 SUPERIOR'S WETTABLE SULPHUR, 90% Sulfur-FI-Superior Fert. & Chem.
8257 SUPERKILL 2½-0-0 ALDRIN COTTON DUST, Aldrin 2.5%-I-Taylor
8258 SUPERKILL 2½-5-0 ALDRIN COTTON DUST, Aldrin 2.5%, DDT 5%-I-Taylor
8259 SUPERKILL 2½-10-0 ALDRIN COTTON DUST, Aldrin 2.5%, DDT 10%-I-Taylor
8260 SUPERKILL 2½-5-40 ALDRIN COTTON DUST, Aldrin 2.5%, DDT 5%, sulfur 40%-FI-Taylor
8261 SUPERKILL 2½-10-40 ALDRIN COTTON DUST, Aldrin 2.5%, DDT 10%, sulfur 40%-FI-Taylor
8261.50 SUPERKILL 10% ALDRIN DUST-I-Taylor
8261.75 SUPERKILL ALDRIN 4-E-I-Taylor
8262 SUPERKILL 23% ALDRIN EMULSIFIABLE CONC.-I-Taylor
8262.20 SUPERKILL 25% ALDRIN EQUIV. DUST BASE-IC-Taylor
8262.30 SUPERKILL BEETLE SPRAY (1# BHC per gallon) -I-Taylor

8262.40 SUPERKILL 3-0-0 BHC COTTON DUST-I-Taylor
8262.50 SUPERKILL 3-7-0 BHC-DDT COTTON DUST-I-Taylor
8262.60 SUPERKILL 3-20 BHC-DDT COTTON DUST-I-Taylor
8262.70 SUPERKILL 5-10-0 BHC-DDT COTTON DUST-I-Taylor
8262.80 SUPERKILL 5-20 BHC-DDT COTTON DUST-I-Taylor
8263 SUPERKILL 3.5 BHC-DDT EMULSIFIABLE CONC., BHC 8.7%, DDT 14.5%-I-Taylor
8263.50 SUPERKILL BIDRIN® 8-E (3-Dimethoxyphosphinyloxy) N,N-dimethyl-cis-crotonamide-Taylor
8263.60 SUPERKILL BIG 8 PEACH SPRAY (Lead arsenate)-I-Taylor
8263.70 SUPERKILL CATTLE GRUB DUST (1½% Rotenone) -I-Taylor
8263.80 SUPERKILL 10% CHLORDANE DUST-I-Taylor
8263.90 SUPERKILL 72% CHLORDANE E. C.-I-Taylor
8264 SUPERKILL 45% CHLORDANE EMULSIFIABLE CONC.-I-Taylor
8265 SUPERKILL CHLORO IPC, Chloro IPC 48%-H-Taylor
8265.50 SUPERKILL COPPER-DDT-SULPHUR PEANUT DUST-FI-Taylor
8266 SUPERKILL 5% COPPER DUST-F-Taylor
8267 SUPERKILL 7% COPPER DUST-F-Taylor
8268 SUPERKILL 3-0-0 COTTON DUST, Gamma BHC 3%-I-Taylor
8269 SUPERKILL 3-5-0 COTTON DUST, Gamma BHC 3%, DDT 5%-I-Taylor
8270 SUPERKILL 3-10-0 COTTON DUST, Gamma BHC 3%, DDT 10%-I-Taylor
8271 SUPERKILL 3-5-40 COTTON DUST, Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Taylor
8272 SUPERKILL 3-10-40 COTTON DUST, Gamma BHC 3%, DDT 5%, sulfur 40%-FI-Taylor
8273 SUPERKILL 5% DDT DUST-I-Taylor
8274 SUPERKILL 10% DDT DUST-I-Taylor
8275 SUPERKILL 50% DDT DUST BASE-IC-Taylor
8276 SUPERKILL 25% DDT (MISCIBLE) -I-Taylor
8277 SUPERKILL 35% DDT (MISCIBLE) -I-Taylor
8277.20 SUPERKILL COPPER-SEVIN®-SULPHUR PEANUT DUST-I-Taylor
8277.30 SUPERKILL COPPER-SULPHUR DUST-FI-Taylor
7277.40 SUPERKILL 2½ P-7 COTTON DUST (Methyl parathion-DDT) -I-Taylor
8277.50 SUPERKILL 3-10-1 COTTON DUST (BHC-DDT-Parathion) -I-Taylor
8277.60 SUPERKILL 2-1 DDT-METHYL PARATHION E.C.-FI-Taylor
8278 SUPERKILL 25% DDT SOLN.-I-Taylor
8279 SUPERKILL 35% DDT SOLN.-I-Taylor
8279.50 SUPERKILL 5% DDT-85% SULPHUR DUST-FI-Taylor
8279.60 SUPERKILL DELNAV® 25 W.P. DIOXATHION-I-Taylor
8279.70 SUPERKILL 2% DIELDRIN DUST-I-Taylor
8280 SUPERKILL 10% DIELDRIN (GRANULAR) -I-Taylor
8281 SUPERKILL 15% DIELDRIN EMULSIFIABLE CONC.-I-Taylor
8281.30 SUPERKILL DIELDRIN-SULPHUR PEACH SPRAY-I-Taylor
8281.40 SUPERKILL 1-1 ENDRIN-DDT E.C. (1# ENDRIN-1 # DDT) -I-Taylor
8281.50 SUPERKILL 1½% ENDRIN DUST-I-Taylor
8281.60 SUPERKILL 2% ENDRIN DUST-I-Taylor
8281.70 SUPERKILL ENDRIN E. C. (1.6# per gallon) -I-Taylor
8281.80 SUPERKILL ENDRIN-METHYL PARATHION (1.6 Endrin-1.6 Methyl Parathion) -I-Taylor
8282 SUPERKILL ETHYLENE DICHLORIDE EMUL., Ethylene dichloride 90%-IF-Taylor
8283 SUPERKILL 11.4% FERBAM DUST-F-Taylor
8283.20 SUPERKILL FERMATE-DDT TOBACCO BED DUST, DDT, ferbam-I-Taylor
8283.25 SUPERKILL FOGGING CONCENTRATE (Malathion-Lethane), Malathion, organic thiocyanates-I-Taylor
8283.30 SUPERKILL 2% GRANULAR ALDRIN-I-Taylor
8283.35 SUPERKILL 5% GRANULAR ALDRIN-I-Taylor
8283.40 SUPERKIL 10% GRANULAR ALDRIN-I-Taylor
8283.45 SUPERKILL 20% GRANULAR ALDRIN-I-Taylor
8283.50 SUPERKILL 10% GRANULAR CHLORDANE-I-Taylor
8283.55 SUPERKILL 2½% GRANULAR DIELDRIN-I-Taylor
8283.60 SUPERKILL 2½ GRANULAR HEPTACHLOR-I-Taylor
8283.65 SUPERKILL 10% GRANULAR HEPTACHLOR-I-Taylor
8283.70 SUPERKILL 20% GRANULAR HEPTACHLOR-I-Taylor
8283.75 SUPERKILL 25% GRANULAR HEPTACHLOR-I-Taylor
8284 SUPERKILL 2½-0-0 HEPTACHLOR COTTON DUST, Heptachlor 2.5%-I-Taylor
8285 SUPERKILL 2½-5-0 HEPTACHLOR COTTON DUST, DDT 5%, heptachlor 2.5%-I-Taylor

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8286 SUPERKILL 2½-5-40 HEPTACHLOR COTTON DUST, DDT 5%, heptachlor 2.5%, sulfur 40%-FI-Taylor
8287 SUPERKILL 2½-10-0 HEPTACHLOR COTTON DUST, DDT 10%, heptachlor 2.5%-I-Taylor
8288 SUPERKILL 2½-10-40 HEPTACHLOR COTTON DUST, DDT 10%, heptachlor 2.5%, sulfur 40%-FI-Taylor
8288.50 SUPERKILL 10% HEPTACHLOR DUST-I-Taylor
8289 SUPERKILL 23% HEPTACHLOR EMULSIFIABLE CONC.-I-Taylor
8290 SUPERKILL LIME SULPHUR SOLN, Calcium polysulfide 29%-FI-Taylor
8291 SUPERKILL 4% MALATHION DUST-I-Taylor
8291.25 SUPERKILL 5% MALATHION DUST-I-Taylor
8291.50 SUPERKILL 10% MALATHION DUST-I-Taylor
8291.75 SUPERKILL 55% MALATHION E. C. (Premium Grade) -I-Taylor
8292 SUPERKILL 50% MALATHION EMULSIFIABLE CONC.-I-Taylor
8292.25 SUPERKILL MALATHION PEACH SPRAY (Malathion-Sulphur) -FI-Taylor
8292.50 SUPERKILL METHYL PARATHION 4-E-FI-Taylor
8292.75 SUPERKILL NEW ROACH & ANT KILLER (Diazinon) -I-Taylor
8293 SUPERKILL OIL EMULSION 66.6%-I-Taylor
8293.50 SUPERKILL 2½ P-5 DUST (METHYL PARATHION-DDT) -I-Taylor
8293.75 SUPERKILL 2½ P-10 DUST (METHYL PARATHION-DDT) -I-Taylor
8294 SUPERKILL 1% PARATHION DUST-I-Taylor
8295 SUPERKILL 23% PARATHION EMULSIFIABLE CONC.-I-Taylor
8296 SUPERKILL PEACH DUST, Parathion 1.5%, sulfur 80%-FI-Taylor
8297 SUPERKILL PEACH SPRAY NO. 1, Parathion 2.75%, sulfur 75%-FI-Taylor
8298 SUPERKILL PEACH SPRAY NO. 2, Parathion 3.7%, sulfur 75%-FI-Taylor
8299 SUPERKILL PEACH SPRAY NO. 3, Lead arsenate 11.5%, sulfur 34%-FI-Taylor
8299.50 SUPERKILL PEACH SPRAY NO. 4 (Zinc-Sulphur) -FI-Taylor
8299.75 SUPERKILL PEACH SPRAY NO. (Parathion-Sulphur Nu-Z) -FI-Taylor
8300 SUPERKILL 5% PENTACHLOROPHENOL-WP-Taylor
8301 SUPERKILL 40% PENTACHLOROPHENOL-WP-Taylor
8301.50 SUPERKILL ROACH KILLER (Contains Diazinon)-I-Taylor
8302 SUPERKILL 0.75% ROTENONE, Rotenone 6.75%, sulfur-FI-Taylor
8302.50 SUPERKILL 1% ROTENONE DUST-I-Taylor
8303 SUPERKILL 20% SABADILLA DUST-I-Taylor
8303.50 SUPERKILL 1 ¾ SEVIN® DUST (Carbaryl) -I-Taylor
8304 SUPERKILL 2% SEVIN® DUST 1-Naphthyl-N-methylcarbamate 2%-I-Taylor
8305 SUPERKILL 5% SEVIN® DUST (Carbaryl)-Taylor
8306 SUPERKILL 7½% SEVIN® DUST (Carbaryl) -I-Taylor
8306.20 SUPERKILL 10% SEVIN® DUST (Carbaryl) -I-Taylor
8306.40 SUPERKILL 1 ¾% SEVIN®-60% SULPHUR DUST (Carbaryl-sulfur) -FI-Taylor
8306.60 SUPERKILL 5% SEVIN®-85% SULPHUR DUST-I-Taylor
8306.80 SUPERKILL 7½% SEVIN®-60% SULPHUR DUST (Carbaryl-Sulfur) -I-Taylor
8307 SUPERKILL 80% SULPHUR DUST-FI-Taylor
8308 SUPERKILL 90% SULPHUR DUST-FI-Taylor
8308.50 SUPERKILL 93% SULPHUR DUST-FI-Taylor
8309 SUPERKILL 95% SULPHUR DUST-FI-Taylor
8310 SUPERKILL 99% SULPHUR DUST-FI-Taylor
8311 SUPERKILL SUPERIOR OIL, Petroleum oils 97%-I-Taylor
8312 SUPERKILL 10% TDE DUST-I-Taylor
8312.50 SUPERKILL 50% TDE DUST BASE-IC-Taylor
8313 SUPERKILL 24% TDE EMULSIFIABLE CONC.-I-Taylor
8313.25 SUPERKILL 10% TDE TOBACCO DUST-I-Taylor
8313.50 SUPERKILL THIODAN® 50-W (Endosulfan 50%) -I-Taylor
8313.75 SUPERKILL THIRAM-TERRACLOR COTTON SOIL FUNGICIDE-F-Taylor
8314 SUPERKILL TOBACCO DUST NO. 1, Parathion 1%, TDE 10%-I-Taylor
8314.50 SUPERKILL TOBACCO DUST NO. 51 (5% Carbaryl-1% Parathion) -I-Taylor
8314.75 SUPERKILL TOBACCO DUST NO. 101 (10% Carbaryl-1% Parathion) -I-Taylor
8315 SUPERKILL TOMATO DUST, Copper 6%, DDT 5%-FI-Taylor
8315.50 SUPERKILL TOMATO DUST NO. 7 (Copper-carbaryl) -Taylor
8316 SUPERKILL 20% TOXAPHENE COTTON DUST, Toxaphene 20%-I-Taylor
8317 SUPERKILL 20-40 TOXAPHENE COTTON DUST, Sulfur 40%, toxaphene 20%-FI-Taylor
8317.40 SUPERKILL 14-7 TOXAPHENE-DDT DUST-I-Taylor
8317.50 SUPERKILL 20-10 TOXAPHENE-DDT COTTON DUST-I-Taylor
8317.60 SUPERKILL 4-2 TOXAPHENE-DDT E. C.-I-Taylor
8317.70 SUPERKILL 4-2-1 TOXAPHENE-DDT-METHYL PARATHION-FI-Taylor
8317.80 SUPERKILL 14-7-1 TOXAPHENE-DDT-PARATHION-FI-Taylor

8318 SUPERKILL 60% TOXAPHENE EMULSIFIABLE CONC.-I-Taylor
8318.40 SUPERKILL TRANSPLANT SOLUTION (5% Lindane) -I-Taylor
8318.50 SUPERKILL TRIPLEKILL (Endrin-DDT-Methyl Parathion)-F-Taylor
8318.60 SUPERKILL TRITHION® 2 DUST, Carbophenothion-I-Taylor
8318.70 SUPERKILL TRITHION® 4-E (Carbophenothion), Carbophenothion-FI-Taylor
8318.80 SUPERKILL W-6 BHC WP, BHC 6 lb./gal.-I-Taylor
8319 SUPERKILL 6% WETTABLE BHC-I-Taylor
8320 SUPERKILL 50% WETTABLE CHLORDANE-I-Taylor
8321 SUPERKILL 50% WETTABLE DDT-I-Taylor
8321.50 SUPERKILL 50% WETTABLE DIELDRIN-I-Taylor
8322 SUPERKILL 25% WETTABLE HEPTACHLOR-I-Taylor
8322.50 SUPERKILL 25% WETTABLE LINDANE-I-Taylor
8323 SUPERKILL 25% WETTABLE MALATHION-I-Taylor
8324 SUPERKILL 15% WETTABLE PARATHION-I-Taylor
8325 SUPERKILL WETTABLE SULPHUR, Sulfur 94%-FI-Taylor
8326 SUPERKILL 50% WETTABLE TDE-I-Taylor
8326.50 SUPERKILL 40% WETTABLE TOXAPHENE-I-Taylor
8327 SUPERKILL ZINEB DUST, Zineb 6.5%-F-Taylor
8328 SURE DEATH BRAND ACTIVATED INSECTICIDE, 2% Chlordane-I-Woodbury
8329 SURE DEATH BRAND AIRPARA-MISCIBLE, Parathion 8 lbs./gal.-I-Woodbury
8330 SURE DEATH BRAND BACK RUBBER CONC., 25% Toxaphene-I-Woodbury
8331 SURE DEATH BRAND BAN, 50% DDT-I-Woodbury
8332 SURE DEATH BRAND BHC LIQUID, BHC 1 lb./gal.-I-Woodbury
8333 SURE DEATH BRAND BHC-ROTENONE CONC., 2.5% BHC, 2.5% rotenone-I-Woodbury
8334 SURE DEATH BRAND BUG BUSTER, 1.5% Piperonyl butoxide 0.5%, pyrethrins-IA-IA-Woodbury
8335 SURE DEATH BRAND NO. 4 BUTYL ESTER, Butyl ester of 2,4-D lbs./gal.-H-Woodbury
8336 SURE DEATH BRAND NO. 6 BUTYL ESTER, Butyl ester of 2,4-D 6 lbs./gal.-H-Woodbury
8337 SURE DEATH BRAND BUTYL ESTER 40 LAWN WEED KILLER, Butyl ester of 2,4-D 40%-H-Woodbury
8338 SURE DEATH BRAND 40% BUTYL ESTER, Butyl ester of 2,4-D 40%-H-Woodbury
8339 SURE DEATH BRAND 3.34 LB. BUTYL ESTER ester of 2,4-D 50%-H-Woodbury
8340 SURE DEATH BRAND CAPRIN SEED TREATER, Captan 15%, dieldrin 50%-ST-Woodbury
8341 SURE DEATH BRAND CATTLE GRUB DUST, Rotenone 1.67%, rotenoids 3.33%-I-Woodbury
8342 SURE DEATH BRAND 6% CHLORDANE DUST-I-Woodbury
8343 TABATREX® INSECT REPELLENT, Technical di-*n*-butyl succinate-IR-Glenn Chemical
8344 SURE DEATH BRAND CHLORDANE EMULSION CONC., Chlordane 4 lbs./gal.-I-Woodbury
8346 SURE DEATH BRAND 2,4-D AMINE, Dimethylamine salt of 2,4-D 4 lbs./gal.-IR-Woodbury
8347 SURE DEATH BRAND DAIRY CATTLE SPRAY, Di-n-propyl isocinchomerorate 0.5%, N-octyl bicycloheptene dicarboximide 0.16%, piperonyl butoxide 0.1%-IR-Woodbury
8348 SURE DEATH BRAND DAIRY DUST, Methoxychlor 10.99%, piperonyl butoxide 0.6%, pyrethrins 0.06%-I-Woodbury
8349 SURE DEATH BRAND DAIRY SPRAY OIL TYPE, Piperonyl butoxide 0.4%, Pyrethrins 0.04%-I-Woodbury
8350 SURE DEATH BRAND 50% DDT-I-Woodbury
8351 SURE DEATH BRAND 5% DDT GRANULES 5% DDT-I-Woodbury
8352 SURE DEATH BRAN 10% DDT GRANULES, DDT 10%-I-Woodbury
8354 SURE DEATH BRAND DIAZINON® FLY BAIT, Diazinon 1%-IB-Woodbury
8355 SUR EDEATH BRAND DIELDRIN HOUSEHOLD SPRAY, Dieldrin .4%-I-Woodbury
8356 SURE DEATH BRAND 50% DIELDRIN SEED TREATMENT-ST-Woodbury
8357 SURE DEATH BRAND DIELDRIN WE-18, Dieldrin 1.5 lbs./gal.-I-Woodbury
8358 SURE DEATH BRAND DRI-DUST INSECTICIDE, Naphthalene 22.5%, sulfur 17.5%-I-Woodbury
8359 SURE DEATH BRAND DSMA CRABGRASS KILLER, Disodium methyl arsonate anhydrous 12.6%-H-Woodbury
8360 SURE DEATH BRAND 25% EMULSIFIABLE DDT, 25% DDT-MP-Woodbury
8361 SURE DEATH BRAND EMULSIFIABLE LINDANE, Lindane 12.5%-I-Woodbury
8362 SURE DEATH BRAND END BORER GRANULES 1% Endrin-I-Woodbury
8363 SURE DEATH BRAND ENDRIN 1.6 lb./gal.-I-Woodbury
8364 SURE DEATH BRAND EQ 385 SCREW WORM REMEDY, Lindane 3%-I-Woodbury

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8365 SURE DEATH BRAND FLY SPRAY, Methoxychlor 0.33%, organic thiocyanates 2.5%, pyrethrins 0.064%-I-Woodbury
8366 SURE DEATH BRAND 12 GAMMA BHC, 12% BHC-I-Woodbury
8367 SURE DEATH BRAND GARDEN AND ROSE DUST, DDT 4%, dichlone, sulfur 20%-FI-Woodbury
8368 SURE DEATH BRAND GENERAL PURPOSE FRUIT SPRAY, Ferbam 15.2%, methoxychlor 12.5%, sulfur 24.2%-FI-Woodbury
8369 SURE DEATH BRAND GRAIN BIN SPRAY, Methoxychlor 5%-I-Woodbury
8370 SURE DEATH BRAND HEPTACHLOR 2E, 2 lbs./gal.-I-Woodbury
8371 SURE DEATH BRAND HEPTACHLOR 3E, 3 lbs./gal.-I-Woodbury
8372 SURE DEATH BRAND HEPTACHLOR 20% GRANULES-I-Woodbury
8373 SUR EDEATH BRAND HEPTACHLOR GRASSHOPPER BAIT, Heptachlor 0.1%-IB-Woodbury
8374 SURE DEATH BRAND HEPTACHLOR 25% WETTABLE POWDER-I-Woodbury
8375 SURE DEATH BRAND IFW, DDT 17%, maneb 36%, parathion 5%-FI-Woodbury
8376 SURE DEATH BRAND INSECTICIDE, DDT 5%-I-Woodbury
8377 SURE DEATH BRAND LAWN WEED KILLER, Isooctyl ester of 2,4-D 11%, isooctyl ester of 2,4,5-T 2.56%-H-Woodbury
8378 SURE DEATH BRAND LEAD ARSENATE 98%-I-Woodbury
8379 SURE DEATH BRAND LINDANE 25% W-P INSECTICIDE & SEED TREATMENT-ST-Woodbury
8380 SURE DEATH BRAND LOUSE & CHIGGER DUST, 1% lindane-I-Woodbury
8381 SURE DEATH BRAND LOW-VOL 2,4-D, Isooctyl ester of 2,4-D 4 lbs./gal.-H-Woodbury
8382 SURE DEATH BRAND MALACIDE GRAIN PROTECTANT, Malathion 5 lbs./gal.-I-Woodbury
8383 SURE DEATH BRAND MALATHION W-E, 5 lbs./gal.-I-Woodbury
8384 SURE DEATH BRAND MALATHION WETTABLE POWDER 25%-I-Woodbury
8385 SURE DEATH BRAND MCP-4-AMINE, MCP Acid 4 lbs./gal.-H-Woodbury
8386 SURE DEATH BRAND METHOXYCHLOR "50", 50%-I-Woodbury
8387 SURE DEATH BRAND METHOXYCHLOR EMULSIFIABLE CONC., Methoxychlor 24%-I-Woodbury
8389 SURE DEATH BRAND OILER INSECTICIDE NO. L, Butoxypolypropylene glycol 7%, lindane 0.06%, toxaphene 5%-I-Woodbury
8390 SURE DEATH BRAND PARATHION 2 LBS. O.S., 2 lbs./gal.-I-Woodbury
8391 SURE DEATH BRAND PHOSDRIN EC, 2-Carbomethoxy-1-propene-2yl dimethyl phosphate 2 lb./gal.-I-Woodbury
8392 SURE DEATH BRAND PREMISE SPRAY, Di-n-isocinchomeronate 2%, N-octyl bicycloheptene dicarboximide 2%-I-Woodbury
8393 SURE DEATH BRAND RAT & MOUSE KILLER, Fumarin 0.025%-R-Woodbury
8394 SURE DEATH BRAND RAT & MOUSE KILLER CONC., Coumafuryl 0.5%-R-Woodbury
8395 SURE DEATH BRAND ROACH KILLER, Chlordane 5%, pyrethrins 0.115%-I-Woodbury
8396 SURE DEATH BRAND ROTENONE GARDEN DUST, Rotenoids 1.6%, rotenone 1%-I-Woodbury
8397 SURE DEATH BRAND ROTENONE WETTABLE POWDER, Rotenone 5%, rotenoids 10%-I-Woodbury
8398 SURE DEATH BRAND SEED TREATER, Lindane 15%-ST-Woodbury
8399 SURE DEATH BRAND SODIUM FLUORIDE 95%-I-Woodbury
8400 SURE DEATH BRAND STOCK & BARN SPRAY, Chlordane 12.5%, DDT 12.5%-I-Woodbury
8401 SURE DEATH BRAND 2,4,5-T CONC., Butyl ester of 2,4,5-T acid 4 lbs./gal.-H-Woodbury
8402 SURE DEATH BRAND 2,4,5-T LOW VOLATILE CONC., Isooctyl ester of 2,4,5-T 4 lbs./gal.-H-Woodbury
8403 SURE DEATH BRAND TDE EMULSION 25%-I-Woodbury
8404 SURE DEATH BRAND TOMATO DUST, Copper 6%, methoxychlor 5%-FI-Woodbury
8405 SURE DEATH BRAND TOXAPHENE, 6 lbs./gal.-I-Woodbury
8406 SURE DEATH BRAND TOXAPHENE EMULSION CONC., 8 lbs./gal.-I-Woodbury
8408 SWAT KILL, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 0.5%, oil 69.187%, 0.261% piperonyl butoxide, 0.052% pyrethrins-IA-Hayes-Sammons
8409 SWIFT'S GOLD BEAR A-2-E, 2 lbs. Heptachlor per gal., related compounds 8.6%, oil 63.1%-I-Swift
8410 SWIFT'S GOLD BEAR ALDRIN W-4-EF, (for use with liquid plant foods) 4 lbs./gal. IC-Swift

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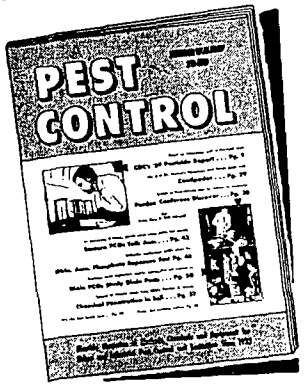

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8411 SWIFT'S GOLD BEAR "6-BD", SELECTIVE WEED CONTROL, Butyl ester of 2,4-D 78.0% (6 lbs. 2,4-D acid per gal.)-H-Swift
8412 SWIFT'S GOLD BEAR B-1-E, 1 lb. actual BHC (Gamma isomer) per gal., oil 69.2%-I-Swift
8413 SWIFT'S GOLD BEAR CORN SPRAY OIL, DDT 8%, refined mineral oil 69%-I-Swift
8414 SWIFT'S GOLD BEAR D-2-E, 2 lbs. DDT per gal. (23.5%), oil 72.5%-I-Swift
8415 SWIFT'S GOLD BEAR E-1.6-E, 1.6 lbs. Endrin per gal., oil 75.0%-I-Swift
8416 SWIFT'S GOLD BEAR G-5-E, 5 lbs. malathion per gal (55%), oil 34%-I-Swift
8417 SWIFT'S GOLD BEAR GRAIN FUME, STORED GRAIN FUMIGANT, Carbon disulfide, carbon tetrachloride, petroleum ether, sulfur dioxide-IF-Swift
8418 SWIFT'S GOLD BEAR GRAIN GUARD, 5 lbs. malathion per gal. (55%), oil 37%-I-Swift
8419 SWIFT'S GOLD BEAR LIVESTOCK SPRAY NO. 1, Di-*n*-butyl succinate 0.5%, oil 99.32%, piperonyl butoxide 0.15%, pyrethrins 0.03%-I-Swift
8420 SWIFT'S GOLD BEAR "LV-2D" SELECTIVE WEED CONTROL, 2-Ethyl hexyl (isooctyl) ester of 2,4-D 38.8%, (2 lbs. 2,4-D acid per gal.)-H-Swift
8421 SWIFT'S GOLD BEAR "LV-70" SELECTIVE WEED CONTROL, 2-Ethyl hexyl (isooctyl) ester of 2,4-D 69%, (4 lbs. 2,4-D acid per gal.)-H-Swift
8422 SWIFT'S GOLD BEAR "MCP" SELECTIVE WEED CONTROL, Dimethyl amine 52% (4 lbs. MCP acid per gal.)-Swift
8423 SWIFT'S GOLD BEAR "MCP" SELECTIVE WEED CONTROL, Dimethyl amine scale of 2,4-D 52% (4 lbs. MCP acid per gal.)-H-Swift
8424 SWIFT'S GOLD BEAR M4E, 4 lbs. Chlordane per gal., oil-I-Swift
8425 SWIFT'S GOLD BEAR M8E, 8 lbs. Chlordane per gal., oil 22.4%-I-Swift
8426 SWIFT'S GOLD BEAR OIL MILL SPRAY, Lindane 4%, methoxychlor 23.5%, oil 67.5%-I-Swift
8427 SWIFT'S GOLD BEAR "40" SELECTIVE WEED CONTROL, Dimethylamine salts of 2,4-D 49% (4 lbs. 2,4-D acid per gal.)-H-Swift
8428 SWIFT'S GOLD BEAR "44" SELECTIVE WEED CONTROL, Butyl ester of 2,4-D 48.2% (3.34 lbs. 2,4-D acid per gal.)-H-Swift
8429 SWIFT'S GOLD BEAR "55" SELECTIVE WEED CONTROL, Butoxy ethoxy propanol ester of 2,4,5-T 71% (4 lbs. 2,4,5-T acid per gal.)-H-Swift
8430 SWIFT'S GOLD BEAR U-1.5-E, 1.5 lbs. Dieldrin per gal.-I-Swift
8431 SWIFT'S GOLD BEAR V-8-E, 6 lbs. Toxaphene per gal.-I-Swift
8432 SWIFT'S GOLD BEAR V-D-E, 2 lbs. DDT per gal., 4 lbs. Toxaphene-I-Swift
8433 SWIFT'S GOLD BEAR W-2-E, 2 lbs. Aldrin per gal.-I-Swift
8434 SWIFT'S GOLD BEAR W-4-E, 4 lbs. Aldrin per gal.-I-Swift
8435 SWIFT'S GOLD BEAR "WOODY PLANT CONTROL" SELECTIVE WEED CONTROL, Butoxy-ethoxy propanol ester of 2,4-D 28%, butoxy ethoxy propanol ester of 2,4,5-T2 13.18%-H-Swift
8436 SWIFT'S GOLD BEAR Y-2-E, 2 lbs. Parathion per gal.-I-Swift
8437 SWIFT'S GOLD BEAR Y-4-E, 4 lbs. Parathion per gal.-I-Swift
8438 SWIFT'S SUPER GUARD 210 (E.C.), DDT 2 lb., endrin 0.8 lb./gal.-I-Swift
8439 SWIFT'S SUPERGUARD 241 (E.C.), DDT 2 lb. methyl parathion 1 lb., Toxaphene 4 lb./gal.-I-Swift
8440 SWIFT'S SUPER GUARD 281 (E.C.), DDT 2 lb., endrin 0.8 lb., methyl parathion 1 lb./gal.-I-Swift
8441 "SWINGFOG" PORTABLE FOGGER-E-Fog Air
8442 SYSTOX® SPRAY CONCENTRATE, Demeton (O,O-Diethyl-O (and S)-(2-ethyl thioethyl) phosphorothioates) 26.2%-IS-Chemagro
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8444 TAG FUNGICIDE, Phenylmercuric acetate 10%-F-Calif. Chem.
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8446 TAMMS CALCIUM CARBONATE-Diluent for insecticides-D-Tamms
8447 TAMMS CLAY-Diluent for insecticides-D-Tamms
8448 TAMMS DIATOMACEOUS SILICA-Diluent for insecticides-D-Tamms
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8452 TANGLEFOOT RESIDUAL INSECT SPRAY (AEROSOL), Oil 69.18%, piperonyl butoxide 0.261%, pyrethrins 0.052%, diazinon 0.5%-IA-Tanglefoot
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8457 TAT ANT TRAPS, Thallium sulphate 1.25%-IB-Canada Rex
8458 TAT CHLORO 5% DUST, Chlordane 5%-I-Linck
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8460 TAT MO-GO, Thallium sulphate 1%-R-Linck
8461 TAT PTA, Plastic tree wound dressing-A-Linck
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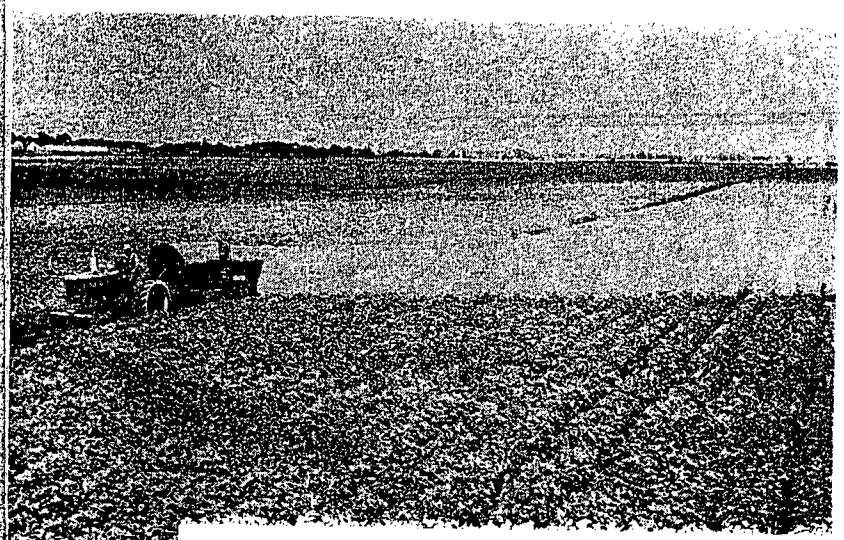
8484.50 TERRACAP WETTABLE, Captan 25%, PCNB 37.50%-F-Kilgore
8485 TERRACLOR® 75 WP, Pentachloronitrobenzene 75%-F-Edco
8486 TERRA-LITE VERMICULITE, Absorbent, low density carrier for pesticides-D-Zonolite
8487 TERRATOX 499 INDUSTRIAL WEED KILLER CMU 8%, sodium borates 78%, sodium chlorate 10%-H-Assoc. Sales
8488 TERSAN® 75, Thiram 75%-F-DuPont (I & B) (F & F)
8489 TERSAN® OM, Hydroxymercurichlorophenol 10%, thiram 45%-F-DuPont (I & B)
TETRADIFON=4-CHLOROPHENYL-2,4,5-TRICHLOROPHENYL SULFONE (TEDION®)
8490 TETRAKOTE LIQUID GRAIN PROTECTANT, Carbon tetrachloride, oil, piperonyl butoxide, pyrethrins-IF-Douglas
8491 THANITE T, Isobornyl thiocyanoacetate-IC-Hercules
8632 THERMAL AEROSOL CONC. NO. 1, Malathion 44.2%, oil 35.2%, organic thiocyanates 19.6%-I-Lorenz
8632.50 THERMOCIDE CONCENTRATE, Butoxy polypropylene glycol 5%, oil 93.2%, piperonyl butoxide 1.5%, pyrethrins 0.3%-I-Empire
8633 THION-VAPOR NO. 151, Parathion 10%-IA-Edco
8634 THIMET® PHORATE, (O,O-Diethyl S-(ethylthio) methyl phosphorodithioate)-IC-Am. Cyanamid
8636 THION-VAPOR NO. 151, Parathion 10%-Edco
8637 THIOPHOS® PARATHION, O,O-Diethyl, O-nitrophenyl phosphorothioate-IC-Am. Cyanamid
8638 THIRAM 50 DUST, Thiram 50%-ST-U.S. Rubber (Naugatuck)
THIRAM = TETRAMETHYL THIURAM DISULFIDE
8639 THIRAM, TECHNICAL, Thiram 99%-F-DuPont (I & B)
8640 THIRAM-75W, Thiram 75%-ST-U. S. Rubber (Naugatuck)
8641 THIURAMAD, Thiuram 75%-F-Mallinckrodt
8642 THIURAM M, Mercury, tetramethyl thiuram disulfide-F-Vineland



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8643 THIURAM-75, Tetramethyl thiuram disulfide 75%-F-Vineland
8644 THOMPSON ACTIVATED FARM BIN SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Thomp. Chem.
8645 THOMPSON ACTIVIATED MILL SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Thomp. Chem.
8646 THOMPSON ANT-ROACH BOMB, Diazinon 0.5%, oil 69.19%, piperonyl butoxide 0.26%, pyrethrins 0.5%-IA-Thomp. Chem.
8647 THOMPSON APHIS MILDEW SPRAY, Copper Oleate 15%, pine oil 10%, piperonyl butoxide 2%, pyrethrins 0.4%, rotenone 1.5%-FI-Thomp. Chem.
8648 THOMPSON CHICKWEED AND CLOVER KILL, Diethanolamine salt of silvex 15.5%-H-Thomp. Chem.
8649 THOMPSON CHLORDANE 45%, Chlordane 45%-I-Thomp. Chem.
8650 THOMPSON CHLORDANE 73%-I-Thomp. Chem.
8651 THOMPSON DAIRY & STOCK SPRAY-READY TO USE, Butoxypolypropylene glycol 5.85%, oil 94%, piperonyl butoxide 0.14%, pyrethrins 0.02%-I-Thomp. Chem.
8652 THOMPSON DDT 25%, DDT 25%-I-Thomp. Chem.
8653 THOMPSON DIELDRIN 18%, Dieldrin 1.5 lbs./gal.-I-Thomp. Chem.
8654 THOMPSON DORMANT SEASON SPRAY, Petroleum oil 97%-I-Thomp. Chem.
8655 THOMPSON EAR TICK BOMB, Lindane 3.5%-IA-Thomp. Chem.
8657 THOMPSON GRUB FIX BOMB, Camphor oil 10%, pine oil 12%, pinene 5%, rotenone 0.2%-IA-Thomp. Chem.
8658 THOMPSON INSECTO FIX, Malathion 2%, toxaphene 5%-I-Thomp. Chem.
8658.50 THOMPSON LIME-SULFUR FUNGICIDE, Calcium polysulfides 26%-FI-Thomp. Chem.
8659 THOMPSON LIVESTOCK FLY BOMB, Allethrin 0.2%, methoxychlor 3%, piperonyl butoxide 1%-IA-Thomp. Chem.
8660 THOMPSON MALATHION 50%, Malathion 50%-I-Thomp. Chem.
8660.50 THOMPSON MULTI-PEST KILL, 4,4'-Dichloro-alpha-trichloromethylbenzhydrol 3%, lindane 5%, malathion 10%, methyl isobutyl ketone 15%, oil 54%, TDE 5%-I-Thomp. Chem.
8661 THOMPSON MULTI-TOX EMULSIFIABLE CONCENTRATE, Malathion 4.3%, oil 25%, toxaphene 4.3%-I-Thomp. Chem.
8662 THOMPSON MULTI-TOX TL, Lindane 2%, oil 25%, toxaphene 45%-I-Thomp. Chem.
8663 THOMPSON NEOSPRAY, Butoxypolypropylene glycol 52.95%, oil 23.84%, piperonyl butoxide 7.49%, pyrethrins 0.75%-I-IR-Thomp. Chem.
8664 THOMPSON OXALIS KILL, Monuron 10%-H-Thomp. Chem.
8665 THOMPSON PENTA 5%, Pentachlorophenol 5%-I-WP-Thomp. Chem.
8666 THOMPSON PENTA CONC., Pentachlorophenol 40%-I-WP-Thomp. Chem.
8668 THOMPSON SCREW WORM BOMB, Lindane 1.8%, pine oil 21%-IA-Thomp. Chem.
8669 THOMPSON SLUG KILL, Metaldehyde 25%-IB-Thomp Chem.
8669.50 THIRAM 65W, Thiram 65%-F-U. S. Rubber (Naugatuck)
8670 THREE WAY DUST, DDT, ferbam, rotenone, sulfur-FI-Dill
8671 THYLATE® THIRAM FUNGICIDE, Thiram 65%-F-DuPont (I & B)
8672 TIFA, Todd insecticidal fog applicator 100-E-E-Products Div., (Todd Shipyards Corp.)
8673 TIFA, Todd insecticidal fog applicator, hand portable SF-5-E-Products Div. (Todd Shipyards Corp.)
8674 TIFA, Todd Insecticidal fog applicator SF-50-E-Products Div. (Todd Shipyards Corp.)
8675 TIGUVON®, O,O-Dimethyl O (4-(methylthio)-m-tolyl) phosphorothioate-I- Chemagro
8676 TIN-SAN, Tributyltin complex 100%-F-ST-Stecker
8677 TIPPON%, 2-2, Butoxy propyl esters of 2,4,5-T 33.0%, butoxy propyl esters of 2,4-D 34.8%-H-Dow
8677.50 TIPPON® T-6 BRUSH KILLER, Butoxyl propyl esters of 2,4-D 90.4%-H-Dow
8678 TOBACCO ENDBUG, Endrin 19.5%-I-Woodbury
8678.32 TOBACCO FORMULA 10% DDT DUST (Tobacco Stem Formula)-I-Taylor
8678.34 TOBACCO FORMULA 5% DDT-30% DITHANE (Zineb) (Tobacca Stem Base)-FI-Taylor
8678.36 TOBACCO FORMULA 10% DDT-10% DITHANE (DDT-Zineb) Tobacco Stem Base-FI-Taylor
8678.38 TOBACCO FORMULA 10% DITHANE DUST, Zineb (Tobacco Stem Base)-F-Taylor
8678.40 TOBACCO FORMULA 20% DITHANE DUST (Zineb) (Tobacco Stem Base)-F-Taylor
8678.42 TOBACCO FORMULA 25% DITHANE DUST (Zineb) (Tobacco Stem Base)-FI-Taylor
8678.44 TOBACCO FORMULA 30% DITHANE DUST (Zineb) (Tobacco Stem Base)-FI-Taylor
8678.46 TOBACCO FORMULA 1¾% ENDRIN DUST (Tobacco Stem Base)-I-Taylor

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WHEAT SEED	Common Smut or Bunt
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8678.48 TOBACCO FORMULA 2% ENDRIN DUST (Tobacco Stem Base) I-Taylor
8678.50 TOBACCO FORMULA 2% ENDRIN-10% DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.52 TOBACCO FORMULA 2% ENDRIN-20% DITHANE DUST (Zineb) (Tobacco Stem Base) FI-Taylor
8678.54 TOBACCO FORMULA 2% ENDRIN-1% PARATHION (TOBACCO Stem Base) -I-Taylor
8678.56 TOBACCO FORMULA 4% MALATHION 10% DDT-10% DITHANE (Malathion-zineb) (Tobacco Stem Base)-FI-Taylor
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8678.60 TOBACCO FORMULA 2% PARATHION DUST (Tobacco Stem Base)-I-Taylor
8678.62 TOBACCO FORMULA 1% PARATHION-5% DDT DUST (Tobacco Stem Base) -I-Taylor
8678.64 TOBACCO FORMULA 1% PARATHION-10% DDT DUST (Tobacco Stem Base) -I-Taylor
8678.66 TOBACCO FORMULA 1% PARATHION-5% DDT-20% DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.68 TOBACCO FORMULA 1% PARATHION-5% DDT-25% DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.70 TOBACCO FORMULA 1% PARATHION-5% DDT-30% DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.72 TOBACCO FORMULA 1%-PARATHION-10% DDT-10% DITHANE (Zineb) (Tobacco Stem Base)-I-Taylor
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8678.76 TOBACCO FORMULA 1% PARATHION-5 DDT-10% TOXAPHENE (Tobacco Stem Base) -I-Taylor
8678.78 TOBACCO FORMULA 1% PARATHION-10% DITHANE (Parathion-zineb) (Tobacco Stem Base) -FI-Taylor
8678.80 TOBACCO FORMULA 1% PARATHION-20 DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.82 TOBACCO FORMULA 1% PARATHION-10% TDE (Tobacco Stem Base) -I-Taylor
8678.84 TOBACCO FORMULA 1% PARATHION-10% TDE-10% DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8678.86 TOBACCO FORMULA 2% ROTENONE-30% SULPHUR DUST (Tobacco Stem Base) -FI-Taylor
8678.88 TOBACCO FORMULA 10% TDE DUST (Tobacco Stem Base) -I-Taylor
8678.90 TOBACCO FORMULA 10% TDE-10 DITHANE (Zineb) (Tobacco Stem Base) -FI-Taylor
8679 TOBACCO STATES BRAND 25% ALDRIN-I-Tobacco States
8680 TOBACCO STATES BRAND ALDRIN 2 LB. EMULSION, Aldrin 23.2%, oil 73.8%-I-Tobacco States
8681 TOBACCO STATES BRAND 4 LB. ALDRIN EMULSION-I-Tobacco States
8682 TOBACCO STATES BRAND 20% ALDRIN GRANULES-I-Tobacco States
8683 TOBACCO STATES BRAND 25% ALDRIN GRANULES-I-Tobacco States
8684 TOBACCO STATES BRAND 40% ALDRIN GRANULES-I-Tobacco States
8685 TOBACCO STATES BRAND BACK RUBBER OIL, 25% DDT, oil-I-Tobacco States
8686 TOBACCO STATES BRAND BARMOLD, Zineb 5%-F-Tobacco States
8687 TOBACCO STATES BRAND BEAN DUST, 1-Naphthyl-N-methylcarbamate 1.75%-I-Tobacco States
8688 TOBACCO STATES BRAND 10% B-H-C WETTABLE POWDER-I-Tobacco States
8689 TOBACCO STATES BRAND BLACK SHANK SOLUTION, Nabam 19%-F-Tobacco States
8690 TOBACCO STATES BRAND BLIGHT & INSECT DUST, Captan 5%, malathion 4%, methoxychlor 3%-FI-Tobacco States
8691 TOBACCO STATES BRAND BLITZ, DDT 5%, oil, pyrethrins, sesamin-I-Tobacco States
8692 TOBACCO STATES BRAND CAPTAN 7½% DUST READY MIXED-F-Tobacco States
8693 TOBACCO STATES BRAND CAPTAN 7½% & MALATHION 5% READY MIXED DUST-FI-Tobacco States
8694 TOBACCO STATES BRAND CATTLE GRUB DUST, Rotenoids 2.6%, rotenone 1.5%-FI-Tobacco States
8695 TOBACCO STATES BRAND CHLORDANE 4 LB. EMULSION CONCENTRATE, Chlordane 45%, oil 40%-I-Tobacco States
8696 TOBACCO STATES BRAND 5% CHLORDANE DUST-I-Tobacco States
8697 TOBACCO STATES BRAND 8 LB. CHLORDANE EMULSION-H-I-Tobacco States

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†Trademark A P & C C

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958870226

8698 TOBACCO STATES BRAND 50% CHLORDANE WETTABLE POWDER-I-Tobacco States
8699 TOBACCO STATES BRAND COPPER SULPHATE, Copper sulphate-T-Tobacco States
8700 TOBACCO STATES BRAND CUBE ROOT POWDER, Rotenoids 7.5%, rotenone 5%-I-Tobacco States
8701 TOBACCO STATES BRAND 8-1 CUKE DUST, Maneb 6.4%, lindane 1%-FI-Tobacco States
8702 TOBACCO STATES BRAND 2 LB DDT, DDT 22.98%, oil 74.02%-I-Tobacco States
8703 TOBACCO STATES BRAND 5% DDT READY MIXED DUST-I-Tobacco States
8704 TOBACCO STATES BRAND 10% DDT READY MIXED DUST-I-Tobacco States
8705 TOBACCO STATES BRAND 5% DDT GRANULES-I-Tobacco States
8706 TOBACCO STATES BRAND DDT 50% WETTABLE POWDER-I-Tobacco States
8707 TOBACCO STATES BRAND 1.5 LB DIELDRIN EMULSION CONCENTRATE-I-Tobacco States
8708 TOBACCO STATES BRAND 10% DIELDRIN GRANULES-I-Tobacco States
8709 TOBACCO STATES BRAND 50% DIELDRIN WETTABLE POWDER-I-Tobacco States
8710 TOBACCO STATES BRAND DITHANE® Z-78, Zineb 65%-F-Tobacco States
8711 TOBACCO STATES BRAND ENDRIN EMULSIFIABLE CONCENTRATE, Endrin 19.5%, oil 70.5%-I-Tobacco States
8712 TOBACCO STATES BRAND 1½% ENDRIN DUST-I-Tobacco States
8713 TOBACCO STATES BRAND ESTER BRUSH KILLER, 2-2, Butyl ester 2,4-D 27.75%, butyl ester of 2,4,5-T 26.99%-H-Tobacco States
8714 TOBACCO STATES BRAND ESTER 210 LOW VOLATILE WEED KILLER, 2,4-D Isooctyl esters 38%-H-Tobacco States
8715 TOBACCO STATES ESTEX 2-20 BRUSH KILLER, 34.27% 2,4-D, isooctyl esters, 34.7% 2,4,5-T-H-Tobacco States
8716 TOBACCO STATES BRAND ESTER 410 WEED KILLER, 4 lb. 2,4-D isooctyl esters -H- Tobacco States
8717 TOBACCO STATES BRAND 15% FERMATE® DUST, Ferbam 15% F-Tobacco States
8718 TOBACCO STATES BRAND FLEA BEETLE DUST, 1-Naphthyl-N-methylcarbamate 5%-I-Tobacco States
8719 TOBACCO STATES BRAND FLOWER AND SHRUB SPRAY, Dieldrin, lindane, malathion-I-Tobacco States
8720 TOBACCO STATES BRAND FLY-AWAY, Butoxypropylene glycol 18.250%, oil 80.693%, piperonyl butoxide 1.870%, pyrethrins 0.187%-I-Tobacco States
8721 TOBACCO STATES BRAND HEAVY DUTY GARDEN DUST, Rotenoids 2.5%, rotenone 1.5%-I-Tobacco States
8722 TOBACCO STATES BRAND 2 LB HEPTACHLOR EMULSION CONCENTRATE, Heptachlor 23.4%, oil 61.4%-I-Tobacco States
8723 TOBACCO STATES BRAND HEPTACHLOR 2½% GRANULES-I-Tobacco States
8724 TOBACCO STATES BRAND HEPTACHLOR 20% GRANULES-I-Tobacco States
8725 TOBACCO STATES BRAND HOME ORCHARD FRUIT SPRAY, DDT 7.5%, ferbam 10.5%, lead arsenate 28.8%-FI-Tobacco States
8726 TOBACCO STATES BRAND HOPPER AND WORM SPRAY, Dieldrin 2.13%, oil 72.17%, TDE 22.70%-I-Tobacco States
8727 TOBACCO STATES BRAND IMPROVED HOPPER & WORM DUST, Dieldrin 1.5%, TDE 10%-I-Tobacco States
8728 TOBACCO STATES BRAND INSTANT FLY BAIT, DDVP, 0.5%-IB-Tobacco States
8729 TOBACCO STATES BRAND LICE & TICK POWDER, Lindane 1%-I-Tobacco States
8730 TOBACCO STATES BRAND 25% LINDANE WETTABLE POWDER-I-Tobacco States
8731 TOBACCO STATES BRAND 20% LINDANE TRANSPLANTER SOLUTION-I-Tobacco States
8732 TOBACCO STATES BRAND 10% LINDANE NO. 2 TRANSPLANTER SOLUTION-I-Tobacco States
8733 TOBACCO STATES BRAND LIVESTOCK SPRAY, Oil, piperonyl butoxide, pyrethrins-I-Tobacco States
8734 TOBACCO STATES BRAND 50% MALATHION EMULSION CONCENTRATE-I-Tobacco States
8735 TOBACCO STATES BRAND 57% MALATHION EMULSIFIABLE CONCENTRATE-I-Tobacco S tates
8736 TOBACCO STATES BRAND 4% MALATHION HORNFLY SPECIAL, Malathion 4%-I-Tobacco States
8737 TOBACCO STATES BRAND 5% MALATHION READY MIXED DUST-I-Tobacco States

8738 TOBACCO STATES BRAND 25% MALATHION WETTABLE POWDER-I-Tobacco States
8739 TOBACCO STATES BRAND 7½% METHOXY GARDEN DUST-I-Tobacco States
8740 TOBACCO STATES BRAND 24% METHOXYCHLOR EMULSION CONCENTRATE-I-Tobacco States
8741 TOBACCO STATES BRAND 50% METHOXYCHLOR WETTABLE POWDER-I-Tobacco States
8742 TOBACCO STATES BRAND NEW GENERAL PURPOSE FRUIT SPRAY, Captan 13.34%, malathion 10%, methoxychlor 16.65%-FI-Tobacco States
8743 TOBACCO STATES BRAND PARATHION 2 LB EMULSIFIABLE CONCENTRATE-I-Tobacco States
8744 TOBACCO STATES BRAND 1% PARATHION DUAT-I-Tobacco States
8745 TOBACCO STATES BRAND 1% PARATHION & 5% RHOTHANE® DUST, Parathion 1%, TDE 5%-I-Tobacco States
8746 TOBACCO STATES BRAND 1% PARATHION & 10% RHOTHANE® DUST, Parathion 1%, TDE 10%-I-Tobacco States
8747 TOBACCO STATES BRAND 1 PARATHION-10% SEVIN®, 10% 1-Naphthyl-N-methylcarbamate, 1% parathion-I-Tobacco States
8748 TOBACCO STATES BRAND PLANT BED & LAWN SAVER, Dieldrin 2.5%-I-Tobacco States
8749 TOBACCO STATES BRAND PLANT BED SOIL FUMIGANT 50D, 50% Mylone-F-Tobacco States
8750 TOBACCO STATES BRAND POTATO SPRAY, DDT 10%, zineb 13%-FI-Tobacco States
8751 TOBACCO STATES BRAND PRESSURIZED INSECT KILLER, DDT, methoxychlor, organic thiocyanates-IA-Tobacco States
8752 TOBACCO STATES BRAND QUICK-KILL, Oil, organic thiocyanates, 1,1-Dichloro-2,-2-bis (p-ethylphenyl) ethane-I-Tobacco States
8753 TOBACCO STATES BRAND 10% RHOTHANE® DUST, TDE 10%-I-Tobacco States
8754 TOBACCO STATES BRAND 2 LB RHOTHANE® EMULSION, TDE-I-Tobacco States
8755 TOBACCO STATES BRAND 400 RHOTHANE® 3% TDE-I-Tobacco States
8756 TOBACCO STATES BRAND ROACH & ANT SPRAY, Malathion, oil, piperonyl butoxide, pyrethrins-I-Tobacco States
8757 TOBACCO STATES BRAND ROACH AND ANT SPRAY PRESSURIZED, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate-IA-Tobacco States
8758 TOBACCO STATES BRAND ROSE DUST, DDT 5%, zineb 6%, 2-(p-tert-butylphenoxy) isopropyl 2-chloroethyl sulfite 1.5%, lindane 1%, 2,4-dinitro 6-(2-octyl) phenyl crotonate 0.9%-FI-Tobacco States
8759 TOBACCO STATES BRAND 1% ROTENONE & 3% DDT-I-Tobacco States
8760 TOBACCO STATES BRAND ROTENONE 0.75% GARDEN DUST-I-Tobacco States
8761 TOBACCO STATES BRAND 1% ROTENONE GARDEN DUST-I-Tobacco States
8762 TOBACCO STATES BRAND 100 ROTENONE 3% DDT WITH 10%, DDT 3%, rotenone 1%, rotenoids 1.75%, sulfur 10%-FI-Tobacco States
8763 TOBACCO STATES BRAND SEED TREATER D, Captan 12.5%, dieldrin 25%-ST-Tobacco States
8764 TOBACCO STATES BRAND SPECIAL PYRENONE® MIST CONCENTRATE, Oil, pipernyl buotxide, pyrethrins-I-Tobacco States
8765 TOBACCO STATES BRAND SODIUM FLUORIDE, Sodium fluoride 90%-I-Tobacco States
8766 TOBACCO STATES BRAND STREPTOMYCIN FORMULA 150, Streptomycin 15%-Antibiotic-F-Tobacco States
8767 TOBACCO STATES BRAND STREPTOMYCIN FORMULA 85 ANTIBIOTIC SPRAY POWDER, Streptomycin 8.5%-Antibiotic-F-Tobacco States
8768 TOBACCO STATES BRAND TOBACCO INSECT DUST, 10% 1-Naphthyl-N-methylcarbamate-I-Tobacco States
8769 TOBACCO STATES BRAND THIODAN® 2 EMULSION, 24% Endosulfan-I-Tobacco States
8770 TOBACCO STATES BRAND TOBACCO INSECT DUST, 10% 1-Naphthyl-N-methylcarbamate-I-Tobacco States
8771 TOBACCO STATES BRAND TOBACCO INSECT SPRAY, Aldrin 5.68%, TDE 22.72%, oil 67.60%-I-Tobacco States
8772 TOBACCO STATES BRAND TOMATO COPPER DUST, Copper 7%-F-Tobacco States
8773 TOBACCO STATES BRAND TOMATO MULTI-PURPOSE DUST, TDE 5%, zineb 5%-I-Tobacco States
8774 TOBACCO STATES BRAND TOX 450 DIP SPRAY CONCENTRATE, 2% Lindane, 45% toxaphene-I-Tobacco States

8775 TOBACCO STATES BRAND TOXAPHENE, Oil 29.8%, toxaphene 60.2%-I-Tobacco States
8776 TBACCO STATES BRAND 20% TOXAPHENE DUST-I-Tobacco States
8777 TOBACCO STATES BRAND NO. 1 TRANSPLANTER SOLUTION, Lindane 5%-I-Tobacco States
8778 TOBACCO STATES BRAND TRI-BASIC COPPER SULPHATE, Copper 53%-F-Tobacco States
8779 TOBACCO STATES BRAND VEGETABLE & FLORAL SPRAY, Captan 13.34%, malathion 10%, methoxychlor 16.65%-FI-Tobacco States
8780 TOBACCO STATES BRAND WEED SEED KILLER, Allyl alcohol 98%-H-Tobacco States
8781 TOMATO D ST, Copper zinc chromate complex 2%, piperonyl butoxide 0.6%, pyretrins 0.06%, sulfur 30%-FI-Destruxol
8782 TOXAPHENE, Chlorinated camphene with chlorine content of 67 to 69%-IC-Hercules
8782.50 TOXAPHENE-KILCOP-MANGANESE-ZINE-SULPHUR DUST NO. 2, Copper 6.36%, manganese 2.36%, sulphur 45%, toxaphene 10%, zinc 1.56%-FI-N-Kilgore
8782.75 TOXAPHENE-KILCOP-SULPHUR DUST NO. 3, Copper 2.5%, sulphur 54%, toxaphene 10%-FI-Kilgore
8783 TOX-EOL HEPTACHLOR, (Various concentrations) -I-Cre-O-Tox
8784 TOX-EOL WA-1, Benzene hexachloride-I-Cre-O-Tox
8785 TOX-EOL WH5, Various formulations of concentrated chlordane and heptachlor-I-Cre-O-Tox
8786 TOX-EOL WO-AL, Chlordane and benzene hexachloride-I-Cre-O-Tox
8787 TOXI-DIEL, DIELDRIN-I-Cre-O-Tox
8789 TOXIMUL 500 EMULSIFIER-A-Stepan
8790 TOXIMUL 600 EMULSIFIER-A-Stepan
8791 TOXIMUL LF EMULSIFIER-A-Stepan
8792 TOXIMUL MP EMULSIFIER-A-Stepan
8793 TOXIMUL P EMULSIFIER-A-Stepan
8794 TOXIMUL R EMULSIFIER-A-Stepan
8795 TOXIMUL S EMULSIFIER-A-Stepan
8796 TOXISOL B, Aromatic petroleum insecticide solvent-D-Richfield
8797 TOXISOL PX, Aromatic petroleum insecticide solvent-D-Richfield
8798 TREE TANGLEFOOT (BULK), Castor oil, natural gum resins, vegetable wax-ANR-Tanglefoot
8799 TREE TANGLEFOOT PRESSURIZED (AEROSOL), Hydrogenated castor oil, polybutenes-ANR-Tanglefoot
8800 TRI EXCEL DUST CONC., N-Propyl isome 2.5%, pyrethrins 0.25%, rotenoids 2.5%, rotenone 1.25%-IC-Penick
8801 TRIANGLE 25% ALDRIN DUST CONC.-IC-Triangle
8802 TRIANGLE 4# ALDRIN PER GAL. EMULSIFIABLE CONC.-I-Triangle
8803 TRIANGLE 10% ALDRIN GRANULES 30/60 MESH-I-Triangle
8804 TRIANGLE 25% ALDRIN WETTABLE POWDER-I-Triangle
8805 TRIANGLE 3-5-0 BHC-DDT DUST-I-Triangle
8806 TRIANGLE 3-10-0 BHC-DDT DUST-I-Triangle
8807 TRIANGLE 3-0-0 BHC DUST-I-Triangle
8808 TRIANGLE 12% GAMMA BHC EMULSIFIABLE CONC.-I-Triangle
8809 TRIANGLE 12% GAMMA BHC WETTABLE POWDER-I-Triangle
8810 TRIANGLE 5% CHLORDENE DUST-I-Triangle
8811 TRIANGLE 10% CHLORDANE DUST-I-Triangle
8812 TRIANGLE 40% CHLORDANE DUST CONC.-IC-Triangle
8813 TRIANGLE 4 LB. PER GAL. CHLORDANE EMULSIFIABLE CONC.-I-Triangle
8814 TRIANGLE 8 LB. CHLORDANE PER GAL. EMULSIFIABLE CONC.-I-Triangle
8815 TRIANGLE 10% CHLORDANE GRANULES-I-Triangle
8816 TRIANGLE 40% CHLORDANE WETTABLE POWDER-I-Triangle
8817 TRIANGLE COPPER NAPHTHENATE 8% COPPER CONC.-WP-Triangle
8818 TRIANGLE COPPER NAPHTHENATE 1% COPPER SOLU.-WP-Triangle
8819 TRIANGLE D-D® FUMIGANT, Chlorinated C-3 hydrocarbons-IF-Triangle
8820 TRIANGLE 5% DDT DUST-I-Triangle
8821 TRIANGLE 10% DDT DUST-I-Triangle
8822 TRIANGLE 50% DDT DUST CONC.-IC-Triangle
8823 TRIANGLE DIE FLY® GRANULES 0.5% DDVP-IB-Triangle
8824 TRIANGLE DIE-PEST E. C., DDVP 25%-I-Triangle
8825 TRIANGLE DIE ROACH® SPRAY, Diazinon 0.5%, oil, piperonyl butoxide 2.61%, pyrethrins 0.052%-I-Triangle
8826 TRIANGLE DIE RODENT CONC., 1.1% Calcium salt of 2 isovaleryl-1,3 indandione-R-Triangle

8827 TRIANGLE DIE RODENT RAT & MOUSE BAIT, 0.55% Calcium salt of 2 isovaleryl-1-1,3-indandione-R-Triangle
8828 TRIANGLE DIE SKEETER FOG OIL, 27.5% Malathion, 23% organic thiocyanates-Oil-I-Triangle
8829 TRIANGLE DIE-SLUG® EMULSION CONC., Dieldrin 0.5%, metaldehyde 20%-IB-Triangle
8830 TRIANGLE DIE TERMITE® CONC., E.C., 1% BHC Gamma, 19.8% dieldrin, oil-I-Triangle
8831 TRIANGLE 1½# DIELDRIN EMULSIFIABLE CONC.-I-Triangle
8832 TRIANGLE 5% DIELDRIN GRANULES-I-Triangle
8833 TRIANGLE 20% ENDRIN E.C.-I-Triangle
8834 TRIANGLE 2% ENDRIN DUST-I-Triangle
8835 TRIANGLE 2# HEPTACHLOR E.C.-I-Triangle
8836 TRIANGLE 5% HEPTACHLOR GRANULES-I-Triangle
8837 TRIANGLE 10% HEPTACHLOR GRANULES-I-Triangle
8838 TRIANGLE 20% IRON CHELATE GRANULES-N-Triangle
8839 TRIANGLE 20% LINDANE E.C.-I-Triangle
8840 TRIANGLE 25% LINDANE WETTABLE POWDER-I-Triangle
8841 TRIANGLE 5% MALATHION DUST-I-Triangle
8842 TRIANGLE 50% MALATHION E.C.-I-Triangle
8843 TRIANGLE 57% MALATHION E.C.-I-Triangle
8844 TRIANGLE 25% MALATHION WETTABLE POWDER-I-Triangle
8845 TRIANGLE 6% MANEB DUST-F-Triangle
8846 TRIANGLE 25% METHYL PARATHION E.C.-I-Triangle
8847 TRIANGLE NEMAGON® E. C., 1,2-Dibromo-3-chloropropane-IF-Triangle
8848 TRIANGLE 30% NEMAGON® GRANULES, 1,2-Dibromo-3-chloropropane 30%-H-Triangle
8849 TRIANGLE 2% PARATHION DUST-I-Triangle
8850 TRIANGLE 25% PARATHION E.C.-I-Triangle
8851 TRIANGLE 4# PARATHION EMULSION-I-Triangle
8852 TRIANGLE 15% PARATHION WETTABLE POWDER-I-Triangle
8853 TRIANGLE 10:1 PENTACHLOROPHENOL CONC.-WP-Triangle
8854 TRIANGLE 5% PENTACHLOROPHENOL OIL SOLUTION-WP-Triangle
8855 TRIANGLE 5% PENTACHLOROPHENOL WATER REPELLENT-WP-Triangle
8856 TRIANGLE 2% PHOSDRIN® DUST, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 2%-I-Triangle
8857 TRIANGLE PHOSDRIN® 2-E. C., 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 25%-I-Triangle
8858 TRIANGLE PINE BEETLE SPRAY, 12% Gamma BHC-I-Triangle
8859 TRIANGLE 300 PPM GIBBERLLIN CONC.-PH-Triangle
8860 TRIANGLE 40% SODIUM ARSENITE SOLUTION-I-H-Triangle
8861 TRIANGLE 15% STREPTOMYCIN WETTABLE POWDER,-Antibiotic-F-Triangle
8862 TRIANGLE 40% TEPP CONC.-I-Triangle
8863 TRIANGLE 20% TOXAPHENE DUST-I-Triangle
8864 TRIANGLE 4-2 TOXAPHENE E.C.-I-Triangle
8865 TRIANGLE 6# TOXAPHENE E.C.-I-Triangle
8866 TRIANGLE 8# TOXAPHENE E.C.-I-Triangle
8867 TRIANGLE 40% TOXAPHENE WETTABLE POWDER-I-Triangle
8868 TRIANGLE 6% ZINEB DUST-F-Triangle
TRICHLOROFON = O,O-DIMETHYL (1-HYDROXY-2,2,2-TRICHLOROETHYL) PHOSPHONATE
8869 TRI-COP, Copper 52%-F-Chipman (Can.)
8870 TRIGGER TEE JET, Pesticide application-E-Spraying Systems
8871 TRIKAL DUST, Calcium arsenate 20%, tribasic copper sulfate 14%-FI-Woolfolk
8872 TRIKOP, Copper 25%-F-Woolfolk
8873 TRIO ANT-ROACH KILLER, Chlordane 2%, piperonyl butoxide 0.092%, N-octyl bicycloheptene dicarboximide 0.154%, pyrethrins 0.054%, oil 72.7%-IA-Trio
8874 TRIO BUG-KILL HOUSEHOLD PESTICIDE, DDT 5%, organic thiocyanates 4.1%, oils 50%-IA-Trio
8875 TRIO 46% CHLORDANE EMULSIFIABLE CONC.-I-Trio
8876 TRIO 72% CHLORDANE EMULSIFIABLE CONC.-I-Trio
8877 TRIO 2% CHLORDANE INSECTICIDE SPRAY-I-Trio
8878 TRIO 20% CHLORDANE OIL-SOLUBLE CONC.-I-Trio
8879 TRIO 25% DDT EMULSIFIABLE CONC.-I-Trio
8880 TRIO 35% DDT EMULSIFIABLE CONC.-I-Trio
8881 TRIO 10% DDT INSECTICIDE SPRAY-I-Trio
8882 TRIO 20% DDT OIL-SOLUBLE CONC.-I-Trio
8883 TRIO 15% DDT POWDERED INSECTICIDE-I-Trio

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8884 TRIO 50% DDT WETTABLE POWDER-I-Trio
8885 TRIO 75% DDT WETTABLE POWDER-I-Trio
8886 TRIO 15% DIELDRIN EMULSIFIABLE CONC.-I-Trio
8887 TRIO GARBAGE CAN SPRAY, Terpene polychlorinates 3%, 2,2'-triobis (4-chloro-6-methylphenol)-I-Trio
8888 TRIO HOUSE & GARDEN INSECT SPRAY, Piperonyl butoxide 0.5%, pyrethrins 0.25%, *n*-octyl-bicycloheptene dicarboximide 0.5%, oil 1%-IA-Trio
8889 TRIO 10% LINDANE EMULSIFIABLE CONC.-I-Trio
8890 TROI 50% MALATHION EMULSIFIABLE CONC.-I-Trio
8891 TRIO NON-POISONOUS INSECT KILLER, Oil 18.68%, piperonyl butoxide 0.72%, pyrethrins 0.2%, *n*-octyl-bicycloheptene dicarboximide 0.4%-IA-Trio
8892 TRIO ONE-YEAR MOTHPROOFER, Oil 65%, terpene polychlorinates 5%-MP-Trio
8893 TRIO PERSONAL INSECT REPELLENT, Deet 1.8%, *n*-octyl bicycloheptene dicarboximide 2%, 2,3,4,5-bis (2-butylene) tetrahydrofurfural 0.5%, di-*n*-propyl isocinchomerate 0.5%-IR-Trio
8894 TRIO WOOD PRESERVATIVE CONC. 40% PENTACHLOROPHENOL-WP-Trio
8895 TRIO WOOD PRESERVATIVE 5% PENTACHLOROPHENOL-WP-Trio
8896 TRI-OGEN DIELDRIN SPRAY-I-Nott
8897 TRI-OGEN FOUR-WAY HOME GARDEN DUST, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl, captan, DDT, ferbam, lindane, maneb-FI-Nott
8898 TRI-OGEN FOUR-WAY HOME GARDEN SPRAY, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite, captan, 2,4-dinitro-6-(2octyl) phenyl crotonate, DDT, ferbam, lindane, maneb-FI-Nott
8899 TRI-OGEN ROSE BOMB, Captan, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite, pyrethrins-IA-Nott
8900 TRI-OGEN THREE-WAY ROSE DUST, DDT, ferbam, lindane, chlorophenyl chlorobenzene sulfonate-FI-Nott
8901 TRI-OGEN TOMATO AND VEGETABLE DUST, Rotenone, zineb-FI-Nott
8902 TRI-OGEN 3-WAY ROSE SPRAY, Lead arsenate, ferbam, 2-(*p-tert*-Butylphenoxy) isopropyl 2'-chloroethyl sulfite, pine oil, ammoniacal copper complex, piperonyl butoxide, pyrethrins, rotenone-FI-Nott
8903 TRIOX, Sodium arsenite 55%-H-Calif. Chem.
8904 TRINOXOL, Non-emulsifiable low volatile ester of 2,4,5-T; 4 lb. acid equiv./gal.-H-Amchem. Prods.
8905 TRIPLE MIX REPELLENT CREAM, Dimethyl phthalate 59.05%, 2-Ethyl hexanediol 1.3%, indalone 17.44%-IR-Fairfield
8906 TRIPLE MIX REPELLENT LIQUID, Dimethyl phthalate 63.84%, 2-Ethyl hexanediol-1.3 17.31%, indalone 18.85%-IR-Fairfield
8907 TRITAC®, 2,3,6-Trichlorobenzyloxypropanol 22.1%-H-Hooker
8908 TRITAC-D, 2,4-D 2.2%, 2,3,6-Trichlorobenzyloxypropanol 22.1%-H-Hooker
8909 TRITON® B-1956, a water-dispersible, resin-based surfactant-A-Rohm & Haas
8910 TRI-TOX (DUST), DDT 7%, parathion 1%, toxaphene 14%-I-Daly-Herring
8910.50 TRI-TOX E. C., DDT 2 lb. methyl parathion 0.5 lb., toxaphene 4 lb.-I-Daly Herring
8910.75 TRIZONE®, Methyl bromide 61%, chloropicrin 30%, 3-bromopropyne and related compounds 9%-IF-Dow
8911 TROJAN POWER SPRAYER-E-John Bean
8912 TROLENE® FM, Ronnel 40%-IC-Dow
8913 TRONA ALDRIN-2E, Aldrin 23.4% (2 lbs./gal.) related compounds 4%-I-Am. Potash
8914 TRONA ALKRON® 100, Parathion technical-IC-Am. Potash
8915 TRONA ALKRON® 25D, Parathion 25%-I-Am. Potash
8916 TRONA ALKRON® 4E, Parathion 47% (4 lbs./gal.)-I-Am. Potash
8917 TRONA ALKRON® W25, Parathion 25%-I-Am. Potash
8918 TRONA BORO-SPRAY®, Sodium pentaborate (58% B_2O_3)-H-Am. Potash
8919 TRONA BROMOFUME® 40, Ethylene dibromide 38% (3.6 lbs./gal.)-IF-Am. Potash
8920 TRONA BROMOFUME® 85, Ethylene dibromide 83% (12 lbs./gal.)
8921 TRONA DIELDRIN-1.5E, Dieldrin 18.9% (1.5 lbs./gal.), related compounds 2.9%-I-Am. Potash
8922 TRONA E-D-BEE, Ethylene dibromide 83% (12 lbs./gal.)-IF-Am. Potash
8923 TRONA ENDRIN-1.6E, Endrin 19.5% (1.6 lbs./gal.)-I-Am. Potash
8924 TRONA ESTONATE® 2E, DDT 25% (2 lbs./gal.)-I-Am.Potash
8925 TRONA ESTONATE® W50, DDT 50%-I-Am. Potash
8926 TRONA ESTONMITE® 50W, Ovex 50%-I-Am. Potash
8927 TRONA ESTONOX® 6E, Toxaphene 60% (6 lbs./gal.)-I-Am. Potash
8928 TRONA ETHYLENE DIBROMIDE, Ethylene dibromide technical-IF-Am. Potash
8929 TRONA MALAPHOS® 8-CITRUS, Malathion (8 lbs./gal.)-I-Am. Potash
8930 TRONA MALAPHOS® 25-D, Malathion 25%-I-Am. Potash
8931 TRONA MALAPHOS® 8E, Malathion 80% (8 lbs./gal.)-I-Am. Potash
8932 TRONA MALAPHOS® 50E, Malathion 56% (5 lbs./gal.)-I-Am. Potash

8933 TRONA MALAPHOS® 25W, Malathion 25%-I-Am. Potash
8934 TRONA M-B-C-5, Chloropicrin 0.5%, methyl bromide 99.5%-IF-Am. Potash
8935 TRONA M-B-C FUMIGANT, Chloropicrin 2%, methyl bromide 98%-IF-Am. Potash
8936 TRONA METHYL BROMIDE, *Methyl bromide 100%-IF-Am. Potash*
8937 TRONA METHYL PARATHION, Methyl parathion technical 80%-IC-Am. Potash
8938 TRONA METRON® 4, Methyl parathion (4 lbs./gal.)-I-Am. Potash
8939 TRONA METRON® 4/1E, Methyl parathion 44% (4 lbs./gal.), parathion 11% (1 lb./gal.)-I-Am. Potash
8940 TRONA NEMAFUME® 8.6E, (8.6 lbs./gal.), 1,2-Dibromo-3-chloropropane-IF-Am. Potash
8941 TRONA NEMAFUME® N, 1,2-Dibromo-3-chloropropane 46.3% (4.3 lbs./gal.)-IF-Am. Potash
8942 TRONA PHOSDRIN®-2E, 2-Carbomethoxy-1-propen-2yl dimethyl phosphate 25.4% 2 lb./gal.)-I-Am. Potash
8943 TRONA PHOSDRIN® 4-E,2-Carbomethoxy-1-propen-2yl dimethyl phosphate 4 lb./gal.-I-Am. Potash
8944 TRONA SODIUM CHLORATE, Sodium chlorate 99.5%-H-Am. Potash
8945 TRONA TETRON® 50, Tepp 20%, related compounds 30%-I-Am. Potash
8946 TRONA TETRON® 100, Tepp 40%, related compounds 60%-I-Am. Potash
8948 TRONA TOXAPHENE-DDT-4/2E, DDT 20% (2 lbs./gal.), toxaphene 40% (4 lbs./gal.)-I-Am. Potash
8949 TRONA TRONABOR®, Sodium tetraborate pentahydrate (46% B_2O_3) Am. Potash
8950 TROX, Fixed copper 7%-F-Chipman (Can.)
8951 TROYSAN 28, Soluble form of 2-mercaptobenzothiazole-F-Troy
8952 TROYSAN 142, 3,5-Dimethyl tetrahydro 1,3,5-2H-thiadiazine-2-thione-F-Troy
8952.50 TROYSAN CMP ACETATE, 20% Chloromethoxypropylmercuric acetate-F-Troy
8953 TROYSAN COPPER 8%, Copper naphthenate 8%-WP-Troy
8954 TROYSAN PMA-30, 30% Phenyl mercury acetate-F-Troy
8955 TROYSAN PMA-100, 100% Phenyl mercury acetate powder-F-Troy
8956 TROYSAN PMA 10-SEP, Solubilized phenyl mercury acetate powder, 10%, on inert base-F-Troy
8957 TROYSAN PMB, Phenyl mercury borate-F-Troy
8958 TROYSAN PMO-30, 30% Phenyl mercury oleate-F-Troy
8959 TRUMP AEROSOL, DDT 2%, organic thiocyanates 1.64%-IA-Canada Rex
8960 TRYCO BOOM TYPE SPRAYERS-E-Tryco
8961 TRYCO BOOMLESS TYPE SPRAYERS-E-Tryco
8961.50 TRYCO FERTILIZER SOLUTION APPLICATORS-E-Tryco
8961.75 TRYCO FERTILIZER SOLUTION NURSE TANKS-E-Tryco
8962 TRYCO FIBREGLASS TANKS-E-Tryco
8963 TRYCO HAND SPRAY GUNS-E-Tryco
8964 TRYCO PTO SPRAYERS-E-Tryco
8965 TRYCO PUMP KITS-E-Tryco
8966 TRYCO PUMPS-E-Tryco
8967 TRYCO TRACTOR MOUNTED SPRAYERS-E-Tryco
8968 TRYCO TRAILER TYPE SPRAYERS-E-Tryco
8969 TRYSBEN® 200 WEED KILLER, Dimethylamine salt of trichlorobenzoic acid 26.1% (2 lbs. acid./gal.)-H-DuPont (I & B)
8970 TULL COMPOUND "1080", Sodium monofluoroacetate-R-Tull
8971 TURBAFOG INSECTICIDAL FOGGING EQUIPMENT-E-*Scott Turbafog*
8972 TURF FOOD 20-10-10 WITH 2,4-D WEED KILLER, Nitrogen 20%, available phosphoric acid 10%, potash 10%, 2,4-D 1%-H-DuPont (F & F)
8973 TWEEN® 20, Polyoxyethylene sorbitan monoleate-A-Atlas
8974 TWEEN® 80, Polyoxyethylene sorbitan monoleate-A-Atlas
8975 TWIN LIGHT CAPTAN 5% DUST-F-Seacoast
8976 TWIN LIGHT CHLORDANE 10%, Granular-I-Seacoast
8977 TWIN LIGHT CHLORDANE 12%, Granular, vermiculite base-I-Seacoast
8978 TWIN LIGHT CHLORDANE 72%-I-Seacoast
8979 TWIN LIGHT CHLORDANE 50% W.P.-I-Seacoast
8980 TWIN LIGHT CHLORO DUST, Chlordane 5%-I-Seacoast
8981 TWIN LIGHT 5% DDD-COPPER DUST, Copper 7%, TDE 5%-FI-Seacoast
8982 TWIN LIGHT 5% DDD-MANEB DUST, Maneb 8%, TDE 5%-FI-Seacoast
8983 TWIN LIGHT 5% DDD-ZIRAM DUST, TDE 5%, ziram 7.6%-FI-Seacoast
8984 TWIN LIGHT DDT 25% SPRAY EMULSION-I-Seacoast
8985 TWIN LIGHT DIAZINON® 2% DUST, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate 2%-I-Seacoast
8986 TWIN LIGHT DIELDRIN SPRAY, 1.5# emulsion-I-Seacoast
8987 TWIN LIGHT 7% DUST, Copper 7%-F-Seacoast
8988 TWIN LIGHT DUSTALL 1%, Rotenone 1%-I-Seacoast

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8989 TWIN LIGHT DUSTALL 2%, Rotenone 2%-I-Seacoast
8990 TWIN LIGHT DUSTWET, Rotenone 4%-I-Seacoast
8991 TWIN LIGHT FERBAM DUST, Ferbam 11.4%-F-Seacoast
8992 TWIN LIGHT GRANULAR CLORO DUST, Granular chlordane 5% & 10%-I-Seacoast
8993 TWIN LIGHT 2% GRANULAR DIELDRIN-I-Seacoast
8994 TWIN LIGHT LINDANE 1% DUST, Lindane 1%-I-Seacoast
8995 TWIN LIGHT LINDANE 10% SPRAY-I-Seacoast
8996 TWIN LIGHT LINDANE 25% W.P.-I-Seacoast
8997 TWIN LIGHT MALATHION 4% DUST-I-Seacoast
8998 TWIN LIGHT MALATHION 50% SPRAY-I-Seacoast
8999 TWIN LIGHT MALATHION 25% WETTABLE-I-Seacoast
9000 TWIN LIGHT MANEB DUST, Maneb 8%-F-Seacoast
9001 TWIN LIGHT METHOXYCHLOR 5% DUST-I-Seacoast
9002 TWIN LIGHT METHOXY-ZIRAM DUST, Methoxychlor 3%, ziram 7.6%-FI-Seacoast
9003 TWIN LIGHT NU CU DUST NO. 5, DDT 5%, copper 7%-FI-Seacoast
9004 TWIN LIGHT NU DUST NO. 5, DDT 5%-I-Seacoast
9005 TWIN LIGHT NU DUST NO. 10, DDT 10%-I-Seacoast
9006 TWIN LIGHT NU SPRAY, DDT 50%-I-Seacoast
9007 TWIN LIGHT PARA DUST NO. 1, Parathion 1%-I-Seacoast
9008 TWIN LIGHT ROTOCU ¾%, Copper 5%, rotenone 0.72%-FI-Seacoast
9009 TWIN LIGHT ROTOCU 1%, Copper 5%, rotenone 1%-FI-Seacoast
9010 TWIN LIGHT SEVIN® 5% DUST, 5%-1-Naphthyl-N-methylcarbamate-I-Seacoast
9011 TWIN LIGHT SEVIN® 50% WP, 50%-1-Naphthyl-N-methylcarbamate-I-Seacoast
9012 TWIN LIGHT THANE DUST NO. 10, Zineb 10%-F-Seacoast
9013 TWIN LIGHT THANE-RO DUST, TDE 5%, zineb 5%-FI-Seacoast
9014 TWIN LIGHT ZIRAM DUST, Ziram 7.6%-F-Seacoast
9015 TYPE-41 KAOLIN CLAY-D-Southeastern Clay Company
9016 ULTRASENE, Highly refined hydrocarbon solvent-D-Atlantic Ref.
9017 ULTRAWETS, Alkyl aryl sulfonate wetting agents-A-Atlantic Ref.
9018 UNCLE SAM'S PRESSURIZED ROACH & ANT KILLER, Chlordane, oil, piperonyl butoxide, pyrethrins-IA-Uncle Sam
9019 UNICO AGRI-STREP, (In Tobacco growers' packet), Streptomycin 21.2%-Antibiotic-F-United Co-op
9020 UNICO ALDRIN DUST BASE (25%)-IC-United Co-op
9021 UNICO ALDRIN EMULSIFIABLE CONCENTRATE, Aldrin 22.2%-I-United Co-op
9022 UNICO ALDRIN-4 EMULSIFIABLE CONCENTRATE, Aldrin 45.6%-I-United Co-op
9023 UNICO 5% ALDRIN GRANULAR, Aldrin 5%-IG-United Co-op
9024 UNICO 10% ALDRIN GRANULAR, Aldrin 10%-IG-United Co-op
9025 UNICO 20% ALDRIN GRANULAR, Aldrin 20%-IG-United Co-op.
9026 UNICO ALDRIN OIL SOLUTION, Aldrin 36.5%-I-G-United Co-op
9027 UNICO ALDRIN WETTABLE POWDER, Aldrin 25%-I-United Co-op
9028 UNICO ANT & ROACH KILLER, Chlordane 2%, malathion 1%-I-United Co-op
9029 UNICO BASIC COPPER SULPHATE, Copper 53%-F-United Co-op
9030 UNICO BHC DUST BASE, Gamma Isomer BHC 10%-IC-United Co-op
9031 UNICO BHC-DDT DUST BASE (9-15), Gamma isomer of BHC 10%, DDT 10%-IC-United Co-op
9034 UNICO BHC DUST, Gamma isomer BHC 2%-I-United Co-op
9035 UNICO 12% GAMMA BHC WETTABLE POWDER, Gamma isomer BHC 12%-I-United Co-op
9036 UNICO BORDEAUX MIXTURE, (Powdered), Copper 12.75%-F-United Co-op
9037 UNICO BRUSH KILLER, 2,4-D 29.3%, 2,4,5-T 14.2%-H-United Co-op
9038 UNICO BRUSH KILLER, Lo-V, 2,4-D 37.4%, 2,4,5-T 35.2%-H-United Co-op
9039 UNICO CAPTAN-DIELDRIN SEED TREATER, Captan 60%, dieldrin 15%-I-ST-United Co-op
9040 UNICO CHLORDANE DUST (6%)-I-United Co-op
9041 UNICO CHLORDANE DUST BASE (40%)-IC-United Co-op
9042 UNICO CHLORDANE-8 EMULSIFIABLE CONCENTRATE (73%)-I-United Co-op
9043 UNICO 50% CHLORDANE WETTABLE POWDER-I-United Co-op
9043.50 UNICO CIODRIN® INSECTICIDE BACK RUBBER SOLUTION 1%, *Alpha*-methylbenzyl 3-(dimethoxyphosphinyloxy)-cis-crotonate 1%, oil 98.82%-I-United Co-op
9044 UNICO COPPER SULPHATE (BLUESTONE), Copper sulfate pentahydrate 99%-F-United Co-op
9046 UNICO "21" COTTON SPRAY, DDT 2#, methyl parathion 1#-I-United Co-op
9047 UNICO "22" COTTON SPRAY, DDT 2#, methyl parathion 2#-I-United Co-op
9048 UNICO "32" COTTON SPRAY, DDT 21.4%, malathion 32.1%-I-United Co-op
9049 UNICO "42" COTTON SPRAY, DDT 19.3%, toxaphene 38.7%-I-United Co-op

9050 UNICO "421" COTTON SPRAY, DDT 18.7%, methyl parathion 9.3%, toxaphene 37.3%-I-United Co-op
9051 UNICO "753" COTTON SPRAY, DDT 32.5%, methyl parathion 7.8%-I-United Co-op
9052 UNICO DDT-3 COTTON SPRAY, 33.3% DDT-I-United Co-op
9053 UNICO DDT DUST BASE (50%)-IC-United Co-op
9054 UNICO DDT EMULSIFIABLE CONCENTRATE-I-United Co-op
9055 UNICO DDT 5%, GRANULAR-I-United Co-op
9056 UNICO DDT SPRAY POWDER (50%)-I-United Co-op
9057 UNICO DDT WETTABLE POWDER (50%)-I-United Co-op
9059 UNICO DIELDRIN DUST BASE (25%)-IC-United Co-op
9060 UNICO DIELDRIN EMULSIFIABLE CONCENTRATE 18%-I-United Co-op
9061 UNICO DIELDRIN GRANULAR (2.5%)-I-United Co-op
9062 UNICO DIELDRIN GRANULAR (5%), Dieldrin 5%-I-United Co-op
9063 UNICO DIELDRIN SEED DRESSING (50%)-I-ST-United Co-op
9064 UNICO DIELDRIN WETTABLE POWDER (50%)-I-United Co-op
9065 UNICO DUST FOR SMALL FRUITS, Captan 7.5%, methoxychlor 5%, rotenone 1%, rotenoids 1.6%, sulfur 25%-FI-United Co-op
9066 UNICO DUST FOR ORNAMENTALS, DDT 5%, lindane 1%, malathion 4%, sulfur 25%, zineb 5%-FI-United Co-op
9067 UNICO DUSTING SULPHUR, "93", Sulfur 93%-FI-United Co-op
9068 UNICO ENDRIN DUST BASE (15%)-IC-United Co-op
9069 UNICO ENDRIN DUST BASE (25%)-IC-United Co-op
9070 UNICO ENDRIN EMULSIFIABLE CONCENTRATE (18.9%)-IC-United Co-op
9071 UNICO ENDRIN WETTABLE POWDER (25%)-I-United Co-op
9072 UNICO ESTATE FUNGICIDE, Captan 25%, zineb 32%-F-United Co-op
9073 UNICO ESTATE INSECTICIDE, Malathion 16%, methoxychlor 16%-I-United Co-op
9074 UNICO ESTATE MILICIDE®, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 6%-FI-United Co-op
9075 UNICO ESTER 2,4-D BUTYL WEED KILLER, 2,4-D acid equiv. 45%-H-United Co-op
9076 UNICO ESTER 2,4-D LO-V WEED KILLER, 2,4-D acid equiv. 42.9%-H-United Co-op
9077 UNICO ETHION-4 EMULSIFIABLE CONCENTRATE (45.1%)-I-United Co-op
9078 UNICO ESTER 2,4,5-T LO-V BRUSH KILLER, 2,4,5-T acid equiv. 42%-H-United Co-op
9079 UNICO 25% ETHION WETTABLE POWDER-I-United Co-op.
9080 UNICO FRUIT SPRAY POWDER, Captan 10%, DDT 10%, lead arsenate 25%-FI-United Co-op
9081 UNICO GARDEN DUST, Carbaryl, 3%, zineb 5%-IF-United Co-op
9082 UNICO GARDEN SPRAY CONCENTRATE, Lindane 5%, malathion 12.5%, TDE 5%-I-United Co-op
9083 UNICO GARDEN SPRAY POWDER, Methoxychlor 12.5%, rotenone 2.5%, rotenoids 4%, zineb 12.5%-FI-United Co-op
9084 UNICO GRAIN FUMIGANT, Ethylene dichloride 70%, carbon tetrachloride 30%-IF-United Co-op
9085 UNICO GRAIN FUMIGANT #3, Ethylene dibromide 5%, ethylene dichloride 65%, carbon tetrachloride 27%, sulfur dioxide 3%-IF-United Co-op
9086 UNICO GRAIN FUMIGANT 73, Ethylene dibromide 70%, methyl bromide 29.5%-IF-United Co-op
9087 UNICO GRANULAR HEPTACHLOR 20%-I-United Co-op
9088 UNICO HEPTACHLOR DUST BASE (25%)-IF-United Co-op
9089 UNICO HEPTACHLOR EMULSIFIABLE CONCENTRATE (31.2%)-I-United Co-op
9090 UNICO HEPTACHLOR GRANULAR 2½-I-United Co-op
9091 UNICO HEPTACHLOR OIL SOLUTION (34.2%)-IC-United Co-op
9092 UNICO HEPTACHLOR SEED TREATER#2, Heptachlor 25%-I-ST-United Co-op
9093 UNICO HEPTACHLOR TRANSPLANTER SOLUTION (32.3%)-I-United Co-op
9094 UNICO HOUSEHOLD AERSOL, 1-1-Dichloro-2,2-Bis (ethylphenyl) ethane 3%, piperonyl butoxide 6%, pyrethrins 24%-IA-United Co-op
9095 UNICO INSECT SPRAY, Oil 99.465%, DDVP 0.1802%, piperonyl butoxide 0.3%, pyrethrins 0.035%-I-United Co-op
9096 UNICO KILL FLY, DDVP 0.5%-IB-United Co-op
9096.50 UNICO KILL FLY RESIN STRIP, DDVP 18.6%-IB-United Co-op
9097 UNICO KLEEN WALK GRANULES, Sodium chlorate 40%, sodium metaborate 51%, monuron 2.4%-H-United Co-op
9098 UNICO LAWN GRANULES, Chlordane 5%-I-H-United Co-op
9099 UNICO LAWN SPRAY, Chlordane 45%-I-H-United Co-op
9100 UNICO LAWN WEED KILLER, 2,4-D acid equiv. 11.5%-H-United Co-op
9101 UNICO LEAD ARSENATE (STANDARD 96%)-I-United Co-op
9102 UNICO LINDANE EMULSIFIABLE CONCENTRATE (20%)-I-United Co-op
9103 UNICO LINDANE WETTABLE POWDER (25%)-I-United Co-op

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9104 UNICO LIVESTOCK AND BARN FOGGING SPRAY, Oil 98.9%, piperonyl butoxide 1%, pyrethrins 0.1%-I-United Co-op
9105 UNICO MALATHION-4 CATTLE AND POULTRY DUST, Malathion 4%-I-United Co-op
9106 UNICO MALATHION 5% DUST-I-United Co-op
9107 UNICO MALATHION DUST BASE (25%)-IC-United Co-op
9108 UNICO MALATHION-5 EMULSIFIABLE CONCENTRATE, Malathion 54.8%-I-United Co-op
9109 UNICO MALATHION GRAIN PROTECTANT, Premium grade malathion 1%-I-United Co-op
9110 UNICO MALATHION GRAIN SPRAY (57%)-I-United Co-op
9112 UNICO MALATHION-51 SPRAY, Malathion 55.3%-I-United Co-op
9113 UNICO MALATHION SPRAY POWDER (25%)-I-United Co-op
9114 UNICO MALATHION WETTABLE POWDER (25%)-I-United Co-op
9115 UNICO METHYL PARATHION DUST BASE (20%)-IC-United Co-op
9116 UNICO METHYL PARATHION EMULSIFIABLE CONCENTRATE (24%)-I-United Co-op
9117 UNICO METHYL PARATHION-4 EMULSIFIABLE CONCENTRATE (43.9%)-I-United Co-op
9118 UNICO NEMAGON®-I SOIL FUMIGANT, 1,2-Dibromo-3-chloropropane 42.7%-IF-United Co-op
9119 UNICO NICOTINE SULPHATE (40%)-I-United Co-op
9120 UNICO PARATHION-8 EMULSIFIABLE CONCENTRATE (43.9%)-I-United Co-op
9121 UNICO PARATHION EMULSIFIABLE CONCENTRATE (25%)-I-United Co-op
9122 UNICO PARATHION-4 EMULSIFIABLE CONCENTRATE (45.3%)-I-United Co-op
9123 UNICO PARATHION-8 EMULSIFIABLE CONCENTRATE (80.5%)-I-United Co-op
9124 UNICO PARATHION WETTABLE POWDER (15%)-I-United Co-op
9125 UNICO PENTA CONCENTRATE, Pentachlorophenol 40%-WP-United Co-op
9126 UNICO PENTA WOOD PRESERVATIVE, Pentachlorophenol 34.1%-WP-United Co-op
9126.50 UNICO PROLIN® RAT AND MOUSE KILLER, Warfarin 0.025%, sulfaquinoxaline 0.025%-R-United Co-op
9126.75 UNICO PROLIN® RODENTICIDE CONCENTRATE, Warfarin 0.5%, sulfaquinoxaline 0.5%-R-United Co-op
9127 UNICO PYRENONE® EMULSIFIABLE CONCENTRATE, Piperonyl butoxide 12%, pyrethrins 1.2%-I-United Co-op
9128 UNICO RAT & MOUSE KILLER, Sodium salt of pindone 0.14%-R-United Co-op
9131 UNICO ROOTING POWDER (HORMONE-LIKE), Indole butyric acid 0.1%-PH-United Co-op
9132 UNICO ROSE & FLORAL DUST, DDT 5%, lindane 1%, N-trichloromethyl thiophthalimide 5%, sulfur 25%, zineb 5%-FI-United Co-op
9133 UNICO ROSE AND FLORAL SPRAY POWDER, Lindane 3.0%, DDT 12.5%, sulfur 20.0%, zineb 12.5%-FI-United Co-op
9134 UNICO ROSE-FLOWER FUNGICIDE, N-Trichloromethyl thiophthalimide 75%-F-United Co-op
9135 UNICO 4-IN-1 ROTENONE POWDER, Rotenoids 3.25%, rotenone 1.75%-I-United Co-op
9136 UNICO ROTENONE SPRAY, Rotenone 2.5%, rotenoids 3.48%-I-United Co-op
9137 UNICO ROTENONE SPRAY POWDER (5%)-I-United Co-op
9137.50 UNICO SEVIN® DUST, Carbaryl-I-United Co-op
9137.75 UNICO SEVIN® SPRAY POWDER, Carbaryl 50%-I-United Co-op
9138 UNICO SNAIL & SLUG PELLETS, Calcium arsenate 5.0%, meltadehyde 3.2%-IB-United Co-op
9139 UNICO SOYBEAN SEED TREATER CAPTAN, Captan 25%-F-United Co-op
9140 UNICO SPRAY OIL, Refined petroleum distillate 97%-I-United Co-op
9140.50 UNICO STOCK SPRAY CONCENTRATE, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy)-cis-crotonate 12.6%, oil 80.2%-I-United Co-op
9141 UNICO SULPHUR, DRY WETTABLE (95%)-FI-United Co-op
9142 UNICO SULPHUR, SPRAYING, Sulfur 95%-FI-United Co-op
9143 UNICO SUPERIOR MISCIBLE SPRAY OIL, Refined petroleum distillate 97%-I-United Co-op
9144 UNICO TCA-95 GRASS KILLER, Sodium trichloroacetate 95%-H-United Co-op
9145 UNICO TDE DUST BASE (50%)-IC-United Co-op
9146 UNICO TDE-DIELDRIN EMULSIFIABLE CONCENTRATE, Dieldrin 2.1%, TDE 23.9%-I-United Co-op
9147 UNICO TDE EMULSIFIABLE CONCENTRATE (23.9%)-I-United Co-op
9148 UNICO TDE WETTABLE POWDER (50%)-I-United Co-op

9149 UNICO TERMITE KILL, Chlordane 45%-I-United Co-op
9150 UNICO THIODAN® EMULSIFIABLE CONCENTRATE, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 22.8%-I-United Co-op
9151 UNICO 50% THIODAN® WETTABLE POWDER, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 50%-I-United Co-op
9152 UNICO TOXAPHENE BACK RUBBER SOLUTION, Toxaphene 5%-ICP-United Co-op
9153 UNICO TOXAPHENE EMULSIFIABLE CONCENTRATE (60%)-I-United Co-op
9154 UNICO TOXAPHENE LIVESTOCK SPRAY CONCENTRATE-I-United Co-op
9213 UNITED CLAY MINES KAOLIN, For insecticidal dusts, etc.-D-United Clay
9214 "UNI-VAP" ELECTRIC INSECTICIDE VAPORIZERS-E-Universal Elec.
9215 UREABOR®, Disodium tertaborate pentahydrate 63.2%, disodium tertaborate decahydrate 30.8%, 3-p-chlorophenyl 1,1 dimethylurea 4%-H-U. S. Borax
9216 UREABOR® 31, Disodium tetraborate pentahydrate 80.4%, disodium tetraborate decahydrate 13.1%, monuron 3%, 2,3,6-trichlorobenzoic acid and related compounds 1%-H-U. S. Borax
9217 UREABOR® 62, Disodium tetraborate pentahydrate 67.5%, disodium tetrabroate decahydrate 21.5%, monuron 6%, 2,3,6-trichlorobenzoic acid and related com-compounds 2%-H-U. S. Borax
9218 UREABOR® 8D, Disodium tetraborate pentahydrate 79.9%, disodium tetraborate decahydrate 9.1%, diuron 8%-H-U. S. Borax
9221 USCO TROPICAL ROACHKIL, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, N-Octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins, oil-I-Uncle Sam
9222 VACCICHLOR WE-40 CHLORDANE-I-Vaccinol
9223 VACCICHLOR WE-80 CHLORDANE-I-Vaccinol
9224 VACCINOL PENTACHLOROPHENOL WOOD PRESERVATIVE 1 to 10 CONC.-WP-Caccinol
9225 VACCINOL PENTACHLOROPHENOL WOOD PRESERVATIVE 5% READY-TO-USE-WP-Vaccinol
9226 VACCINOL-TERMITE CHEMICAL, Boric acid 0.14%, formaldehyde 0.4%, oil 94.31%, phenol 3.26%-WP-Vaccinol
9227 VAIAY MOTH CAKES. Paradichlorobenzene-IF-Esquire Chemical
9228 VAIAY MOTH VAPORIZERS, Paradichlorobenzene-IF-Esquire Chemical
9229 VAIAY PARADICHLOROBENZENE CRYSTALS AND NUGGETS-IF-Esquire Chemical
9234 VALCO BRAND 3 LB. DDT EMULSIFIABLE-I-Valley
9235 VALCO 1½ LB. DIELDRIN EMULSIFIABLE-I-Valley
9236 VALCO BRAND EN-A-ME NO. 162, Endrin 1.6 lbs., methyl parathion 2 lb.-I-Valley
9237 VALCO BRAND 1.6 ENDRIN EMULSIFIABLE-I-Valley
9238 VALCO BRAND 2 LBS. ETHYL PARATHION EMULSIFIABLE-I-Valley
9240 VALCO BRAND 5% MALATHION DUST-I-Valley
9241 VALCO BRAND 10% MALATHION DUST-I-Valley
9242 VALCO BRAND 5 LB. MALATHION EMULSIFIABLE-I-Valley
9243 VALCO BRAND 2½% METHYL PARATHION DUST-I-Valley
9244 VALCO BRAND 5% METHYL PARATHION DUST-I-Valley
9245 VALCO BRAND 4 LB. METHYL 4 LB. METHYL PARATHION EMULSIFIABLE-I-Valley
9246 VALCO BRAND 20% TOXAPHENE DUST-I-Valley
9247 VALCO BRAND 6 LB. TOXAPHENE EMULSIFIABLE-I-Valley
9248 VANCIDE® 26, Lauryl pyridinium 5-chloro-2-mercaptobenzothiazole 80%, and other alkyl pyridinium 5-chloro-2-mercaptobenzothiazole 16%. For industrial use.-F-Vanderbilt
9249 VANCIDE® 30, Zinc 5-chloro 2-mercaptobenzothiazole 95%. For industrial use.-BF-Vanderbilt
9250 VANCIDE® 51, Sodium dimethyldithiocarbamate 27.6%, sodium 2-mercaptobenzothiazole 2.4%. For industrial use.-F-Vanderbilt
9251 VANCIDE® 89, Captan 90%. For industrial and manufacturing use.-FB-Vanderbilt
9252 VANCIDE® BL, 2,2′ Thiobis (4,6-dichlorophenol) 97%-Bacteriostat for use in soap, shampoo, shaving cream and cosmetics.-F-Vanderbilt
9253 VANCIDE® BN, Disodium 2,2′ thiobis (4,6-dichlorophenoxide) 96%.-Bactericide and fungicide—Fungus and alga control in formulations, etc.-F-Vanderbilt
9254 VANCIDE® BN SOLUTION, Disodium 2,2′-thiobis (4,6-dichlorophenoxide) 50%.—Bactericide and fungicide for fungus and alga control in formulations, etc.-F-Vanderbilt

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9255 VANCIDE® 26EC, Lauryl pyridinium 5-chloro-2-mercaptobenzothiazole 25%. For industrial use.-F-Vanderbilt
9257 VANCIDE® 89RE, Captan 99%. For use in pharmaceutical preparations.-F-Vanderbilt
9258 VANCIDE® 20S, Monoethanolammonium 2-mercaptobenzothiazole 40%. For industrial use.-F-Vanderbilt
9259 VANCIDE® 51Z, Ziram 90%, zinc 2-mercaptobenzothiazole 7.8%. For industrial use.—BF-Vanderbilt
9260 VANCIDE® 51Z DISPERSION, Ziram 46%, zinc 2-mercaptobenzothiazole 1%. For industrial use.-BE-Vanderbilt
9261 VANCIDE® 51Z WETTABLE POWDER, Ziram 85.5%, zinc 2-mercaptobenzothiazole 7.4%. For industrial use.-F-Vanderbilt
9262 VANGARD® 45, Captan 45%, For veterinary use. -F-Vanderbilt
VAPAM®=SODIUM N-METHYL DITHIOCARBAMATE-See STAUFFER VAPAM®
9262.50 VAPEX, DDVP 3%, oil base-I-Chapman
9263 VAPOFOG, 4.75 lbs. per gallon technical DDVP-I-Chapman
9264 VAPONA® INSECTICIDE, Contains not less than 93% 2,2-dichlorovinyl dimethyl phosphate (DDVP) and not more than 7% insecticidally active, related compounds IC-Shell
9264.50 VAPONA VAPOR AEROSOL INSECTICIDE, DDVP 9.2%-I-Edco
9265 VAPONICIDE, DDVP-I-Rockland
9266 NO. 375 VAPORIZER INSECT SPRAY, Ethylhexyl bicycloheptene dicarboximide, oil, piperonyl, butoxide, pyrethrins-I-Uncle Sam
9267 VAPOTONE-DDT 1-5 DUST 5%, DDT 5%, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9268 VAPOTONE 1 DUST, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9269 VAPOTONE PERTHANE® 1-5 DUST, Diethyl diphenyl dichloroethane 4.75%, related compds. 0.25%, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9270 VAPOTONE-SULFUR 1-30 DUST, Sulfur 30%, TEPP 1%-FI-Calif. Chem.
9271 VAPOTONE XX EMULSIVE, TEPP 20%, other phosphates 30%-I-Calif. Chem.
9272 VAR-LAC-OID THALLIUM SULPHATE-Var-Lac-Oid
9273 VATSOL® WETTING AGENTS-A-Am. Cyanamid
9274 V-C 13® NEMACIDE, 0,2,4-Dichlorophenyl O,O-diethyl phosphorothioate 75%-I-Virginia-Carolina
9275 VEGETABLE SPRAY, Pine oil 5%, piperonyl butoxide 5%, pyrethrins-.5%-I-Destruxol
9276 VELEX CLAY-D-Southeastern Clay Company
9277 VELSICOL ETHYLENE DIBROMIDE-IF-Velsicol
9278 VELSICOL FERBAM-F-Velsicol
9279 VELSICOL METHYL BROMIDE-IF-Velsicol
9280 VELSICOL PHENYL MERCURIC ACETATE-F-Velsicol
9280.30 VELSICOL ZIRAM-F-Velsicol
9280.40 VEON® 245, Triethylamine salt of 2,4,5-T 56.7%-H-Dow
9280.50 VEON® BRUSH KILLER, Dimethylamine salt of 2,4-D 24.3%, triethylamine salt of 2,4,5-T 28.2%-H-Dow
9280.60 VERTIFUME®, Carbon bisulfide 16.5%, carbon tetrachloride 82.5%-IF-Dow
9280.70 VERTON® 245, Propylene glycol butyl ether esters of 2,4,5-T 33.6%-H-Dow
9280.80 VERTON® CE, Propylene glycol butyl ether esters of 2,4-D 36%, propylene glycol butyl ether esters of 2,4,5-T 34%-H-Dow
9281 VET-KEM DAIRY, LIVESTOCK & POULTRY DUST, Malathion 4%, methoxychlor 5%-I-Vet-Kem
9282 VI-CAD, Cadmium chloride-F-Vineland
9283 VIDDEN® CE, 1,3-Dichloropropane and related compounds 100%-IF-Dow
9284 VIKANE®, Sulfuryl fluoride 95%-IF-Dow
9285 VISKO-RHAP® HERBICIDES, 2,4-D and 2,4,5-T invert formulations-H-Hercules
9287 VIKANE, Sulfuryl fluride 95%-IF-Dow
9288 VISQUEEN PLASTIC COVERS, For soil fumigation-E-Carolina
9289 VITAMIN B-1, Thiamin chloride hydrochloride 0.0044%-PH-Destruxol
9291 VOLCK CONC. PASTE EMULSIVE, Oil 80%-I-Calif. Chem.
9292 VOLCK 90 FLOWABLE OIL EMUL., Oil 90%-I-Calif. Chem.
9293 VOLCK ISOTOX SPRAY, DDT 2%, lindane 1%, oils 80%-I-Calif. Chem.
9294 VOLCK OIL SPRAY, Oil 97%-I-Calif. Chem.
9295 VOLCK PASTE EMULSION, Oil 80%-I-Calif. Chem.
9295.50 VOLCK SOLUBLE SPRAY, Petroleum oil 97%-I-Calif. Chem.
9296 VOLCK 70 SUPREME, Oil 97%-I-Calif. Chem.
9297 VOLCK SUPREME ETHION COMBINATION, Ethion 3.4%, oils 94%-I-Calif. Chem.
9298 VOLCK SUPREME OIL SPRAY, Petroleum oils 98%-I-Calif. Chem.
9299 VOO DOO BUG-KIL, DDT, lindane, pyrethrins-I-Xterminator
9300 VOO DOO MAGIC MIST AEROSOL, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, piperonyl butoxide, pyrethrins-IA-Xterminator

9050 UNICO "421" COTTON SPRAY, DDT 18.7%, methyl parathion 9.3%, toxaphene 37.3%-I-United Co-op
9051 UNICO "753" COTTON SPRAY, DDT 32.5%, methyl parathion 7.8%-I-United Co-op
9052 UNICO DDT-3 COTTON SPRAY, 33.3% DDT-I-United Co-op
9053 UNICO DDT DUST BASE (50%)-IC-United Co-op
9054 UNICO DDT EMULSIFIABLE CONCENTRATE-I-United Co-op
9055 UNICO DDT 5%, GRANULAR-I-United Co-op
9056 UNICO DDT SPRAY POWDER (50%)-I-United Co-op
9057 UNICO DDT WETTABLE POWDER (50%)-I-United Co-op
9059 UNICO DIELDRIN DUST BASE (25%)-IC-United Co-op
9060 UNICO DIELDRIN EMULSIFIABLE CONCENTRATE 18%-I-United Co-op
9061 UNICO DIELDRIN GRANULAR (2.5%)-I-United Co-op
9062 UNICO DIELDRIN GRANULAR (5%), Dieldrin 5%-I-United Co-op
9063 UNICO DIELDRIN SEED DRESSING (50%)-I-ST-United Co-op
9064 UNICO DIELDRIN WETTABLE POWDER (50%)-I-United Co-op
9065 UNICO DUST FOR SMALL FRUITS, Captan 7.5%, methoxychlor 5%, rotenone 1%, rotenoids 1.6%, sulfur 25%-FI-United Co-op
9066 UNICO DUST FOR ORNAMENTALS, DDT 5%, lindane 1%, malathion 4%, sulfur 25%, zineb 5%-FI-United Co-op
9067 UNICO DUSTING SULPHUR, "93", Sulfur 93%-FI-United Co-op
9068 UNICO ENDRIN DUST BASE (15%)-IC-United Co-op
9069 UNICO ENDRIN DUST BASE (25%)-IC-United Co-op
9070 UNICO ENDRIN EMULSIFIABLE CONCENTRATE (18.9%)-IC-United Co-op
9071 UNICO ENDRIN WETTABLE POWDER (25%)-I-United Co-op
9072 UNICO ESTATE FUNGICIDE, Captan 25%, zineb 32%-F-United Co-op
9073 UNICO ESTATE INSECTICIDE, Malathion 16%, methoxychlor 16%-I-United Co-op
9074 UNICO ESTATE MILICIDE®, 2,4-Dinitro-6-(2-octyl) phenyl crotonate 6%-FI-United Co-op
9075 UNICO ESTER 2,4-D BUTYL WEED KILLER, 2,4-D acid equiv. 45%-H-United Co-op
9076 UNICO ESTER 2,4-D LO-V WEED KILLER, 2,4-D acid equiv. 42.9%-H-United Co-op
9077 UNICO ETHION-4 EMULSIFIABLE CONCENTRATE (45.1%)-I-United Co-op
9078 UNICO ESTER 2,4,5-T LO-V BRUSH KILLER, 2,4,5-T acid equiv. 42%-H-United Co-op
9079 UNICO 25% ETHION WETTABLE POWDER-I-United Co-op
9080 UNICO FRUIT SPRAY POWDER, Captan 10%, DDT 10%, lead arsenate 25%-FI-United Co-op
9081 UNICO GARDEN DUST, Carbaryl, 3%, zineb 5%-IF-United Co-op
9082 UNICO GARDEN SPRAY CONCENTRATE, Lindane 5%, malathion 12.5%, TDE 5%-I-United Co-op
9083 UNICO GARDEN SPRAY POWDER, Methoxychlor 12.5%, rotenone 2.5%, rotenoids 4%, zineb 12.5%-FI-United Co-op
9084 UNICO GRAIN FUMIGANT, Ethylene dichloride 70%, carbon tetrachloride 30%-IF-United Co-op
9085 UNICO GRAIN FUMIGANT #3, Ethylene dibromide 5%, ethylene dichloride 65%, carbon tetrachloride 27%, sulfur dioxide 3%-IF-United Co-op
9086 UNICO GRAIN FUMIGANT 73, Ethylene dibromide 70%, methyl bromide 29.5%-IF-United Co-op
9087 UNICO GRANULAR HEPTACHLOR 20%-I-United Co-op
9088 UNICO HEPTACHLOR DUST BASE (25%)-IF-United Co-op
9089 UNICO HEPTACHLOR EMULSIFIABLE CONCENTRATE (31.2%)-I-United Co-op
9090 UNICO HEPTACHLOR GRANULAR 2½-I-United Co-op
9091 UNICO HEPTACHLOR OIL SOLUTION (34.2%)-IC-United Co-op
9092 UNICO HEPTACHLOR SEED TREATER#2, Heptachlor 25%-I-ST-United Co-op
9093 UNICO HEPTACHLOR TRANSPLANTER SOLUTION (32.3%)-I-United Co-op
9094 UNICO HOUSEHOLD AERSOL, 1-1-Dichloro-2,2-Bis (ethylphenyl) ethane 3%, piperonyl butoxide 6%, pyrethrins 24%-IA-United Co-op
9095 UNICO INSECT SPRAY, Oil 99.465%, DDVP 0.1802%, piperonyl butoxide 0.3%, pyrethrins 0.035%-I-United Co-op
9096 UNICO KILL FLY, DDVP 0.5%-IB-United Co-op
9096.50 UNICO KILL FLY RESIN STRIP, DDVP 18.6%-IB-United Co-op
9097 UNICO KLEEN WALK GRANULES, Sodium chlorate 40%, sodium metaborate 51%, monuron 2.4%-H-United Co-op
9098 UNICO LAWN GRANULES, Chlordane 5%-I-H-United Co-op
9099 UNICO LAWN SPRAY, Chlordane 45%-I-H-United Co-op
9100 UNICO LAWN WEED KILLER, 2,4-D acid equiv. 11.5%-H-United Co-op
9101 UNICO LEAD ARSENATE (STANDARD 96%)-I-United Co-op
9102 UNICO LINDANE EMULSIFIABLE CONCENTRATE (20%)-I-United Co-op
9103 UNICO LINDANE WETTABLE POWDER (25%)-I-United Co-op

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9104 UNICO LIVESTOCK AND BARN FOGGING SPRAY, Oil 98.9%, piperonyl butoxide 1%, pyrethrins 0.1%-I-United Co-op
9105 UNICO MALATHION-4 CATTLE AND POULTRY DUST, Malathion 4%-I-United Co-op
9106 UNICO MALATHION 5% DUST-I-United Co-op
9107 UNICO MALATHION DUST BASE (25%)-IC-United Co-op
9108 UNICO MALATHION-5 EMULSIFIABLE CONCENTRATE, Malathion 54.8%-I-United Co-op
9109 UNICO MALATHION GRAIN PROTECTANT, Premium grade malathion 1%-I-United Co-op
9110 UNICO MALATHION GRAIN SPRAY (57%)-I-United Co-op
9112 UNICO MALATHION-51 SPRAY, Malathion 55.3%-I-United Co-op
9113 UNICO MALATHION SPRAY POWDER (25%)-I-United Co-op
9114 UNICO MALATHION WETTABLE POWDER (25%)-I-United Co-op
9115 UNICO METHYL PARATHION DUST BASE (20%)-IC-United Co-op
9116 UNICO METHYL PARATHION EMULSIFIABLE CONCENTRATE (24%)-I-United Co-op
9117 UNICO METHYL PARATHION-4 EMULSIFIABLE CONCENTRATE (43.9%)-I-United Co-op
9118 UNICO NEMAGON®-I SOIL FUMIGANT, 1,2-Dibromo-3-chloropropane 42.7%-IF-United Co-op
9119 UNICO NICOTINE SULPHATE (40%)-I-United Co-op
9120 UNICO PARATHION-8 EMULSIFIABLE CONCENTRATE (43.9%)-I-United Co-op
9121 UNICO PARATHION EMULSIFIABLE CONCENTRATE (25%)-I-United Co-op
9122 UNICO PARATHION-4 EMULSIFIABLE CONCENTRATE (45.3%)-I-United Co-op
9123 UNICO PARATHION-8 EMULSIFIABLE CONCENTRATE (80.5%)-I-United Co-op
9124 UNICO PARATHION WETTABLE POWDER (15%)-I-United Co-op
9125 UNICO PENTA CONCENTRATE, Pentachlorophenol 40%-WP-United Co-op
9126 UNICO PENTA WOOD PRESERVATIVE, Pentachlorophenol 34.1%-WP-United Co-op
9126.50 UNICO PROLIN® RAT AND MOUSE KILLER, Warfarin 0.025%, sulfaquinoxaline 0.025%-R-United Co-op
9126.75 UNICO PROLIN® RODENTICIDE CONCENTRATE, Warfarin 0.5%, sulfaquinoxaline 0.5%-R-United Co-op
9127 UNICO PYRENONE® EMULSIFIABLE CONCENTRATE, Piperonyl butoxide 12%, pyrethrins 1.2%-I-United Co-op
9128 UNICO RAT & MOUSE KILLER, Sodium salt of pindone 0.14%-R-United Co-op
9131 UNICO ROOTING POWDER (HORMONE-LIKE), Indole butyric acid 0.1%-PH-United Co-op
9132 UNICO ROSE & FLORAL DUST, DDT 5%, lindane 1%, N-trichloromethyl thiophthalimide 5%, sulfur 25%, zineb 5%-FI-United Co-op
9133 UNICO ROSE AND FLORAL SPRAY POWDER, Lindane 3.0%, DDT 12.5%, sulfur 20.0%, zineb 12.5%-FI-United Co-op
9134 UNICO ROSE-FLOWER FUNGICIDE, N-Trichloromethyl thiophthalimide 75%-F-United Co-op
9135 UNICO 4-IN-1 ROTENONE POWDER, Rotenoids 3.25%, rotenone 1.75%-I-United Co-op
9136 UNICO ROTENONE SPRAY, Rotenone 2.5%, rotenoids 3.48%-I-United Co-op
9137 UNICO ROTENONE SPRAY POWDER (5%)-I-United Co-op
9137.50 UNICO SEVIN® DUST, Carbaryl-I-United Co-op
9137.75 UNICO SEVIN® SPRAY POWDER, Carbaryl 50%-I-United Co-op
9138 UNICO SNAIL & SLUG PELLETS, Calcium arsenate 5.0%, meltadehyde 3.2%-IB-United Co-op
9139 UNICO SOYBEAN SEED TREATER CAPTAN, Captan 25%-F-United Co-op
9140 UNICO SPRAY OIL, Refined petroleum distillate 97%-I-United Co-op
9140.50 UNICO STOCK SPRAY CONCENTRATE, *Alpha*-methylbenzyl-3-(dimethoxyphosphinyloxy)-cis-crotonate 12.6%, oil 80.2%-I-United Co-op
9141 UNICO SULPHUR, DRY WETTABLE (95%)-FI-United Co-op
9142 UNICO SULPHUR, SPRAYING, Sulfur 95%-FI-United Co-op
9143 UNICO SUPERIOR MISCIBLE SPRAY OIL, Refined petroleum distillate 97%-I-United Co-op
9144 UNICO TCA-95 GRASS KILLER, Sodium trichloroacetate 95%-H-United Co-op
9145 UNICO TDE DUST BASE (50%)-IC-United Co-op
9146 UNICO TDE-DIELDRIN EMULSIFIABLE CONCENTRATE, Dieldrin 2.1%, TDE 23.9%-I-United Co-op
9147 UNICO TDE EMULSIFIABLE CONCENTRATE (23.9%)-I-United Co-op
9148 UNICO TDE WETTABLE POWDER (50%)-I-United Co-op

9149 UNICO TERMITE KILL, Chlordane 45%-I-United Co-op
9150 UNICO THIODAN® EMULSIFIABLE CONCENTRATE, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 22.8%-I-United Co-op
9151 UNICO 50% THIODAN® WETTABLE POWDER, 6,7,8,9,10,10-Hexachloro-1,5,5a,6,9,9a-hexahydro-6,9-methano-2,4,3-benzodioxathiepin-3-oxide 50%-I-United Co-op
9152 UNICO TOXAPHENE BACK RUBBER SOLUTION, Toxaphene 5%-ICP-United Co-op
9153 UNICO TOXAPHENE EMULSIFIABLE CONCENTRATE (60%)-I-United Co-op
9154 UNICO TOXAPHENE LIVESTOCK SPRAY CONCENTRATE-I-United Co-op
9213 UNITED CLAY MINES KAOLIN, For insecticidal dusts, etc.-D-United Clay
9214 "UNI-VAP" ELECTRIC INSECTICIDE VAPORIZERS-E-Universal Elec.
9215 UREABOR®, Disodium tetraborate pentahydrate 63.2%, disodium tetraborate decahydrate 30.8%, 3-p-chlorophenyl 1,1 dimethylurea 4%-H-U. S. Borax
9216 UREABOR® 31, Disodium tetraborate pentahydrate 80.4%, disodium tetraborate decahydrate 13.1%, monuron 3%, 2,3,6-trichlorobenzoic acid and related compounds 1%-H-U. S. Borax
9217 UREABOR® 62, Disodium tetraborate pentahydrate 67.5%, disodium tetrabroate decahydrate 21.5%, monuron 6%, 2,3,6-trichlorobenzoic acid and related compounds 2%-H-U. S. Borax
9218 UREABOR® 8D, Disodium tetraborate pentahydrate 79.9%, disodium tetraborate decahydrate 9.1%, diuron 8%-H-U. S. Borax
9221 USCO TROPICAL ROACHKIL, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, N-Octyl bicycloheptene dicarboximide, piperonyl butoxide, pyrethrins, oil-I-Uncle Sam
9222 VACCICHLOR WE-40 CHLORDANE-I-Vaccinol
9223 VACCICHLOR WE-80 CHLORDANE-I-Vaccinol
9224 VACCINOL PENTACHLOROPHENOL WOOD PRESERVATIVE 1 to 10 CONC.-WP-Caccinol
9225 VACCINOL PENTACHLOROPHENOL WOOD PRESERVATIVE 5% READY-TO-USE-WP-Vaccinol
9226 VACCINOL-TERMITE CHEMICAL, Boric acid 0.14%, formaldehyde 0.4%, oil 94.31%, phenol 3.26%-WP-Vaccinol
9227 VAIAY MOTH CAKES, Paradichlorobenzene-IF-Esquire Chemical
9228 VAIAY MOTH VAPORIZERS, Paradichlorobenzene-IF-Esquire Chemical
9229 VAIAY PARADICHLOROBENZENE CRYSTALS AND NUGGETS-IF-Esquire Chemical
9234 VALCO BRAND 3 LB. DDT EMULSIFIABLE-I-Valley
9235 VALCO 1½ LB. DIELDRIN EMULSIFIABLE-I-Valley
9236 VALCO BRAND EN-A-ME NO. 162, Endrin 1.6 lbs., methyl parathion 2 lb.-I-Valley
9237 VALCO BRAND 1.6 ENDRIN EMULSIFIABLE-I-Valley
9238 VALCO BRAND 2 LBS. ETHYL PARATHION EMULSIFIABLE-I-Valley
9240 VALCO BRAND 5% MALATHION DUST-I-Valley
9241 VALCO BRAND 10% MALATHION DUST-I-Valley
9242 VALCO BRAND 5 LB. MALATHION EMULSIFIABLE-I-Valley
9243 VALCO BRAND 2½% METHYL PARATHION DUST-I-Valley
9244 VALCO BRAND 5% METHYL PARATHION DUST-I-Valley
9245 VALCO BRAND 4 LB. METHYL 4 LB. METHYL PARATHION EMULSIFIABLE-I-Valley
9246 VALCO BRAND 20% TOXAPHENE DUST-I-Valley
9247 VALCO BRAND 6 LB. TOXAPHENE EMULSIFIABLE-I-Valley
9248 VANCIDE® 26, Lauryl pyridinium 5-chloro-2-mercaptobenzothiazole 80%, and other alkyl pyridinium 5-chloro-2-mercaptobenzothiazole 16%. For industrial use.-F-Vanderbilt
9249 VANCIDE® 30, Zinc 5-chloro 2-mercaptobenzothiazole 95%. For industrial use.-BF-Vanderbilt
9250 VANCIDE® 51, Sodium dimethyldithiocarbamate 27.6%, sodium 2-mercaptobenzothiazole 2.4%. For industrial use.-F-Vanderbilt
9251 VANCIDE® 89, Captan 90%. For industrial and manufacturing use.-FB-Vanderbilt
9252 VANCIDE® BL, 2,2′ Thiobis (4,6-dichlorophenol) 97%-Bacteriostat for use in soap, shampoo, shaving cream and cosmetics.-F-Vanderbilt
9253 VANCIDE® BN, Disodium 2,2′ thiobis (4,6-dichlorophenoxide) 96%.-Bactericide and fungicide—Fungus and alga control in formulations, etc.-F-Vanderbilt
9254 VANCIDE® BN SOLUTION, Disodium 2,2′-thiobis (4,6-dichlorophenoxide) 50%.—Bactericide and fungicide for fungus and alga control in formulations, etc.-F-Vanderbilt

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9255 VANCIDE® 26EC, Lauryl pyridinium 5-chloro-2-mercaptobenzothiazole 25%. For industrial use.-F-Vanderbilt
9257 VANCIDE® 89RE, Captan 99%. For use in pharmaceutical preparations.-F-Vanderbilt
9258 VANCIDE® 20S, Monoethanolammonium 2-mercaptobenzothiazole 40%. For industrial use.-F-Vanderbilt
9259 VANCIDE® 51Z, Ziram 90%, zinc 2-mercaptobenzothiazole 7.8%. For industrial use.-BF-Vanderbilt
9260 VANCIDE® 51Z DISPERSION, Ziram 46%, zinc 2-mercaptobenzothiazole 4%. For industrial use.-BE-Vanderbilt
9261 VANCIDE® 51Z WETTABLE POWDER, Ziram 85.5%, zinc 2-mercaptobenzothiazole 7.4%. For industrial use.-F-Vanderbilt
9262 VANGARD® 45, Captan 45%, For veterinary use. -F-Vanderbilt
VAPAM®=SODIUM N-METHYL DITHIOCARBAMATE-See STAUFFER VAPAM®
9262.50 VAPEX, DDVP 3%, oil base-I-Chapman
9263 VAPOFOG, 4.75 lbs. per gallon technical DDVP-I-Chapman
9264 VAPONA® INSECTICIDE, Contains not less than 93% 2,2-dichlorovinyl dimethyl phosphate (DDVP) and not more than 7% insecticidally active, related compounds IC-Shell
9264.50 VAPONA VAPOR AEROSOL INSECTICIDE, DDVP 9.2%-I-Edco
9265 VAPONICIDE, DDVP-I-Rockland
9266 NO. 375 VAPORIZER INSECT SPRAY, Ethylhexyl bicycloheptene dicarboximide, oil, piperonyl, butoxide, pyrethrins-I-Uncle Sam
9267 VAPOTONE-DDT 1-5 DUST 5%, DDT 5%, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9268 VAPOTONE 1 DUST, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9269 VAPOTONE PERTHANE® 1-5 DUST, Diethyl diphenyl dichloroethane 4.75%, related compds. 0.25%, TEPP 1%, other ethyl phosphates 1.5%-I-Calif. Chem.
9270 VAPOTONE-SULFUR 1-30 DUST, Sulfur 30%, TEPP 1%-FI-Calif. Chem.
9271 VAPOTONE XX EMULSIVE, TEPP 20%, other phosphates 30%-I-Calif. Chem.
9272 VAR-LAC-OID THALLIUM SULPHATE-Var-Lac-Oid
9273 VATSOL® WETTING AGENTS-A-Am. Cyanamid
9274 V-C 13® NEMACIDE, 0,2,4-Dichlorophenyl O,O-diethyl phosphorothioate 75%-I-Virginia-Carolina
9275 VEGETABLE SPRAY, Pine oil 5%, piperonyl butoxide 5%, pyrethrins-.5%-I-Destruxol
9276 VELEX CLAY-D-Southeastern Clay Company
9277 VELSICOL ETHYLENE DIBROMIDE-IF-Velsicol
9278 VELSICOL FERBAM-F-Velsicol
9279 VELSICOL METHYL BROMIDE-IF-Velsicol
9280 VELSICOL PHENYL MERCURIC ACETATE-F-Velsicol
9280.30 VELSICOL ZIRAM-F-Velsicol
9280.40 VEON® 245, Triethylamine salt of 2,4,5-T 56.7%-H-Dow
9280.50 VEON® BRUSH KILLER, Dimethylamine salt of 2,4-D 24.3%, triethylamine salt of 2,4,5-T 28.2%-H-Dow
9280.60 VERTIFUME®, Carbon bisulfide 16.5%, carbon tetrachloride 82.5%-IF-Dow
9280.70 VERTON® 245, Propylene glycol butyl ether esters of 2,4,5-T 33.6%-H-Dow
9280.80 VERTON® CE, Propylene glycol butyl ether esters of 2,4-D 36%, propylene glycol butyl ether esters of 2,4,5-T 34%-H-Dow
9281 VET-KEM DAIRY, LIVESTOCK & POULTRY DUST, Malathion 4%, methoxychlor 5%-I-Vet-Kem
9282 VI-CAD, Cadmium chloride-F-Vineland
9283 VIDDEN® CE, 1,3-Dichloropropane and related compounds 100%-IF-Dow
9284 VIKANE®, Sulfuryl fluoride 95%-IF-Dow
9285 VISKO-RHAP® HERBICIDES, 2,4-D and 2,4,5-T invert formulations-H-Hercules
9287 VIKANE, Sulfuryl fluride 95%-IF-Dow
9288 VISQUEEN PLASTIC COVERS, For soil fumigation-E-Carolina
9289 VITAMIN B-1, Thiamin chloride hydrochloride 0.0044%-PH-Destruxol
9291 VOLCK CONC. PASTE EMULSIVE, Oil 80%-I-Calif. Chem.
9292 VOLCK 90 FLOWABLE OIL EMUL., Oil 90%-I-Calif. Chem.
9293 VOLCK ISOTOX SPRAY, DDT 2%, lindane 1%, oils 80%-I-Calif. Chem.
9294 VOLCK OIL SPRAY, Oil 97%-I-Calif. Chem.
9295 VOLCK PASTE EMULSION, Oil 80%-I-Calif. Chem.
9295.50 VOLCK SOLUBLE SPRAY, Petroleum oil 97%-I-Calif. Chem.
9296 VOLCK 70 SUPREME, Oil 97%-I-Calif. Chem.
9297 VOLCK SUPREME ETHION COMBINATION, Ethion 3.4%, oils 94%-I-Calif. Chem.
9298 VOLCK SUPREME OIL SPRAY, Petroleum oils 98%-I-Calif. Chem.
9299 VOO DOO BUG-KIL, DDT, lindane, pyrethrins-I-Xterminator
9300 VOO DOO MAGIC MIST AEROSOL, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, piperonyl butoxide, pyrethrins-IA-Xterminator

VICHEM FUNGICIDES & HERBICIDES

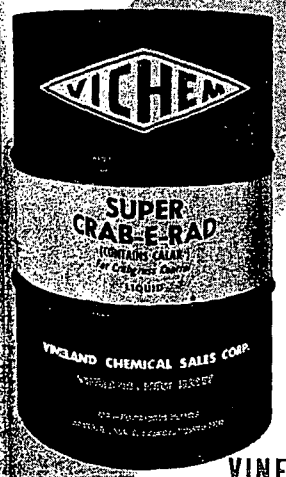
for treatment and maintenance of fine turf

from tee to green

NEW!
MERCURAM
(Thiram-PMC)
A broad spectrum turf grass fungicide

These specialty products, developed specifically for golf course and park use, are now available for the treatment and control of fine turf grasses. VICHEM research in agricultural chemicals has produced such outstanding developments as DSMA—DiSodium Methyl Arsonate; AMA—Ammonium Methyl Arsonate; CPA—Calcium Propyl Arsonate; CALAR— Calcium Acid Methyl Arsonate.

. . . the finest chemicals to protect your finest turf.



FUNGICIDES

LIQUIPHENE 10% & 33⅓% (PMA)
THIURAM 75 (Thiram 75%)
THIURAM M (Thiram-Mercury)
MERCURAM (Thiram-PMC)

HERBICIDES

• for Crabgrass and weed control
CRAB-E-RAD (Powder) DSMA
SUPER CRAB-E-RAD (Liquid) AMA
SUPER CRAB-E-RAD + 2 (liquid) AMA + 2, 4, D
SUPER CRAB-E-RAD (Calar)
NEW CRAB-E-RAD 70 (Liquid) DSMA

• for Dallis grass control
DAL-E-RAD 100 (Powder) DSMA
SUPER DAL-E-RAD (Liquid) AMA
SUPER DAL-E-RAD + 2 (Liquid) AMA + 2, 4, D
NEW DAL-E-RAD 70 (Liquid) DSMA

Distributor Inquiries Invited

VICHEM
VINELAND, NEW JERSEY

VINELAND CHEMICAL SALES CORPORATION
Manufacturing Plants: Vineland, New Jersey • Palmer, Puerto Rico

958870234

9301 VOO DOO NEW ROACH MAGIC, O,O-Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, piperonyl butoxide, pyrethrins-I-Xterminator
9302 VOO DOO ROACH POWDER-MICRONIZED 50% DDT-I-Xterminator
9303 VOO DOO WHITE MAGIC INSECTICIDE, Chlordane 2%-I-Xterminator
9304 VOO DOO WHITE MAGIC MOUSE-KIL, Micronized DDT 50%-R-Xterminator
9305 VOO DOO 42 WITH WARFARIN, Warfarin 0.025%-R-Xterminator
9305.50 VORLEX, Chlorinated (3-Hydrocarbons 80%), Methyl isothiocyanate 20%-IF-F-H-Morton
9305.75 V. P. DDVP "EMULSIFIABLE" 2 lbs./gal.-I-Chapman
9306 WARBICIDE 5, Rotenone 5%-I-Chipman (Can.)
9307 WARBO POWDER, Rotenone 5%-I-Howard
9308 WARFARAT MEAL, Warfarin-R-Hess & Clark
9309 WARFARAT PELLETS, Warfarin-R-Hess and Clark
9310 WARFARIN (3-(alpha-acetonyl-benzyl)-4-hydroxycoumarin)-R-Wisc. Alumni Res. Foundation
9311 WASP-NOT AEROSOL, Dieldrin 0.5%, malathion 3%-I-Nott
9312 WEE STINKY FLY TRAP CONTROL POWDER, DDT 1.25%, parachlorophenyl parachlorobenzene sulphonate 1.25%-I-Dioptron
9313 WEE STINKY OUTDOOR FLY TRAPS-E-Dioptron
9314 WEED A BOMB, Isooctyl ester 2,4-D 4.5%, 2,4,5-T 0.75%-H-Thomp. Chem.
9314.50 WEEDBEADS®, Sodium pentachlorophenate 79%, sodium salts of other chlorophenols 11%-H-Dow
9315 WEED KILLER 650, Emulsifiable isopropyl ester formulation of 2,4-D. Contains 3.34 lbs. 2,4-D acid equiv. per gal. Miscible in common petroleum solvent-H-Amchem Prods.
9316 WEED KILLER D, 2,4-D 15.2%, 2,4,5-T 7.2%-H-Destruxol
9317 WEED-NO-MORE IMPROVED, Isooctyl ester 2,4-D 14%, silvex 4.3%-H-Acme
9318 WEED-NOT LAWN WEED KILLER, 2,4-D, 2,4,5-T-H-Nott
9329 WEEDAR 64, Alkylamine 2,4-D (acid equiv. 4 lbs./gal.)-H-Amchem. Prods.
9330 WEEDAR AMINE BRUSH KILLER, 2 lbs. 2,4-D and 2 lbs. 2,4,5-T acids equiv. per gal.-H-Amchem Prods.
9331 WEEDAR MCPA, 2-Methyl-4-chlorophenoxyacetic acid 2 lbs./gal.-H-Amchem Prods.
9332 WEEDAR MCPA CONC., Alkanolamine salt of 2-methyl-4-chlorophenoxyacetic acid (4 lbs. MCPA equiv. per gal.)-H-Amchem Prods.
9333 WEEDAR 2,4,5-T, 4 lbs. 2,4,5-T acid equiv. per gal.-H-Amchem. Prods.
9334 WEEDAZOL, 3-Amino-1,2,4-triazole 50%-H-Amchem Prods.
9335 WEEDEX WEEDKILLER, Sodium metarsenite 41%-H-Good
9336 WEEDEZ WONDER BAR, 2,4-D Triethylamine salt 18% (wax bar)-H-Chipman
9337 WEEDICIDE 32, Dimethylamine salt of 2,4,5-T 3%, dimethylamine salt of 2-methyl-4-chlorophenoxyacetic acid (3) 2%, triethylamine salt of 2,4-D 32%-H-Thomp. Chem.
9338 WEEDICIDE 40% BUTYL ESTER, Butyl 2,4-D 40%-H-Thomp. Chem.
9339 WEEDICIDE 50% BUTYL ESTER, Butyl 2,4-D 50%-H-Thomp. Chem.
9340 WEEDICIDE BUTYL ESTER 80, Butyl 2,4-D 57%-H-Thomp. Chem.
9341 WEEDICIDE CONCENTRATE AMINE, Amine salt of 2,4-D 50%-H-Thomp. Chem.
9342 WEEDICIDE 45% ISOPROPYL ESTER, Isopropyl 2,4-D 45%-H-Thomp. Chem.
9343 WEDDICIDE L. V. 1.0.80, Butyl 2,4-D 67.8%-H-Thomp. Chem.
9344 WEEDICIDE RANCHER BUTYL ESTER, Butyl 2,4-D 77.4%-H-Thomp. Chem.
9346 WEEDONE BRUSH KILLER 32, Butoxy ethanol low volatile esters. Contains 2/3 lb. 2,4,5-T 1-1/3 lbs. 2,4-D acids equiv./gal.-H-Amchem Prods.
9347 WEEDONE BRUSH KILLER 64, Butoxy ethanol low volatile esters. Contains 1 1/3 lbs. 2,4,5-T, 2-2/3 lbs. 2,4-D acids equiv./gal.-H-Amchem Prods.
9348 WEEDONE BRUSH KILLER 977, Butoxy 977, Butoxy ethanol low volatile esters. Contains 1 1/3 lbs. 2,4-D, 2/3 lbs. 2,4,5-T acids equiv./gal.-H-Amchem Prods.
9349 WEEDONE CHICKWEED KILLER, Silvex butoxy ethanol low volatile ester, ¾ lb. acid equiv./gal.-H-Amchem Prods.
9350 WEEDONE CLOVER KILLER, 2,4,5-T Butoxy ethanol low volatile ester, 1 lb. acid equiv./gal.-H-Amchem Prods.
9351 WEEDONE CONC. 48, Emulsifiable ethyl ester 2,4-D. Contains 3 lbs. 2,4-D acid equiv./gal.-H-Amchem Prods.
9352 WEEDONE CRAB GRASS KILLER, Calar-H-Amchem Prods.
9353 WEEDONE INDUSTRIAL BRUSH KILLER, Butoxy ethanol low volatile esters containing 2 lbs. 2,4,5-T, 2 lbs. 2,4-D acids equiv./gal.-H-Amchem Prods.
9354 WEEDONE LAWN WEED KILLER, Butoxy ethanol esters 2,4-D and silvex (acid equiv. 0.5 and 0.25 lb./gal.)-H-Amchem Prods.
9355 WEEDONE LV 4, Butoxy ethanol ester 2,4-D 4 lbs. acid/gal.-H-Amchem Prods.
9356 WEEDONE SPOT GRASS AND WEED KILLER AEROSOL, 1% 3-Amino-1,2,4-triazole-H-Amchem Prods.

9357 WEEDONE 2,4,5-T, Butoxy ethanol ester 2,4,5-T acid 4 lbs./gal.-H-Amchem Prods.
9358 WEEDONE 2,4,5-TP, 4 lbs. silvex acid equiv./gal.-H-Amchem Prods.
9358.20 WEED-RHAP® A-2D-2T, 2 lbs. 2,4-D and 2 lbs., 2,4,5-T acid equiv. per gal. amine salts-H-Hercules
9358.25 WEED-RHAP A-4D, 4 lbs, 2,4-D acid equiv. per gal., amine sale-H-Hercules
9358.30 WEED-RHAP A-6D, 6 lbs. 2,4-D acid equiv. per gal., amine salt-H-Hercules
9358.35 WEED-RHAP B-4D, 4 lbs. 2,4-D acid equiv. per gal., butyl ester-H-Hercules
9358.40 WEED-RHAP B-6D, 6 lbs. 2,4-D acid equiv. per gal., butyl ester-H-Hercules
9358.45 WEED-RHAP I-3.34D, 3.34 lbs. 2,4-D acid equiv. per gal. isopropyl ester-H-Hercules
9358.50 WEED-RHAP B-2-67D, 2.67 lbs. 2,4-D acid equiv. per gal., butyl ester-H-Hercules
9358.55 WEED-RHAP LOW VOLATILE 4D, 4 lbs. 2,4-D acid equiv. per gal. 2-ethyl hexyl ester, low volatile-H-Hercules
9358.60 WEED-RHAP OW VOLATILE 4D (for mixing with fertilizer), 2,4-D 2-ethyl hexyl ester 4 lb./gal. acid equiv.-H-Hercules
9358.65 WEED-RHAP LOW VOLATILE GRANULAR D, 20% Low Volatile 2,4,D acid equiv. per pound-H-Hercules
9358.70 WEED-RHAP A-4T, 4 lbs. 2,4,5-T acid equiv. per gal., amine salt-H-Hercules
9359 WEEDSOL, Sodium arsenate 43%-H-Destruxol
9360 WEY-CHEM BD-50 PESTICIDE DISPERSANT-A-D-Weyerhaeuser
9361 WEY-CHEM BD-100 PESTICIDE DISPERSANT-A-D-Weyerhaeuser
9362 444 WHITE LABEL INSECTICIDE, Oil 99.55%, piperonyl butoxide 0.375%, pyrethrins 0.075%-I-Chem. Spec. Corp.
9363 WHITTAKER, CLARK & DANIELS DILUENTS, INERT EXTENDERS AND CARRIERS, Clay, talc and diatomaceous earth-D-Whittaker, Clark & Daniels
9364 WILLSON AGRI-TOX RESPIRATOR, For toxic pesticides and dusts, etc.-E-Willson
9365 WILLSON ANHYDROUS AMMONIA MASK, WIG-G4D-E-Willson
9366 WILLSON DUST RESPIRATOR NO. 2D, For non-toxic nuisance dusts-E-Willson
9367 WILLSON MONOGOGGLES-E-Willson
9368 WILLSON SAFETY GOGGELS-E-Willson
9369 WILLSON SAFETY SPECTACLES-E-Willson
9370 WILLSON STYLE WIG-GID FUMIGANT MASK, For organic chloride and bromide fumigants, etc.-E-Willson
9371 WILLSON STYLE WIG-G7D FUMIGANT MASK, For cyanide fumigants-E-Willson
9372 WILLSON WIG-G3FD GREENHOUSE MASK, For organic phosphorus cmpds.-E-Willson
9373 WINRU 20% CHLORDANE, Chlordane 20%, oil 80%-I-Ind. Fumigant
9374 WINRU 75% CHLORDANE-I-Ind. Fumigant
9375 WINRU 25% DDT EMULSIFIABLE CONC.-I-Ind. Fumigant
9376 WINRU DDT-LINDANE CONC., DDT 25%, lindane 2.5%-I-Ind. Fumigant
9377 WINRU DDT-LINDANE SPRAY, DDT 2.5%, lindane 0.25%, oil-In-Ind. Fumigant
9378 WINRU 25% DDT OIL CONC.-I-Ind. Fumigant
9379 WINRU 5% DDT SPRAY, DDT 5%, methylated naphthalenes 2%, oil 93%-I-Ind. Fumigant
9380 WINRU DIELDRIN CONCENTRATE, Oil 77.54%, 17.46%-I-Ind. Fumigant
9381 WINRU 45% EMULSIFIABLE CHLORDANE, Chlordane 45%, oil 40%, polyoxyethylene penta laurate 15%-I-Ind. Fumigant
9382 WINRU 90% EMULSIFIABLE CHLORDANE-I-Ind. Fumigant
9383 WINRU FOGGING SPRAY NO. 1, Oil 98.2%, piperonyl butoxide 1.5%, pyrethrins 0.3%-I-Ind. Fumigant
9384 WINRU LINDANE 5, Lindane 0.5%, oil-I-Ind. Fumigant
9385 WINRU MALATHION CONC., Malathion 57%-I-Ind. Fumigant
9386 WINRU METHOXANE CONC., Aromatic oil 67%, lindane 4%, methoxychlor 24%-I-Ind. Fumigant
9387 WINRU METHOXANE SPRAY, Aromatic oil 8.4%, lindane 0.5%, methoxychlor 3%, oil 88.1%-I-Ind. Fumigant
9388 WINRU METHOXYCHLOR CONC., Methoxychlor 24%-I-Ind. Fumigant
9389 WINRU MILL FORMULA NO. 2, Oil 95.9%, trepene polychlorinates 2%, malathion 1%, piperonyl butoxide 1%, pyrethrins 0.10%-I-Ind. Fumigant
9390 WINRU MPB RESIDUAL SPRAY, Malathion, piperonyl butoxide, pyrethrins-I-Ind. Fumigant
9391 WINRU YPRENONE® CONC. NO. 20, Oil 94.28%, piperonyl butoxide 5.08%, pyrethrins 0.64%-I-Ind. Fumigant
9392 WINRU PYRENONE® EMULSIFIABLE CONC., Oil 72.2%, piperonyl butoxide 11.18%, polyoxyethylene penta laurate 14.75%, pyrethrins 1.18%-I-Ind. Fumigant
9393 WINRU PYRENONE® FLY SPRAY, Oil, piperonyl butoxide 0.25%, pyrethrins 0.03%-I-Ind. Fumigant
9394 WINRU PYRENONE® FOGGING SPRAY, Oil, piperonyl butoxide 1.26%, pyrethrins 0.16%-I-Ind. Fumigant

9395 WINRU PYRENONE® MILL SPRAY, Oil 98.9%, piperonyl butoxide 1%, pyrethrins 0.1%-I-Ind. Fumigant
9396 WINRU PYRENONE® OIL CON. NO. 101, Oil 86.63%, piperonyl butoxide 12.15%, pyrethrins 1.22%-I-Ind. Fumigant
9397 WINRU PYRENONE® OIL SPRAY SPECIAL, Oil 96.68%, piperonyl butoxide 3.16%, pyrethrins 0.16%-I-Ind. Fumigant
9398 WINRU PYRENONE® ROACH SPRAY ,Oil 99.10%, piperonyl butoxide 0.75%, pyrethrins 0.15%-I-Ind. Fumigant
9399 WINRU PYRENONE® OIL SPRAY CONC., Oil 93.36%, piperonyl butoxide 6.32%, pyrethrins 0.32%-I-Ind. Fumigant
9400 WINRU PYRENONE® VAPORIZER CONC. NO. 1, Oil 97.19%, piperonyl butoxide 2.5%, pyrethrins 0.31%-I-Ind. Fumigant
9400.50 WINRU SPECIAL FOGGING SPRAY, Butoxy polypropylene glycol, piperonyl butoxide, pyrethrins-I-Ind. Fumigant
9401 WINRU SPECIAL RESIDUAL CONCENTRATE NO. 2, Malathion, piperonyl butoxide, pyrethrins-I-Ind. Fumigant
9402 WIPP FOG-MIST CONCENTRATE, Malathion 5%, organic thiocyanates 5%-I-Wipp
9403 WIPP INDUSTRIAL AEROSOL BOMB, Piperonyl butoxide 4%, pyrethrins 0.5%-IA-Wipp
9404 "WOLMAN" PRESERVATIVE SALTS, Sodium chromate 35.6%, sodium fluoride 23.8% disodium hydrogen arsenate 23.8%, dinitrophenol 11.8%-WP-Wolman
9405 WOOD-KILL ESTER, Butyl ester of 2,4-D acid 13.3%, butyl ester of 2,4,5-T acid 12.7%-H-Woodbury
9406 WOOD-KILL 4 LB. ESTER CONC., Butyl ester of 2,4-D 27.18%, butyl ester of 2,4,5-T 27.18%-H-Woodbury
9407 WOOD-KILL ESTER CONC., Butyl ester of 2,4-D 42.6%, butyl ester of 2,4,5-T acid 42.40%-H-Woodbury
9408 WOOD-KILL LOW VOLATILE, 2-Ethyl H-methyl pentonoester, 2-ethyl hexanol of 2,4-D 2#, ester of 2,4,5-T 2#-H-Woodbury
9409 WOOD RIDGE CALOMEL-FI-Wood Ridge
9410 WOOD RIDGE CORROSIVE SUBLIMATE-FI-Wood Ridge
9411 WOOD RIDGE MIXTURE 21, Mercuric chloride 33.3%, mercurous chloride 66.7%-F-Wood Ridge
9412 WOOD RIDGE PHENYL MERCURIC ACETATE-F-Wood Ridge
9413 WOOD RIDGE PHENYL MERCURIC CHLORIDE-F-Wood Ridge
9414 WOOD RIIDGE PHENYL MERCURIC HYDROXIDE-F-Wood Ridge
9415 WOOD RIDGE THALLIUM SULFATE-R-Wood Ridge
9417 WOODBURY BRAND ALLYL ALCOHOL (98%)-H-Woodbury
9419 WOODBURY BRAND ANT AND ROACH BOMB, 0.5% Diethyl O-(2-isopropyl-4-methyl-6-pyrimidyl) phosphorothioate, 0.261% piperonyl butoxide, 0.052% pyrethrins-IA-Woodbury
9421 WOODBURY BRAND DUTCH ELM SPRAY, DDT 25%-I-Woodbury
9422 WOODBURY BRAND END BORER-2, Endrin 2%-I-Woodbury
9423 WOODBURY BRAND END BORER-4, Endrin 4%-I-Woodbury
9425 WOODBURY BRAND G.O.F. MULTI-USE GARDEN SPRAY, Captan 16.66%,malathion 16.66%, methoxychlor 30.7%, zineb 25%-FI-Woodbury
9426 WOODBURY BRAND 25% GRANULAR HEPTACHLOR-I-Woodbury
9427 WOODBURY BRAND INSECTICIDE BOMB, Methoxychlor 2%, piperonyl butoxide 1%, pyrethrins 0.2%-IA-Woodbury
9428 WOODBURY BRAND INSECT SPRAY, Diazinon 0.5%, piperonyl butoxide 0.261%-I-Woodbury
9429 WOODBURY BRAND 2,4-D LAWN WEED GRANULES, Isooctyl ester of 2,4-D 30.12%-H-Woodbury
9430 WOODBURY BRAND LIME SULFUR, Calcium polysulfides 29%-FI-Woodbury
9431 WOODBURY 4# PARATHION EMULSIFIABLE, Parathion 46.5%-I-Woodbury
9432 WOODBURY BRAND PENTA 10-1, Pentachlorophenol 34.0%, other chlorophenols and related compounds 6%-WP-Woodbury
9433 WOODBURY PIPERAZINE, Piperazine citrate 32%-I-Woodbury
9434 WOODBURY BRAND PRE-MERGE GRANULAR-20 2,4-D, Isooctyl of 2,4-D 30.12% Woodbury
9435 WOODBURY BRAND ROSE & DUST SPRAY, Captan 7%, malathion 4%, DDT 5%, 2,4-dinitro-6-(2-octyl) phenyl crotonate 0.777%-FI-Woodbury
9436 WOODBURY BRAND SODIUM ARSENITE, Sodium arsenite 40%-H-Woodbury
9436.50 WOODBURY BRAND SOLFARIN, Coumafuryl 0.14%-R-Woodbury
9437 WOODBURY HEPTALUBE SEED TREATER, 25% Heptachlor, related compounds 9.7%-ST-Woodbury

9438 WOODBURY P-M GRAIN PROTECTION POWDER, Malathion 1%, piperonyl butoxide 1%, pyrethrins 0.2%-I-Woodbury
9439 WOODBURY VAPONA® CONC. 0.5, DDVP 50%-I-Woodbury
9440 WOODBURY WISCONSIN DAIRY DUST, Malathion 4%, piperonyl butoxide tech. 0.6%, pyrethrins 0.06%-I-Woodbury
9442 WOODHEALTH WOOD PRESERVATIVE, Pentachlorophenol 1.2%, tetrachlorophenol 1.5%, chloro-o-phenylphenol 1/7%, orthodichlorobenzene 1%, oil 94%-WP-Prot. Prods.
9443 WOODLIFE WATER REPELLENT WOOD PRESERVATIVE, Oil 85%, pentachlorophenol 2.9%, tetrachlorophenol 1.5%-WP-Port. Prods.
9449 WYO BOND, 100 Pure pulverized western bentonite, insecticide carrier for dusting powders-D-Archer Daniels
9450 WYO JEL, 100% Pure pulverized wester bentonite, insecticide carrier for dusting
9451 WYO JEL-C, Western bentonite 100%, inert clay mineral (sodium montmorillonite) carrier-D-Archer Daniels
9452 X-ALL (Several Formulations), Combination of amitrole and simazin-H-Amchem Prods.
9453 4-XD, Alkanolamine salts (of the ethanol and isopropanol series) of 2,4-D 2.65%, equivalent to 1.6% 2,4-D acid-H-Scott
powders-D-Archer Daniels
9455 YELLOW DEVIL FUMIGANT APPLICATORS-E-Engine Parts
9456 YELLOW DEVIL PLASTIC AND PAPER MULCH APPLICATORS-E-Engine Parts
9456.50 YELLOW DEVIL POST-EMERGENCE DIRECTED SPRAYERS-E-Engine Parts
9457 YELLOW DEVIL SPRAY BOOMS-E-Engine Parts
9458 YELLOW DEVIL SPRAY GUNS-E-Engine Parts
9460 YELLOW DEVIL SPRAYERS (Various models), Power sprayers-E-Engine Parts
9461 444 YELLOW LABEL INSECTICIDE, Oil 98.72%, piperonyl butoxide 1.07%, pyrethrins 0.21%-I-Chem. Spec. Corp.
9462 YOUNG BLENDING MILLS-E-Young Machinery
9463 YOUNG BUCKET ELEVATORS-E-Young Machinery
9464 YOUNG CHAIN DRAG CONVEYORS-E-Young Machinery
9465 YOUNG CONTINUOUS MIXERS-E-Young Machinery
9466 YOUNG EMULSION FORMULATING EQUIPMENT-E-Young Machinery
9467 YOUNG HORIZONTAL BATCH MIXERS-E-Young Machinery
9468 YOUNG INSECTICIDE BLENDING EQUIPMENT-E-Young Machinery
9469 YOUNG JACKETED VESSELS-E-Young Machinery
9470 YOUNG MATERIALS HANDLING EQUIPMENT-E-Young Machinery
9471 YOUNG MIXERS-E-Young Machinery
9472 YOUNG PULVERIZERS-E-Young Machinery
9473 YOUNG ROTARY AIR LOCK FEEDER VALVES-E-Young Machinery
9474 YOUNG SCREW CONVEYORS-E-Young Machinery
9475 YOUNG SIFTERS-E-Young Machinery
9476 YOUNG TRANSVAIR PNEUMATIC CONVEYING SYSTEMS-E-Young Machinery
9477 YOUNG UNI-CAGE FILTER-COLLECTORS-E-Young Machinery
9477.50 ZECTRAN® 2-E, 4-Dimethylamino-3,5-xylyl methylcarbamate 22%-I-Dow
9477.75 ZECTRAN® 25-W, 4-Dimethylamino-3,5-xyly methylcarbamate 25%-I-Dow
9478 ZEE-N-O, Neutral basic zinc for fertilizer, 56% zinc-N-Andrews
9479 "ZEOLEX 7," Fine hydrated silica-D-Huber
9480 ZEOSYL, Ultra fine hydrated silica-D-Huber
ZINEB = ZINC ETHYLENE BISDITHIOCARBAMATE
9480.50 ZERLATE® ZIRAM FUNGICIDE, Zirma 76%-F-DuPont (I & B)
9480.75 ZINC COPOSIL FUNGICIDE, Copper 19%-F-Calif. Chem.
9481 Z.I.P., Zinc dithiocarbamate-amine complex 20%-ANR-Morton
ZIRAM = ZINC DIMETHYL DITHIOCARBAMATE
9481.50 ZIRATE, Zinc-iron sulfate combination. 5-6% iron, 16% sulfur, 27-29% zinc-N-Tenn. Corp.
9482 ZIRBERK, Ziram 76%-F-Wood Bridge
9483 ZOAMIX®, 3,5-Dinitro-o-toluamide (zoalene) 25% Coccidiostat-C-Dow
9484 ZOBAR® WEED KILLER, Dimethylamine salts of polychlorobenzoic acid 47.7% (4 lbs./acid equiv./gal.)-H-DuPont (I & B)
9485 ZONOLITE AGRICULTURAL VERMICULITE CARRIER, Zonolite
ACID
9486 ZOTOX CRAB GRASS KILLER, Arsenic acid 37.50%-H-Garden Prods.
9487 Z-S 3-10 ENDURO NEUTRAL, Sulfur 74%, zinc 9%-FI-Fla. Agr. Supply

958870236

BARTLETT TREE EXPERTS

Home Office, Research Laboratories & Experimental Grounds

STAMFORD, CONNECTICUT

BRANCH OFFICES

CONNECTICUT
Danbury
Hartford
New Haven
New Milford
Stamford
Westport

DELAWARE
Wilmington

INDIANA
Fort Wayne

KENTUCKY
Ashland

GEORGIA
Decatur

MAINE
Camden

MARYLAND
Annapolis
Bel Air
Easton
Rockville
Salisbury
Towson

MASSACHUSETTS
Cambridge
Framington Centre
Hingham
Leominster
Osterville
Pittsfield
Prides Crossing
Seekonk

NEW HAMPSHIRE
Concord
Exeter
Hanover
Laconia
Milford
Peterboro

NEW JERSEY
Elmer
Flemington
Morristown
Oradell
South Orange

NEW YORK
Albany
Islip
Monroe
Oneida
Poughkeepsie
Southampton
Syracuse
Westbury
White Plains
Yorktown Heights

NORTH CAROLINA
Charlotte

OHIO
Columbus
Poland
Zanesville

PENNSYLVANIA
Chambersburg
Bala-Cynwyd
Doylestown
Exton
Irwin
Lancaster
Reading
York

RHODE ISLAND
East Providence

TENNESSEE
Kingsport

VERMONT
Manchester
Rutland
Woodstock

VIRGINIA
Charlottesville
Newport News
Richmond
Roanoke

WEST VIRGINIA
Charleston
Huntington

SECTION II

Commercial Pesticides Listed According to Uses and Active Ingredients

(See **How to Use This Book** on page 25)

ADJUVANTS

ADHESIVE, UNSPECIFIED, 5918, 7903, 8461
ALBUMIN, 4437
ALBUMINS, POLYPHOSPHATES, 4474
ALKYLARYL ALCOHOL, ORGANIC, INORGANIC PHOSPHATE ACIDS, 5356
ALKYL ARYL POLYETHER ALCOHOLS, 142
ALKYL ARYL POLYOXY GLYCOLS, 7902
ALKYL ARYL POLYOXYETHYLENE GLYCOLS, 198, 4469, 5368, 5361
ALKYL ARYL POLYOXYETHYLENE GLYCOLS, FATTY ACIDS, ISOPROPANOL, 5082
ALKYL ARYL POLYOXYETHYLENE GLYCOLS, PETROLEUM SOLVENTS, 4470
ALKYL ARYL SULFONATES, 2190, 9017
ALKYL ARYL SULFONATE WITH POLYOXYETHYLENE SORBITOL HEXAOLEATE, 455
ALKYLENE OXIDE, 5362
ALKYL NAPHTHALENE SULFONATE, 7644
ALUMINUM SULFATE, 1150, 2721, 5451
AMINO CARBOXYLIC SOLUBLE SALTS, 1126.20
AMMONIUM CASEINATE, 5665
ANIONIC-NONIONIC EMULSIFIERS, 323.70, 454-8, 6971-77, 7827
AROMATIC SULFONATE-OXIDE CONDENSATE BLEND, 144-6
CALCIUM CASEINATE, 4242, 4438, 5061
CONDITIONERS, UNSPECIFIED, 1.50
CORROSION INHIBITOR, 3998
DEFOAMING AGENT, UNSPECIFIED, 4971
DIETHYLENE GLYCOL, ABIETATE, 2201
DIGLYCOL LAURATE, 7828-9
EMULSIFIER, UNSPECIFIED, 1870, 2284-97, 3270.50, 3271, 3271.50, 3272, 3272.50, 5271, 7825-6, 8789-95
ETHYLENEDIAMINE TETRA-ACETIC ACID, 1126.80
ETHYLENE OXIDE, 5363
FATTY ACIDS, 5662
FATTY ACIDS, PETROLEUM SULFONATES, 5027
FATTY DERIVATIVE OF ANAMINO SULFONIC ACID, 156, 6293
FISH OIL, 2988.50, 3427-9
HYDRATED LIME, 5599
IRON, 7934
LIGNOSULFONATES, 4554
MANGANESE SULFATE, POWDER MILK, SULFUR, 6810
METHYL CELLULOSE, 7640
NONIONIC EMULSIFIERS, 6978-9, 6980-2
ODORANT, UNSPECIFIED, 279, 1560, 1741, 2061, 2962, 2975, 3398-403, 5596, 8232
OIL, UNSPECIFIED, 4444
PETROLEUM SULPHONATES, 5360
PHTHALIC GLYCEROL RESIN, 4466
PIPERONYL BUTOXIDE, 4814, 6494.50
POLYOXYETHYLATED FATTY ACID, 2303
POLYOXYETHYLATED VEGETABLE OIL, 2301-2
POLYOXYETHYLENE ETHER ALCOHOL, 7314.75
POLYOXYETHYLENE SORBITAN MONOPALMITATE or OLEATE, 8973-4
POLYOXYETHYLENE SORBITOL ESTERS OF MIXED FATTY & RESIN ACIDS, 459, 460, 7313, 7314
POLYOXYETHYLENE SORBITOL OLEATE-LAURATE, 445
POLYETHYLENE SORBITOL SEPTAOLEATE, 445.50
n-PROPYL ISOME, 6388
RESIN, 5062
SOAP, 3940
SODIUM ALKYL NAPHTHALENE SULFONATE, 5438-9
SODIUM *n*-METHYL-*n*-PALMITOYLTAURATE, 4477
SODIUM SULFONATES, 593.50, 1569.70

958870237

SPREADER-STICKERS, UNSPECIFIED, 994.50, 1392, 1546, 1941.84, 1941.85, 4153.61, 4359-60, 4894, 5619, 5648, 7883, 7904, 7929
SULFONATED ALIPHATIC POLYESTER, 5440-1
SULFONATED FATTY ACIDS, TRITON-X-100, 5492
SULFOXIDE, 8176.50, 8179
TETRASODIUM ETHYLENEDIAMINE TETRA ACETATE, 1126.40, 1126.60
WETTING AGENTS, UNSPECIFIED, 435, 1941.46, 5591, 6601, 7829.50, 8909, 9273
ZINC SULFATE, 7533, 7709

ANIMAL REPELLENTS

ALLYL ISOTHIOCYANATE, BONE OIL, OIL OF SASSAFRAS, PARADICHLOROBENZENE, 7375
ALLYL ISOTHIOCYANATE, OIL OF SASSAFRAS, PARADICHLOROBENZENE, 7374
BLOOD, 2576
BONE TAR OIL, 618, 4530-1, 4595
CASTOR OIL, GUM RESINS, VEGETABLE WAX, 8798
CASTOR OIL, POLYBUTENES, 563, 563.50, 8799
COAL TAR, CRESYLIC ACIDS, NAPHTHALENEIC OILS, OILS, 6170
COPPER CARBONATE, COPPER NAPHTHENATE, DDT, NAPHTHALENE, ZINC NAPHTHENATE, 7247
MUSTARD OIL, 537.50
NAPHTHALENE, NICOTINE, OIL OF MUSTARD, 7214
NICOTINE, PHENOLS, PINE TAR, SODIUM CYANIDE, WOOD CREOSOTE, 1949
PEPPER, RED, SULFUR, 562
POTASSIUM NITRATE SULFUR, 3431
REPELLENT, UNSPECIFIED, 561, 798, 2100, 3265, 3569-71, 6618, 7652
RESIN, 6099, 7912
TAR, TURPENTINE, 614
THIRAM, 368.75, 530, 1644.50, 1644.75, 4532, 6539, 6751.50, 8459
ZINC DITHIOCARBAMATE-AMINE COMPLEX, 9481

ANTIBIOTICS

OXYTETRACYCLINE, STREPTOMYCIN, 1394
STREPTOMYCIN, 1147, 1523, 2714, 2905, 4722, 4838, 5921, 7617, 8766,8767, 8861, 9019

COCCIDIOSTATS, ANTHELMINTICS

PHENOTHIAZINE, 1568.50, 6270
PIPERAZINE, 6151-2
PIPERAZINE CITRATE, 9433
ZOALENE, 9483

DILUENTS AND SOLVENTS

ALUMINUM SILICATES, 7675
ATTAPULGITE, 462-5, 862.70, 2079-80, 3171-8, 5087-90, 6991
BENTONITE, 387, 9449-51
BENZENE, 432, 4557, 8197, 8474
CALCIUM CARBONATE, 942, 1579, 8446, 9289
CALCIUM SILICATE, 4818
CLAY TYPE, 502-3, 1604, 2078, 2422, 3228, 3384-90, 5127, 5430, 5430.50, 5431-2, 6315, 6575, 6634-5, 7911, 8445, 8447, 9015, 9213, 9276, 9363
DIATOMACEOUS SILICA, 357-8, 953-5, 4068, 8448
DILUENTS, UNSPECIFIED, 3230, 3435, 4529, 7714, 9360-1
HYDRATED LIME, 5257
LIMESTONE, PULVERIZED, 1572-3, 5255-6
N-METHYL PYROLIDONE, 5373.50
MONTMORILLONITE, 1811-2
OIL, UNSPECIFIED, 356, 433-4, 1939-41, 2338-45, 3608, 5445-6, 6401-2, 6605-6, 6606.50, 7118, 7836, 8191-2, 8194, 8796-7, 9016
PETROLEUM DERIVATIVES, 295, 295.10, 295.15, 295.20, 295.25, 295.30, 295.35, 295.40, 295.45, 295.50, 295.55, 295.60, 295.65, 295.70, 310, 1818, 1828-9, 1831-3, 1835, 1839, 1841, 5443-4, 8475-6
PHOSPHATE ROCK, 6611
POLYVINYLPYRROLIDONE, 6740
PYROPHYLLITE, 7049-50
SILICA, 8449, 9479
TALC, 603, 1577-8, 2299-300, 8450
TOLUENE, 315, 1838, 8199
VERMICULITE, 8486, 9485
XYLENE, 316, 1840, 8200

EQUIPMENT

BAIT DISPENSERS, 470.50, 2103-4, 2402, 4054, 7219, 7654
BLENDERS AND MIXERS, 1882-3, 4747, 5368-9, 6741, 7905-6, 8170, 9462, 9465, 9467-8, 9471
CONVEYING EQUIPMENT, 4823, 4826, 4828, 7907, 9463-4, 9470, 9475-6
DUSTERS, ELECTRIC, 3879
DUSTERS, HAND, 1081-3, 1086, 1090, 3843-4, 3848, 3854, 3889, 3896, 4750, 5489, 7422, 7793-5, 7797, 7801
DUSTERS, KNAPSACK, 3902
DUSTERS, POWER AND TRACTOR, 125, 783, 787, 3240-1, 3596, 3847, 3892, 4748, 4751, 6851
EQUIPMENT, MANUFACTURING, UNSPECIFIED, 1884, 5370
FANS, OPENING PROTECTION, 2396
FORMULATING AND MANUFACTURING EPUIPMENT, 8169, 8172, 9466, 9469, 9473, 9477
FUMIGANT APPLICATORS, 490, 1348, 1871, 1875-6, 2073, 2389, 4000, 4042-3, 5179, 9455
FUMIGANT COVERS, 9287, 9456
GAS MASKS, 36-40, 1870.20, 1870.40, 5345, 5349-50, 5353, 9365, 9370-2
GOGGLES (GLASSES), SAFETY, 355, 4596-7, 5351, 9367-9
GRANULE APPLICATOR, 784, 1085, 1218, 1351, 3279-82, 5558, 7721
GRINDING EQUIPMENT, 491, 4041, 4824-5, 4827, 4829, 7904.50, 8171, 8173-5, 9472
REPELLENT, UNSPECIFIED, 2385, 5557
RESPIRATORS, 352-354, 1870.60, 5343, 5346-8, 6962, 9364, 9366
SAFETY EQUIPMENT, UNSPECIFIED, 1870.80, 4598, 5342, 5344, 5352
SEED TREATERS, 4230
SIFTERS, ETC., 7386, 7908
SOIL APPLICATORS, 757-8, 8961.50
SPRAY GUNS, 1926, 3620, 3900, 3595.50, 4226, 4526, 8963, 9458
SPRAY NOZZLES, 57, 548-9, 564, 1605, 1923-5, 1929, 1934, 3910, 5273, 5275-8, 5283-4, 5355, 7719, 8466, 8870
SPRAY PUMPS, 127, 600, 1931, 3603, 3609, 3610.50, 3614, 3622, 3922, 4031, 4225, 7716, 7750-1, 7791-2, 7809, 8966
SPRAYER ACCESSORIES, UNSPECIFIED, 126, 128, 534.50, 534.75, 601, 862, 977, 1881, 1921-2, 1927-8, 1930, 1932-3, 1935, 3599, 3600.50, 3604, 3621, 3867, 3899, 5274, 5279, 5282, 7249, 7715, 7717, 7720, 7799, 8465, 9457
SPRAYERS, BARREL AND BUCKET, 3876, 3884-5
SPRAYERS, CART AND WHEELBARROW, 1092, 1606, 3866, 3873, 3904, 7810, 7813
SPRAYERS, COMPRESSED AIR, 471, 2410.15, 3851, 3853, 3857-8, 3868, 3870, 3877, 3887, 3891, 3897-8, 3909, 3912-3, 4503, 7418-20, 7788, 7796, 7802, 7804-7, 7811, 7814, 8168
SPRAYERS, ELECTRIC, 473, 2386.50, 2391, 3791, 3874, 3878, 3895, 3911, 3993, 7746
SPRAYERS, FOG OR MIST, 69, 489, 782, 785, 2211-6, 2280, 2390.75, 2421, 2983, 3619, 3625, 4822, 7429, 7782, 8441, 8672-4, 8971
SPRAYERS, HAND, 472, 501, 593, 973, 1093, 3841, 3845, 3849, 3855-6, 3859, 3861-2, 3864-5, 3869, 3871-2, 3881-3, 3886, 3907, 6087, 7421, 7789-90, 7808, 7812, 7834
SPRAYERS, HOSE, 494-8, 1094, 3627, 3629-30
SPRAYERS, KNAPSACK, 786, 1084, 2179, 3888, 3901, 3908, 7798, 7801.50, 7803, 7835
SPRAYERS, POWER, 129, 130, 191, 474, 533.50, 534, 598-9, 602, 755-6, 781, 788-9, 823-4, 971, 976, 978-9, 1080, 1088-9, 1604.50, 2267, 3233-9, 3601-2, 3605-6, 3610-11, 3613, 3615-8, 3623-4, 3628, 3646, 3795, 3842, 3850, 3852, 3860, 3863, 3880, 3890, 3893, 3899.50, 3903, 4223-4, 4228, 4228.50, 4229, 4230.50, 4230.75, 4749, 4752, 5364, 6352, 7385.50, 7442-4, 7718, 7800-1, 7846-7, 7884, 8911, 8960-1, 8964-5, 8967-8, 9456.50, 9460
SPRAYERS, SLIDE-TYPE, 1087, 1091, 3905
SPRAYERS, TANKS, 3600, 3612, 8962
TANKS, 3603.50, 4802, 8961.75
TRAPS, ANIMAL, 2393, 2400
TRAPS, INSECT, 552, 793, 1895, 1968-76, 2279, 2381, 3193, 4004-7, 9313
VAPORIZERS, 9214

FISH KILLERS

ROTENOIDS, ROTENONE, SULFOXIDE, 6925

FUNGICIDES

DUSTS

ANILINOCADMIUM DILACTATE, PHENYLMERCURY FORMAMIDE, 8035
CADMIUM CARBONATE, CAPTAN, PENTACHLORONITROBENZENE, 5821
CADMIUM CARBONATE, FOLPET, THIRAM, 5826
CAPTAN, 1003, 1410, 2220, 2451, 2465, 2479-80, 2566, 2621, 3458, 3678, 3802, 4901-2, 4844, 4950-1, 5970, 6016, 7535, 7963-4, 8692, 8975
CAPTAN, NABAM, 7615
CAPTAN, PENTACHLORONITROBENZENE, 4725, 5981
CHLORANIL, 2903, 3368, 4153.60

958870238

CHROMIUM-COPPER-ZINC, COMPLEX, 2472, 4864
COPPER (CUPROUS) OXIDE, 1613
COPPER OXYCHLORIDE, 818
COPPER OXYCHLORIDE SULFATE, 5482
COPPER SULFATE, BASIC, 163, 2162, 2605, 2692, 5250, 6702
COPPER, UNSPECIFIED, 683, 1007-9, 1164, 1668, 1745, 2497, 2746-7, 3099, 3467-8, 3684 3809, 4075-6, 4263-6, 5434, 7637, 8266-7, 8772, 8950, 8987
COPPER, ZINC, 5959
DICHLONE, 1690, 2458, 2473, 3826-7, 6611.75
DICHLONE, SULFUR, 5891
2,4-DICHLORO-6-(*o*-CHLOROANILINO)-*s*-TRIAZINE, 2466, 4156
3,5-DIMETHYL-1,3,5,2H-TETRAHYDROTHIADIAZINE-2-THIONE, 3725-6
DODINE, 2441-2, 4959
ETHYL MERCURIC ACETATE, PHENYL MERCURIC ACETATE, 7678-9, 8037-8
ETHYL MERCURY PHOSPHATE, 4494
FERBAM, 1082.80, 1180, 1464, 1769, 1848, 2486, 3115, 3509, 3708, 3819, 4130, 5391, 5618, 5790, 6653, 7564, 8283, 8717, 8991
MANEB, 1087.20, 1773.50, 2482, 2661-2, 3720-2, 3823.75, 4153.13, 4300.50, 4888, 5190, 7582, 8845, 9000
PENTACHLORONITROBENZENE, 1072-3, 1091.20, 1732, 2558, 2931, 4323, 4728-30, 5068.50, 5880, 8053.50
PHENYLMERCURIC ACETATE, THIRAM, 7522
PHENYLMERCURIC AMMONIUM ACETATE, 7677, 8036
N-PHENYLMERCURIC-ETHYLENEDIAMINE, 4497
THIRAM, 1207, 2260, 2561, 3834, 8638
ZINEB, 162, 819, 1211, 1795, 1904, 2477, 2496, 2501, 2697-9, 2902, 2946-8, 3067, 3111, 3127, 3556, 3768, 3837, 4153.85, 4330, 4646-7, 4931-2, 5083, 5217-8, 5386-7, 5961, 6031-2, 6318, 6725, 7638, 8327, 8678.38, 8678.40, 8678.42, 8678.44, 8686, 8868, 9012
ZIRAM, 2488, 2941, 5547, 9014

SPRAYS

ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE, 557.50, 557.60, 3918-9, 7483, 7873
ALKYL DIMETHYL BENZYL AMMONIUM CHLORIDE, n-di-ALKYL METHYL BENZYL AMMONIUM CHLORIDE, 3404, 3416
ALKYL DIMETHYL ETHYLBENZYL AMMONIUM CHLORIDE, ISOPROPYL ALCOHOL, 3412
ALKYL PYRIDINIUM 5-CHLORO-2-MERCAPTOBENZOTHIAZOLE, LAURYL PYRIDINIUM 5-CHLORO-2-MERCAPTOBENZOTHIAZOLE, 9248
ALKYL TOLYL METHYL TRIMETHYL AMMONIUM CHLORIDE, 3917
AMMONIUM DIMETHYL DITHIOCARBAMATE, 2087, 2428
AMMONIUM ETHYLENE BISDITHIOCARBAMATE, 294, 1229
AURAMINE, CADMIUM SEBACATE, MALACHITE GREEN, POTASSIUM CHROMATE, THIRAM, 4222
AURAMINE, CRYSTAL VIOLET, MALACHITE GREEN, 465.50
BISMUTH SUBSALICYLATE, 4545
BIS-(TRI-n-BUTYLTIN) OXIDE, 58, 6292, 8676
BORDEAUX MIXTURE, 17, 4442, 4947, 5116, 6100, 6191, 9036
BROMO SALICYLANILIDES, 408.50
CADMIUM, CAPTAN, PCNB, THIRAM, 6969.50
CADMIUM CALCIUM COPPER ZINC CHROMATE, 4929
CADMIUM CALCIUM COPPER ZINC CHROMATE, THIRAM, 4928
CADMIUM CARBONATE, FOLPET, THIRAM, 1380
CADMIUM CHLORIDE, 820, 9282
CADMIUM CHLORIDE HYDRATE, THIRAM, 822
CADMIUM SUCCINATE, 821
CALCIUM CHLORIDE, 8145
CAPTAN, 377, 1157, 4948-9, 5567, 5972, 5983, 6196, 7967.50, 7968, 7968.50, 9251, 9257, 9262
CAPTAN, CYCLOHEXAMIDE, 55.20
CAPTAN, FERBAM, 2985.30, 2985.60
CAPTAN, PCNB, 2920, 8484.50
CAPTAN, ZINEB, 6227, 9072
CETYLTRIMETHYLAMMONIUM BROMIDE, 2
CHLORAMINE-T-, 7852.50
CHLORANIL, 5650, 7880
CHLORINATED TRISODIUM PHOSPHATE, 7852.60
CHLOROBENZENES, UNSPECIFIED, 7852.70
CHLOROMETHOXYPROPYLMERCURIC ACETATE, 7164.40, 7164.50, 8952.50
CHLORO-o-PHENYLPHENOL, 2143, 2144
2-CHLORO-4-PHENYLPHENOL, 2139

CHLORO-2-PHENYLPHENOL, ISOPROPYL, ALCOHOL, SOAP, TERPINEOIL, 7497
CHROMIUM-COPPER-ZINC COMPLEX, 595, 4865
COAL TAR, 7409
COAL TAR NEUTRAL OILS, COAL TAR PHENOLS, SOAP, 3406
COAL TAR OILS, COAL TAR PHENOLS, SOAP, 2083
COPPER ACETATE, 7457
COPPER CARBONATE, 4443
COPPER DIHYDRAZINUM SULFATE, 2271
COPPER EDTA, 7852
COPPER (CUPRIC) OXIDE, 3420
COPPER (CUPROUS) OXIDE, 829, 3419, 3421
COPPER OXYCHLORIDE, 4213, 7460
COPPER OXYCHLORIDE, SULFATE, 5481, 7475
COPPER SULFATE, 319, 1587, 1614, 5459, 5811, 7461, 8477, 8699, 9044
COPPER SULFATE, BASIC, 317, 1165, 1407, 1612, 2431, 2656, 2825-6, 3454, 4821, 4863, 4952, 5024, 5251, 5607, 5717, 7462, 8245.50, 8463, 8480-1, 8778, 8872, 9029
COPPER SULFIDES, 3422
COPPER, UNSPECIFIED, 522, 1657-8, 2582, 3034, 3932, 4074, 4079-80, 4151, 4247.50, 5286, 5651-2, 7459, 9480.75
COPPER, MANGANESE, ZINC, 2817
COPPER, ORESITE, 4081
COPPER, OXYTETRACYCLINE, STREPTOMYCIN, 1393
COPPER, Na SALT OF B NAPHTHOXYACETIC ACID, 4266.50
COPPER, ZINC, 7544
CREOSOTE or CREOSOTE OIL, 6209
CRESYLIC ACID, 1825-6
CYCLOHEXIMIDE, 55.10, 55.40, 55.70
CYCLOHEXIMIDE, FERROUS SULFATE, 55.30
CYCLOHEXIMIDE, PENTACHLORONITROBENZENE, 55.50
CYCLOHEXIMIDE, THIRAM, 55.60
DEHYDROACETIC ACID, 4
DICHLONE, 1505-6, 1681, 2548, 2887, 3538, 3828, 5646-7, 6611.50, 6613, 8058
DICHLORAN, 655.50, 655.75
2,4-DICHLORO-6-(o-CHLORANILINO)-*s*-TRIAZINE, 2217
DICHLOROPHENE, 323.60, 5593.60
DI-ISOBUTYL CRESOXYETHOXY ETHYLDIMETHYL BENZYL AMMONIUM CHLORIDE, 3915
DI-ISOBUTYL PHENOXYETHYL DIMETHYL BENZYL AMMONIUM CHLORIDE, 7848
p-DI-ISOBUTYL PHENOXY ETHOXY DIMETHYL BENZYL AMMONIUM CHLORIDE, 3916
p-DIMETHYLAMINOBENZENEDIAZO SODIUM SULFONATE, 1977
3,5-DIMETHYL-1,3,5,2H-TETRAHYDROTHIADIAZINE-2-THIONE, 1803, 2821-2, 3727, 4890, 8749, 8952
DIPHENYLAMINE, 2084
DI-(PHENYLMERCURY) DODECENYL SUCCINATE, 8200.50
2,2'-DITHIOBISBENZOTHIAZOLE, MANGANOUS BENZOTHIAZYL MERCAPTIDE, MANGANOUS DIMETHYL DITHIOCARBAMATE THIRAM, 5515-6
DODINE, 1858
ETHOXYQUIN, 5318
N-ETHYLMERCURI-1,2,3,6-TETRAHYDRO-3,6-ENDOMETHANO-3,4,5,6,7,7-HEXA-CHLOROPHTHALIMIDE, 4127
ETHYL MERCURY ACETATE, 7479
ETHYL MERCURY CHLORIDE, 7464
ETHYL MERCURY CHLORIDE, PHENYL MERCURY ACETATE, 836
FERBAM, 1179, 1276, 1465, 1654, 1907, 2192, 2536, 2642, 2985-7, 3510, 4048, 4132, 4870, 4984, 5477, 5617, 5790.50, 6222, 6475-6, 7385, 7465, 8008, 9278
FOLPET (PHALTAN®), 3269, 3537, 5883-4, 6269, 6602, 8010.50, 8010.75, 9134
FORMALDEHYDE, 5461
GLYODIN, 1671, 1802
HYDROXYMERCURICHLOROPHENOL, 7647
HYDROXYMERCURICHLOROPHENOL, THIRAM, 8489
IODINE-ALKYLPHENOXY POLY (ETHYLENEOXY) ETHANOL COMPLEX, 557.70
LAURYLPYRIDINIUM CHLOROMERCAPTOBENZOTHIAZOLE, 9255
MALACHITE GREEN, PHENYL MERCURY DIMETHYL DITHIOCARBAMATE, THIRAM, 4738.50
MANEB, 1146.50, 2091-2, 4153.14, 4155, 4553, 4553.50, 5187, 6257
MANEB, NICKEL SULFATE, 2093
MERCAPTOBENZOTHIAZOLE, 8951
MERCURIC CHLORIDE, 2373, 3574, 4546, 5464, 7389, 7469, 9410

958870239

MERCURIC CHLORIDE, MERCUROUS CHLORIDE, 824.50, 1860, 1866, 2100.10, 2100.70, 3268, 4757, 9411
MERCUROUS CHLORIDE, 824.60, 824.70, 2374, 3573, 9409
MERCURY, ORGANIC, UNSPECIFIED, 1490, 2664, 3277, 6994, 6997, 7470
MERCURY, TETRAMETHYL THIRAM DISULFIDE, 8642
MERCURY, THIRAM, 4765, 6540, 8633
METHYL DODECYL BENZYL TRIMETHYL AMMONIUM CHLORIDE, 7162, 7862, 7864
2,2-METHYLENEBIS (3,4,6-TRICHLOROPHENOL), 7874
METHYLMERCURIC DICYANIAMIDE, 35, 5029, 5030, 6067
METHYLMERCURY DICYANDIAMIDE, PENTACHLORONITROBENZENE, 6082
METHYLMERCURY HYDROXIDE, 5329
METHYLMERCURY NITRILE, 7472
MONOETHANOL AMMONIUM-2-MERCAPTOBENZOTHIAZOLE, 9258
NABAM, 1133, 1493, 1941.65, 2089-90, 2547, 3557, 5205, 5639, 6181, 7473, 8689
PENTACHLORONITROBENZENE, 10, 10.50, 2932-3, 4726-7, 5307-8, 6518, 8053.40, 8053.60, 8053.70, 8053.80, 8313.75, 8485
PENTACHLOROPHENOL, 7849
PHENOL, 1834
PHENYLAMINO CADMIUM DILACTATE, 7000
PHENYLAMINO CADMIUM DILACTATE, PHENYL MERCURY FORMAMIDE, 6995
PHENYLMERCURIC ACETATE, 59, 61, 833, 1655-6, 1864, 2100.50, 2249, 3224, 3273, 3275-6, 3489, 4500-1, 4743-6, 4756, 5593.35, 5635, 5892, 6733, 6993.50, 6999, 7164.20, 7164.30, 7513-5, 8444, 8954-6, 9280, 9412
PHENYLMERCURIC BORATE, 6732, 8957
PHENYLMERCURIC CHLORIDE, 9413
PHENYL MERCURIC DIMETHYLDITHIOCARBAMATE, 6603
PHENYLMERCURIC HYDROXIDE, 9414
PHENYLMERCURY MONOETHANOL AMMONIUM ACETATE, 6996.50, 7001
PHENYLMERCURIC MONOETHANOL AMMONIUM LACTATE, 2549, 6998
PHENYLMERCURIC OLEATE, 60, 5593.40, 8958
PHENYLMERCURIC TRIETHANOLAMMONIUM LACTATE, 2250, 2550, 5045, 5436, 5532, 5649, 6996
PHENYLPHENOL, 2136, 7312
PINE OIL, SOAP, 3413, 7866
POLYBROMONATED SALICYLANILIDE, 8473
POLYCHLORINATED BENZENE, 7850
POTASSIUM PERMANGANATE, 6156
PYRIDYLMERCURIC ACETATE, 4547, 6604, 7084, 7645
QUATERNARY COMPOUND, UNSPECIFIED, 5593.45, 5593.50, 7163, 7377
8-QUINOLINOL, 5, 3249
SODIUM DIMETHYLDITHIOCARBAMATE, 2086, 7820
SODIUM DIMETHYLDITHIOCARBAMATE, SODIUM 2-MERCAPTO-BENZOTHIAZOLE, 2176, 9250
SODIUM 2-MERCAPTO-BENZOTHIAZOLE, 5593.30
SODIUM-N-METHYLDITHIOCARBAMATE, 8102
SODIUM PENTACHLOROPHENATE, 2149
SODIUM-o-PHENYLPHENATE, 2146
SODIUM TETRACHLOROPHENATE, 2147, 2148
TETRACHLOROPHENOL, 3270, 2140-1
THIOBIS DICHLOROPHENOL, 9252-4
THIRAM, 11, 12, 13, 1206, 1309, 1534, 1865, 2100.60, 3835, 4153.65, 4764, 5069.30, 6537, 6538, 6541-3, 7392-3, 7397, 7477, 7882, 8488, 8639-41, 8643, 8669.50, 8671
TRIALKYLTIN COMPOUND, 70.50
2,4,6-TRICHLOROPHENOL, 2137-8
ZINC 5-CHLORO-2-MERCAPTOBENZOTHIAZOLE, 9249
ZINC 2-MERCAPTOBENZOTHIAZOLE, ZIRAM, 9252-61
ZINEB, 13.20, 13.40, 50.50, 1202, 1212, 1313, 1343, 1359, 1548, 1941.99, 2056, 2058, 2094-5, 2949, 3068, 3930, 3958, 4153.91, 4194.50, 4648, 5663, 5962, 6179-80, 6311, 6555-6, 7481, 8104, 8255.75, 8710
ZIRAM, 13.60, 13.80, 1312, 2565, 4049, 5550, 5664, 5963, 6557-9, 7398, 7482, 9280.30, 9480.50, 9482

FUNGICIDE-INSECTICIDE COMBINATIONS

DUSTS

ALDRIN, CAPTAN, CHLORDANE, DDT, LINDANE, PENTACHLORONITROBENZENE, 5058
ALDRIN, CHEMAPION, DDT, SULPHUR, 1080.06
ALDRIN, DDT, SULPHUR, 2717, 2755, 7255, 8260-1
BENTONITE SULFUR, DDT, LEAD ARSENATE, 5499

BENTONITE SULFUR, FERBAM, 5500
BENTONITE SULFUR, FERBAM, PARATHION, SULFUR, 5527
BENTONITE SULFUR, OIL, PARATHION, 5505
BENTONITE SULFUR, ROTENOIDS, ROTENONE, SULFUR, 5501
BENTONITE SULFUR, SULFUR, 2523, 5502
BENTONITE SULFUR, SULFUR, ZIRAM, 5551
BHC, DDT, SULFUR, 1246, 1725, 1755, 2725-6, 2753-4, 3086, 6002, 6658, 6960, 6962, 7951
BHC, COPPER, SULFUR, 4089
BHC, SULFUR, 4090, 4290.50, 4290.75, 4943
BHC, (GAMMA), 1,1 BIS (CHLOROPHENYL) 2,2,2-TRICHLOROETHANOL, DDT, DINITRO, ZINEB, 969
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, CAPTAN, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, DDT, FERBAM, 8897
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, ZINEB, 2252
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, SULFUR, ZINEB, 2159-60
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, GLYODIN, PIPERONYL BUTOXIDE, PYRETHRINS, 7423
BHC (GAMMA) CADMIUM CARBONATE, CAPTAN, 5822
BHC (GAMMA), CAPTAN, 5974
BHC (GAMMA), CAPTAN, METHOXYCHLOR, ZIRAM, 655
BHC (GAMMA), CARBARYL SULFUR, TETRADIFON, 1193
BHC (GAMMA), CHLORDANE, DDT, SULFUR, ZINEB, 3951
BHC (GAMMA), CHLOROPHENYL CHLOROBENZENE SULFONATE, DDT, FERBAM, 8900
BHC (GAMMA), COPPER, 4499.50
BHC (GAMMA), DDT, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, ZINEB, 6279
BHC (GAMMA), DDT, FOLPET, SULFUR, 5897
BHC (GAMMA), DDT, FOLPET, SULFUR, ZINEB, 9132
BHC (GAMMA), DDT, MALATHION, SULFUR, ZINEB, 9066
BHC (GAMMA), DDT, SULFUR, 1692, 4290, 4699, 4701, 5106, 5108, 5474, 5694, 6430, 6432, 6434, 6439, 7251, 7620, 8271-2
BHC (GAMMA), 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, KELTHANE, 1-NAPHTHYL-α-METHYLCARBAMATE, ZINEB, 6073
BHC (GAMMA), HEXACHLOROPHENE, MERCAPTOBENZOTHIAZOLE, OIL, PROPYLENE, GLYCOL, 2157
BHC (GAMMA), MANEB, 8701
BHC (GAMMA), METHOXYCHLOR, SULFUR, 7022
BHC (GAMMA), SULFUR, 4025, 4153.06, 4153.07, 5008, 5697, 7018
BHC (GAMMA), SULFUR, ZINEB, 4153.52, 4153.89
BHC (GAMMA), ZINEB, 2807-8, 4153.87-88, 5388, 5848, 6685
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, 2-4-DINITRO 6-(2-OCTYL) PHENYL CROTONATE, LINDANE, ZINEB, 678, 8758
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, FERBAM, LINDANE, SULFUR, 4432
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, SULFUR, 998
CALCIUM ARSENATE, COPPER, 1535, 2508, 2603, 2691, 5483, 7625, 8871
CALCIUM ARSENATE, NICOTINE, SULFUR, 5498
CALCIUM ARSENATE, SULFUR, 5118
CAPTAN, CARBARYL, 7967
CAPTAN, CARBARYL, DDT, MALATHION, SULFUR, 635
CAPTAN, CARBARYL, 4,4'-DICHLORO-*alpha*-TRICHLOROBENZHYDROL, 6071
CAPTAN, CARBOPHENOTHION, 6017, 7967.70
CAPTAN, DDT, 2517, 3803, 4094, 5964
CAPTAN, DDT, DIELDRIN, SULFUR, 5914
CAPTAN, DDT, DINITRO CAPRYL PHENYL CROTONATE, MALATHION, 2551
CAPTAN, DDT, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, MALATHION, 43, 2322, 8139
CAPTAN, DDT, MALATHION, 587
CAPTAN, DDT, MALATHION, SULFUR, 3544, 3550
CAPTAN, DDT, PARATHION, 5966
CAPTAN, O,O-DIMETHYL S-4-OXO-1,2,3-BENZOTRIAZIN-3(4H) yl-METHYL PHOSPHORODITHIOATE, 3804
CAPTAN, LINDANE, METHOXYCHLOR, SULFUR, 5233
CAPTAN, MALATHION, 658, 8693

958870240

CAPTAN, MALATHION, METHOXYCHLOR, 2232, 2537, 3756, 5806, 8690
CAPTAN, MALATHION, METHOXYCHLOR, SULFUR, 348-9, 3534, 4420
CAPTAN, METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, 570
CAPTAN, METHOXYCHLOR, PYRETHRINS, ROTENOIDS, ROTENONE, 4134
CAPTAN, METHOXYCHLOR, ROTENOIDS, ROTENONE, 5935
CAPTAN, METHOXYCHLOR, ROTENOIDS, ROTENONE, SULFUR, 9065
CAPTAN, NALED, 5967
CAPTAN, PARATHION, 2481, 3823.25, 4153.18
CAPTAN, PENTACHLORONITROBENZENE, 4321
CAPTAN, SULFUR, 5982
CARBARYL, CHLORANIL, 7932
CARBARYL, COPPER, 5448, 6703, 8315.50
CARBARYL, COPPER, METHYL NAPHTHALENES, ROTENONE, ROTENOIDS, 639.50
CARBARYL, COPPER, NAPHTYL-N-METHYLCARBAMATE, METHYL NAPHTHALENES, ROTENOIDS, ROTENONE, 642.50
CARBARYL, COPPER, SULFUR, 3144, 6704
CARBARYL, ROTENONE, SULFUR, 235
CARBARYL SULFUR, 1066-7, 2894, 2897, 2899, 3143, 4314.50, 5447, 5911-12, 6798-9, 7033, 7613, 8202
CARBARYL SULFUR, ZINEB, 47
CARBARYL, ZINEB, 811, 1725, 1736, 2900, 7636, 9081
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, SULFUR, 5888
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, ZINEB, 4153.50, 5889
CARBOPHENOTHION, 5954
CARBOPHENOTHION, SULFUR, 2938, 4153.81, 4313.75, 8306.40, 8306.60, 8306.80
CHLORANIL, DDT, 2904, 4153.58, 4153.59
CHLORANIL, DI-PHENTANE, MALATHION, 3070
CHLORDANE, COPPER, 4095
CHLORDANE, SULFUR, 7539
CHROMIUM-COPPER-ZINC COMPLEX, DDT, 2504
CHROMIUM-COPPER-ZINC COMPLEX, ENDOSULFAN, 4921
CHROMIUM-COPPER-ZINC COMPLEX, ENDRIN, 4867
CHROMIUM-COPPER-ZINC COMPLEX, PARATHION, 2513
CHROMIUM-COPPER-ZINC COMPLEX, PIPERONYL BUTOXIDE, PYRETHRINS, 3286
CHROMIUM-COPPER-ZINC COMPLEX, PIPERONYL BUTOXIDE, PYRETHRINS, SULFUR, 1956, 8781
COPPER ARSENATE, 6300
COPPER (CUPROUS) OXIDE, ROTENOIDS, ROTENONE, 134
COPPER OXYCHLORIDE, DDT, 815
COPPER OXYCHLORIDE, SULFATE, DDT, 5484-5
COPPER OXYCHLORIDE SULFATE, PARATHION, 5486
COPPER OXYCHLORIDE SULFATE, ROTENOIDS, ROTENONE, 5487
COPPER 8-QUINOLINOLATE, DDT, DRIED BLOOD, NAPHTHALENE, TRICHLOROETHANE, 5579
COPPER SULFATE, BASIC, DDT, 178, 1507, 2602, 2632, 4417, 6656, 6663
COPPER SULFATE, BASIC, DDT, SULFUR, 6655
COPPER SULFATE, BASIC, PIPERONYL CYCLONENE, PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, 6797
COPPER SULFATE, BASIC, ROTENOIDS, ROTENONE, 2600, 6817
COPPER SULFATE, BASIC, SULFUR 6958
COPPER SULFATE, BASIC, TDE, 2693, 8146
COPPER (UNSPECIFIED), CRYOLITE, 4153.76, 4231.40
COPPER (UNSPECIFIED), DDT, 517, 944, 1200, 1890.20, 1900, 1915-6, 2505, 2512, 2745, 2748, 3473-5, 3744-5, 3823.50, 4195, 5729, 6132, 8315, 9003
COPPER (UNSPECIFIED), DDT, LINDANE, 4289
COPPER (UNSPECIFIED), DDT, LINDANE, SULFUR, 7606
COPPER (UNSPECIFIED), DDT, MANGANESE, SULPHUR, ZINC, 1890.80
COPPER (UNSPECIFIED), DDT, METHOXYCHLOR, 6155
COPPER (UNSPECIFIED), DDT, ROTENONE, SULFUR, 6346
COPPER (UNSPECIFIED), DDT, SULFUR, 1761-2, 1890.40, 1890.60, 1901, 2500, 2503, 2749, 2883-4, 3145, 4268, 4623, 5730, 5881, 6425, 8265.50
COPPER (UNSPECIFIED), DIELDRIN, 5249, 6665
COPPER (UNSPECIFIED), ENDOSULFAN, 2506
COPPER (UNSPECIFIED), MALATHION, METHOXYCHLOR, 8154
COPPER (UNSPECIFIED), MANGANESE, SULFUR, TOXAPHENE, ZINC, 8782.50
COPPER (UNSPECIFIED), METHOXYCHLOR, 2510, 8404
COPPER (UNSPECIFIED), METHOXYCHLOR, SULFUR, 1080.38
COPPER (UNSPECIFIED), ORGANIC THIOCYANATES, ROTENOIDS, ROTENONE, 940

COPPER (UNSPECIFIED), PARATHION, 2514, 2836
COPPER (UNSPECIFIED), PARATHION, SULFUR, 2499
COPPER (UNSPECIFIED), PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 589
COPPER (UNSPECIFIED), ROTENONE, 3748, 3810, 9008-9
COPPER (UNSPECIFIED), ROTENOIDS, ROTENONE, 1201, 2224
COPPER (UNSPECIFIED), SODIUM FLUOALUMINATE, 1744
COPPER (UNSPECIFIED), SULFUR, 1080.44-46, 1746, 1763, 2498, 2750, 2882, 3100, 3145.50, 4078, 4262, 4619, 6427, 7619, 7648, 8277.30
COPPER, (UNSPECIFIED), SULFUR, TOXAPHENE, 2923, 8782.75
COPPER (UNSPECIFIED), SULFUR, ZINC, 5960
COPPER (UNSPECIFIED), TDE, 2511, 3158, 5934, 8981
COPPER (UNSPECIFIED), TOXAPHENE, 2521
CRESYLIC ACID, MALATHION, METHYL DODECYL BENZYL TRIMETHYL AMMONIUM CHLORIDE, METHYL DODECYL XYLYLENE BIS, 840
CRYOLITE, MALATHION, SULFUR, 4291
CRYOLITE, SULFUR, 4231.60, 4267
CRYOLITE, ZINEB, 4153.86
DDT, COPPER, 1080.56
DDT, COPPER, SULFUR, 1080.40
DDT, DICHLONE, SULFUR, 8367
DDT, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, FOLPET, 2588
DDT, DIELDRIN, SULFUR, 5143-4, 6464
DDT, FERBAM, 6673, 1082.70, 8283.20
DDT, FERBAM, ROTENONE, SULFUR, 2527, 8670
DDT, FERBAM, MICRONIZED SULFUR, PYRETHRINS, 3631
DDT, HEPTACHLOR, SULFUR, 4712, 5164, 8286, 8288
DDT, HEXACHLOROPHENE, ROTENOIDS, ROTENONE, 3650
DDT, LEAD ARSENATE, SULFUR, 5521
DDT, MALATHION, SULFUR, 4293
DDT, MALATHION, ZINEB, 8678.56
DDT, MANEB, 3691, 6737.50, 7581
DDT, MANEB, TOXAPHENE, 3746
DDT, MANGANESE, SULFUR, 4118-9
DDT, OIL, SULFUR, 6027
DDT, PARATHION, 2491
DDT, PARATHION, SULFUR, 1057, 2448, 2842, 4306-8, 5031, 5740, 6690
DDT, PARATHION, SULFUR, ZINC, 4309-10
DDT, PARATHION, SULFUR, ZINEB, 5743
DDT, PARATHION, ZINEB, 2861, 2868-9, 4153.26, 4153.28, 5743.50, 8678.66, 8678.70, 8678.72, 8678.74
DDT, PENTACHLORONITROBENZENE, 1726
DDT, ROTENONE, SULFUR, 4841, 5538, 8762
DDT, SULFUR, 520, 1025-9, 1358.46, 1358.48, 1358.50, 1358.52, 1766-8, 2524, 2772, 2912-6, 3006, 4120-2, 4272-4, 4628, 4968, 5537, 5745, 6028, 6453-5, 6661, 6942, 6959, 7990, 8248, 8279.50
DDT, SULFUR, TOXAPHENE, 1031, 3160.30, 4326, 5942
DDT, SULFUR, TOXAPHENE, ZINC, 4327
DDT, SULFUR, ZINEB, 2945
DDT, TOXAPHENE, ZINC SULFATE, 181
DDT, TOXAPHENE, ZINEB, 177
DDT, ZINC SULFATE, 184
DDT, ZINEB, 175-6, 183, 1450, 1080.76, 1450, 1941.75, 2507, 2700, 2860, 2943-3, 3008, 3479, 3694, 3769, 3838, 4123-5, 4196, 5216, 5743.75, 6316-7, 6726, 8674.34, 8674.36
DDT, ZIRAM, 2489-90
DIAZINON, SULFUR, 4279
DICHLONE, SULFUR, 1676, 2444, 2459-61, 2474-5, 4212
DICHLONE, FERBAM, SULFUR, 1679
DICHLOROBENZENE, FORMALDEHYDE, 2055
2,4-DICHLORO-6-(*o*-CHLORANILINO)-*s*-TRIAZINE, MALATHION, 2529
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, DINITRO (1-METHYL-HEPTYL) PHENYL CROTONATE, 5815
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, NALED, SULFUR, 5760
DIELDRIN, PENTACHLORONITROBENZENE, 5879
DIELDRIN, SULPHUR, 7555, 8000
DIELDRIN, ZINEB, 2637, 3839, 6667
O,O-DIETHYL O-(2,4-DICHLOROPHENYL) PHOSPHOROTHIOATE, 6553
O,O-DIETHYL S-(2-ETHYL-N,N-DIETHYLAMINO) PHOSPHOROTHIOATE HYDROGEN OXALATE, 7314.50

958870241

2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, 2652, 2667, 4139, 4286, 4295, 4311, 5758, 5812, 5841, 9074
ENDOSULFAN, ZINEB, 179, 2261, 4923
ENDRIN, SULFUR, 1043
ENDRIN, ZINEB, 2862, 8678.50, 8678.52
ETHION, SULFUR, 3019
ETHION, THIRAM, 2532-4
3-ETHOXYPROPYL MERCURIC BROMIDE, LEAD ARSENATE, 5504
FERBAM, MALATHION, METHOXYCHLOR, 6159
FERBAM, MALATHION, ROTENOIDS, ROTENONE, SULFUR, 2336
FERBAM, MALATHION, SULFUR, 4294
FERBAM, PARATHION, 3115.50, 6674
FERBAM, SULFUR, 4285
FERBAM, TDE, 2509
HEPTACHLOR, ZINEB, 3462
LEAD ARSENATE, OIL, SULFUR, 5494
LEAD ARSENATE, SULFUR, 2522, 6046
LINDANE — see BHC (GAMMA)
MALATHION, METHOXYCHLOR, ZINEB, 1199
MALATHION, SULFUR, 1053-4, 4296-8, 5843, 7028
MALATHION, ZINEB, 2564
MANEB, MALATHION, 2519, 2663, 3823
MANEB, PARATHION, SULFUR, 4153.29
MANEB, PARATHION, SULFUR, TOXAPHENE, 4153.30
MANEB, TDE, 2518, 2687, 4681, 5189, 8982
MANGANESE, SULFUR, TOXAPHENE, 4153.68-9
METHOXYCHLOR, NICOTINE, ROTENONE, ZINEB, 3956
METHOXYCHLOR, ROTENOIDS, ROTEONE, ZINEB, 14
METHOXYCHLOR, ROTENOIDS, SULFUR, ZINEB, 2163
METHOXYCHLOR, ROTENOIDS, ZINEB, 6228
METHOXYCHLOR, SULFUR, 4301-2, 5023
METHOXYCHLOR, ZINEB, 1175, 1419, 2470, 2701
METHOXYCHLOR, ZIRAM, 2262, 9002
METHYL PARATHION, TDE, ZINEB, 5854
NALED, SULFUR, 5763
NAPHTHALENE, SULFUR, 8358
OIL (PETROLEUM UNSPECIFIED), SULFUR, 5493
ORGANIC THIOCYANATES (UNSPECIFIED), ROTENOIDS, ROTENONE, SULFUR, 6171
PARATHION, DDT, ZINEB, 8678.68
PARATHION, MANGANESE, SULFUR, 4153.31, 4153.32
PARATHION, SULFUR, 1060, 2833, 2852-3, 3046, 4153.33, 4153.34, 4153.35, 4153.36, 4153.37, 4312, 5863, 8296, 8299.75
PARATHION, SULFUR, TOXAPHENE, 2854, 4153.40, 4153.41, 4153.42, 4153.43
PARATHION, SULFUR, ZINEB, 2515, 4153.48
PARATHION, TDE, ZINEB, 2876, 8678.84
PARATHION, ZINEB, 1080.78, 1786, 2828-32, 3048-9, 3734-5, 3840, 4153.44, 4153.45, 4153.46, 4153.47, 5220-1, 5878, 6693, 8678.78, 8678.80
PARATHION, ZIRAM, 5548
PIPERONYL, CYCLONENE, PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, 6694
PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, ZINEB, 2321
ROTENOIDS, ROTENONE, SULFUR, 4153.55, 4435, 6688, 8207
ROTENOIDS, ROTENONE, ZINEB, 5080
ROTENOIDS, ROTENOE, ZIRAM, 5549
ROTENONE, SULFUR, 231.50, 1742, 2526, 2892, 6955-6, 7024, 8302, 8678.86
ROTENONE, ZINEB, 4198, 6350, 8901
SULFUR, 50, 519, 1039-40, 1176, 1305-7, 1675, 2908, 2911, 2918, 3012, 3053, 3180, 3939, 4153.84, 4680, 4819, 5354, 5488, 5539, 5777, 7616, 8068-70, 8121, 8181, 8250, 8307-10, 8308.50, 9067
SULFUR, CHLORINATED TERPENE, 5242.80
SULFUR, TDE, 1016-20, 1358.30, 1358.32, 4318, 5071, 5925, 9173-4
SULFUR, TEPP, 9270
SULFUR, TOXAPHENE, 862.50, 1075, 1544, 1730, 1760, 2756, 3165, 4153.73, 4153.74, 4153.75, 4328, 4686, 5075, 5247, 5947, 6438, 6716, 7304, 8096, 8317
SULFUR, ZINC, 9487
SULFUR, ZINEB, 2478, 2483, 4153.90
TDE, ZINEB, 1785, 1941.91, 2702, 2864, 2942, 5214, 6349, 6554, 6969, 7639, 8678.90, 8773, 9013
TDE, ZIRAM, 2562, 8983
TOXAPHENE, ZINC, 186
TOXAPHENE, ZINEB, 5949

SPRAYS

ALDRIN, ETHYL MERCURY CHLORIDE, PHENYL MERCURY ACETATE, 834
ALDRIN, PHENYL AMINO CADMIUM DILACTATE, PHENYL MERCURY FORMAMIDE, 6993
ALDRIN, PHENYL MERCURY ACETATE, 3273.50
BENTONITE SULFUR, 5503
BENTONITE SULFUR, ZINC SULFATE, 5506
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, CAPTAN, DDT, 2-4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, FERBAM, MANEB, 8898
BHC (GAMMA), 2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, DDT, 2-4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, ZINEB, 2254
BHC (GAMMA), CAPTAN, 5906
BHC (GAMMA), CAPTAN, CHLORDANE, DDT, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, MALATHION SULFUR, 5059
BHC (GAMMA), CAPTAN, DDT, SULFUR, 945
BHC (GAMMA), CAPTAN, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 578
BHC (GAMMA), CAPTAN, DDT, ROTENOIDS, ROTENONE, SULFUR, 952
BHC (GAMMA), CHLORONAPHTHALENES, HYDROXYQUINOLINE SULFATE, 3254
BHC (GAMMA), DDT, DINITRO, MALATHION, 5234
BHC (GAMMA), DDT, FERBAM, OVEX, 632
BHC (GAMMA), DDT, FERBAM, ROTENOIDS, ROTENONE, SULFUR, 745
BHC (GAMMA), 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, DIELDRIN, GLYODIN, 6780
BHC (GAMMA), 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, DINITRO OCTYL PHENYL, CROTONATE, GLYODIN, MALATHION, 4433
BHC (GAMMA), FOLPET, OVEX, n-PROPYL ISOME, PYRETHRINS, 751
BROMO SALICYLANILIDES, 5794.50
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, CAPTAN, PYRETHRINS, 8899
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, COPPER COMPLEX, FERBAM, LEAD ARSENATE, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 8902
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, COPPER OLEATE, LINDANE, METHOXYCHLOR, 6273
2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, FERBAM, METHOXYCHLOR, TDE, 6236
CALCIUM ARSENATE, COPPER SULFATE, 2676
CALCIUM POLYSULFIDES, 33, 716, 814, 1186, 2578, 2654, 3026, 3943, 4337, 4883, 5044, 5628, 5827, 5997-8, 6247, 7574, 8153, 8290, 8658.50, 9430
CALCIUM POLYSULFIDES, OIL, 828, 5775
CAPTAN, DDT, 7960
CAPTAN, DDT, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, MALATHION, 9435
CAPTAN, DDT, FERBAM, MALATHION, SULFUR, 1182
CAPTAN, DDT, LEAD ARSENATE, 9080
CAPTAN, DDT, MALATHION, 3493
CAPTAN, DDT, MBALATHION, SULFUR, 642, 738
CAPTAN, DIAZINON, METHOXYCHLOR, ZINEB, 2381
CAPTAN, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYL BENZHYDROL, 6775
CAPTAN, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, METHOXYCHLOR, 2233
CAPTAN, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, 5975
CAPTAN, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 6281, 6798, 7424
CAPTAN, MALATHION, METHOXYCHLOR, 29, 382.50, 499, 630, 668, 743, 1941.41, 2584, 4419, 8742, 8779
CAPTAN, MALATHION, METHOXYCHLOR, ZINEB, 9425
CAPTAN, METHOXYCHLOR, 7965
CAPTAN, PARATHION, 2879, 5978, 7598
CARBARYL, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MANEB, SULFUR, 6771
CARBARYL, FOLPET, 536, 2187
CARBARYL, FOLPET, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 2253
CARBARYL, FOLPET, PIPERONYL BUTOXIDE, ROTENONE, 3543
CHLOROBENZILATE, COPPER, 3929
COAL TAR OILS, CRESYLIC ACIDS, SOAP, 867
COPPER ARSENATE (BASIC), 7689

958870242

COPPER ARSENATE (BASIC), DDT, 41
COPPER OLEATE, ETHYLENE DICHLORIDE, 4214
DDT, 2,6-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, DODINE, PHOSPHAMIDON, 8647
COPPER OLEATE, PYRETHRINS, ROTENONE, 5857
COPPER RESINATE, *beta*-NAPHTHOL, PINE TAR OIL, 52
COPPER SULFATE (BASIC), 8869
COPPER SULFATE (BASIC), DDT, 1682, 2223, 3472, 4418, 5622
COPPER (UNSPECIFIED), DDT, 951, 1917, 2556
COPPER (UNSPECIFIED), DDT, METHYL NAPHTHALENES, ROTENOIDS, ROTENONE, 747
COPPER (UNSPECIFIED), DDT, ZINC SULFATE, 6169
COPPER (UNSPECIFIED), DICHLOROETHYL ETHER, 4403
COPPER (UNSPECIFIED), ETHYLENE DICHLORIDE, NICOTINE, 1957
COPPER (UNSPECIFIED), LEAD ARSENATE, SULFUR, ZINC, 6070
COPPER (UNSPECIFIED), ZINC, 4367
DDT, DICHLONE, METHOXYCHLOR, MGK 264, PYRETHRINS, ROTENOIDS, ROTENONE, 2323
DDT, 2,6-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, DODINE, PHOSPHAMIDON, 3493.50
DDT, DINITRO OCTYL PHENYL CROTONATE, MALATHION, MANEB, TETRADIDON, 4434
DDT, FERBAM, 1183
DDT, FERBAM, LEAD ARSENATE, 8725
DDT, MANEB, PARATHION, 8375
DDT, ROTENONE, SULFUR, ZIRAM, 15
DDT, ZINEB, 8750
DECACHLOROOCTAHYDRO-1,3,4-METHANO-2H-CYCLOBUTA (CD) PENTALEN-2-ONE, 6872
DIAZINON, FOLPET, 2382
DICHLONE, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, METHOXYCHLOR, PYRETHRIN, ROTENONE, 1950
DICHLONE, DINITRO, METHOXYCHLOR, PHENYL CROTONATE, PYRETHRINS, ROTENONE, 43.50
DICHLONE, OIL, PIPERONYL CYCLONENE, PYRETHRINS, ROTENOIDS, ROTENONE, 744
DICHLONE, PIPEROYL CYCLONENE, PYRETHRINS, ROTENOIDS, ROTENONE, 729
DICHLONE, SULFUR, 528, 2557
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, DIELDRIN, GLYODIN, LINDANE, 2588.50
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, METHOXYCHLOR, TRIBUTYLTIN, 6280
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, METHOXYCHLOR, TRIBUTYLTIN, 6234
DIELDRIN, SULFUR, 8231.30
DINITROCRESOL, 1666, 2282, 4898, 5491
2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, 4046-7, 4140, 4830, 5004, 8022
FERBAM, MALATHION, METHOXYCHLOR, PHENOTHIOAZINE, SULFUR, 6122
FERBAM, METHOXYCHLOR, SULFUR, 2193, 8368
FORMALDEHYDE, 3408
HEPTACHLOR, PENTACHLORONITROBENZENE, 3512.20
HEPTACHLOR, PHENYL MERCURY ACETATE, 835
LEAD ARSENATE, SULFUR, 8299
LEAD ARSENATE, SULFUR, 6072
LINDANE — see BHC (GAMMA)
MALATHION, METHOXYCHLOR, SULFUR, 1153
METHOXYCHLOR, ROTENOIDS, ROTENONE, ZINEB, 1941.44, 9083
2,2'-METHYLENEBIS (3,4,6-TRICHLOROPHENOL), 4741.50
METHYLMERCURY QUINOLINOLATE, 5829
OIL, ZINEB, 2950
PARATHION, SULFUR, 2881, 3142, 5871, 6090, 7600, 8297-8
PARATHION, SULFUR, ZINC, 2880, 6084, 7602
SULFUR, TOXAPHENE, 6966
SULFUR, ZINC, 4239, 4368, 8299.50
TDE, ZINEB, 2784
THIRAM, 2203.50

HERBICIDES

ACROLEIN, 360
ALLYL ALCOHOL, 277, 8780, 9417
AMIBEN, 286
AMITROLE, 282, 287-90, 1859, 9334, 9356, 9452
AMMONIUM SULFAMATE, 291, 293, 293.50, 3448.50, 4405
ARSENIC ACID, 1406, 3222, 9486
ARSENIC TRIOXIDE, 49, 55, 6015, 6524-5
ARSENIC TRIOXIDE, LEAD ARSENATE, 2065, 4012, 6311.50
ARSENIC (UNSPECIFIED), 3323
ATRAZINE, 646, 3292-5, 6829
BARBAN, 844
BIS ETHYL-XANTHOGEN, 3640
2,4-BIS (3-METHOXYPROPYLAMINO)-6-METHYLTHIO-*s*-TRIAZINE, 5301
BIS (PENTACHLORO-2,4-CYCLOPENTADIEN-1YL, 6570
BORAX, 648, 2730, 5454, 8487, 8949
BROMACIL, 3923
BROMICIL, SODIUM CHLORATE, SODIUM METABORATE, 1560.50
BROMACIL, SODIUM METABORATE, 1366.50
BROMACIL, SODIUM TETRABORATE, 5426
5-BROMO-3-ISOPROPYL-6-METHYL URACIL, 274.65
5-BROMO-5-ISOPROPYL-6-METHYL URACIL, SODIUM METABORATE, 649
1,4-BUTYNEDIOL, 802.50
CACODYLIC ACID, 320, 321.50
CALCIUM ARSENATE, 5562
CALCIUM CYANAMIDE, 62
CDAA, 5297.50, 5311, 5313
CDAA, TCBC, 5310, 5312
CDEC, 5323-4
CHLORDANE, 1607.50, 3607
2-(4-CHLORO-2-METHYLPHENOXY) PROPIONIC ACID, 3464, 7468
CIPC, 1135, 1258, 4036, 4849, 5715, 6742.20, 6742.40, 6742.60, 8265
CIPC, N-1-NAPHTHYL PHTHALAMIC ACID, 3434
COPPER COMPOUND, UNSPECIFIED, 2587
COUMACHLOR, 195.50, 195.60
2,4-D ACID, 617, 2009, 3566.60, 7370
2,4-D ACID, MONURON, 2,4,5-T ACID, 3559
2,4-D ACID, PHENYL MERCURIC ACETATE, 6731
2,4-D ACID, 2,3,6-TRICHLOROBENZYLOXYPROPANOL, 8908
2,4-D, AMINE SALTS, 165, 764, 772, 1178, 1263-4, 1357, 1402-3, 1895-05, 1991-2, 2005.15, 2005.30, 2196-7, 3167, 3223.50, 3226, 4407, 4498, 4690, 4850, 4940, 4960, 4998, 5290, 5719, 6014, 6111, 6113, 6187, 7211, 7399, 7741, 7774, 7780, 7974.50, 7979, 8346, 8427, 9329, 9336, 9341, 9353, 9358.25, 9358.30
2,4-D AMINE SALTS, MCP, 2,4,5-T, 9337
2,4-D, 2,4,5-T AMINE SALTS, 351, 422, 2005.45, 2005.60, 2304, 4851, 9280.50, 9330, 9358.20
2,4-D, ESTERS, 166, 172-4, 1265-8, 1356, 1423-9, 1431-2, 1461, 1463, 1895.75-1895.90, 1987, 1989, 1995, 2004, 2030, 2062, 2115-6, 2358, 2363, 3327-31, 3461, 3490, 3563-4, 4695, 4961-3, 4997, 5289, 5291-3, 5296-7, 5299, 5720-3, 6022, 6036.50, 6110, 6114, 6194, 6195, 7975-8, 7981, 8335-9, 8411, 8428, 8538-9, 8544-7, 9075, 9315, 9338-40, 9342-4, 9351, 9358.35, 9358.40, 9358.45, 9358.50
2,4-D, 2,4,5-T, ESTERS, 623, 693, 695, 760, 774.30, 2018, 2033, 2035.20, 2035.40, 3460, 6240, 8713, 7982, 9405-7
2,4-D, INORGANIC SALTS, 2003, 2118, 5566
2,4-D, LOW VOLATILE ESTERS, 167, 359, 1269, 1430, 1433-4, 1462, 1885, 1895.35-1895.60, 1990, 1994, 1999, 2000, 2005, 2016, 2041-2, 2359, 2367, 3169, 3355, 3521-2, 3542, 4620, 5012-3, 5293.60, 5294-5, 5298, 5724, 6023, 6047, 6112, 6115, 6579, 7980, 8381, 8420-1, 8677.50, 8714, 8716, 9076, 9355, 9358.55, 9358.60, 9358.65, 9429, 9434, 9317
2,4-D, 2,4,5-T, LOW VOLATILE ESTERS, 164, 741, 773, 774.50, 774.70, 1156, 1252, 1408, 1895.30, 1895.55, 2019, 2023-4, 2032, 2040, 2082, 2317, 2324, 2332, 2360, 2361, 2364, 3225, 3354, 3356, 3520, 3987, 4916, 4999, 5011, 5288, 5300, 6036, 6061, 6154, 6292, 6776, 7776, 7983, 8377, 8426, 8429, 8435 8677, 8715, 9038, 9280.80, 9314, 9346-8, 9353, 9408
2,4-D, UNSPECIFIED, 48, 431, 584, 644, 1315, 2648, 4982, 4991, 5725, 5824, 7400, 8972, 9100, 9215-8
2,4-D, 2,4,5-T, UNSPECIFIED, 1354-5, 1386, 1895.15, 1895.20, 3566, 4424, 4983, 6193, 6295, 6803, 7168, 9037, 9316, 9318, 9285
DALAPON, 2151-2, 3286.50, 7215-7
4-(2,4-DB), 799, 801-2, 804, 1895.25, 7974.75
2,4-DICHLOROALLYL DIISOPROPYLTHIOCARBAMATE, 5286.30

958870243

2,4-DICHLOROPHENOXYETHYL BENZOATE, 4037
2-(2,4-DICHLOROPHENOXY) PROPIONIC ACID, 2-ETHYL HEXYL ESTER, 6926
N-(3,4-DICHLOROPHENYL) METHACRYLAMIDE, 7272
O-(2,4-DICHLOROPHENYL) O-METHYL ISOPROPYLPHOSPHOROAMIDOTHIOATE, 280, 746, 1941.21, 2117, 2117.50, 4957.50
3,4-DICHLOROPROPIONANILIDE, 5314, 7910
N,N-DIMETHYL-*alpha*-*alpha*-DIPHENYLACETAMIDE, 2329
DIMETHYL ESTER OF TETRACHLOROTEREPHTHALIC ACID, 1373, 2006-7
DINITROBUTYLPHENOL (DNBP), 1230, 2121, 2235, 7723-6
DINITROCRESOL, 7722
DISODIUM OCTOBORATE TETRAHYDRATE, SODIUM CHLORATE, 6739
DISODIUM TETRABORATE, DECAHYDRATE OR PENTAHYDRATE, MONURON, 2054
DISODIUM TETRABORATE, DECAHYDRATE OR PENTAHYDRATE, TRICHLOROBENZOIC ACID, 538
DIURON, 274.50, 274.55, 274.60, 4050-1
DIURON, SODIUM CHLORATE, SODIUM METABORATE TETRAHYDRATE, 5028.50, 1553.50
DIURON, SODIUM METABORATE, 650, 1366.50
DIURON, SODIUM TETRABORATE, 5425
ENDOTHALL, 3451, 3920-1, 6408-10, 6466, 6468-71, 6479-80
EPTC, 8006-7
FENURON, 2210
FENURON, TCA, 3378-9
HEXACHLOROACETONE, 274.30
HEXACHLOROCYCLOPENTADIENE, OIL, 5704
IMIDAZOLINE BENZYL CHLORIDE, 5271.50
IPC, 1358.68, 1471-3, 4014, 4033-5, 4038, 4990, 5002-3, 6043-4, 8206, 9352
LINURON, 4515
MAGNESIUM CHLORATE, 5086
MALEIC HYDRAZIDE, 253, 3362, 4816, 6689
MCP, 7, 187, 556-7, 2000.50, 2123, 3361, 3526-9, 4787-8, 4790-3, 5020, 5020.50, 5302, 7388, 7467, 8033-4, 8385, 8422, 9331-2
MCP, SODIUM CHLORATE, SODIUM METABORATE, 4789
MCP, 2,4,5-T, 3459
MEDIBEN, 3452.30
METHANEARSONIC ACID, 323.50, 2335
METHANEARSONIC ACID, AMMONIUM SALT, 22, 321
METHANEARSONIC ACID, SILVEX, 1801
METHANEARSONIC ACID, COPPER SALT, 323
METHANEARSONIC ACID, DODECYLAMMONIUM AND OCTYLAMMONIUM SALTS, 341, 344, 2184, 4496, 5828, 6751, 8201, 8210
METHANEARSONIC ACID, OCTYLAMMONIUM SALT, 8205
METHANEARSONIC ACID, SODIUM SALT, 207, 273.60, 321.75, 322, 626, 734-5, 1174, 1568, 1796-7, 1797.50, 1798.50, 1869, 2184.50, 4426, 4783-5, 4957, 5466, 5565, 5584, 6000, 6207, 7463, 8359
2-METHOXY-3,6-DICHLOROBENZOIC ACID, 492
MONURON, 6003, 8472.50, 8471, 8664
MONURON, SODIUM BORATES, SODIUM CHLORATE, 2410.70
MONURON, SODIUM CHLORATE, SODIUM METABORATE, 1411, 1550-3, 9097
MONURON, SODIUM METABORATE, 651, 1366.70
MONURON, SODIUM TETRABORATE, 524
MONURON, TCA, 3380, 3381, 274.75
MONURON TRICHLOROACETATE, SODIUM CHLORATE, 274.70
N-1-NAPHTHYLPHTHALAMIC ACID, 194, 196
NEBURON, 645, 4210
NOREA, 3639.50
OIL, PETROLEUM, 157, 1946, 2306, 2313-6, 2353-57, 5682, 5706, 7364-9, 7839, 8149, 8193
PENTACHLOROPHENOL, 4354, 6564
PHENYLMERCURIC ACETATE, 6734
POLYCHLOROBENZOIC ACID, 539, 7733, 9484
POLYCHLOROBICYCLO PENTADIENE ISOMERS, 1795.50
POTASSIUM CYANATE, 63, 624, 1800, 3465, 6314
POTASSIUM CYANATE, SODIUM ARSENITE, 1362, 1853
PROMETONE, 3310, 3512.70
PROPANEARSONIC ACID, CALCIUM SALT, 1798
PROPAZINE, 3310.50
PROPYL ETHYL-*n*-BUTYLTHIOCARBAMATE, 8090-1
SESONE, 281, 283

SILVEX, 18, 1347, 1510, 1895.95, 2002, 2048, 4233, 4233.50, 5052-3, 5709, 6198, 6752.50, 7714.50, 8648, 9349, 9354, 9358
SIMAZINE, 2234, 3312-15, 6914, 7156, 8454
SODIUM ARSENATE, 1511, 6750, 7702, 9359
SODIUM ARSENITE, 436-41, 443-4, 770, 808, 1067.50, 1344-6, 1366, 1600, 1867, 1941.83, 2100.80, 2592, 2598, 3365-6, 3755, 3977, 4357-8, 4408, 4876-7, 5028, 5535, 5912.50, 6229, 6289-90, 6749, 6822, 7414.75, 7614, 7703-5, 7772, 8860, 8903, 9335, 9436
SODIUM ARSENITE, SODIUM CRESYLATE, 843
SODIUM CHLORATE, 429-30, 1512, 1601, 3665, 5468, 5847, 7476, 8944
SODIUM CHLORATE, SODIUM METABORATE, 1412
SODIUM CHLORATE, SODIUM METABORATE, MONURON, 5714
SODIUM CHLORATE, SODIUM PENTABORATE, SODIUM TETRABORATE, 5708
SODIUM CHLORATE, TCA, 7378
SODIUM CHLORATE, METABORATE TETRAHYDRATE, 5285
SODIUM METHYL DITHIOCARBAMATE, 1352
SODIUM N-1-NAPHTHYLPHTHALAMATE, 195, 197, 7935
SODIUM PENTABORATE, 8918
SODIUM PENTACHLOROPHENATE, 3565, 5315, 9314.50
2,4-T ACID, 2053
2,4,5-T AMINE SALTS, 689, 1310, 1387.50, 1895.10, 1993, 2005.75, 2005.90, 2305, 5067, 7779, 9280.40, 9358.70
2,4,5-T, ESTERS, 690, 692, 1311, 1895.65, 1988, 2020-2, 2031, 2035.60, 2035.80, 2036, 5319-20, 6062.50, 6298, 8079, 8401
2,4,5-T, LOW VOLATILE ESTERS, 691, 694, 774, 774.60, 774.80, 1353, 1528-0, 1895.40, 1895.45, 2017, 2025-6, 2043-5, 2333, 2362, 2365, 2366, 3357, 4045, 5014, 5287, 5321-2, 5701, 5835, 5922, 6062.75, 6102, 6172, 6297, 6738, 7310.50, 7781, 8080, 8402, 8904, 9078, 9280.70, 9350, 9357
2,4,5-T, UNSPECIFIED, 6816, 7167, 9333
TCA, 51, 1513, 1531, 2124, 3367, 3369, 3555, 6158, 7390, 8106, 8464, 9144
TETRACHLOROTEREPHTHALIC ACID, 2197.50
THALLIUM SULFATE, 512
2,3,3-TRICHLOROALLYL DIISOPROPYLTHIOCARBAMATE, 5286.60, 5293.30
2,3,6-TRICHLOROBENZOIC ACID, 540, 8969
2,3,6-TRICHLOROBENZYLOXYPROPANOL, 8907
2-(2,4,5-TRICHLOROPHENOXY) ETHYL 2,2-DICHLOROPROPIONATE, 513, 2335.50, 5582
2,4,5-TRICHLOROPHENOXYPROPIONIC ACID and its SALTS & ESTERS, 8203
TRIS-(2,4-DICHLOROPHENOXY ETHYL) PHOSPHITE, 2599

HERBICIDES — DESSICANTS AND DEFOLIANTS

ARSENIC ACID, 1536, 6461
DIQUAT, 5774
DISODIUM 3,6-ENDOHEXAHYDROPHTHALATE, 6467
HEXACHLOROACETONE, 274.25
MAGNESIUM CHLORIDE, SODIUM CHLORATE, 6460, 6488
OIL, PETROLEUM, 3348, 3752
PENTACHLOROPHENOL, 1987.85, 1941.73, 2811, 3168
SODIUM ARSENITE, 56, 3539, 5893, 7410, 7914, 7917
SODIUM CHLORATE, 1941.34, 3342, 6528, 7683-5
SODIUM PENTACHLOROPHENATE, 1558
S,S,S-TRIBUTYL PHOSPHOROTRITHIOATE, 1920, 3211-2, 3227, 3341, 7568.50, 7994

INSECTICIDES

AEROSOLS

ALLETHRIN, DDT, ISOBORNYL THIOCYANOACETATE, METHOXYCHLOR, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, 3195
ALLETHRIN, DDT, ISOBORNYL THIOCYANOACETATE, METHOXYCHLOR, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, 7490
ALLETHRIN, DDT, ISOBORNYL THIOCYANOACETATE, METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, 5595
ALLETHRIN, DDT, METHOXYCHLOR, *n*-OCTYL BENZYLHEPTENE DICARBOXIMATE, OIL, ORGANIC THIOCYANATES, 3192
ALLETHRIN, DDT, METHOXYCHLOR, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, 7503.60
ALLETHRIN, DDT, METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, 572
ALLETHRIN, DDT, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, ORGANIC THIOCYANATES, 6093

958870244

ALLETHRIN, METHOXYCHLOR, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE ORGANIC THIOCYANATES, 749, 6182
ALLETHRIN, METHOXYCHLOR, PIPERONYL BUTOXIDE, 8659
ALLETHRIN, OCTYL SULFOXIDE OF ISOSAFROL, OIL, PYRETHRINS
ALLETHRIN, PIPERONYL BUTOXIDE, 28.50
ALLETHRIN, PYRETHRINS, 6825
BHC (GAMMA), 2711, 3251, 8655
BHC (GAMMA), 2-*p*-*tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, 6644
BHC (GAMMA), CAPTAN, 2,4-DINITRO-6-(2-OCTYL) PHENYL CROTONATE, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 350
BHC (GAMMA), *p*-CHLOROPHENYL *p*-CHLOROBENZENESULFONATE, FOLPET, *n*-PROPYL ISOME, ROTENONE, 5898
BHC (GAMMA), DDT, OILS, 5904
BHC (GAMMA), PINE OIL, 4560, 8668
BUTOXY POLYPROPYLENE GLYCOL, *n*-OCTYL SULFOXIDE OF ISOSAFROLE, OIL, PHENOXY ETHOXY ETHYLDIMETHYL BENZYL AMMONIUM CHLORIDE, PYRETHRINS, ROTENOIDS, ROTENONE, TRIETHYLENE GLYCOL, 3288
BUTOXY POLYPROPYLENE GLYCOL, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 510, 5261, 7925
2-(*p*-*tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, 3255, 4485-6, 6643
CAMPHOR OIL, PINE OIL, PINENE, ROTENONE, 8657
CARBARYL, DICHLOROPHENE, PIPERONYL BUTOXIDE, PYRETHRINS, 4064
2-CARBOMETHOXY 1-PROPENE-2YL-DIMETHYL PHOSPHATE, 4487.20
CHLORDANE, 796
CHLORDANE, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7493
CHLORDANE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 48.50, 2074, 3590, 9018
para-CHLORANILINE OLEATE, *para*-CHLORANILINE SALICYLATE, 7508
CHLOROBENZILATE, 4487.40
DDT, 7503.70
DDT, 1,1-DICHLORO-2,2-BIS (ETHYLPHENYL) ETHANE, OIL, 3594, 5337
DDT, ISOBORNYL THIOCYANOACETATE, OIL, 792
DDT, LINDANE, PIPERONYL BUTOXIDE, PYRETHRINS, 3492
DDT, OIL, ORGANIC THIOCYANATES, 1118
DDT, ORGANIC THIOCYANATES, 8959
DDT, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 469, 7373
DDT, PIPERONYL BUTOXIDE, PYRETHRINS, 3508, 3591
DDVP, 220, 3259, 4481.80, 4487.70, 7289, 9264.50
DDVP, DIELDRIN, 7045
DDVP, DIELDRIN, PIPERONYL BUTOXIDE, PYRETHRINS, 6821
DDVP, PIPERONYL BUTOXIDE, PYRETHRUM, 8120.50
DIAZINON, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 15.80, 7038, 8646, 9300, 9419
DI-*n*-BUTYL SUCCINATE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 511
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, PIPERONYL BUTOXIDE PYRETHRINS, 7019, 9094
DIELDRIN, MALATHION, 5578, 9311
DIELDRIN, MALATHION, PIPERONYL BUTOXIDE, PYRETHRINS, 5681
DIELDRIN, PIPERONYL BUTOXIDE, PYRETHRUM, 6751.75
2,3-*p*-DIOXANE, S,S-BIS (O,O-DIETHYL PHOSPHORODITHIOATE), 7919
DI-*n*-PROPYL ISOCINCHOMERONATE, PIPERONYL BUTOXIDE, PYRETHRINS, 7013
ENDOSULFAN, 3258, 4481.60, 4487.60
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 509, 703, 771, 1107, 1111, 2383.50, 4480, 7486, 7525
IODINE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, RONNEL, TERPENE POLYCHLORINATES, 5809, 5856.75
LINDANE — see BHC (GAMMA)
MALATHION, 4487, 6642, 7268
MALATHION, OIL, ORGANIC THIOCYANATES, 8632
MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATE, 5808
METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 3194-9, 3507, 3595, 3664, 4659, 5805, 9427
METHOXYCHLOR, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 3519, 3772
METHOXYCHLOR, PIPERONYL, PYRETHRINS, ROTENONE, 470
NICOTINE, 3252, 5552

OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 72-4, 790, 2072, 2075, 4488, 4490, 6120, 7492, 7838, 8156, 8452
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATES, 766, 3641
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 5810
PARATHION, 3253, 4481.20, 4483, 6729
PINE OIL, RONNEL, 4217
PIPERONYL BUTOXIDE, PYRETHRINS, 396.50, 504, 3649, 3769.50, 4831, 7339-40, 7405, 8234.50, 8240.50, 9403
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 334, 3648
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 6098
PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATES, 592
PYRETHRINS, 4487.80
PYRETHRINS, ROTENONE, ROTENOIDS, 6773.50
SULFOTEPP, 4484, 6640, 6727
SULFOTEPP, TETRADIFON, 8467
TEPP, 4482
TERPENE, POLYCHLORINATES, 3532
TETRADIFON, 3256-7, 4481.40, 8468

BAITS

ALDRIN, 6233
ARSENIC TRIOXIDE, 7821
BORIC ACID, 3626, 7380
CALCIUM ARSENATE, 4355.50
CALCIUM ARSENATE, METALDEHYDE, 3754, 4754, 5702-3, 6062, 6337, 6632, 7817-8, 9138
CARBARYL, 5053.50
CHLORDANE, 2732-4, 2995, 4096, 5710
CHLORDANE, METALDEHYDE, 8143
CHLORDANE, METALDEHYDE, TOXAPHENE, 4098
CHLORDANE, TOXAPHENE, 2743, 3928, 4097, 8122
COPPER ACETOARSENITE, 1958
DDT, METHOXYCHLOR, ORGANIC THIOCYANATES, 8751
DDT, OVEX, 553, 4502, 9312
DDVP, 218-9, 223-5, 707, 727.60, 1630, 2226, 2231, 3424, 3759, 6118, 6745, 7749, 7930, 8146.50, 8728, 8823, 9096, 9096.50
DDVP, 1,1-DICHLORO-2,2-BIS (*p*-ETHYLPHENYLETHANE, 4551, 7134
DDVP, MALATHION, 483, 6767
DDVP, MALATHION, RONNEL, 2410.75
DDVP, TRICHLOROFON, 7015-7
DECACHLOROOCTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA (CD) PENTALEN-2-ONE, 274, 274.35, 274.40, 3349, 4069, 4144-5
DIAZINON, 8354, 8757
DIELDRIN, METADEHYDE, 8829
O,O-DIMETHYL O-(4-METHYLTHIO) *m*-TOLYL) PHOSPHOROTHIOATE, 2330
ENDRIN, 5780
HEPTACHLOR, 5117, 8373
LEAD ARSENATE, 3291.50, 7381-2
MALATHION, 667, 2793, 3585, 4535, 5792, 6223
METALDEHYDE, 8, 1198, 1690, 3551, 4153.57, 7471, 7729-31, 8669
MIREX, 273.80, 274.20
NALED, 226, 5791
PHOSPHORUS, 1580
SODIUM ARSENATE, 1112, 2952
SODIUM ARSENITE, 199, 324, 355, 337, 1807
SODIUM FLUOSILICATE, 1951, 4234.25, 5779, 5957-8
THALLIUM SULFATE, 325-6, 328, 338, 565, 610, 3582, 4534, 5371, 7320, 8455-7, 8462
TOXAPHENE, 2922, 4153.70, 4153.72
TRICHLOROFON, 2085, 2704, 2953, 3343, 7119

CONCENTRATES FOR MANUFACTURING

ALDRIN, 257, 1080.14, 1080.16, 1358.02, 2716, 2989, 5098, 6651, 6932, 7938, 8262.20, 8801, 9020
ALLETHRIN, 262-3, 268-9, 4803-5, 6360-1, 7094.50
ALLETHRIN, PIPERONYL BUTOXIDE, 264-7
ALLETHRIN, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, 4810
ARSENIC TRIOXIDE, 284, 1585, 5452, 7530
BHC, 1248, 1358.10, 1982, 1984-5, 3244, 4692-3, 6415-6, 7953-4, 7957-8
BHC, (GAMMA), 6, 102, 236, 1360, 1591, 3324, 3352-3, 3664.60, 4336, 5111-2, 5827.50, 6358, 6486, 6627, 6875-6, 7126, 7187, 7387, 9030

958870245

BHC (GAMMA), DDT, 9031
BUTONATE, 6832
2-(2-BUTOXYETHOXY) ETHYL THIOCYANATE, 4491-2
BUTYL 3,4-DIHYDRO 2,2-DIMETHYL-4-OXO-1,2H-PYRAN-6-CARBOXYLATE, 3991
2-(*p-tert*-BUTYLPHENOXY) ISOPROPYL 2'-CHLOROETHYL SULFITE, 7944
CARBARYL, 7680-2
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 3052, 6607
CHLORDANE, 84, 1080.36, 1253-4, 1549, 2735, 4242.50, 4333, 5122, 5421, 6366-7, 6837-8, 7164-7165, 7203, 7970, 8245.75, 8812, 9041
CRYOLITE, 1358.92
DDT, 90, 1259-60, 1270, 1358.36, 1358.54, 1588, 2010, 2014, 2768, 3002, 3299, 3332-4, 4249, 4522, 4704, 5133, 5327, 5381, 5490, 5523, 6372, 6456-7, 6849-50, 6852, 6940, 7394, 7986, 8247, 8275, 8822, 9053
DDVP, 91.50, 3165.60, 3184, 6858, 9264
DI-*n*-BUTYL SUCCINATE, PIPERONYL BUTOXIDE, PYRETHRINS, 6888-9
1,1-DICHLORO-2,2-BIS (ETHYLPHENYL) ETHANE, 6578
4,4-DICHLORO-*alpha*-TRICHLOROMETHYL BENZHYDROL, 4057
DIELDRIN, 1358.60, 2066, 3336, 4638, 5147-8, 7997, 9059, 9188
O,O-DIETHYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, 8041, 8100.75, 8097.50
DIMETHOATE, 1857
3-DIMETHYLPHOSPHINYLOXY-N-N-DIMETHYL-*cis*-CROTONAMIDE, 549.50
O,O-DIMETHYL O-(4-METHYLTHIO)-*m*-TOLYL) PHOSPHOROTHIOATE, 8675
O,O-DIMETHYL PHTHALIDOMETHYL PHOSPHORODITHIOATE, 8021
2,3-*p*-DIOXANE S,S-BIS (O,O-DIETHYL PHOSPHORODITHIOATE), 1936.50
ENDRIN, 2325-6, 3338, 5153-4, 5389, 6671, 8003, 9068-9
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, 4809
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 4807, 7099
HEPTACHLOR, 2797, 3636, 5167, 8015, 9088
HEXACHLOROBENZENE, 3645
IODINE-ALKYLPHENOXY POLYOXYETHYLENE-ETHANOL COMPLEX, 2981, 8491
MALATHION, 3170, 3358, 4541, 5183, 5393, 6381, 6878, 6884, 8029, 9107
METHOXYCHLOR, 2203, 3308
Alpha-METHYLBENZYL-3-(DIMETHOXYPHOSPHINYLOXY)-*cis*-CROTONATE, 1562
METHYL PARATHION, 4795, 5195, 5303-4, 5396, 5556, 8040, 8040.50, 8040.60, 8987, 9115
NICOTINE, 1593, 3575
OIL, PIPERONYL BUTOXIDE, POLYOXYETHYLENE PYRETHRINS, 7867
OIL, PIPERONYL BUTOXIDE, POLYETHYLENE SORBITAL ETHER ESTER, PYRETHRINS, 8451
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7091-3, 7095-8, 7870, 9391, 9396-7, 9399
OIL, PYRETHRINS, 1358.82, 7089-90, 7094
PARATHION, 1341, 2834, 3363, 5211, 5306.50, 5402, 6091, 7686, 8049.75, 8050, 8252, 8657, 8914, 9120
PHORATE, 8634
PIPERAZINE HYDROCHLORIDE, 2152.50, 2153
PIPERONYL BUTOXIDE, 800, 6636
PIPERONYL BUTOXIDE, PYRETHRINS, 6896-9, 6900-9, 7052-63, 7065, 7067-73, 7077.20, 7077.30, 7077.40, 7077.50, 7077.60, 7077.70
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 686, 688
POLYCHLORODICYCLOPENTADIENE ISOMERS, 487
n-PROPYL ISOME, PYRETHRINS, 7081, 8800
PYRETHRINS, 1332, 2594, 6889-93, 7051, 7074-9
PYRETHRINS, SULFOXIDE, 7080, 7082-3, 8177-8
PYRETHRUM, 4356
RONNEL, 4214.50, 4214.75
ROTENONE, 2596-7, 6365, 6390-1, 6846, 7427
RYANODINE, 6392, 7449
SABADILLA ALKALOID, 6393-4, 6913
SILICA AEROGEL, 1336
SODIUM FLUORIDE, 1358.90
TDE, 2766, 3370-1, 5129, 5409, 5656, 7361, 8081, 8312.50, 9145
TEPP, 1358.94
TERPENE POLYCHLORINATES, 5242.40, 8165-7, 8483.50
THALLIUM SULFATE, 285, 9415
TOXAPHENE, 3376, 5244, 5415, 8092, 8782
TRICHLOROFON, 5437

CORDS, PAINTS, POLISHES, DIPS, SMEARS, BACK RUBBERS, ETC.

ASPHALT, 375, 2198, 2205
ASPHALT, COPPER NAPHTHENATE, OIL, 8453
BENZENE, DIPENYLAMINE, PINE OIL, RESIN SOAP, 4588
BENZENE, DIPHENYLAMINE, PINE OIL, TAR, 606
BENZENE, DIPHENYLAMINE, TURKEY RED OIL, 4589, 7787
BENZENE, LINDANE, PINE OIL, 4577
BHC, 652, 654, 7411
BHC, DDT, 5180
BHC, DIMETHYLBENZENE, PETROLATUM, PINE OIL, PINE TAR OIL, 4572
BHC (GAMMA), 8364
BHC (GAMMA), BONE OIL, PETROLATUM, PINE TAR OIL, RESIN, 4591
BHC (GAMMA), BUTOXYPOLYPROPYLENE GLYCOL, DDT, 6249
BHC (GAMMA), BUTOXYPOLYPROPYLENE GLYCOL, TOXAPHENE, 8389
BHC (GAMMA), DDT, 2410.80, 6258
BHC (GAMMA), DDT, OIL, 5905
BHC (GAMMA), OIL, 7727
BHC (GAMMA), OIL, PINE OIL, 4594, 7786
BHC (GAMMA), OIL, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 607
BHC (GAMMA), PINE OIL, 4571
BUTOXY POLYPROPYLENE GLYCOL, DDT, LINDANE, 1941.58
BUTOXY POLYPROPYLENE GLYCOL, HEXAHYDROL DIBENZOFURANCARBOXALDEHYDE, PIPERONYL BUTOXIDE, PYRETHRINS, 7008
BUTOXY POLYPROPYLENE GLYCOL, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRUM 7414.50
BUTOXY POLYPROPYLENE GLYCOL, METHOXYCHLOR, 6210
CARBOPHENOTHION, 7635
CHLORDANE, 3655, 6621
COAL TAR, NEUTRAL OILS, PHENOLS, RONNEL, 839
DDT, HEXACHLOROPHENE, 3656
DDT, O,O-DIETHYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, 7632
DDT, TOXAPHENE, 7627-8, 7631
DDVP, DIELDRIN, 2054.50
DIAZINON, PARATHION, 3188
2-DIMETHYLCARBAMYL-3-METHYLPYRAZOLYL-(5)-DIMETHYL CARBAMATE, 3311
ENDOSULFAN, 7622
MALATHION, NICOTINE, OILS, 8211.50
MALATHION, OIL, TOXAPHENE, 1941.94
MALATHION, ROTENONE, 7002
alpha-METHYLBENZYL-3-(DIMETHOXYPHOSPHINYLOXY)-*cis*-CROTONATE, 9043.50
METHYLATED NAPHTHALENE, PINE OIL, ROTENOIDS, ROTENONE, 6162
NICOTINE, PYRIDINE, 3413
OILS, ROTENOIDS, ROTENONE, 3074
PARATHION, 2397, 3189
PARATHION, TDE, 7623
PHENOLS, SOAP, SULFUR, DIOXIDE, 6058
PINE TAR, 1813
TOXAPHENE, 1941.92, 7626, 8330, 9152

DUSTS

ALDRIN, 1069, 1080.08, 1080.10, 1080.12, 1231-4, 1398, 1404, 1897, 2237, 3466, 3667, 3670, 4599, 4601, 4938, 5097, 5672, 6010-3, 6647, 6649-50, 7253, 7938, 8108, 8261.50
ALDRIN, CHLORDANE, 609, 739
ALDRIN, DDT, 1080.04, 3076, 4600, 5096, 5374, 6404, 6648, 6933, 7254, 7936, 8258-9
AMMONIUM FLUOSILICATE, 2165, 8240
BACILLUS POPILLIAE or LENTIMORBUS, 2111, 4040
BACILLUS THURINGIENSIS, 1000, 5586-90, 6088, 6420, 8088
BHC, 1241-3, 4088, 4606, 4691, 4843, 4942, 6413, 8262.40, 8807
BHC, CHLORDANE, 3652, 3654
BHC, DDT, 1080.30, 1731, 1750, 1753, 1756, 1844-5, 2723-4, 2751, 3069, 3084-5, 3935, 4087, 4607, 6659, 6961, 6963, 7532, 7948, 7949, 7952, 8262.50, 8962.60, 8962.70, 8962.80, 8805-6
BHC, DDT, MALATHION, 4608
BHC, MALATHION, 4131
BHC, PARATHION, 8277.50
BHC, DDT, SULFUR, 4609
BHC, TOXAPHENE, 4256

958870246

BHC (GAMMA), 963-4, 1941.55, 2655, 2727, 2888-9, 3027, 3087, 3820, 4019, 4153.08, 5006, 5109, 5377, 5508, 5833, 6242, 6441, 6484, 6675, 6873, 7406, 7575, 8162, 8268, 8380, 8729, 8904, 9034, 9159
BHC (GAMMA), CHLORDANE, 1808
BHC (GAMMA), CHLORDANE, DDT, 7350
BHC (GAMMA), DDT, 152, 1244, 2752, 4698, 4700, 5102-4, 5110, 5376, 5691, 5695, 6429, 6433, 6657, 7259, 7261, 7326, 8269-70
BHC (GAMMA), DDT, METHYL PARATHION, 6431
BHC (GAMMA), DDT, PARATHION, 1245
BHC (GAMMA), NALED, 5757
BHC (GAMMA), PARA TERTIARY OCTYL PHENOXY ETHOXY ETHYLDIMETHYL BENZYL AMMONIUM CHLORIDE, PYRETHRINS, ROTENONE, SULFUR, 6119
BHC (GAMMA), PINE OIL, ROTENOIDS, ROTENONE, 4583
BORAX, CHLORDANE, OIL, PARADICHLOROBENZENE, 6625
BORAX, OIL, ORGANIC THIOCYANATES, PARADICHLOROBENZENE, 6624
BORAX, PYRETHRINS, SODIUM FLUORIDE, 6630
BORIC ACID, (BUTYL CARBITYL) (6-PROPYL PIPERONYL) ETHER, HEXACHLOROPHENE, PIPERONYL BUTOXIDE, PROPYLENE GLYCOL, PYRETHRINS, ROTENOIDS, ROTENONE, 2158
Beta-BUTOXY *beta'* THIOCYANO DIETHYL ETHER, 2-ETHYLHEXANEDIOL, PIPERONYL BUTOXIDE, PYRETHRINS, 6117
BUTOXYPOLYPROPYLENE GLYCOL, DI-*n*-ISOCINCHOMERATE, METHOXYCHLOR, 7007
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'CHLOROETHYL SULFITE, 999, 5683, 7943
CALCIUM ARSENATE, 2492-3, 3455, 4199, 4334.50
CALCIUM ARSENATE, DDT, 6520-1
CALCIUM ARSENATE, DDT, PARATHION, 6522
CALCIUM ARSENATE, PARATHION, 6523
CALCIUM ARSENATE, TOXAPHENE, 4257
CARBARYL, 647.50, 657, 685, 817, 1064-5, 1197, 1691, 1722-4, 1941.76, 2250.50, 2256, 2447, 2471, 2476, 2553, 2682, 2711.50, 2893, 2895-6, 2898, 3151-3, 3407, 3753, 3829-30, 4211, 4912-15, 5050, 5406-8, 5762, 5907, 6705-7, 7299, 7300, 7356, 7558, 7586-7, 7608, 7611, 8060, 8141-2, 8303.50, 8304-6, 8306.20, 8687, 8718, 8770, 9010, 9137.50
CARBARYL, PARATHION, 2851, 3153.50, 5034, 6710, 7612, 8314.50, 8314.75, 8747
CARBARYL, PIPERONYL BUTOXIDE, PYRETHRINS, 7012
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 1912, 3739-40, 4673-4, 5223, 5885, 6695, 7604, 8856, 4153.49
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 1,1-DICHLORO-2,2-BIS-(p-ETHYLPHENYL) ETHANE, 5887
CARBOPHENOTHION, 1794, 2937, 4153.78, 4329.50, 5951, 5956, 6548, 6066, 8098, 8318.60
CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, 6331
CHLORANIL, 4065
CHLOROBENSIDE, 5856
CHLORDANE, 19, 19.50, 659, 810, 937, 960, 1004, 1097-8, 1158, 1358.16, 1358.18, 1367, 1413-4, 1963, 1743, 1941.14, 1941.15, 1944-5, 2169, 2181, 2218, 2221, 2319, 2464, 2567-8, 2622, 2653, 2737-8, 2997-8, 3090, 3679.80, 3709, 3778-9, 3807, 3926, 4146, 4147, 4260, 4425, 4533, 4564, 4613-4, 4696, 4846, 4955, 5120-1, 5418-20, 5422-3, 5450, 5478, 5711, 5984, 6018-9, 6104-5, 6200-1, 6319-21, 6424, 6619, 6755, 6834, 7169, 7401, 7494, 7498, 7538, 7738-9, 1969, 8110-1, 8150, 8263.80, 8342, 8458, 8696, 8810-11, 8980, 9040
CHLORDANE, DDT, 740, 1204, 2736
CHLORDANE, DDT, SODIUM FLUORIDE, 2276
CHLORDANE, DIAZINON, 1185
CHLORDANE, MALATHION, 9028
CHLORDANE, OCTACHLORO 4-7-METHANO-TETROHYDRAINDANE, 6125
CHLORDANE, ORGANIC THIOCYANATES, 2318
CHLORDANE, PIPERONYL BUTOXIDE, PYRETHRINS, 336, 574
CHLORDANE, PYRETHRINS, 6910, 8395
COAL TAR OILS, DDT, NAPHTHALENE, 2175
COAL TAR OILS, NAPHTHALENE, PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, 6123
COAL TAR OILS, NAPHTHALENE, ROTENOIDS, ROTENONE, SULFUR, 6142
COPPER *meta* ARSENITE, 192
CRYOLITE, 4231.20
CRYOLITE, DDT, TOXAPHENE, 5938
CRYOLITE, MALATHION, 4292
DDT, 23, 182, 518, 621-2, 1021-2, 1080.52, 1080.54, 1168, 1326, 1358.42, 1358.44, 1437-8, 1664, 1667, 1764-5, 1891, 1902, 2170, 2225, 2449-50, 2463, 2485, 2572, 2601, 2625-6, 2769-70, 3003-4, 3101, 3471, 3476-7, 3687-8, 3811, 3933, 4111-5, 4117, 4197, 4276-7, 4413-4, 4621, 4626-7, 4702, 4966, 5131, 5331, 5380, 5518-20, 5522, 5732, 6025-6, 6130-1, 6167, 6368,

6446-7, 6591, 6645, 6660, 6757, 6943-4, 7265-6, 7488-9, 7549-50, 7984.50, 7985, 7985.50, 8105, 8160, 8273-4, 8376, 8678.32, 8703-4, 8820-1, 8883, 9004-5, 9302
DDT, DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, 1046-7, 4271, 5814
DDT, DIELDRIN, 4639, 4705, 5140-1
DDT, DIELDRIN, PARATHION, 7274
DDT, O,O-DIMETHYL-S-*p*-CHLOROPHENYLTHIOMETHYL PHOSPHORODITHIOATE, 3106-7, 3134.50, 3136, 8044-5
DDT, O,O-DIMETHYL S-4-OXO-1,2,3-BENZOTRIZIN-3 (4H) METHYL PHOSPHORODITHIOATE, 6428
DDT, ENDRIN, 1082.40, 1082.50, 4650, 8281.50
DDT, ENDRIN, METHYL PARATHION, 440, 6481
DDT, HEPTACHLOR, 4710, 5161-2, 6680, 8285, 8287
DDT, HEPTACHLOR, METHYL PARATHION, 5239, 5241
DDT, MALATHION, 681, 1773, 5737, 5836, 6030, 6492, 8768
DDT, MALATHION, PYRETHRINS, 647
DDT, METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 571
DDT, METHYL PARATHION, 1087.40, 1690.50, 1690.75, 1715-7, 1774-5, 2818-9, 3129-30, 3132-3, 4625, 5198, 5200, 5395, 6502-6, 6687, 8293.50, 8293.75
DDT, METHYL PARATHION, TOXAPHENE, 3134, 6440, 8317.70, 8910.50
DDT, OIL, 1024, 5746
DDT, PARATHION, 2434, 2494, 2502, 2631, 2837-41, 2863, 3813, 4153.20, 4153.25, 4204-5, 4717, 5030, 5208, 5524, 5739, 5850.50, 6509-12, 6654, 8277.40, 8678.62, 8678.64
DDT, PARATHION, TOXAPHENE, 4315, 5741, 8317.80, 8678.76, 8910
DDT, PYRETHRUM, 5372
DDT, ROTENONE, 8759
DDT, SODIUM FLUORIDE, 5577
DDT, TEPP, 9267
DDT, TOXAPHENE, 180, 1030, 1080.48, 1298-1300, 1537, 1728, 1757, 1759, 2925-6, 3162, 4324-5, 4629, 5412, 5929, 6436-7, 6717-8, 7303, 8317.40, 8317.50
DDVP, 1650
DIAZINON, 92, 215, 2446, 2455, 2467, 3300, 3695, 3814, 4279.50, 4972, 8985
DIAZINON, PYRETHRIN, 6314.20
DIAZINON, TETRADIFON, 1034
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, 4905, 5037
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, TEPP, 9269
1,2-DICHLOROETHANE, 8282
1,2-DICHLOROPROPANE, 7984
1,1-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, 1048, 2804, 3714, 4142, 4288, 5005, 5813
1,1-DICHLORO- *alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, 5816
1,1-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, NALED, 5759
1,1-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, TDE, 5817-8
DIELDRIN, 582, 1080.66, 1080.68, 1696, 2495, 2778, 3815, 3925, 4280, 4635-7, 4706, 4856, 4976, 5051, 5146, 5680, 5767, 6666, 7275-7, 7435, 7441, 7996, 8279.70, 8748
DIELDRIN, TDE, 8727
O,O-DIETHYL 0-3-CHLORO-4-METHYL-1-OXO-2H-1-BENZOPYRAN-7-YL PHOSPHORODITHIOATE, 1783.50, 3485
O,O-DIMETHYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, 8041.50
O,O-DIMETHYL S-4-OXO-1,2,3-BENZOTRIAZIN-3-(4H)-YL METHYL PHOSPHORODITHIOATE, 2452, 4992
ENDOSULFAN, 185, 2454, 2462, 2871, 3831, 4920, 5931, 5931.50
ENDOSULFAN, PARATHION, 2870
ENDRIN, 1041, 1082.10, 1082.20, 1082.30, 1457, 1669, 1701, 1782-3, 1906, 2785-6, 2866-7, 2878, 3112-3, 3487, 3817, 4128, 4284, 4649, 4866, 4980, 5152, 5781, 6472, 6669-70, 6949, 7560-1, 8281.50, 8281.60, 8678.46, 8678.48, 8712, 8834, 9422-3
ENDRIN, METHYL PARATHION, 4206.50, 8281.80
ENDRIN, NALED, 5756
ENDRIN, PARATHION, 8678.54
ETHION, 2456, 3014, 4234, 5785
HEPTACHLOR, 1044, 1082.90, 1083.20, 1083.25, 1083.30, 1083.35, 3498, 4605, 4654, 4714, 4993, 5166, 5800, 6040-1, 6681-2, 6868, 8014, 8284, 8288.50
LEAD ARSENATE, 1514-5, 5919, 6045
MALATHION, 673, 1050, 1087.10, 1187, 1483-4, 1672, 1712, 1772, 1783.75, 1941.59, 2097, 2239-40, 2457, 2469, 2657, 2813, 2906, 3071, 3123-4, 3716-7, 3821, 4299-300, 4427, 4575, 4661-2, 4664, 4713, 4880, 5015, 5041, 5182, 5392, 5435, 5837, 5841.50, 6048, 6134, 6231, 6253, 6332, 6493-4, 6560, 6686, 7578, 7758, 7924, 8028, 8131, 8291, 8291.25, 8291.50, 8736-7, 8841, 8997, 9105-6, 9109, 9240-1

958870247

MALATHION, METHOXYCHLOR, 208, 1941.22, 7923, 9281
MALATHION, METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, 6746
MALATHION, PIPERONYL BUTOXIDE, PYRETHRINS, 9438, 9440
MALATHION, TOXAPHENE, 4667
METHOXYCHLOR, 674, 1087.30, 1087.35, 1189, 1737, 2185, 2241, 2453, 2468, 2542, 2667, 3494, 3723, 3824, 5022, 5193, 6052, 6211, 6294, 8739, 9001
METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 4574
METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, 8348
METHOXYCHLOR, TOXAPHENE, 4303
METHYL NAPHTHALENES, ORGANIC THIOCYANATES, ROTENOIDS, ROTENONE, 634
METHYL PARATHION, 1087.45, 3131, 4668, 5197, 5202, 5851, 8039.60, 9243-3
METHYL PARATHION, TOXAPHENE, 5203-4, 5855
NAPHTHALENE, NICOTINE, SODIUM FLUOSILICATE, SULFUR, 6252, 1941.86
NICOTINE, 2591, 6299
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8190
ORGANIC THIOCYANATES, 261, 636
ORGANIC THIOCYANATES, ROTENOIDS, ROTENONE, SODIUM FLUOSILICATE, SULFUR, 949
ORGANIC THIOCYANATES, TDE, 6622
PARATHION, 1058, 1087.75, 1087.80, 1286-7, 1495-7, 1720, 1776-7, 2247, 2439, 2445, 3673, 2843-5, 3043-5, 3140, 3728, 3825, 4153.19, 4313, 4313.50, 5032, 5210, 5399-401, 5528, 5859, 6053, 6513, 6691-2, 7295, 7597, 7599, 8049.50, 8294, 8678.58, 8678.60, 8744, 8849, 9007
PARATHION, SULFUR, 8255
PARATHION, TDE, 1778-81, 1846-7, 2873-5, 3156-7, 4153.38, 5403, 5872, 6535-6, 6714, 8314, 8678.82, 8745-6
PARATHION, TOXAPHENE, 1789, 2930, 4153.39, 5226, 6722, 7310
PIPERONYL BUTOXIDE, POLYOXYETHYLENE SORBITOL MIXED ETHER ESTER, PYRETHRINS, 1631
PIPERONYL BUTOXIDE, PYRETHRINS, 2386, 2976, 3073, 5225, 7064, 7767
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 569, 961
PIPERONYL BUTOXIDE, PYRETHRINS, RYANIA, SODIUM FLUORIDE, 7430
PIPERONYL CYCLONENE, PYRETHRINS, ROTENONE, 7504
PYRETHRINS, 797, 2389.50, 2440, 2677-8, 3540, 4153.51, 6387, 6623, 6894
PYRETHRINS, ROTENOIDS, ROTENONE, SULFUR, 3149
PYRETHRINS, ROTENONE, 2520
PYRETHRINS, RYANIA POWDER, SODIUM FLUORIDE, SODIUM SILICOFLUORIDE, 6345
PYRETHRINS, SILICA AEROGEL, 7711
PYRETHRINS, SODIUM FLUORIDE, 4800, 6278, 6895
PYRETHRUM, 118, 1358.84, 7189-200, 7507, 7766
PYRETHRUM, ROTENONE, SODIUM FLUORIDE, 132
PYRETHRUM, SODIUM FLUORIDE, 3183, 8243
ROTENOIDS, ROTENONE, 31, 679-80, 812-3, 816, 1849-50, 1941.11, 1941.12, 2173-4, 2253, 2604, 2606, 2679-80, 2710, 3083, 4153.53, 4153.56, 4566, 4573, 4797, 5048-9, 5900-1, 6742, 6799, 7258, 7298, 7536, 8140, 8341, 8396, 8694, 8700, 8721, 8760-1, 9135
ROTENOIDS, ROTENONE, ZINEB, 6951
ROTENONE, 461, 637, 665, 947, 1090.60, 1194-5, 1228, 1599, 1739, 1784, 1787, 1913, 1941.8, 2208, 2516, 2525, 2528, 2595, 2891, 3166, 3449, 3482, 3572, 3749, 3750-1, 4314, 4467, 4612, 4676-8, 4909, 5046, 5235, 6124, 6161, 6197, 6282, 6344, 6386, 6698, 8263.70, 8302.50, 8988.90, 9307
SABADILLA ALKALOIDS, 1090.80, 1788, 1913.50, 2161, 3150, 4465, 4587, 4679, 6340, 6699-700, 6957, 7450, 8155, 8303
SILICA AEROGEL, 1358.86, 2165.50, 4255, 7713, 9480
SODIUM FLUORIDE, 121, 327, 970, 1358.88, 3799, 5469, 6166, 6291, 7042, 7208, 7822, 8309, 8765
SODIUM FLUOSILICATE, 8479
TDE, 478, 676-7, 1015, 1090.40, 1205, 1435, 1790-1, 2432, 2685, 2764, 2865, 3154, 4316, 4723-4, 4918, 5070, 5229, 5923, 6712, 7546, 8312, 8313.25, 8678.88, 8753, 8755
TDE, TOXAPHENE, 4329
TEPP, 4879, 5543, 6063, 9268
TERPENE POLYCHLORINATES, 5242.20
TETRADIFON, 1941.88
TOXAPHENE, 1074, 1091.40, 1091.50, 1296-7, 1538-9, 1729, 1792-3, 1914, 2484, 2487, 2691, 2924, 2927, 3060-2, 3161, 3757, 3836, 4153.66, 4682-3, 4732, 4925, 5074, 5243, 5411, 5413-4, 5416, 5544-5, 5943, 6064, 6435, 6719, 6720, 6916, 7302, 8316, 8776, 8863, 9246
TRICHLOROFON, 2443

FUMIGANTS

ACRYLONITRILE, CARBON TETRACHLORIDE, 7933
ACRYLONITRILE, CARBON TETRACHLORIDE, CHLOROFORM, CHLOROPICRIN, 3436
BENZENE, CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, SULFUR DIOXIDE, 2114.30, 2114.60
BHC (GAMMA), 795, 7816
BHC (GAMMA), DDT, 1704
BHC (GAMMA), *p*-DICHLOROBENZENE, 5333
1-BROMOPROPYNE, CHLOROPICRIN, METHYL BROMIDE, 8910.75
CALCIUM CYANIDE, 1854-5
CARBON DISULFIDE, 4241, 7968.60
CARBON DISULFIDE, CARBON TETRACHLORIDE, 712, 2008, 2028, 3995, 5084, 6039, 8009-10, 8012-3, 9280.60
CARBON DISULFIDE, CARBON TETRACHLORIDE, CHLOROPICRIN, 4396
CARBON DISULFIDE, CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, 1941.42, 2126, 3997, 5085
CARBON DISULFIDE, CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, ETHYLENE DICHLORIDE, 7673.75
CARBON DISULFIDE, CARBON TETRACHLORIDE, PENTANE, 1941.43
CARBON DISULFIDE, CARBON TETRACHLORIDE, PENTANE, SULFUR DIOXIDE, 1941.87
CARBON DISULFIDE, CARBON TETRACHLORIDE, PETROLEUM ETHER, SULFUR DIOXIDE, 2052, 8417
CARBON DISULFIDE, CARBON TETRACHLORIDE, SULFUR DIOXIDE, 728
CARBON TETRACHLORIDE, 7968.70
CARBON TETRACHLORIDE, DICHLOROETHANE, ETHYLENE DIBROMIDE, *o*-and *p*-DICHLOROBENZENES, *p*-TOLUENESULFONCHLORAMIDE, PENTACHLOROETHANE, PROPYLENE DICHLORIDE, 6138
CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, 554, 1941, 2049-51, 2127-8, 2130, 2132, 2134, 5025
CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, ETHYLENE DICHLORIDE, SULFUR DIOSIDE, 1941.45, 6308
CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 2112
CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, 706, 711, 2027, 2096, 2392, 3266, 3710, 6038, 6133, 6331, 7859, 7890, 8126
CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, SULFUR DIOXIDE, 6230
CARBON TETRACHLORIDE, MALATHION, PIPERONYL BUTOXIDE, PYRETHRINS, 2113.75
CARBON TETRACHLORIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8490
CHLOROPICRIN, 3442, 4397-9, 6614
CHLOROPICRIN, ETHYLENE DIBROMIDE, 4400
CHLOROPICRIN, METHYL BROMIDE, 245, 2133, 2133.50, 3245, 3248, 3437-41, 3443, 4395, 6076, 6597-8, 6615, 6922, 8934-5
1,2-DIBROMO-3-CHLOROPROPANE, 417-9, 1087.55, 1087.60, 1087.65, 1909-10, 1941.66, 2270, 2823-4, 3032-3, 3138-9, 3261, 3263-4, 3941, 4153.16, 4153.17, 4350, 4671-2, 4891-3, 5206, 5398, 6338, 6790, 7591, 7763, 8047, 8133, 8847, 8940-1, 9118
1,2-DIBROMOETHANE, 2120, 2135, 3444, 4082-3, 4133, 5789, 8919-20, 8928, 9277
1,2-DIBROMOETHANE, METHYL BROMIDE, 1872-4, 2129, 2131, 5795, 6594-5, 6599
p-DICHLOROBENZENE, 110, 5306, 7193, 7845
o-DICHLOROBENZENE, 111, 1595, 2242, 3393, 3661, 5091, 5093, 5316, 6085-6, 6092, 6094, 6146, 6264, 6628, 7044, 7137, 7194, 7246, 7500, 7517, 7519-21, 7894, 9227-9
1,2-DICHLOROETHANE, 521, 653, 2063
1,2-DICHLOROETHANE, CARBON TETRACHLORIDE, 2125
1,2-DICHLOROETHANE, PROPYLENE DICHLORIDE, 1155
1,2-DICHLOROPROPANE, 1887, 4964, 5237, 5727, 8819, 9283
DICHLOROPROPENES, 2114.90, 4110, 8469, 9305.50
HYDROGEN CYANIDE, 64-5
METHYL BROMIDE, 2123, 2269, 3246, 3445-6, 3794, 4669-70, 4794, 5465, 5850, 6075, 6596, 8936, 9279
METHYL BROMIDE, CHLOROPICRIN, 758.50
NAPHTHALENE, 1830, 3658-60, 5092, 5428.50, 5429, 7043, 7244, 7516, 7518
PROPARGYL BROMIDE, 6926.50
SODIUM CYANIDE, 7455
SODIUM N-METHYLDITHIOCARBAMATE, 2206
SULFUR, 3662
SULFURYL FLUORIDE, 9284
TETRACHLOROTHIOPHENE, 6526

958870248

FERTILIZER ADDITIVES AND COMBINATIONS

ALDRIN, 1941.05, 2608, 2616, 5675, 6037, 8410
BHC (GAMMA), 671, 4026, 6547, 8318.40, 8731-2, 8777
BHC (GAMMA), METHOXYCHLOR, 396
CARBON DISULFIDE, CARBON TETRACHLORIDE, PENTANE, SULFUR DIOXIDE, 5920
CHLORDANE, 2877
CHLORDANE, DIMETHYL ESTER OF TETRACHLOROTEREPHTHALIC ACID, 4404
DIELDRIN, 2643-4, 2643-50, 2644.10
HEPTACHLOR, 1941.52, 2644.30, 2644.60, 2645, 2645.20, 2645.40, 2645.60, 2645.80, 9093

GRANULAR

ALDRIN, 258-60, 1080.20, 1080.22, 1080.24, 1080.26, 1148, 1237, 1399, 1898, 1941.03, 1941.04, 2647, 2715, 3079-81, 3079.50, 3318, 3495, 3671-2, 4085-6, 4602, 4689, 4836-7, 4935-6, 5602, 5676-7, 6406-7, 6676-7, 6934, 7256, 7527-9, 7940.60, 7940.70, 7941, 7941.50, 8283.30, 8283.35, 8283.40, 8283.45, 8682-4, 8803, 9023-5
BHC, 1314
BHC, DDT, 4402, 7537
BHC (GAMMA), DIELDRIN, 5823
CALCIUM ARSENATE, 1364
CARBON TETRACHLORIDE, ETHYLENE DICHLORIDE, 9084
CARBON TETRACHLORIDE, ETHYLENE DIBROMIDE, ETHYLENE DICHLORIDE, SULFUR DIOXIDE, 9085
CARBOPHENOTHION, 2591.60, 3064, 3954, 4153.80, 8100
CHLORDANE, 1160, 1370-2, 1565-7, 1941.17, 2739, 2999, 3000, 3096, 3098, 4421, 4615, 4847, 6324, 6836-8, 7541, 8283.50, 8815, 8976-7, 8992, 9098
2-CHLORO-1-(2,4-DICHLOROPHENYL) VINYL PHOSPHATE, 273.40
COPPER ACETOARSENITE, 2855-7, 6097
COPPER META ARSENITE, 193
DDT, 1169, 1316, 1888-90, 1941.26, 1941.27, 2011-3, 2628, 3478.50, 3103, 3690, 4621, 4853, 5734, 5735, 6451-2, 7268-9, 7987.75, 7988, 8351-2, 8705, 9055
DIAZINON, 3301-2, 3302.50, 6859, 7994.50, 7994.75
1,2-DIBROMO-3-CHLOROPROPANE, 4153.15, 7592-3, 8048, 8048.50, 8134-5
1,2-DIBROMOETHANE, 9086
DIELDRIN, 670, 1080.70, 1080.72, 1080.74, 1171, 1208, 1378-9, 1697, 1941.31, 2068-70, 2634-5, 2779-81, 3010, 3110, 3697-8, 4126, 4153.05, 4640-2, 4858-60, 4974, 5149, 5769, 6216, 6330, 6863, 6948, 7173-4, 7279-81, 7553-4, 7999, 8119-20, 8280, 8283.55, 8550-1, 8708, 8832, 8993, 9061-2
O-2,4-DICHLOROPHENYL O,O-DIETHYL PHOSPHOROTHIOATE, 6549
O,O-DIETHYL S-2(ETHYLTHIO) ETHYL PHOSPHORODITHIOATE, 1203, 2088
3,5-DIMETHYL-1,3,5,2H-TETRAHYDROTHIADIAZINE-2-THIONE, 3535
ENDRIN, 1703, 1941.37, 8362
EPN, 3703, 3705
ETHION, 2531, 3018, 3706-7, 5496, 5787
HEPTACHLOR, 1045.50, 1083.40, 1083.45, 1083.50, 1083.55, 1382-3, 1941-49, 1941.50, 1941.51, 2650-1, 2798, 3024, 3118-19, 3121, 3348, 3501-3, 3637-9, 3713, 4137-8, 4655-7, 4874-5, 4994, 5158, 5168, 5802, 6336, 6478, 6678-9, 6684, 6871, 6953-4, 7186, 7565, 7569-70, 8017, 8046.60, 8046.70, 8127, 8283.60, 8283.65, 8283.70, 8283.75, 8372, 8723-4, 8836-7, 9087, 9090, 9426
MALATHION, 4527, 4538-9
METHYL PARATHION, 8039.50
PARATHION, 2848, 3042, 3731-2, 5305, 8052.75
PHORATE, 8087.50
TOXAPHENE, 3164, 3758, 4684-5, 5246, 8095

MOTHPROOFING MATERIALS

BENZENE, CHLOROETHYLENE, PARADICHLOROBENZENE, 7819
DDT, 1632
DDT, MALATHION OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 2272
DDT, OIL, TDE, 7893
1,1-DICHLORO-2,2-BIS-(p-ETHYLPHENYL) ETHANE, 546
1,1-DICHLORO-2,2-BIS-(p-ETHYLPHENYL) ETHANE, ISOBORNYL THIOCYANOACETATE, 2971
1,1-DICHLORO-2,2-BIS-(p-ETHYLPHENYL) ETHANE, ISOBORNYL THIOCYANOACETATE, OIL, PERTANE, 364
1,1-DICHLORO-2,2-BIS-(p-ETHYLPHENYL) ETHANE, OIL, 5026
p-DICHLOROBENZENE, OIL, TERPENE POLYCHLORINATES, 577
DIELDRIN, PHENYL MERCURIC LACTATE, 7241
2,2'-DIHYDROXY-3,5,3',5',4'-PENTACHLOROTRIPHENYLMETHANE, 2369
ISOBORNYL THIOCYANOACETATE, 2970

MANGANESE FLUOSILICATE, THIOCARBAMIDETHIOURA, ZINC, 133
MAGNESIUM FLUOSILICATE, 2370, 2972, 6574
OIL, TERPENE POLYCHLORINATES, 752, 1117, 3284, 6095, 8892
SODIUM FLUOSILICATE, 1809
TERPENE POLYCHLORINATES, 2243, 3634, 5336, 7191, 7248
ZINC FLUOSILICATE, 547

REPELLENTS

BENZENE, CHLOROFORM, NAPHTHALENE, 251
BENZYL BENZOATE, 3242-3
BHC (GAMMA), OIL, PINE OIL, 4066, 5157, 7283, 7562
BHC (GAMMA), PINE OIL, 6286
BUTOXYPOLYPROPYLENE GLYCOL, 2593, 2705, 2705.50, 7909
BUTOXYPOLYPROPYLENE GLYCOL, CHLOROFORM, PINE OIL, RONNEL, 7040
2-BUTYL-2-ETHYL-1,3-PROPANEDIOL, 5326
BUTYL 3,4-DIHYDRO-2,2-DIMETHYL-4-OXO-1, 2H-PYRAN-6-CARBOXYLATE, 7241.50, 7316
DEET, 1963, 2236, 3553-4, 4493, 4753, 7245, 7509, 7773
DEET, DI-n-PROPYL ISOCINCHOMERATE, 2,3,4-BIS (DELTA 2 BUTYLENE) TETRAHYDROFURFURAL, N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, 573, 8893
DIBUTYL SUCCINATE, 6224-5, 6277, 6748, 6915, 8343
DIMETHYL PHTHALATE, 2-ETHYLHEXANEDIOL, IDALONE, 8905-6
DI-n-PROPYL ISOCINCHOMERONATE, 4812
ETHYL HEXANEDIOL, 3552, 7322
GUM CAMPHOR, 3657
(3a,6,9,9a,9b-HEXAHYDROL-4a (4H) -DIBENZOFURANCARBOXALDEHYDE, 4811
HYDROXYETHYL-n-OCTYL SULFIDE, 4813
HYDROXYETHYL-n-OCTYL SULFIDE, N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, 8184
ROTENONE, TERPENE ALCOHOLS, TERPENEOL, 4044

SPRAYS

ALDRIN, 75, 161, 256.50, 656, 830, 995, 1080.02, 1080.18, 1149, 1235-6, 1238-40, 1358.04, 1358.06, 1358.08, 1365, 1395-7, 1400-1, 1584, 1709, 1814, 1896, 1941.01, 1941.02, 1941.07, 1941.08, 2166, 2607, 2615, 2617-20, 2990-1, 3078, 3319-20, 3447-8, 3517, 3567, 3668-9, 3782, 4603-4, 4688, 4835, 4934, 4937, 5603, 5099, 5601, 5673-4, 5679, 6184-5, 6405, 6826-7, 6931, 7104-5, 7166, 7252, 7328-9, 7732, 7940, 7940.50, 7942, 7942.50, 8107, 8261.75, 8262, 8433-4, 8484, 8679, 8681, 8802, 8804, 8913, 9021-2, 9026-7
ALDRIN, DDT, 1132, 1747, 7937
ALDRIN, DIELDRIN, 6183
ALDRIN, OIL, 147, 682, 3673, 4933, 5375, 6652, 8680
ALDRIN, OIL, TDE, 8771
ALDRIN, TDE, 7624
ALLETHRIN, BUTOXYPOLYPROPYLENE GLYCOL, METHOXYCHLOR, n-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, ORGANIC THIOCYANATES, 6919
ALLETHRIN, DDT, METHOXYCHLOR, n-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, ORGANIC THIOCYANATES, 605
ALLETHRIN, DDT, METHOXYCHLOR, ORGANIC THIOCYANATES, 475, 3633
ALLETHRIN, DDT, OIL, ORGANIC THIOCYANATES, 5449
ALLETHRIN, DDT, OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, 3191
ALLETHRIN, METHOXYCHLOR, n-OCTYL BICYCLHEPTENE, DICARBOXIMIDE, ORGANIC THIOCYANATES, 3775
ALLETHRIN, n-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, 70
ALLETHRIN, n-PROPYL ISOME, 270
ARSENIC TRIOXIDE, HEPTACHLOR, LEAD ARSENATE, 6312
BACILLUS THURINGIENSIS, 4234.75, 4255.75, 6089, 8088.50, 8089
BHC, 1001, 1080.32, 1247, 1249-51, 1358.12, 1941.09, 1941.10, 1986, 2172, 2620, 2728, 2994, 3089, 3664.30, 3677, 3785, 4153.92, 4153.93, 4236, 4336.75, 4505, 4610, 4694, 5113, 6935, 7106, 7531, 7734-5, 7955, 7959, 8262.30, 838.80, 8319, 8332, 8688, 8784
BHC, CHLORDANE, 8786
BHC, CHLORDANE, DDT, 1184
BHC, DDT, 3643, 4569, 5100, 5378, 5825, 7950, 8263
BHC, TOXAPHENE, 415, 1519, 6489
BHC (GAMMA), 1, 99, 100, 103, 139, 237-8, 380, 397, 541-3, 537, 555, 625, 838, 1085.50, 1091.60, 1096, 1120, 1123, 1154, 1215-7, 1224-7, 1282, 1474-7, 1635, 1660, 1941.56, 1941.57, 2387, 2539, 2612, 2706, 2722, 2729, 2809-10, 3028, 3201, 3409, 3511-2, 3715, 3788, 3792, 3944, 4016-7, 4020.50, 4024, 4027, 4084, 4334, 4520, 4558-9, 4799, 4842, 4945, 5007, 5009-10, 5115, 5171, 5177-8, 5379, 5475, 5507, 5509-11 5575, 5606, 5620-1, 5629, 5631, 5696, 5698, 5700, 6126, 6139, 6189-90, 6243-6, 6353-4, 6359, 6411-2, 6414, 6417-9, 6485, 6487, 6587, 6573, 6777-9,

958870249

6877, 7026, 7032, 7124, 7127-8, 7183-4, 7188, 7286-8, 7345, 7576-7, 7888, 8023, 8025-6, 8163, 8129, 8322.50, 8361, 8366, 8730, 8808-9, 8839-40, 8858, 8889, 8995-6, 9035, 9102-3
BHC (GAMMA), BUTOXYPOLYPROPYLENE GLYCOL, TOXAPHENE, 6302
BHC (GAMMA), 2-(*p-tert* BUTYLPHENOXY)-ISOPROPYL-2'-CHLOROETHYL SULFITE, 1862, 4499
BHC (GAMMA), CHLORDANE, DDT, 2546
BHC (GAMMA), CHLORDANE, DDT, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 5095
BHC (GAMMA), DDT, 5692, 6442-3, 7270, 7289, 9376
BHC (GAMMA), DDT, DIAZINON, 1,1-BIS (CHLOROPHENYL) 2,2,2-TRICHLOROETHANOL, OIL, 5069
BHC (GAMMA), DDT, 2-4 DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, MALATHION, 946, 6811
BHC (GAMMA), DDT, DIELDRIN, 2,4-DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, MALATHION, 6773
BHC (GAMMA), DDT, MALATHION, TETRADIFON, 4020
BHC (GAMMA), DDT, OIL, 9292, 9377
BHC (GAMMA), DDT, PYRETHRINS, 9299
BHC (GAMMA), DDT, SULFUR, ZINEB, 9133
BHC (GAMMA), DDVP, OIL, 3202
BHC (GAMMA), DIAZINON, 6774
BHC (GAMMA), DIAZINON, MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATES, 2417, 7885
BHC (GAMMA), 2,4-DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, MALATHION, 6806
BHC (GAMMA), DIELDRIN, OIL, 8830
BHC (GAMMA), KELTHANE, 844.40
BHC (GAMMA), MALATHION, 844.30, 1521
BHC (GAMMA), MALATHION, METHOXYCHLOR, PYRETHRINS, 2401
BHC (GAMMA), MALATHION, OIL, 1639
BHC (GAMMA), MALATHION, TDE, 4411, 6267, 9082
BHC (GAMMA), METHOXYCHLOR, 400, 2409, 2410.50, 4786, 6788, 7769
BHC (GAMMA), METHOXYCHLOR, OIL, 726, 7901, 8425, 9386-7
BHC (GAAMA), ETHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 1877
BHC (GAMMA), METHOXYCHLOR, PYRETHRINS, 2410.40
BHC (GAMMA), METHYL ETHYL KETONE, METHYLATED NAPHTHALENES, OIL, 3205
BHC (GAMMA), METHYLATED NAPHTHALENES, OIL, ORGANIC THIOCYANATES, 7844
BHC (GAMMA), NALED, 5761
BHC (GAMMA), OIL, 101, 1105, 2967-8, 4336.50, 4021, 4519, 4944, 6355-7, 6747, 6874, 7257, 8227-30, 8412, 9384
BHC (GAMMA), OIL, ORGANIC THIOCYANATES, 535
BHC (GAMMA), OIL, TOXAPHENE, 5819, 8662
BHC (GAMMA), PINE OIL, ROTENOIDS, ROTENONE, 7927
BHC (GAMMA), TOXAPHENE, 240, 1941.93, 2712, 4593, 5038, 5242, 5366, 6304, 7027, 7301, 7308, 7761, 7920, 8774
2,3,4,5-BIS-(BUTYLENE) TETRAHYDROFURFUROL, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, PIPERONYL BUTOXIDE, PYRETHRINS, 1517
2,3,4,5-BIS-(2-BUTYLENE)-TETRAHYDROFURFUROL, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7446
1,1-BIS (*p*-CHLOROPHENYL) ETHANOL, 2081
BIS-(DIALKYLPHOSPHOIONTHIOYL) DISULFIDES, 5530
BORIC ACID, 5455
BORIC ACID, FORMALDEHYDE, OIL, PHENOL, 9226
BUTONATE, 6830
BUTONATE, DDVP, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8188
BUTONATE, OIL, 6831
BUTONATE, PIPERONYL BUTOXIDE, PYRETHRINS, 6887
2-(2-BUTOXYETHOXY) ETHYL THIOCYANATE, 7754
2-(2-BUTOXYETHOXY) ETHYL THIOCYANATE, MALATHION, 7764
BUTOXYPOLYPROPYLENE GLYCOL, 697.50
BUTOXYPOLYPROPYLENE GLYCOL, ETHER OF PINENE, ETHYLENE GLYCOL, HYDROGENATED ROTENONE, PIPERONYL BUTOXIDE, PYRETHRINS, 7752
BUTOXYPOLYPROPYLENE GLYCOL, ETHYLENE GLYCOL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 7785
BUTOXYPOLYPROPYLENE GLYCOL, ISOBORNYL THIOCYANO ACETATE, METHOXYCHLOR, 3536
BUTOXYPOLYPROPYLENE GLYCOL, METHOXYCHLOR, 2708, 7021

BUTOXYPOLYPROPYLENE GLYCOL, METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 5000
BUTOXYPOLYPROPYLENE GLYCOL, METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, 6251
BUTOXYPOLYPROPYLENE GLYCOL, METHYLATED NAPHTHALENES, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 484
BUTOXYPOLYPROPYLENE GLYCOL, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 935-6, 1166, 1952, 2954, 7316.50, 8632.50, 8651, 8663, 8720
BUTOXYPOLYPROPYLENE GLYCOL, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7926
BUTOXYPOLYPROPYLENE GLYCOL, PIPERONYL BUTOXIDE, PYRETHRINS, 4832, 6220, 7023, 7512, 7983.50, 7983.75, 9400.50
4-*tert*-BUTYL-2-CHLOROPHENYL METHYL METHYL PHOSPHORAMIDATE, 3546
BUTYL 3-4-DIHYDRO-2,2-DIMETHYL-4-OXO-1,2H-PYRAN-6-CARBOXYLATE, DIMETHYL PHTHALATE, 2-ETHYLHEXANEDIOL, 1114
2-(*p-tert*-BUTYLPHENOXY)-ISOPROPYL 2'-CHLOROETHYL SULFITE, 366.50, 367-8, 996-7, 1405, 2100.30, 4234.50, 4255.50, 4838.50, 4839, 5517, 5597, 5684, 5686, 7945-6
CALCIUM ARSENATE, 1363, 1409, 3351, 3457, 4240, 4347, 4611, 5456, 5476, 5533, 5627, 5705, 5834, 6103, 6422-3, 6519, 6530, 7456, 7534, 7595, 7605, 7639.50, 7687
CARBARYL, 44-5, 2164, 2194, 2554, 2589, 2589.50, 2683, 2901, 3414.50, 3548-9, 3937, 4916, 5050.50, 5908-9, 6287, 6804, 7025, 7588, 7682.50, 7682.70, 7862.60, 8061-2, 8062.50, 9011, 9137.75
CARBARYL, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 2248
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 1063, 1358.80, 1503-4, 1670, 1941.74, 2614, 2885-6, 3051, 4908, 5224, 5405, 5645, 5886, 5886.50, 6696, 7604.50, 8055, 8057, 8391, 8857, 8942-3
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, 3741
CARBON TETRACHLORIDE, MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 2113, 2114.80
CARBOPHENOTHION, 2591.50, 2939-40, 3063, 3065, 4153.79, 5952-3, 8011, 8098.50, 8098.60, 8098.70, 8099, 8100.50, 8101, 8318.70
CARBOPHENOTHION, DDT, 3135
CARBOPHENOTHION, OIL, 7635.50
CHLOROBENSIDE, 5856.50
CHLOROBENSIDE, DIAZINON, 5690
CHLORDANE, 20-1, 80-3, 85-6, 131, 136, 203-5, 366, 378, 389, 405, 482, 500, 505-6, 585, 613, 639, 660, 730, 732-3, 794, 806, 837, 938, 1005-6, 1009, 1080.34, 1121-2, 1161-3, 1159, 1219-23, 1255-7, 1358.20, 1358.22, 1358.24, 1358.26, 1368-9, 1415-8, 1549.50, 1586, 1619-21, 1694-5, 1815, 1861, 1842, 1899, 1941.19, 1942-3, 2100.20, 2182, 2195, 2222, 2425, 2429-30, 2569-70, 2609, 2623-4, 2623.50, 2731, 2740-2, 2956-7, 2996, 3001, 3082, 3094, 3203-4, 3208, 3587, 3653, 3681-3, 3786-7, 3808, 3927, 4071, 4093, 4148, 4243, 4245-6, 4261, 4412, 4508, 4516, 4521-4, 4616-8, 4697, 4845, 4848, 4953-4, 5094, 5119, 5125, 5265, 5373, 5479-80, 5712-3, 5986-7, 6106-9, 6199, 6202-4, 6322-3, 6325-6, 6395-7, 6399, 6701, 6715, 6724, 6753-4, 6839-41, 6582, 6939, 7100, 7107-8, 7121-2, 7158, 7170-1, 7176-9, 7330-3, 7359, 7542, 7690-2, 7832, 7736-7, 7740, 7908.50, 7971-4, 8109, 8112-4, 8263.90, 8814, 8816, 8877, 8244-5, 8264, 8320, 8328, 8344, 8483, 8649-50, 8697-8, 8813, 8875-6, 8987-9, 9149, 9042-3, 9099, 9303, 9222-3, 9374, 9382, 3780-1
CHLORDANE, DDT, 423, 1947, 8400
CHLORDANE, DDT, MALATHION, OIL, 3955
CHLORDANE, DDT, METHYLATED NAPHTHALENES, OIL, 1886
CHLORDANE, DDT, OIL, 3207, 7838.60, 7897
CHLORDANE, DDT, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8236
CHLORDANE, DDT, OIL PYRETHRINS, 2273, 4582
CHLORDANE, DDT, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, ORTHO-DICHLOROBENZENE, PIPERONYL BUTOXIDE, PYRETHRINS, 748
CHLORDANE, DIAZINON, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 1645
CHLORDANE, DIAZINON, OIL, PYRETHRINS, 3592
CHLORDANE, DIELDRIN, MALATHION, TOXAPHENE, XYLENE, 2178
CHLORDANE, DI-*n*-PROPYL MALEATE ISOSAFROLE CONDENSATE, OIL, 7487
CHLORDANE, ETHYL HEXANEDIOL, OIL, ORGANIC THIOCYANATES, PYRETHRINS, 6136
CHLORDANE, ISOBORNYL THIOCYANOACETATE, OIL, 2966
CHLORDANE, HEPTACHLOR, 8785
CHLORDANE, MALATHION, OIL, ORGANIC THIOCYANATES, 769
CHLORDANE, MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7379
CHLORDANE, OIL, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, PIPERONYL BUTOXIDE, PYRETHRINS, 7384, 8873

958870250

CHLORDANE, OIL, 339-40, 343, 507, 697, 761, 1108, 1358.14, 1554, 1559, 1622-3, 1941.18, 2277, 2279.50, 2958-9, 3425, 3994, 4246.50, 4506, 4956, 5564, 5985, 6020, 6096, 6398, 6711, 6838, 7101-3, 7153-4, 7385, 7451, 7453, 7499, 7653, 7655, 7659, 7664, 8423-4, 8695, 8878, 9378, 9381
CHLORDANE, OIL, ORGANIC THIOCYANATES, 3644
CHLORDANE, OIL, ORTHODICHLOROBENZENE, PIPERONYL BUTOXIDE, PYRETHRINS, 731
CHLORDANE, OIL, PENTACHLOROPHENOL, 1637, 2275
CHLORDANE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 988, 2076, 2219, 3283, 4507, 7484, 8237
CHLORDANE, ORGANIC THIOCYANATES, 4001
CHLORDANE, ORGANIC THIOCYANATES, PYRETHRINS, 4149
CHLORDANE, PIPERONYL BUTOXIDE, PYRETHRINS, 4834
CHLOROBENZENESULFONAMIDE, 3325, 3337
CHLOROBENZILATE, 844.20, 3296, 3296.50, 3297-8, 6842-3, 7109
2-CHLORO-1-(2,4-DICHLOROPHENYL VINYL PHOSPHATE, 273.20
CHLORONAPHTHALENES, 3250
p-CHLOROPHENYL BENZENE SULFONATE, 6474
p-CHLOROPHENYL PHENYL SULFONE, 8077-8
COAL TARS, 328.50
COAL TAR ACIDS, COAL TAR HYDROCARBONS, SOAP, 664
COAL TAR NEUTRAL OILS, COAL TAR PHENOLS, SOAP, 4565, 7319
COAL TAR NEUTRAL OILS, SOAP, 6150
COPPER ACETOARSENITE, 1295, 1502, 1597, 4351, 7603, 7701
CRESYLIC ACID, DDT, OIL, 488
CRYOLITE, 1358.28, 2806, 4231.80, 4269, 5460, 6483, 6533
DDT, 27, 87, 91, 168, 210-1, 234, 379, 391, 413, 508, 614.50, 629, 663, 941, 1023, 1032, 1080.50, 1080.60, 1101, 1145, 1167, 1170, 1261-2, 1271-2, 1330-1, 1337, 1323-5, 1327-9, 1358.56, 1358.57, 1374-5, 1439.42, 1448-9, 1624, 1626, 1662-3, 1686, 1706-7, 1843, 1892-3, 1941.24, 1941.25, 1941.28, 1941.29, 1941.35, 1978-9, 1981, 2015, 2171, 2186, 2435-7, 2574, 2610, 2627, 2629.50, 2771, 2773-4, 3005, 3007, 3102, 3206, 3478, 3588, 4514, 4517, 4567-8, 4630-1, 4632-3, 4634, 4703, 4852, 4854, 4967, 4970, 5135-6, 5138, 5186, 5258, 5260, 5367, 5384, 5513, 5525, 5569-71, 5609.11, 5625, 5733, 5738, 5744, 5747-8, 6029, 6034, 6127-8, 6135, 6213-4, 6218, 6321-2, 6369-70, 6373, 6445, 6448-9, 6581, 6583, 6662, 6760, 6765, 6854-6, 6941, 6945, 7010, 7262, 7263-4, 7267, 7271, 7318, 7335-6, 7396, 7403, 7502, 7552, 7744-5, 7771, 7913, 7987, 7987.50, 7992-3, 8249, 8276-9, 8321, 8331, 8350, 8360, 8706, 8879-81, 8884-5, 8924-5, 8984, 9006, 9052, 9054, 9056, 9057, 9234, 9375, 9421, 1358.38, 1903, 3480
DDT, 4,4'-DICHLORO *alpha* TRICHLOROMETHYLBENZHYDROL, LINDANE, MALATHION, METHYL NAPHTHALENES, OIL, 631
DDT, 4,4'-DICHLORO *alpha* TRICHLOROMETHYLBENZHYDROL, MALATHION, 5881.50
DDT, 4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, OIL, 5794
DDT, 2,4-DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, LINDANE, MALATHION, 2576.50
DDT, 2,4-DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, MALATHION, 6805, 6087-8
DDT, DIELDRIN, 5142, 7278
DDT, DIMETHOATE, 2246
DDT, O,O-DIMETHYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, 8046.20
DDT, O,O-DIMETHYL S-*p*-CHLOROPHENYL THIOMETHYLPHOSPHORODITHIOATE, 7634, 8042-3, 8046
DDT, O,O-DIMETHYL O-*p*-NITROPHENYL PHOSPHOROTHIOATE, OIL, TOXAPHENE, 5941
DDT, DI-*n*-CHLOROBENZENE SULFONATE, 271-2, 3321, 7004
DDT, N,N-DI-*n*-BUTYL-*p*-CHLOROBENZENESULFONAMIDE, METHYL NAPHTHALENES, PYRETHRINS, SULFOXIDE, 6744
DDT, DI-*n*-BUTYL-*p*-CHLOROBENZENE SULFONATE, METHYLATED, NAPHTHALENES, PIPERONYL BUTOXIDE, PYRETHRINS, 273
DDT, N,N-DI-*n*-BUTYL-*p*-CHLOROBENZENESULFONAMIDE, OIL, 6362
DDT, N,N-DI-*n*-BUTYL-*p*-CHLOROBENZENESULFONAMIDE, OIL, PYRETHRINS, SULFOXIDE, 6743
DDT, ENDOSULFAN, MALATHION, TETRADIFON, 45.50
DDT, ENDRIN, 1080.28, 1091.30, 4651, 6450, 8436
DDT, ENDRIN, METHYL PARATHION, 8440
DDT, ETHION, 1362.50
DDT, HEPTACHLOR, METHYL PARATHION, 5240
DDT, LEAD ARSENATE, SULFUR, 6770

DDT, MALATHION, 9048
DDT, MALATHION, OIL, 2758
DDT, MALATHION, ORGANIC THIOCYANATES, PINE OIL, OIL, 762, 767
DDT, MALATHION, TOXAPHENE, 4570
DDT, METHYL NAPHTHALENE, 5512, 6851
DDT, METHYL NAPHTHALENES, OIL, 6668, 9379
DDT, METHYLATED NAPHTHALENES, OIL, ORGANIC THIOCYANATES, 575, 3190, 7325
DDT, METHYL PARATHION, 1443, 1698-9, 7584, 8277.60, 9046-7, 9051
DDT, METHYL PARATHION, OIL, TOXAPHENE, 7622.75
DDT, METHYL PARATHION, TERPENE POLYCHLORINATES, 1391
DDT, METHYL PARATHION, TOXAPHENE, 1390, 2757, 6444, 7545, 8439, 9050
DDT, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 2154, 6592
DDT, N,N-DIBUTYL-*p*-CHLOROBENZESULFONAMIDE, 1941.23
DDT, OIL, 89, 148-8, 392, 392.70, 412, 566, 1080.60, 1102, 1358.40, 1444, 1625, 1980, 2960, 3394, 4518, 5382, 5916, 6371, 6593, 6620, 6756, 6801, 7112, 8216-7, 8413-4, 8685, 8702, 9378
DDT, OIL, ORGANIC THIOCYANATES, 7503, 8874
DDT, OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATES, 4985
DDT, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 1880, 6815, 8226, 8235
DDT, OIL, PYRETHRINS, 3396
DDT, OIL, PYRETHRINS, SESAMIN, 8691
DDT, OIL, TOXAPHENE, 4969, 5940
DDT, ORGANIC THIOCYANATES, 2101, 5332, 6129, 6221, 6237, 7353
DDT, ORGANIC THIOCYANATES, PYRETRINS, 402
DDT, ORTHODICHLOROBENZENE, 1115
DDT, PARATHION, 1445
DDT, PHOSPHAMIDON, 3934.50
DDT, PIPERONYL BUTOXIDE, PYRETHRINS, 8225
DDT, PYRETHRINS, 1146, 1582, 3291
DDT, ROTENONE, 5259
DDT, TERPENE POLYCHLORINATES, 1525, 5101, 7989
DDT, TOXAPHENE, 32, 155, 212, 1076, 1080.50, 1301, 1710, 2775, 3160, 3160.60, 4731, 5383, 6544-5, 7630, 7991, 8432, 8948, 9049
DDVP, 213-4, 221-2, 230, 256, 727.50, 844.60, 1648, 1651, 1733-5, 1941.96, 1941.97, 3165.30, 3193.50, 3210, 3760-3, 4009, 5270, 6766, 6818-20, 6817.50, 6818.50, 6857, 7238, 7337, 7784, 8824, 9263, 9265, 9305.75, 9439
DDVP, DIAZINON, 2410.05, 2410.30
DDVP, DIAZINON, DIELDRIN, 201-2
DDVP, DIAZINON, LINDANE, 2415
DDVP, DIAZINON, PERCHLORETHYLENE, 2410.35
DDVP, 1,1-DICHLORO-2,2-BIS (*p*-ETHYLPHENYL) ETHANE, 7130-1
DDVP, 1,1-DICHLORO-2,2-BIS (*p*-ETHYLPHENYL) ETHANE, OIL, 4549-50
DDVP, DIELDRIN, 7237
DDVP, DIELDRIN, OIL, 567-8
DDVP, DIELDRIN, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 6796
DDVP, HEXAHYDROL DIBENZOFURANCARBOXADEHYDE, 233
DDVP, OIL, 727.70, 3403.50, 3417, 5077-9, 8184.50, 9262.50
DDVP, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 9095
DDVP, OIL, TRICHLOROETHANE, 1649
DDVP, PIPERONYL BUTOXIDE, PYRETHRINS, TETRACHLOROETHANE, 2390.50
DDVP, RONNEL, 250
DECACHLOROOACTAHYDRO-1,3,4-METHENO-2H-CYCLOBUTA (CD) PENTALEN-2-ONE, 98.70, 274.45
DEMETON, 8442
DIAZINON, DIELDRIN, 4152
DIAZINON, ISOBORNYL THIOCYANOACETATE, 2965
DIAZINON, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 200, 1113, 7343-4, 9221
DIAZINON, OIL, 94, 2693-4, 6863.50, 7192, 7452
DIAZINON, OIL, ORGANIC THIOCYANATES, 4010, 7491
DIAZINON, OIL, ORTHODICHLOROBENZENE, PIPERONYL BUTOXIDE, PYRETHRINS, RONNEL, 4996
DIAZINON, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 987, 8219.50, 8238, 8408, 8825
DIAZINON, PIPERONYL BUTOXIDE, 9428
DIAZINON, PIPERONYL BUTOXIDE, PYRETHRINS, 365, 544, 6238, 6288, 6759, 7778, 9301
N,N-DI-*n*-BUTYL-*p*-CHLOROBENZENESULFONAMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8224

958870251

N-DI-*n*-BUTYL-*p*-CHLOROBENZENESULFONAMIDE, PIPERONYL BUTOXIDE, PYRETHRINS, 8223
DI-*n*-BUTYL SUCCINATE, N-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 708
DI-*n*-BUTYL SUCCINATE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 4479, 4965, 6174, 8159, 8419
DI-*n*-BUTYL SUCCINATE, OIL, PYRETHRINS, 4590
DI-*n*-BUTYL SUCCINATE, PIPERONYL BUTOXIDE, PYRETHRINS, 3405, 3686, 8158
DI-*n*-BUTYL SUCCINATE, PYRETHRINS, 411, 2385.50, 4153
DICAPTHON, 6375-6, 7110
DICAPTHON, OIL, 95, 216, 7111
DICAPTHON, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8219
DICAPTHON, SYNERGIZED PYRETHRINS, 6374
p-DICHLOROBENZENE, NAPHTHALENE RESIN SOAP, SULFONATED VEGETABLE OIL, 6792
p-DICHLOROBENZENE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 3287
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLENE) ETHANE, 3737, 4906, 6577, 7141-2
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, DIETHYLDIPHENYL DICHLOROETHANE, 6576
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, *p*-DIOXANEDITOL-BIS-(O,O-DIETHYLPHOSPHORODITHIOATE), DODECYLBENZENESULFONATE, OIL, PINE OIL, 4062
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE ,MALATHION, 3738, 4907, 7129
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, MALATHION, OIL, 7132
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, OCTYL SULFOXIDE OF ISOSAFROLE, PYRETHRINS, 7020
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL ETHANE, OIL, ORGANIC THIOCYANATES, 8752
1,1-DICHLORO-2,2-BIS-(*p*-ETHYLPHENYL) ETHANE, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, HYDROGENATED ROTENONE, 7775
Alpha-DICHLOROMETHYL-4,4'-DICHLOROBENZHYDROL, MALATHION, METHOXYCHLOR, OIL, 4987
2,4-DICHLOROPHENYL ESTER OF BENZENESULFONIC ACID, 5623-4
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, 1959, 2805, 4056, 4058-60, 5573, 6239, 7571
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, MALATHION, TDE, 2320
4,4'-DICHLORO-*alpha*-TRICHLOROMETHYLBENZHYDROL, TOXAPHENE, 2383
DIELDRIN, 24, 96-7, 138, 169, 217, 414, 616, 959, 1035, 1035.50, 1080.64, 1104, 1136-7, 1172, 1273-4, 1358.62, 1376-7, 1452-5, 1589, 1627, 1629, 1665, 1711, 1941.30, 1941.32, 1941.33, 1948, 2065.50, 2543, 2573, 2633, 2636, 2782-3, 3009, 3011, 3108, 3696, 3700, 3784, 3816, 3938, 4252-3, 4643-4, 4645, 4707-8, 4857, 4861-2, 4975, 5150, 5385, 5572, 5612-3, 5772, 6192, 6215, 6217, 6329, 6377, 6462-3, 6585, 6758, 6763, 6862, 6864, 6946-7, 7115, 7117, 7175, 7181, 7273, 7282, 7338, 7556-7, 7693-4, 7743, 7998, 8001, 8118, 8151, 8281, 8321.50, 8355, 8357, 8430, 8653, 8707, 8709, 8787, 8831, 8886, 8896, 8921, 8986, 9060, 9064, 9235
DIELDRIN, LINDANE, MALATHION, 8719
DIELDRIN, MALATHION, PIPERONYL BUTOXIDE, PYRETHRINS, 6793
DIELDRIN, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 750
DIELDRIN, OIL, 1628, 2067, 4973, 5768, 5770, 6033, 6664, 7116, 9380
DIELDRIN, OIL, TDE, 669, 5933, 8726
DIELDRIN, PIPERONYL BUTOXIDE, PYRETHRINS, 5807
DIELDRIN, TDE, 1083.65, 9146
O,O-DIETHYL O-(3-CHLORO-4-METHYL-1-OXO-2H-1-BENZOPYRAN-7YL) PHOSPHOROTHIOATE, 1618, 3463, 7005-6
O,O-DIETHYL O-(2,4-DICHLOROPHENYL) PHOSPHOROTHIOATE, 6551-2, 9274
DIMETHOATE, 389.50, 3452.60, 3466.50, 6848
3-(DIMETHOXYPHOSPHINYLOXY) N,N-DIMETHYL-*cis*-CROTONATE, 7959.50, 8263.50
4-DIMETHYLAMINO-3,5-XYLYL METHYLCARBAMATE, 9477.50, 9477.75
O,O-DIMETHYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, 8046.30, 8046.40
O,O-DIMETYL S-(*p*-CHLOROPHENYLTHIO) METHYL PHOSPHORODITHIOATE, DDT, 7633
O,O-DIMETHYLO-(4-METHYLTHIO) *m*-TOLYL PHOSPHOROTHIOATE, 98.50, 533, 2331, 3453, 5025.50, 6866-7, 7003
O,O-DIMETHYL S-4-OXO-1,2,3-BENZOTRIAZIN-3-(4H)-YL METHYL PHOSPHORODITHIOATE, 3496-7, 3597-8
DINITROPHENOL, 2368
DINITRO PHENYL CROTONATE, METHOXYCHLOR, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PYRETHRINS, ROTENOIDS, ROTENONE, 1119

2,3-*p*-DIOXANE S,S-BIS (O,O-DIETHYL PHOSPHORODITHIOATE), 135, 137, 255, 2776-7, 3481, 4067, 7742, 7918
2,3-*p*-DIOXANE S,S-BIS (O,O-DIETHYL PHOSPHORODITHIOATE), MALATHION, TOXAPHENE, 241
DIOXATHION, 3481.50, 8279.60
DI-*n*-PROPYL ISOCINCHOMERONATE, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, 8392
DI-*n*-PROPYL ISOCINCHOMERONATE, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 2238
DI-*n*-PROPYL ISOCINCHOMERONATE, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 6768
DI-*n*-PROPYL ISOCINCHOMERONATE, *n*-OCTYL BICYCLOHEPTENE DICARBOXIMIDE, PIPERONYL BUTOXIDE, 8347
DI-*n*-PROPYL ISOCINCHOMERONATE, PIPERONYL BUTOXIDE, PYRETHRINS, 7014
DMC, 25, 6465
ENDOSULFAN, 189, 2559-60, 2689-90, 2934-6, 3374-5, 3555.50, 3832-3, 4919, 4922, 5932.50, 7621, 7622.50, 8313.50, 8769, 9150-1
ENDOSULFAN, OIL, 2259, 5932
ENDRIN, 98, 150, 170, 666, 1042, 1082.60, 1138, 1275, 1358.64, 1687, 1702, 1941.36, 1995, 2327, 2611, 2638-9, 2787, 3013, 3114, 3339, 3488, 3702, 3818, 4331, 4653, 4709, 4868-9, 5155, 5390, 5615-6, 6035, 6219, 6473, 6865, 6950, 7182, 7285, 7698, 8004-5, 8281.70, 8363, 8678, 8833, 8923, 9070-1, 9237
ENDRIN, DDT, METHYL PARATHION, 8318.50, 6482
ENDRIN, METHYL PARATHION, 1719, 4652, 6507, 7284, 9236
ENDRIN, OIL, 4981, 5782, 6672, 8415, 8711
EPN, 2191, 2334, 2788, 3704, 7591, 9448
ETHION, 2530, 2535, 2640-1, 2789-90, 3015-7, 3340, 3931, 5497, 5788, 8007.50, 8250.50, 8250.75, 9077, 9079
ETHION, OIL, 4129, 5786, 7589, 9297
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, DI-*n*-BUTYL SUCCINATE, PIPERONYL BUTOXIDE, PYRETHRINS, 2388
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, HEXAHYDROLDIBENZOFURANCARBOXADEHYDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 228-9
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, METHOXYCHLOR, ORGANIC THIOCYANATES, PERCHLOROETHYLENE, PIPERONYL BUTOXIDE, PYRETHRINS, 2410.25
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, OIL, PARADICHLOROBENZENE, PIPERONYL BUTOXIDE, PYRETHRINS, 3215
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, PERCHLOROETHYLENE, PIPERONYL BUTOXIDE, PYRETHRINS, 2410.45
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 406, 461.50, 718, 753-4, 2155, 2257, 3214, 4489, 5585, 5598, 8183, 8185, 8888, 8891, 9266
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, PIPERONYL BUTOXIDE, PYRETHRINS, 1941.78, 2398, 2410, 2410.10, 5365, 6314.30, 6314.60, 6314.70, 7334, 7341, 7354-5, 7357
N-2-ETHYLHEXYL BICYCLO 2,2,1-5-HEPTENE-2,3-DICARBOXIMIDE, PYRETHRINS, 7085-6
HEPTACHLOR, 171, 831, 895, 1045, 1083.60, 1213-4, 1277-80, 1358.66, 1908, 1941.47, 1941.48, 1941.53, 2073.50, 2167, 2649, 2796, 2799, 3023, 3025, 3116, 3499-500, 3504-5, 3516, 3712, 4422-3, 4658, 4711, 4873, 4995, 5165, 5169, 5626, 5801, 5804, 6335, 6477, 6764, 6869-70, 6952, 7342, 7404, 7566, 7696, 7753, 8016, 8018, 8046.50, 8046.80, 8152, 8289, 8322, 8370-1, 8374, 8783, 8835, 9089
HEPTACHLOR, METHYLATED NAPHTHALENES, 579
HEPTACHLOR, OIL, 6042, 6772, 8409, 8722, 9091
1,5a,6,9,9a,9b-HEXAHYDRO-4a-(4H)-DIBENZOFURANCARBOXALDEHYDE, ORGANIC THIOCYANATES, PINE OIL, PYRETHRUM, 7403.50
1,5a,6,9,9a,9b-HEXAHYDRO-4a-(4H)-DIBENZOFURANCARBOXALDEHYDE, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 7009
1,5a,6,9,9a,9b-HEXAHYDRO-4a-(4H)-DIBENZOFURANCARBOXALDEHYDE, PYRETHRINS, 209, 246
2-HYDROXYETHYL-*n*-OCTYL SULFIDE, 2384.50
ISOBORNYL THIOCYANOACETATE, 7783
ISOBORNYL THIOCYANOACETATE, OIL, PINE OIL, 672
ISOBORNYL THIOCYANOACETATE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 395
LEAD ARSENATE, 16, 376, 514-5, 1281, 1384, 1470, 1590, 1659, 2538, 2577, 2618, 3452, 3676, 4361, 4840, 5462, 5604, 5634, 6137, 6241, 7466, 7572-3, 7688, 8063, 8263.60, 8378, 9101

958870252

LEAD ARSENATE, BASIC, 4235, 5605, 5688
MAGNESIUM ARSENATE, 5463
MAGNESIUM FLUOSILICATE, 2974
MALATHION, 34, 104-6, 108, 140-1, 242-4, 381, 398, 523, 586, 627, 717, 742, 950, 1051-2, 1055, 1087.15, 1124, 1152, 1188, 1283-5, 1385, 1482, 1485-9, 1592, 1638, 1673-4, 1863, 1954, 1941.60, 1941.61, 1941.62, 2098, 2100.40, 2102, 2180, 2251, 2540-1, 2579, 2580, 2658-60, 2707, 2812, 2184-6, 2858, 3029-30, 3125, 3359-60, 3433, 3524-5, 3711, 3718-9, 3736, 3822, 3996, 3945, 4153.10, 4855, 4339-41, 4343, 4345, 4428-30, 4510, 4526-7, 4540.50, 4543-6, 4576, 4660, 4665-6, 4715-6, 4884-7, 4989, 5016-8, 5184-5, 5262, 5394, 5576, 5632-4, 5797, 5838-40, 5846, 6049-51, 6143, 6160, 6254-6, 6333-4, 6382-3, 6385, 6491, 6495-7, 6782-4, 6879-82, 6885, 7029-31, 7151-2, 7185, 7189, 7197, 7290-1, 7346, 7407, 7448, 7579-80, 7697-8, 7756-7, 7759-60, 7915-6, 8030-2, 8031.50, 8130, 8132, 8231, 8251, 8191.50, 8291.75, 8292, 8323, 8382, 8384, 8660, 8734-5, 8738, 8842-4, 8890, 8929-33, 8998-9, 9108, 9110, 9112-4, 9242, 9385
MALATHION, METHOXYCHLOR, 2200.50, 4881, 9073
MALATHION, METHOXYCHLOR, METHYLATED NAPHTHALENES, 346
MALATHION, METHOXYCHLOR, OIL, 342, 3411
MALATHION, METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, 6268
MALATHION, METHYLATED NAPHTHALENES, 347, 2969
MALATHION, METHYLATED OIL, 6786
MALATHION, METHYLENE CHLORIDE, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 1878
MALATHION, OIL, 107, 1713, 2189, 2907, 3410, 4342, 4511, 4542, 5842, 6381, 6785, 6787, 6883, 7190, 7204-5, 7347, 7892, 8209, 8416, 8418
MALATHION, OIL, ORGANIC THIOCYANATES, 408, 763, 3415, 6789, 8186-7, 8220, 8828
MALATHION, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 8221, 8756
MALATHION, OIL, TOXAPHENE, 4061, 7921, 8661
MALATHION, ORGANIC THIOCYANATES, 4153.11, 4153.12, 7755, 8382.25, 9402
MALATHION, PINE OIL, 8208
MALATHION, PIPERONYL BUTOXIDE, PYRETHRINS, 8242, 9390, 9401
MALATHION, TDE, 6301
MALATHION, TOXAPHENE, 1177, 1522, 1727, 5040, 6188, 6490, 8658
METHOXYCHLOR, 382, 675, 1087.25, 1190, 1740, 2202.50, 2544-5, 2666, 3126, 3307, 3309, 3531, 3724, 3793, 4555, 4556, 4889, 5021, 5194, 5636-7, 6144-5, 6259-61, 7135, 7292, 7348, 7408, 7815, 8039, 8369, 8386-7, 8589-90, 8740-1, 9388
METHOXYCHLOR, OIL, 7136
METHOXYCHLOR, OIL, ORGANIC THIOCYANATES, 1941.38, 2113.30
METHOXYCHLOR, OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 5793
METHOXYCHLOR, OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 7164
METHOXYCHLOR, ORGANIC THIOCYANATES, PYRETHRINS, 8365
METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, 2592.50, 7372
METHOXYCHLOR, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 1116
METHOXYCHLOR, ROTENONE, ZINEB, 2204
Alpha-METHYLBENZYL-3-(DIMETHOXYPHOSPHINYLOXY)-*cis*-CROTONATE, 206, 695.50, 1941.20, 2702.50, 3098.50, 4204, 6762.50, 6844, 7413
Alpha-METHYLBENZYL-3-(DIMETHOXYPHOSPHINYLOXY)-*cis*-CROTONATE, OIL, 4063, 5039, 7577.50, 7928, 9140.50
METHYL PARATHION, 151, 188, 1087.50, 1292-4, 1491-2, 1700, 1718, 1941.63, 1941.64, 2820, 3128, 5196, 5397, 6500-1, 7293-4, 8039.70, 8039.80, 8039.90, 8292.50, 8846, 8938, 9116-7, 9245
METHYL PARATHION, OILS, 5853
METHYL PARATHION, TOXAPHENE, 8040.70
6-METHYL-2,3-QUINOXALINEDITHIOL CYCLIC CARBONATE, 5328
METHYL NAPHTHALENES, PINE OIL, ROTENONE, 239
METHYL NAPHTHALENES, PINE OIL, PINENE ETHER, PIPERONYL BUTOXIDE, PYRETHRINS, 7777
METHYL NAPHTHALENES, ROTENOIDS, ROTENONE, 4586
NALED, 844.50, 1451, 3335, 3495.50, 5753, 5756.50, 5762.50, 7995
NICOTINE, 9, 383, 526, 583, 965, 1594, 2375-6, 3576, 4070, 7474, 9119
NICOTINE, OIL, 28, 1961
NICOTINE, OIL, PINE OIL, 1960
NICOTINE, OIL, PINE OIL, VEGETABLE OIL, 6791
NICOTINE, PHENOLS, SODIUM CYANIDE, 5553
2-NITRO-1,1-BIS (*p*-CHLOROPHENYL) BUTANE, 2-NITRO-1,1-BIS (*p*-CHLOROPHENYL) PROPANE, 4977-8, 5773
OIL, ANTHRACENE, 4561
OIL, AROMATIC, 5264
OIL, PARAFFINIC (SUPERIOR), 26, 619, 1173, 2684, 4431, 4911, 5263.50, 6532, 6534, 6813-4, 6927-8, 7620, 8195-6, 8311, 9143

OIL, 278, 531-2, 701, 1037-8, 1070, 1827, 1837, 2258, 2307-12, 2347-52, 2438, 2575, 2713, 2827, 3021-2, 3055, 3179, 3948-9, 4205-6, 4254, 4335, 4439-40, 4447-50, 4460-2, 4468, 4471-3, 4979, 5065, 5068, 5495, 5514, 5526, 5858, 5989-95, 6802, 6812, 7548, 7596, 8198, 8293, 8651, 9140, 9291, 9293-5, 9295.50, 9296, 9298
OIL, ORGANIC PHOSPHATE, 4157
OIL, ORGANIC THIOCYANATES, 7133, 7838.70
OIL, ORGANIC THIOCYANATES, PINE OIL, PYRETHRINS, 6173
OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 768, 3593
OIL, ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, RONNEL, TERPENE, POLYCHLORINATES, 5001
OIL, PHENOL, 7485
OIL, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 3642, 5726
OIL, PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, VEGETABLE OIL, 6762
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 227, 231, 247-8, 252, 394, 401, 407, 480, 596, 604, 608, 704-5, 715, 719-20, 722-4, 765, 962, 1642-4, 1646-7, 1879, 2071, 2077, 2113.15, 2114.10, 2278, 3260, 3285, 3289-90, 3423, 3426, 3568, 3992, 4008, 4011, 4030, 4053, 4801, 4871-2, 5086.30, 5086.60, 5600, 6009 ,6313 ,6730, 6794-5, 7149, 7321, 7327, 7383.50, 7503.30, 7503.40, 7524, 7710, 7747, 7837, 7842-3, 7861, 7886-7, 7891, 7895-6, 7899-900, 8189, 812-4, 8222, 8233-4, 8239, 8644-5, 8733, 8764, 9104, 9362, 9383, 9392-4, 9398, 9400, 9461
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, RONNEL, 8241
OIL, PIPERONYL BUTOXIDE, PYRETHRINS, TERPENE POLYCHLORINATES, 737
OIL, PYRETHRINS, 6121, 7503.50
OIL, PYRETHRINS, ROTENOIDS, ROTENONE, 6641
OIL, PYRETHRINS, SULFOXIDE, 6921
OIL, RONNEL, 1868
OIL, ROTENOIDS, ROTENONE, 5534
OIL, ROTENONE, 4445-6, 4463-4
OIL, TDE, 6713
OIL, TETRADIFON, 5929
OIL, TOXAPHENE, 153-4, 4592, 6065, 6721, 7922
ORGANIC THIOCYANATES, 4200, 6250
ORGANIC THIOCYANATES, OIL, 7889
ORGANIC THIOCYANATES, PIPERONYL BUTOXIDE, PYRETHRINS, 2410.20
ORGANIC THIOCYANATES, PYRETHRINS, 3267
OVEX, 1689, 5263, 5999, 8049, 8926
PARATHION, 527, 1087.70, 1059, 1061, 1126, 1288-91, 1342, 1340, 1338-9, 1358.74, 1358.76, 1466, 1494, 1498-501, 1678, 1721, 1941.67, 1941.68, 1941.69, 1941.70, 1941.71, 2552, 2672, 2674-5, 2835, 2846-7, 2849-50, 3020, 3039-41, 3047, 3050, 3450, 3729-30, 3733, 4350.60, 4720-1, 4899-902, 5033, 5035, 5212-3, 5404, 5529, 5640-4, 5865-8, 5876-7, 5996, 6054-5, 6149, 6514-7, 7585, 7601, 7699-700, 8051-3, 8253-4, 8295, 8051.50, 8051.75, 8052.50, 8053.30, 8324, 8329, 8390, 8436-7, 8636, 8743, 8850-2, 8915, 8917, 9121-4, 9238, 9431
PARATHION, TDE, 2859, 2872
PARATHION, TOXAPHENE, 5227
PINE OIL, 6271
PINE OIL, PIPERONYL BUTOXIDE, PYRETHRINS, 9275
PINE OIL, PYRETHRINS, ROTENONE, 3213
PINE OIL, RONNEL, XYLENE, 4218
PINE OIL, SOAP, 6101, 6153
PIPERAZINE HYDROCHLORIDES, 3651
PIPERONYL BUTOXIDE, 2619, 2646
PIPERONYL BUTOXIDE, POLYOXYETHYLENE SORBITOR MIXED ETHER ESTER, PYRETHRINS, 1633, 1636
PIPERONYL BUTOXIDE, PYRETHRINS, 66-8, 71, 403, 420, 476, 545, 576, 713-4, 1518, 1631, 1941.39, 1941.77, 2403, 2670, 2703, 2709, 2973, 2978, 3072, 3200, 3209, 3635, 3685, 3773, 3789, 4029, 4504, 4833, 5160, 6116, 6168, 6206, 6262, 6274-6, 6752, 6769, 6781, 7047-8, 7087, 7125, 7526, 7770, 7881, 8059, 8123, 8128, 8138, 8144, 8215, 8334, 8349, 9127
PIPERONYL BUTOXIDE, PYRETHRINS, RONNEL, 362, 989, 2410.65, 3632, 6800
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENOIDS, ROTENONE, 687
PIPERONYL BUTOXIDE, PYRETHRINS, ROTENONE, 588
PIPERONYL BUTOXIDE, PYRETHRINS, TETRACHLOROETHYLENE, TRICHLOROETHYLENE, 6232
PIPERONYL BUTOXIDE, PYRETHRINS, TOXAPHENE, 6305
PIPERONYL BUTOXIDE, ROTENONE, 1143
PIPERONYL BUTOXIDE, ROTENOIDS, ROTENONE, 7567
PYRETHRINS, 116-7, 119, 1581, 4153.62, 6403, 7088, 7201, 7768
PYRETHRINS, ROTENONE, 6970
PYRETHRUM, 6590
PYRETHRUM, ROTENONE, 384

958870253

RONNEL, 15.40, 1941.54, 4215, 7039, 7123, 7150, 7414
RONNEL, OIL, 5047
ROTENOIDS, ROTENONE, 727, 1941.13, 2200, 2681, 3647, 4356.50, 5707, 5903, 6057, 6911-2, 8397, 9136
ROTENONE, 493, 925, 1090.70, 1139-42, 1144, 1196, 1334-5, 1509, 1685, 2555, 2890, 3547, 4153-54, 4291, 4910, 5236, 6283-5, 6347, 6378-80, 6845, 6847, 7206-7, 7607, 7748, 9137
RYANIA, 3752
SOAP, SODIUM ARSENITE, SODIUM, CRESYLATE, 442
SODIUM FLUORIDE, 7383
SODIUM SELENATE, 6646
SULFOTEPP, 2379
SULFUR, 8027, 8256
TDE, 477, 844.70, 1090.50, 1191-2, 1436, 1683, 2433, 2686, 2765, 2767, 3155, 3469-70, 5231, 5410, 5568, 5657-8, 5926, 7362-3, 7547, 7559, 8082-3, 8326, 8403, 8754, 9147-8
TEPP, 1071, 1532-3, 2919, 3059, 4363, 4878, 5542, 5660, 5930.50, 7706, 8862, 8945-6, 9271
TERPENE POLYCHLORINATE, 1524, 5242.60, 7159-60, 8063.50, 8887
TETRADIFON, 1941.89, 1941.90, 3057-8, 3372-3, 5540-1, 5659, 5930, 8084-7, 8255.50
TETRA-*n*-PROPYLDITHIONOPYROPHOSPHATE, 7947, 7947.50
TOXAPHENE, 190, 254, 410, 416, 421, 862.60, 1077, 1302-4, 1318.20, 1358.96, 1358.98, 1516, 1520, 1708, 1941.95, 2363, 2695-6, 2921, 2928-9, 3159, 3163, 3377, 3558, 4153.67, 4153.72, 4512, 4733, 4926-7, 5066, 5073, 5076, 5173, 5238, 5245, 5248, 5417, 5546, 5687, 5944-6, 5948, 6303, 6546, 6917, 6964-5, 6967, 7035, 7209, 7305-7, 7309, 7629, 7762, 8039-4, 8097, 7317.60, 8318, 8326.50, 8405-6, 8431, 8775, 8864-7, 8927, 9153-4, 9247
TRICHLOROFON, 2210.50, 4808
ZINC ARSENITE, 5470

SYSTEMIC

4-*tert*-BUTYL-2-CHLOROPHENYL METHYL METHYLPHOSPHORAMIDITE, 7445
2-CARBOMETHOXY-1-PROPEN-2YL DIMETHYL PHOSPHATE, 5042-3
DEMETON, 1526
OIL, RONNEL, 4216
PHOSPHAMIDON, 5890
RONNEL, 4219, 8912
SCHRADAN, 1125, 2372, 6508
SODIUM SELENATE, 6007

NUTRITIONAL SPRAYS AND DUSTS

BORON, CALCIUM, COBALT, COPPER, IRON, MAGNESIUM, MANGANESE, ZINC, 2792
BORON, CALCIUM, COPPER, IRON, MAGNESIUM, MANGANESE, 2791
BORON, COPPER, IRON, MAGNESIUM, MANGANESE, ZINC, 2337
BORON, COPPER, MANGANESE, ZINC, 4101-2, 4105
BORON, COPPER, MANGANESE, SULPHUR, ZINC, 4103
BORON, COPPER, SULFUR, ZINC, 3036
COPPER, 5272, 7667
COPPER, IRON, MANGANESE, ZINC, 1569.50, 1569.60, 3978, 4451
COPPER, MANGANESE, SULFUR, ZINC, 1569.40, 2800-2, 3037-8, 3950, 4077, 4099, 4100
COPPER, MANGANESE, ZINC, 1569.30, 2759-60, 4104, 4106-9, 4456
COPPER, SULFUR, ZINC, 2761-2, 3035
COPPER, ZINC, 2763, 4458
FERROUS SULPHATE, 4015
IRON, 2803, 2988, 3942, 4495, 5172, 5592, 7311, 7315, 7668-71, 8838
IRON, MANGANESE, NITROGEN, PHOSPHORIC ACID, POTASH, SODIUM *n*-HYDROXYETHYLENEDIAMENETRIACETATE, ZINC, 1962
IRON, MANGANESE, SULFUR, 3952
IRON, NITROGEN, 4436.60
IRON, SULFUR, ZINC, 9481.50
MAGNESIUM, 3947
MANGANESE, 3946, 4552, 5593, 7672
MANGANESE, PHOSPHORUS, ZINC, 4453-4
MANGANESE, SULFUR, 2917, 3031
MANGANESE, SULFUR, ZINC, 7650
MANGANESE, ZINC, 4436.30, 4452, 4459
MANGANESE OXIDE, 2298
MANGANESE SULFATE, 5188, 8478
MOLYBDENUM, 5913
NUTRITIONAL SPRAYS & DUSTS, UNSPECIFIED, 1569, 3491, 4897, 4930
PHOSPHORUS, ZINC, 4455
SODIUM MOLYBDATE, 3054

SULFUR, ZINC, 2951, 4475
ZINC, 318, 1610, 1936, 2673.50, 3957, 4478, 7673, 9478
ZINC SULPHATE, 5254, 5473, 7478, 7480, 8482

PLANT REGULATORS (HORMONES)

2-CHLOROETHYL TRIMETHYLAMMONIUM CHLORIDE, 1856
4-CHLOROPHENOXYACETIC ACID, 4924
4-CHLOROPHENOXYACETIC ACID, NAPHTHALENEACETIC ACID, 4941
GIBBERELLIC ACID, 4135-6, 6728, 8859
3-INDOLEBUTYLIC ACID, 1895.70, 9131
alpha-NAPHTHALENEACETIC ACID, 2244-5, 4207-9, 4896, 4939, 5428, 5653, 8164
beta-NAPHTHOXYACETIC ACID, 5427
THIAMIN CHLORIDE, 9288
N-*meta*-TOLYL PHTHALAMIC ACID, 2207
TRIBUTYL-2,4-DICHLOROBENZYL PHOSPHONIUM CHLORIDE, 6608-10
2,4,5-TRICHLOROPHENOXYPROPIONIC ACID & ITS SALTS & ESTERS, 1569.80, 4895, 5655

RODENTICIDES

ANTU, 76-7, 6363-4, 6617, 6828, 7236
ARSENIC SULFIDE, BARIUMNITRATE, SODIUM SULFIDE, SULFUR, 5268
ARSENIC TRIOXIDE, 78, 3217, 7425, 7651, 7656
ARSENIC TRIOXIDE, BARIUM CARBONATE, 7433
BARIUM CARBONATE, 79, 5453
CALCIUM 2-ISOVALERYL-1,3-INDANDIONE, 2105-6, 6735
COUMAFURYL, 249, 2399.50, 2263, 2265, 3262, 3790, 3999, 4231, 3675, 6586, 7432, 7931, 8124-5, 8393-4, 9436.50
DDT, 88, 990, 1103, 2961, 3589, 6853, 7358, 8117, 9304
DIPHACIN, 97.50, 1941.79, 1941.80, 1941.81, 2384, 2387, 2388.50, 3701
2-ISOVALERYL-1,3-INDANDIONE, 404, 207-8, 2110, 3988-90, 7145-7, 8826-7
PARAFFIN, OIL, SODA NITRATE, SULFUR, 1894
PHOSPHORUS, 115, 611, 1583, 3663, 7657
PINDONE, 113, 1322, 2227-8, 2230, 2405, 3742-3, 3797, 6272, 6588, 6637, 7036-7, 7143, 7226, 7351, 7838.50, 8137
PINDONE, SODIUM SALT, 2113.45, 2229, 2406, 6307, 6589, 6638-9, 7144, 9128
RODENTICIDES, UNSPECIFIED, 114, 7223.50, 7415, 8157
SODIUM ARSENITE, 967
SODIUM FLUORACETATE, 7157, 8970
SODIUM 2-ISOVALERYL-1,3-INDANDIONE, 2109, 6736-7, 7148
SQUILL, 120, 641, 1333, 1598, 1964, 3577, 3798, 4220-1, 6629, 6631, 7155, 7202, 7227, 7230-1, 7233, 7416, 7438, 7440
STRYCHNINE 638, 966, 968, 993, 1602, 2377-8, 3216, 3220, 322-3, 3430, 3578-9, 4154, 4817, 5266, 5340-1, 6626, 7323, 7660-3
SULFAQUINOXALINE WARFARIN, 2113.60, 3776-7, 4528, 5045.50, 6056, 6056.50, 6341-2, 6886, 6923-4, 6924.50, 7223.75, 7507.50, 7510, 9126.50, 9126.75
THALLIUM SULPHATE, 109, 122, 628, 1603, 2266, 2380, 2979-80, 3218, 3221, 3580, 3582-4, 4585, 5267, 6263, 7391, 7665-6, 8211, 8460, 9272
WARFARIN, 123, 485-6, 580, 590-1, 620, 725, 994, 1091.70, 1508, 1652-3, 1810, 1816, 1965-7, 2418, 2982, 3186, 3418, 3560-1, 3675, 3747, 2764-6, 3774, 3800-1, 4528, 4578-80, 4687, 4798, 5338-9, 5882, 6147, 6176, 6206, 6343, 6633, 6697, 6918, 7210, 7218, 7220, 7232, 7234-5, 7349, 7352, 7417, 7426, 7436-7, 7439, 7454, 7495, 7728, 7833, 7857, 8147-8, 9305-6, 9308-9

SEED TREATMENTS

ALDRIN, 1941.06, 6186, 7641-3
ALDRIN, CAPTAN, OIL, 5895
ALDRIN, HEXACHLOROBENZENE, 2177, 3486
ALDRIN, METHYL MERCURY PENTACHLOROPHENOLATE, 3530
ALDRIN, OIL, 4742, 6348
BHC (GAMMA), 4023, 5630, 8379, 8398
BHC (GAMMA), CAPTAN, 4022
BHC (GAMMA), ETHYL MERCURY CHLORIDE, PHENYL MERCURY ACETATE, 4740
BHC (GAMMA), ETHYL MERCURY *p*-TOLUENE SULFONALIDE, 5126
BHC (GAMMA), PHENYL MERCURY UREA, 4739
BHC (GAMMA), THIRAM, 5159
CAPTAN, 5915, 5979-80, 7966, 9139
CAPTAN, DIELDRIN, 5969, 7961-2, 8340, 8763, 9039
CAPTAN, HEXACHLOROBENZENE, 5973
CAPTAN, MALATHION, 5976
CAPTAN, MALATHION, METHOXYCHLOR, 5977

958870254

CAPTAN, METHOXYCHLOR, 5980.50
CAPTAN, PENTACHLORONITROBENZENE, 2744, 7967.60
CHLORANIL, 5536, 7875, 7879, 7879.50
CHLORANIL, DDT, 7876-8
COPPER CARBONATE, 1661, 4213.50, 5457, 6205, 7458
COPPER (CUPROUS) OXIDE, 4232, 5253, 5458, 7317
DICHLONE, 5531, 6612
DIELDRIN, 3699, 4974.50, 8356, 9063
DIELDRIN, PENTACHLOROPHENOL, 6141
DIELDRIN, THIRAM, 1938, 5069.70, 6081
ENDRIN, THIRAM, 4153.83
N-(ETHYLMERCURI)-*p*-TOLUENE SULFONANILIDE, 984.50, 986
ETHYL MERCURY CHLORIDE, 986.50, 4758
ETHYL MERCURY CHLORIDE, PHENYL MERCURIC ACETATE, 160
FORMALDEHYDE, 1181, 6175
FORMALDEHYDE, PHENOL, 6165
HEPTACHLOR, 1478, 5803, 9092, 9437
HEPTACHLOR, METHYLMERCURY DICYANDIAMIDE, 4741
HEPTACHLOR, METHYLMERCURY 8-HYDROXYQUINOLINATE, 3512.50
HEPTACHLOR, THIRAM, 3506
HEXACHLOROBENZENE, 331, 2029, 3456, 5056-7, 5559-61, 7496
HYDROXYMERCURICHLOROPHENOL, 7645.50
HYDROXYMERCURICHLOROPHENOL, HYDROXYMERCURINITROPHENOL, 7645.75
MERCURIC CHLORIDE, *p-tert*-OCTYL PHENOXY ETHOXY ETHYL DIMETHYL BENZYL AMMONIUM MERCURIC CHLORIDES, TRIOXYMETHYLENE, 6164
MERCURY, ORGANIC, UNSPECIFIED, 6140, 6163
METHOXYCHLOR, THIRAM, 373
METHOXY ETHYL MERCURY ACETATE, 4736
METHYL MERCURY ACETATE, METHYL MERCURY 2,3-DIHYDROXY PROPYL MERCAPTIDE, 984, 3518, 3518.50
METHYL MERCURY DICYANDIAMIDE, 158, 6078-9
METHYL MERCURY NITRILE, 1388-9
METHYL MERCURY 8-HYDROXYQUINOLINATE, 5830-2, 4759-62
PHENYL MERCURY ACETATE, 4755
PHENYL MERCURY DIMETHYLDITHIOCARBAMATE, 4738
PHENYL MERCURY UREA, 159
PIPERONYL BUTOXIDE, PYRETHRINS, 7066
THIRAM, 368.50, 374, 5069.50, 6080
ZINC CARBONATE, 5471
ZINC OXIDE, 5472

TESTING SERVICES

WISCONSIN ALUMNI RESEARCH FOUNDATION, Box 2217, Madison, Wisc.
PAN AMERICAN LABORATORIES, P.O. Box 1546, Brownsville, Texas
DR. G. R. TOWNSEND, FLORIDA FIELD TRIALS, Box 356, Belle Glade, Florida

TREE EXPERTS

THE F. A. BARTLETT TREE EXPERT CO., Stamford, Conn.

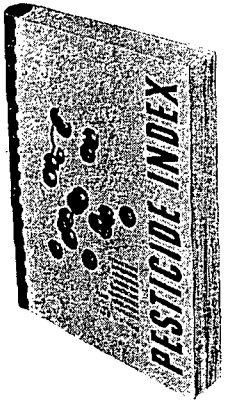
WOOD PRESERVATIVES

ALDRIN, TRIBUTYLTIN OXIDE, 6004-6
ARSENIC TRIOXIDE, COPPER RESINATE, WOOD CREOSOTE, 53
CHLORDANE, OIL, PENTACHLOROPHENOL, 4525
CHLORO-*o*-PHENYLPHENOL, OIL, ORTHODICHLOROBENZENE, PENTACHLOROPHENOL, TETRACHLOROPHENOL, 9442
COAL TAR, 424, 1821
COAL TAR, COAL TAR ACIDS, RAW COAL TAR, 809, 1607
COAL TAR OILS, 840.50, 465.75, 2274
COPPER, 1080.42
COPPER NAPHTHENATE, 425, 1209-10, 1609, 1617, 4247, 7213, 7863, 8817-8, 8953
COPPER NAPHTHENATE, OIL, 1611, 1616, 7428
COPPER 8-QUINOLINOLATE, 956-7, 2387.50, 7164.60
CREOSOTE or CREOSOTE OIL, 426-08, 661, 1822, 1824, 4248, 4581, 6021, 6148, 7172, 7242
DINITROPHENOL, DISODIUM HYDROGEN ARSENATE, SODIUM CHROMATE, SODIUM FLUORIDE, 9404
ENDOSULFAN, TRIBUTYLTIN OXIDE, 5433
METHYL NAPHTHALENES, OIL, PENTACHLOROPHENOL, 1564
OIL, ANTHRACENE, 1819, 4584
OIL, ASPHALTIC, 1820

OIL, PENTACHLOROPHENOL, 1358.78, 1918-9, 2424, 5036, 6562, 7523, 9202
PENTACHLOROPHENOL, 54, 112, 332-3, 425.50, 425.60, 425.70, 633, 684, 991-2, 1062, 1151, 1317, 1349-50, 1555, 1557, 1640-1, 1817, 1911, 1941.72, 3146, 3247, 3796, 4032, 4352-3, 4355, 4903-4, 5222, 5309, 5317, 6178, 6265-6, 6527, 6529, 6565, 6571-2, 6571.50, 6929-30, 7138-40, 7195-6, 7212, 7765, 7858, 7865, 8054, 8136, 8300-1, 8665-6, 8853-5, 9125-6, 9224-4, 9432
PENTACHLOROPHENOL, OIL, 1556, 1563, 3770-1, 6069, 6566-9
ZINC, NAPHTHENATE, 1851, 5593.55
ZINC PETROLEUM SULFONATE, 958

PESTICIDE INDEX

(Second Edition)



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SECTION III

Alphabetical List of Manufacturers and Their Products
Advertisers are listed in bold face and starred.
(See **How to Use This Book** on page 25)

A

Aceto Chemical Co., Inc., 40-40 Lawrence St., Flushing 54, N.Y., 2, 4-13.80
Acme Protection Equipment Co., 1083 Kalamazoo St., S. Haven 6, Michigan, 36-40
Acme Quality Paints, Inc., 8250 St. Aubin Ave., Detroit 11, Michigan, 14-29, 31-35, 43-45.50 47-50.50, 9317
Aceteen Pest Control Services, 1011 Heinz Ave., Berkeley 10, California, 52-55
Ralph Adams, Lakeville, New Brunswick, Canada, 56
Advance Division of Carlisle Chemical Works, Inc., 500 Jersey Ave., New Brunswick, N. J., 58-61
Aegis Laboratories, Inc., 6817 S. Stony Island Ave., Chicago 49, Illinois, 3569-71
Aero-Master, Inc., 325 W. Pacific Ave., St. Louis 19, Missouri, 66-71
Aggie Chemical Co., P.O. Box 176, Tulsa 1, Oklahoma, 131-133
Agkem, Inc., Division, The Kalo Co., W. C. U. Bldg., 506 Main St., Quincy, Illinois, 134, 2208, 7380
Agricultural Aviation Engineering Co., 858 Civic Centre Dr., Santa Clara, California, 125-130
***Agricultural Chemicals,** P.O. Box 31, Caldwell, N. J. (see advertisement on page 37)
Agricultural Chemical Service Co., P.O. Box 626, Montgomery 1, Alabama, 6931-69
Agricultural Pesticide Chemical Co., Hibernia Bldg., New Orleans 12, Louisiana, 147-55
Agricultural Specialties, 12200 Denton Dr., P.O. Box 14231, Dallas 34, Texas, 135-41, 7918-32, 8208-9
***Agrichemical West,** 1445 Stockton St., San Francisco 11, Calif. (see advertisement on page 29)
Agrochem Div., H. P. Rossiger and Co., Inc., 55 Vandam St., New York 13, N.Y., 331, 3645, 8106
Agsco, Inc., P.O. Box 351, 700 N. 3rd St., Grand Forks, North Dakota, 161-90
Alco Chemical Co., 19027 Pioneer Boulevard, Artesia, California, 198-256
***Allied Chemical Corp., General Chemical Div.** (see listing under General Chemical Division)
Amchem Products, Inc., Ambler, Pa., 51, 280-83, 286, 289-90, 359, 539-40, 804, 2082, 2304-5, 2332-33, 3262, 8904, 9315, 9329-34, 9346-58, 9452
American Agricultural Chemical Co., 100 Church St., New York 7, N.Y., 6611
American Cyanamid Co., P.O. Box 400, Princeton, New Jersey, 62-5, 287-88, 1854-59, 2084, 4541, 8634, 8637, 9273
American Fluoride Corp., 844 Ave. of the Americas, New York 1, N.Y., 75-124, 348, 3183, 3988-90
***American Fruit Grower,** Willoughby, Ohio (see advertisement on page 51)
American Fumigating Co., 4557 Delmar Blvd., St. Louis 8, Missouri, 3266-7, 4402, 7223.50
***American Mineral Spirits, Div. of Pure Oil Co.,** 200 S. Michigan Ave., Chicago 4, Illinois, 295-295.70, 310, 315-6, (see advertisement on page 33)
American Optical Co., Mechanics St., P.O. Box 1, Soughbridge, Mass., 352-5
***American Potash and Chemical Corp.,** 3000 W. 6th St., Los Angeles 54, Calif., 8913-46, 8948-9 (see advertisement on page 249)
American Scientific Labs., Inc., P.O. Box 1288, Madison 1, Wisconsin, 483-6
American Smelting and Refining Co., 120 Broadway, New York 5, N.Y., 285-5
American Tar Co., Lake Union, Foot of Wallingford Ave., Seattle 3, Wash., 424-8
Andrews, W. R. E., Sales, Inc., 1505 Race St., Philadelphia 2, Pa., 317-19, 2298, 4232, 4552, 9478
***Ansul Chemical Co.,** 1 Stanton St., Marinette, Wisconsin, 320-323.50 (see advertisement on page 35)
APCO Oil Corp., 1000 Liberty Bank Bldg., Oklahoma City 2, Oklahoma, 356, 1939-41
Apperson Chemicals, Inc., 2903 Strickland St., Jacksonville, Fla., 1611, 6562
Aquafil Co., Box 94, Los Altos, California, 357-8
Archer Daniels Midland Co., 2191 West 110 St., Cleveland 2, Ohio, 9449-51
Aromatic Products, Inc., 235 Fourth Ave., New York 3, N.Y., 1560, 2061, 4540
Arrow Products Co., 447 Lincoln St., Carlstadt, N.J., 4042
Arwell, Inc., 1119 Glen Rock Ave., Waukegan, Illinois, 392.50-392.70, 396.50, 389, 389.50, 391-2, 394-8, 400-8
Associated Sales and Supply Co., 5137 Southwest Ave., St. Louis 10, Missouri, 410-23, 773-4, 1120-26, 3167-9, 8487

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III

ers and Their Products
d face and starred.
ok on page 25)

ing 54, N.Y., 2, 4-13.80
t., S. Haven 6, Michigan, 36-40
etroit 11, Michigan, 14-29, 31-35, 43-45.50,

keley 10, California, 52-55
56
., 500 Jersey Ave., New Brunswick, N. J.,

, Chicago 49, Illinois, 3569-71
Missouri, 66-71
oma, 131-133
ldg., 506 Main St., Quincy, Illinois, 134,

entre Dr., Santa Clara, California, 125-130
J. (see advertisement on page 37)
Montgomery 1, Alabama, 6931-69
g., New Orleans 12, Louisiana, 147-55
14231, Dallas 34, Texas, 135-41, 7918-32,

11, Calif. (see advertisement on page 29)
ndam St., New York 13, N.Y., 331, 3645,

rks, North Dakota, 161-90
ia, California, 198-256
isting under General Chemical Division)
289-90, 359, 539-40, 804, 2082, 2304-5,

t., New York 7, N.Y., 6611
New Jersey, 62-5, 287-88, 1854-59, 2084,

s, New York 1, N.Y., 75-124, 348, 3183,

vertisement on page 51)
ouis 8, Missouri, 3266-7, 4402, 7223.50
0 S. Michigan Ave., Chicago 4, Illinois,
e 33)
oughbridge, Mass., 352-5
st., Los Angeles 54, Calif., 8913-46, 8948-9

ison 1, Wisconsin, 483-6
, New York 5, N.Y., 285-5
l Ave., Seattle 3, Wash., 424-8
phia 2, Pa., 317-19, 2298, 4232, 4552, 9478
consin, 320-323.50 (see advertisement on

a City 2, Oklahoma, 356, 1939-41
nville, Fla., 1611, 6562

veland 2, Ohio, 9449-51
3, N.Y., 1560, 2061, 4540
4042
inois, 392.50-392.70, 396.50, 389, 389.50,

e., St. Louis 10, Missouri, 410-23, 773-4,

Athelstan Products Co., Co., 4700 Aldrich Ave., So., Minneapolis 9, Minnesota, 3582-8
Atlantic Refining Co., Inc., P.O. Box 7528, Philadelphia 1, Pa., 278, 432-5, 9016-7
Atlas Chemical Industries, Inc., Delaware Trust Bldg., Wilmington 99, Delaware, 445, 445.50, 454-60, 7313-7313.75, 8973-4

B

B & G Company, Plumsteadville, Pa., 470.50-474
B. T. Babbitt, Inc., 20 Broadway, Albany 1, New York, 475-6, 605, 3632-5
Banta Hi-Fog Co., 400 Beverly Blvd., Montabello, California, 489-90
Barco Manufacturing Co., 119 Dewey St., Worcester, Massachusetts, 494-501
Barnett Chemical Products Co., 326 Lafayette Bldg., Philadelphia 6, Pa., 504-12
Bartlett Mfg. Co., Ltd., Beamsville, Ontario, Canada, 514-32
*F. A. Bartlett Tree Expert Co., 2770 Summer St., Stamford, Conn. (see advertisements on pages 43 and 266)
John Bean Div., Food Machinery and Chemical Corp., P.O. Box 9490, Lansing 4, Michigan, 191, 533.50-534.75, 1604.50, 3646, 7385.50, 7429, 7442-4, 7841, 7846-7, 8911
Benson-Maclean, Bridgeton, Indiana, 537.50, 7415
Brelou Manufacturing Co., 126 Blaine Ave., Marion, Ohio, 544-7
Bete Fog Nozzle, Inc., 309 Wells St., Greenfield, Mass., 548-9
Biocerta Corp., 303 5th Ave., New York 16, N.Y., 1559, 2424, 6009, 6313, 7230, 8157
Bird-Rid Laboratories, Inc., 4817-19 Cottage Grove, Chicago 15, Ill., 561
Blackwell Burner Co., P.O. Box 4426, 5033 W. Commerce St., San Antonio 7, Texas, 593
John Blue Co., Huntsville, Alabama, 597-602
Blue Ridge Talc Co., Inc., Henry, Virginia, 603
Bonide Chemical Co., Inc., 382 N. Genesee St., Utica 4, N.Y., 608-614.50, 616-639.50, 641-642.50, 5331-2, 7427.50
The Bourbon Co., P.O. Box 466, Lexington, Kentucky, 656-85
Boyle-Midway, Inc., S. Ave. & Hale St., Cranford, New Jersey, 334-47, 349-51, 565-80, 2209, 3190-91, 7274-5, 7817-8
Brayton Chemicals, Inc., P.O. Box 56, Burlington, Iowa, 695.50, 695.75, 697, 697.50, 699, 701-8, 711-720.50, 722-8
Breck's—Jos. Breck & Sons, 100 Breck Bldg., Boston 10, Mass., 729-35, 737-47
Brilco Labs., 1553-63rd St., Brooklyn 19, N.Y., 6730
Brown Manufacturing Co., 1-3 Church St., LeRoy, N.Y., 7430, 7432-3
Broyhill Company, Dakota City, Nebraska, 755-8
Brulin and Co., Inc., 2939-45 Columbia Ave., Indianapolis 7, Ind., 760-72, 7379
*Buffalo Turbine Agr. Equip. Co., Inc., 70 Industrial St., Gowanda, N.Y., 781-9 (see advertisement on page 51)
Burr Chemical Co., 3329 Auburn St., Rockford, Illinois, 798

C

The Cabell Chemical Co., 101 22nd St., Huntington 3, W. Va., 810-9
Calcium Carbonate Co., 520 S. 4th St., Quincy, Illinois, 942
*California Chemical Co., Ortho Div., Lucas St. & Ortho Way, Richmond, Calif., 194, 196, 324, 655, 1360, 1936, 3179-82, 3987, 4017, 4019-27, 4205-9, 4816, 4819-20, 5665, 5672-7, 5679-83, 5686-8, 5690-2, 5694-8, 5700-15, 5717, 5719-27, 5729-33, 5735, 5737-41, 5743-8, 5752-5756.50, 5758-63, 5767-75, 5777, 5779-82, 5785-95, 5797, 5800-19, 5821-31, 5833-43, 5846-8, 5850-1, 5853-9, 5861-3, 5865-8, 5871-2, 5876-93, 5895, 5897-8, 5900-1, 5903-16, 5918-23, 5925-6, 5929-5, 5938-49, 5951-4, 5956, 5958-64, 5966-7, 5969-70, 5972-87, 5989-99, 6581, 6602, 7496, 7821, 8444, 8903, 9267-71, 9291-8, 9480.75, 4754 (see advertisement on page 173)
California Farm Supply Co., 2223 Fulton St., Berkeley 4, Calif., 994.50-99, 1000-1, 1003-9, 1014-32, 1034-1035.50, 1037-1055.50, 1057-1067.50, 1069-1077.50
California Heater Co., P.O. Box 957, 1511 W. Second St., Pomona, Calif., 823-4
California Industrial Minerals Co., P.O. Box 188, Friant, Calif., 3230
Calumet Div., Calumet & Hecla, 25 Calumet Ave., Calumet, Michigan, 829, 5434, 8463
Campbell-Hausfeld Co., Harrison, Ohio, 6087
Canada Rex Spray Co., Ltd., Brighton, Ontario, Canada, 582-91, 796, 3072, 3195-6, 3198-200, 5336, 7323, 8158, 8457, 8959
Capitol Chemical Co., 3255 Prospect Ave., N.W., Washington 7, D.C., 837-8, 4029-30
Carajon Chemical Co., Inc., P.O. Box 167, 426 W. Main St., Fremont, Mich., 3216-23
Carbola Chemical Co., Inc., Natural Bridge, New York, 839-40, 937-8, 940-1, 944-52
Carbolineum Wood Preserving Co., 6683 N. 40th St., Milwaukee 9, Wisc., 465.75, 840.50
Carlisle Chemical Works—see Advance Division
Carmel Chemical Co., P.O. Box 56, Carmel, Indiana, 844.20, 844.30, 844.40, 844.50, 844.60, 844.70, 844.80

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Carolina Chemical Co., Box 70, Wilson, North Carolina, 862.50, 862.60, 1080.02-.78, 1082.10-.90, 1083.20-.65, 1085.50, 1087.10-.85, 1090.40-.80, 1091.20-.70
Carolina Chemicals, Inc., P.O. Box 33, West Columbia, S. C., 862, 3076, 3078-87, 3089-90, 3094, 3096, 3098-103, 3106-8, 3110-16, 3118-9, 3121, 3123-36, 3138-40, 3142-6, 3148-66, 4043, 9287
Cenol Company, Inc., 3240 W. Chicago Ave., Chicago 51, Illinois, 959-70, 5450, 8483
Central Chemical Co., 49 N. Jonathan St., Hagerstown, Maryland, 2615-67, 2669-70, 2672-702, 2711.50
Century Engineering Co., 401 3rd St., S.E., Cedar Rapids, Iowa, 971, 973, 976-9
Chamberlain Corp., P.O. Box 610, Monroe, Georgia, 1080
Champion Sprayer Co., 6509 Heintz Ave., Detroit 11, Michigan, 1081-92
R. E. Chapin Mfg. Works, Inc., Batavia, New York, 1093-4
***Chapman Chemical Co.,** P.O. Box 138, Memphis 1, Tenn., 256.50, 1096-9, 1101-3, 1105, 1107-8, 1549.50, 2065.50, 2073.50, 4540.50, 4542, 5265, 6564-9, 6572, 7908.50, 9262.50, 9263, 9305.75 (see advertisement on page 51)
Chase Products Co., P.O. Box 42, 19th and Gardner Rd., Maywood, Illinois, 1111-9
***Chemagro Corporation,** P.O. Box 4913, Hawthorn Rd., Kansas City 20, Mo., 533, 1618, 1920, 1977, 2085, 2088, 2217, 2331, 3597-8, 5328, 5437, 5556, 6091, 8442, 8675 (see advertisement on page 47)
Chemical Compounding Corp., 532 Johnstown Ave., Jersey City 4, N.J., 7165-213, 7526
Chemical Formulators, Inc., P.O. Box 26, Nitro, W. Virginia, 1147-212, 2336
Chemical Insecticide Corp., 30 Whitman Ave., Metuchen, N.J., 1131-46.50, 1213-30.50, 1314-20, 1322-47, 1349-50, 1352-9, 5258-60, 5263, 6970, 7085-8, 7218, 7233
Chemical Products Corp., 407 Juniata St., Colorado Springs, Colorado, 1321
Chemical Specialties Corp., 1007 W. Maryland St., Evansville 10, Indiana, 72-4, 596, 2280, 3568, 5600, 7837, 9362, 9461
***Chempar Chemical Co., Inc.,** 260 Madison Ave., New York 16, N.Y., 1231-313 (see advertisement on page 59)
Chemwest, Inc., 600 S. Fourth St., Richmond 4, Calif., 1358.02-.98
***Chipman Chemical Co.,** P.O. Box 309, Bound Brook, New Jersey, 159, 192-3, 258-60, 429, 431, 436-44, 541-2, 556-7, 649-51, 799, 801-2, 1363-97, 1400, 1405-7, 1409, 1411-8, 1420-34, 1437-49, 1451-57, 1459-60, 1465-76, 1480-89, 1491-2, 1494-505, 1507, 1509-29, 1532-3, 1535, 1537-42, 1544-6, 1548, 1550-3.50, 1560.50, 1565-7, 1612, 1849-50, 1888-90, 2068-70, 2177, 3227, 3627-9, 3998, 4014, 4405, 4538-9, 4736, 4738-9, 4787, 4787.50, 4789, 4791-2, 5559-61, 6097, 6579, 7641-3, 7683-5, 9336 (see advertisement on page 63)
Chipman Chemicals Ltd., 519 Parkdale Ave., N., P.O. Box 100, Postal Station "C", Hamilton, Ontario, Canada, 1, 158, 160, 430, 461, 537, 1398-9, 1401-4, 1408, 1410, 1419, 1435-6, 1450, 1458, 1461-4, 1477-9, 1490, 1493, 1506, 1508, 1530-1, 1534, 1536, 1547, 1553, 1915-7, 4740-1, 4788, 4790, 4793, 5286, 7372-3, 8869, 8950, 9306
W. A. Cleary Corporation, P.O. Box 749, New Brunswick, N.J., 820, 822, 4783-5, 6731, 6734, 7677-9, 7882, 8210, 8633
Clersite Company, 3058 W. Van Buren St., Chicago 12, Illinois, 3394, 3396, 7234
Clover Chemical Company, P.O. Box 10865, Pittsburgh 36, Pa., 1568.50, 1569
Coahoma Chemical Co., P.O. Box 231, Beacon, N.Y., 7251-310
Collodial Products Corp., 100 Gate 5 Road, Sausalito, California, 1569.70, 5356, 5358, 5360-3, 7640
Columbia Exporters, Inc., 730 S. E. 11th St., Portland, Oregon, 7715-20
Columbia Quarry Co., 1007 Washington Ave., St. Louis 1, Missouri, 1572-3
Commercial Minerals Co., 310 Irwin St., San Francisco 7, Calif., 1577-9
Common Sense Mfg. Co., Inc., 1392 Niagara St., Buffalo 13, New York, 1580-3
Conray Products Co., 129 Pearl St., New York 5, New York, 1584-603
***Continental Chemiste Corp.,** 2256 W. Ogden Ave., Chicago 12, Illinois, 795, 4786, 5333, 7231, 7815-6 (see advertisement on page 225)
Cook Chemical Co., 2500 Summit, P.O. Box 78, Kansas City 41, Missouri, 7045, 7237-9, 7241
Cooley Spray Equipment Works, Somers, Connecticut, 564, 1605-6
Coppers Creek Chemical Corp., River Rd., West Conshohocken, Pa., 806-9, 1607, 2423
Cornell Chemical & Equipment Co., 1115 No. Rolling Rd., Baltimore 28, Md., 1619-52
The Cotton Producers' Assn., P.O. Box 2210, Atlanta 1, Georgia, 1742-7, 1750, 1752-3, 1755-7, 1759-69, 1772-95
Cotton States Chemical Co., Inc., P.O. Drawer 677, 100 Trenton St., West Monroe, Louisiana, 1691-736
Cowles Chemical Company, 12000 Shaker Blvd., Cleveland 20, Ohio, 1963
Coyne Chemical Company, 4476 E. Washington Blvd., Los Angeles 23, Calif., 7885-901
Crane Pest Control, 2700 Geary Blvd., San Francisco 18, Calif., 1807-10, 4010
Cre-O-Tox Chemical Products Co., 2670 Broad Ave., Memphis 12, Tenn., 1814-7, 8783-7
***Croplife Magazine,** 551 Fifth Ave., New York, N.Y. (see advertisement on page 71)
Crowley Tar Products Co., Inc., 271 Madison Ave., New York 16, N.Y., 1818-41
Crown Products Co., Box 427, Douglas, Georgia, 606-7, 1609, 1813, 1842-8, 7786-7

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, 862.50, 862.60, 1080.02-.78, 1082.10-.90, 20-.70
a, S. C., 862, 3076, 3078-87, 3089-90, 3094, -36, 3138-40, 3142-6, 3148-66, 4043, 9287
51, Illinois, 959-70, 5450, 8483
n, Maryland, 2615-67, 2669-70, 2672-702,

ids, Iowa, 971, 973, 976-9
1080
Michigan, 1081-92
1093-4
enn., 256.50, 1096-9, 1101-3, 1105, 1107-8, 4-9, 6572, 7908.50, 9262.50, 9263, 9305.75,

Rd., Maywood, Illinois, 1111-9
., Kansas City 20, Mo., 533, 1618, 1920, 556, 6091, 8442, 8675 (see advertisement

ersey City 4, N.J., 7165-213, 7526
Virginia, 1147-212, 2336
en, N.J., 1131-46.50, 1213-30.50, 1314-20, 8, 7218, 7233
Springs, Colorado, 1321
nsville 10, Indiana, 72-4, 596, 2280, 3568,

York 16, N.Y., 1231-313 (see advertise-

., 1358.02-.98
k, New Jersey, 159, 192-3, 258-60, 429, -97, 1400, 1405-7, 1409, 1411-8, 1420-34, , 1494-505, 1507, 1509-29, 1532-3, 1535, 1612, 1849-50, 1888-90, 2068-70, 2177, -9, 4787, 4787.50, 4789, 4791-2, 5559-61, on page 63)
Box 100, Postal Station "C", Hamilton, , 1401-4, 1408, 1410, 1419, 1435-6, 1450, , 1534, 1536, 1547, 1553, 1915-7, 4740-1,

ck, N.J., 820, 822, 4783-5, 6731, 6734,

, Illinois, 3394, 3396, 7234
h 36, Pa., 1568.50, 1569
251-310
California, 1569.70, 5356, 5358, 5360-3,

, Oregon, 7715-20
is 1, Missouri, 1572-3
7, Calif., 1577-9
lo 13, New York, 1580-3
York, 1584-603
icago 12, Illinois, 795, 4786, 5333, 7231,

City 41, Missouri, 7015, 7237-9, 7241
564, 1605-6
nohocken, Pa., 806-9, 1607, 2423
g Rd., Baltimore 28, Md., 1619-52
1, Georgia, 1742-7, 1750, 1752-3, 1755-7,

Trenton St., West Monroe, Louisiana,

land 20, Ohio, 1963
Los Angeles 23, Calif., 7885-901
18, Calif., 1807-10, 4010
Memphis 12, Tenn., 1814-7, 8783-7
ee advertisement on page 71)
ew York 16, N.Y., 1818-41
, 1609, 1813, 1842-8, 7786-7

Frank J. Curran Co., 8100 S. Main St., Downers Grove, Illinois, 7516-21
*Curtis Automotive Devices, Inc., P.O. Box 297, Westfield, Indiana, 2211-6, (see advertisement on page 89)

D

Daly-Herring Co., P.O. Box 702, Kinston, N. Carolina, 477-8, 1690.50, 1690.75, 1896-914, 4206.50, 6737.50, 8910, 8910.50
J. P. Dart, 117 N. Orange Drive, Los Angeles 36, Calif., 7235
Darworth, Inc., P.O. Box 308, Simsbury, Conn., 956-8, 1851-2, 8484
Davis Emergency Equipment Co., 45-47 Halleck St., Newark 4, N.J., 1870.20, 1870.40, 1870.60 1870.80
Davison Chemical Co., Div. of W. R. Grace & Co., P.O. Box 858, Charleston, S. C., 5374-423, 5435, 5563, 6090, 8181-2
J. H. Day Co., Div. Cleveland Automatic Machine Co., 4932 Beech St., Cincinnati 12, Ohio, 1882-4, 7386
Delavan Mfg. Co., Grand Ave. & 4th St., W. Des Moines, Iowa, 1921-35
DeSoto Chemical Co., P.O. Box 306, Arcadia, Florida, 3291.50
Destruxol Corp., 495 S. Arroyo Parkway, Pasadena 1, Calif., 562, 592, 595, 653, 828, 1362.50, 1942-52, 1954, 1956-62, 2178, 2988.50, 3286, 3431-2, 3664, 4015, 4214, 4403, 5553, 6003, 6350.50, 7226, 7729-30, 7902, 8781, 9275, 9288, 9316, 9359
Detjen Corp., Skidmore Rd., Freedom Plains, Pleasant Valley, N.Y., 793, 1895, 968-76, 2279, 2281, 3193, 4004-7
*Diamond Alkali Co., 300 Union Commerce Bldg., Cleveland 14, Ohio, 1978-2036, 2040-54, (see advertisement on page 79)
Dianol Div., Mills-Pearson Corp., P.O. Box 10968, St. Petersburg, Florida, 2054.50, 2055-6, 2058
The Dill Co., Washington & McKinley Ave., Norristown, Pa., 261, 2074-7, 8670
The Dioptron Co., 217 Wisconsin Bldg., Waukesha, Wisconsin, 552-3, 4502, 9312-3
Doggett-Pfeil Co., 191 Mountain Ave., Springfield, N.J., 1860-7, 2100.10-.80, 7423
The C. B. Dolge Co., Westport, Connecticut, 2101-2, 2425, 4543, 6573, 7832, 7881
Donco, Inc., 1150 W. Hampden, Englewood, Colorado, 2103-10, 6735-7
Douglas Chemical Co., 620 E. 16th St., North Kansas City 16, Mo., 935-6, 2112-2114.80, 8490
The Dow Chemical Co., Midland, Michigan, 513, 758.50, 1569.80, 1868, 2099, 2114.90-18, 2120-44, 2146-9, 2151-3, 2335.50, 2358-67, 3223.50, 3225, 3263-4, 3286.50, 4214.50, 4214.75, 4215-9, 4233, 4233.50, 4794, 5582, 6086, 6614-5, 6824, 6922, 7215-7 ,7310.50, 7445, 7673.75, 8469, 8677, 8677.50, 8910.75, 8912 9280.40-.80, 9283-5, 9314.50, 9477.50-.75, 9483
E. I. du Pont de Nemours and Co., Inc., Fabrics & Finishes Dept., Lawn and Garden Products, Wilmington 98, Delaware, 293, 2180-2, 2184, 2184.50, 2186-7, 2189, 2192-8, 2200-2, 2202.50, 2204-5, 2987, 4553, 8488, 8972
*E. I. du Pont de Nemours and Co., Inc., Industrial and Biochemicals Dept., Wilmington 98, Del., 291, 293.50, 368.50, 368.75, 373-4, 984, 984.50, 986, 986.50, 1938, 2185, 2190-1, 2203, 2206, 2210, 2334, 2986, 3923, 4050-1, 4210, 4494, 4515, 4555-6, 4735.50, 4742, 6179-81, 7645.50, 7645.75, 7647, 8472, 8472.50, 8489, 8639, 8671, 8969, 9480.50, 9484 (see advertisement on page 87)

E

The Eagle-Picher Co., Celatom Products Dept., American Bldg., Cincinnati 1, Ohio, 953-4
Eastern Magnesia Talc Co., Inc., Box 445, Burlington, Va., 2299-300
Eastern States Farmers' Exchange, Inc., 26 Central St., West Springfield, Mass., 2218-62
J. T. Eaton and Co., Inc., 1106 Lakeview Rd., Cleveland 8, Ohio, 2263-5, 7435-41
Eckley Exterminators, 412 S. Fleishel, Tyler, Texas, 3644
Edco Corporation, Childs Rd., Elkton, Maryland, 2269-71, 4499, 5367, 5597, 8485, 8636, 9264.50
Elco Mfg. Co., 2039 5th Ave., Pittsburgh 19, Pa., 2272-7, 4154, 4525
Emery Industries, Inc., Western Div., P.O. Box 54358, Terminal Annex, Los Angeles, Calif., 6971-82
Empire Chemical Co., 715 Lamar St., Los Angeles 31, Calif., 2165, 2297.50, 5086.30-.60, 7316.50, 7383.50, 8632.50
Engine Parts Mfg. Co., 1360 West 9th St., Cleveland 13, Ohio, 9455-6, 9456.50, 9457-8, 9460
Esquire Chemical Co., 8101 South Main St., Downers Grove, Illinois, 3424, 9227-9
Ethyl Corp., 100 Park Ave. at 41st St., New York 17, N.Y., 2368
*European Chemical Co., Inc., 124 E. 40th St., New York 16, N.Y., 2266, 2372-80 (see advertisement on page 101)
Evans Orchard Supply Co., 301-5 Delaware, Kansas City 6, Missouri, 2381-3
E-Z Flo Chemical Co., 2011 N. High St., P.O. Box 808, Lansing 3, Michigan, 2426-81, 2483-4, 2486-565

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F

Faesy and Besthoff, Inc., 143 River Rd., Edgewater, New Jersey, 2566-70, 2572-80, 2582, 2584-5, 2587-92

*Fairfield Chemical Div., Food Machinery and Chemical Corp., 441 Lexington Ave., New York 17, N.Y., 262-9, 686-8, 800, 2165.50, 2593-7, 3991, 6636, 6924, 7052-63, 7065-75, 7077-80, 8167, 8905-6 (see advertisement on back cover)

Farmcraft Chemicals, 8900 S. W. Commercial, Tigard 23, Oregon, 2607-12, 2614

Farnam Companies, P.O. Box 2151, Phoenix, Arizona, 2702.50, 2703-12

Fatsco, 251 N. Fair Ave., Benton Harbor, Michigan, 2952

Federal Chemical Co., Inc., 2701-5 Winthrop Ave., Indianapolis 5, Indiana, 362, 364-6, 2956-82

Feller-Jones Mist Blower, Inc., 303 Fourth Ave., New York 10, N.Y., 2983, 7048

Ferguson Fumigants, Inc., P.O. Box 5868, Ferguson 35, Missouri, 1871-81

Fine Organics, Inc., 205 Main St., Lodi, N.J., 5427-8, 7163, 7377, 8473

Flag Sulphur Chemical Co., P.O. Box 5737, Tampa 5, Florida, 2989-3068

*Florasynth Laboratories, Inc., 900 Van Nest Ave., New York 62, N.Y., 279, 1741, 5596 (see advertisement on page 111)

*Florida Agricultural Supply Co., P.O. Box 658, 1611 Tallevrand Ave., Jacksonville 1, Florida, 2328, 2713-951, 3261, 3925-58, 6002, 6316-7, 7311, 7648-50, 7903, 9487 (see advertisement on page 101)

*Florida Field Trials, P.O. Box 356, Belle Glade, Florida (see advertisement on page 101)

*Floridin Co., P.O. Box 989, Tallahassee, Florida, 2079-80, 3171-8, 5087-90 (see advertisement on inside back cover)

Fluid Energy Processing & Equipment Co., Richmond & Norris St., Philadelphia 25, Pa., 4041

Fly-Cord, Inc., P.O. Box 2006, Savannah, Georgia, 3098.50, 3165.30-.60, 3184, 3186, 3188-9

Fog Air Co., 415 Lexington Ave., New York 17, N.Y., 8441

Food Machinery & Chemical Corp., see John Bean, Fairfield and Niagara Divisions

Fort Dodge Chemical Co., 111 S. 14th St., Fort Dodge, Iowa, 3430, 5266

Friend Mfg. Co., Prospect St., Gasport, New York, 3233-41

Frontier Chemical Co., Box 545, Wichita 1, Kansas, 3242-8

Fuller Brush Co., Industrial Products Div., E. Hartford, Conn., 3260

Fuller System, Inc., Woburn, Massachusetts, 3249-59

G

Gallard-Schlesinger Chemicals, Inc., 1001 Franklin Ave., Garden City, L.I., New York, 3573-81

Gallowhur Chemicals Canada Ltd., 545 19th Ave., Lachine, Quebec, Canada, 830-1, 833-6, 3273, 3273.50, 3275, 6993, 6995-6, 6996.50, 6999, 7001

Gandy Company, P.O. Box 269, 100 Gandrud Rd., Owatonna, Minnesota, 3279-82

Gard Industries, 1729 Harding Rd., Northfield, Illinois, 3283-5, 5449

Garden Hose Spray Co., Inc., 7 Upland Rd., Cambridge 40, Mass., 376-85

Garden Products Co., 3246 S. Grand Blvd., St. Louis 18, Mo., 375, 654, 1853, 5268, 6314, 6641, 7214, 3074, 9486

Gateway Chemical Co., 118 Southwest Blvd., Kansas City 8, Mo., 3287-91

*Geigy Agricultural Chemicals, Div. of Geigy Chemical Corp., P.O. Box 430, Yonkers, N.Y., 3292-317, 7667-73.50 (see advertisement on page 115)

*General Aniline and Film Corp., 435 Hudson St., New York 14, N.Y., 323.60-.70, 557.60-.70, 593.50, 802.50, 804.50, 1126.20, 1126.40, 1126.60, 1126.80, 2301-3, 2369-70, 3270.50, 3271, 3271.50, 3272, 3272.50, 5373.50, 5438-41, 6740, 6926, 6926.50, 7046 (see advertisement on page 113)

*General Chemical Div., Allied Chemical Corp., 40 Rector St., New York 6, New York, 271-274.75, 2210.50, 3318-43, 3348-9, 3351-81, 5601-64, 7378 (see advertisement on page 117)

General Minerals Co., P.O. Box 3504, 1104 E. Wendover Ave., Greensboro, N. C., 3383

*General Reduction Co., 212 W. Monroe St., Chicago 6, Illinois, 3384-90, 6634-5 (see advertisement on page 195)

Georgia Kaolin Co., 433 No. Broad St., Elizabeth 3, New Jersey, 6315, 7911

Givaudan-Delawanna, Inc., 321 W. 44th St., New York 36, N.Y., 3398-403

The Gland-O-Lac Co., 19th and Leavenworth Sts., Omaha 2, Nebraska, 3403.50, 3404-18

Glenn Chemical Co., Inc., 2735 N. Ashland Ave., Chicago 14, Illinois, 8343

The Glidden Co., 1717 Summer St., P.O. Box 309, Hammond, Indiana, 3419-22

James Good, Inc., 2107-15 E. Susquehanna Ave. and Martha St., Philadelphia 25, Pa., 3423, 3425-9, 4070, 9335

Grain Processing Corp., Muscatine, Iowa, 6088-9

Great Lakes Chemical Corp., Div. of Great Lakes Oil & Chem. Co., 500 Fifth Ave., New York 36, N.Y., 3436-46

Green Cross Products Div. of Sherwin-Williams Co. of Canada Ltd., 2875 Centre St., P.O. Box 489, Montreal, Quebec, Canada, 3447-83, 3485-512.70, 3516-22, 3524-61, 3563-7

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ew Jersey, 2566-70, 2572-80, 2582, 2584-5,

ical Corp., 441 Lexington Ave., New
91, 6636, 6924, 7052-63, 7065-75, 7077-80,

23, Oregon, 2607-12, 2614
, 2702.50, 2703-12
2952
ianapolis 5, Indiana, 362, 3644-6, 2956-62
York 10, N.Y., 2983, 7048
., Missouri, 1871-81
7163, 7377, 8473
, Florida, 2989-3068
w York 62, N.Y., 279, 1741, 5596 (see

allevrand Ave., Jacksonville 1, Florida,
7648-50, 7903, 9487 (see advertisement

la (see advertisement on page 101)
-80, 3171-8, 5087-90 (see advertisement

& Norris St., Philadelphia 25, Pa., 4041
98.50, 3165.30-.60, 3184, 3186, 3188-9
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irfield and Niagara Divisions
Iowa, 3430, 5266
-41
2-8
d, Conn., 3260

Garden City, L.I., New York, 3573-81
ne, Quebec, Canada, 830-1, 833-6, 3273,

onna, Minnesota, 3279-82
, 3283-5, 5449
e 40, Mass., 376-85
18, Mo., 375, 654, 1853, 5268, 6314,

ty 8, Mo., 3287-91
Corp., P.O. Box 430, Yonkers, N.Y.,
)
York 14, N.Y., 323.60-.70, 557.60-.70,
26.80, 2301-3, 2369-70, 3270.50, 3271,
6926.50, 7046 (see advertisement on

tor St., New York 6, New York, 271-
78 (see advertisement on page 117)
Ave., Greensboro, N. C., 3383
Illinois, 3384-90, 6634-5 (see advertise-

ew Jersey, 6315, 7911
36, N.Y., 3398-403
a 2, Nebraska, 3403.50, 3404-18
go 14, Illinois, 8343
mond, Indiana, 3419-22
rtha St., Philadelphia 25, Pa., 3423,

Chem. Co., 500 Fifth Ave., New York

Canada Ltd., 2875 Centre St., P.O.
12.70, 3516-22, 3524-61, 3563-7

Guard Chemical Co., Inc., N. Water St., Ossining, N.Y., 3224, 3276-7, 5436, 6732-3, 6993.50, 6994, 6997-8, 7000, 7513-5

*Gulf Oil Corp., P.O. Box 1519, Houston, Texas, 3590-5, 7164, 7842 (see advertisement on page 123)

Gustafson Mfg. Co., Inc., P.O. Box 2409, Corpus Christi, Texas, 1348, 1351, 3596

H

Hahn Spray Service, Inc., 2000 N. 6th Ave., Evansville, Indiana, 3599-606

Hanson Equipment Co., Beloit, Wisconsin, 3609-18, 5364

Hardie Manufacturing Co., Div. of Vulcan Iron Works, P.O. Box 570, Wilkes-Barre, Pa., 3619-25

J. M. Harris & Co., 715 3rd St., S.E., P.O. Box 411, Roanoke 3, Va., 2159-64, 5447-8, 7223, 8202, 8207

P. F. Harris Mfg. Co., 101-107 W. 8th St., No. Little Rock, Arkansas, 3626

Hayes-Sammons Chemical Co., Inc., 123 Auditorium Circle, San Antonio 5, Texas, 4544, 5096-104, 5106, 5108-13, 5115-22, 5124-7, 5129, 5131, 5133, 5135-6, 5138, 5140-4, 5146-50, 5152-5, 5157-62, 5164-69, 5171-3, 5177-80, 5182-90, 5193-8, 5200, 5202-6, 5208, 5210-4, 5216-8, 5220-7, 5229-31, 5234-7, 5238-52, 5254, 8408, 8483.50

Hayes Spray Gun Co., 98 N. San Gabriel Blvd., Pasadena 8, Calif., 3627-30

*Hercules Powder Co., Inc., 900 Market St., Wilmington 99, Delaware, 774.30, 774.40, 774.50, 774.60, 774.70, 774.80, 1936.50, 3639.50, 4753, 6926.75, 7714.50, 8491, 8782, 9358.20, 9358.25, 9358.30, 9358.35, 9358.40, 9358.45, 9358.50, 9358.55, 9358.60, 9358.65, 9358.70 (see advertisement on inside front cover)

Hess and Clark, Inc., 7th and Orange St., Ashland, Ohio, 2083, 2175, 2953-4, 3641-2, 6742, 7727, 9308-9

Heyden-Newport Chemical Corp., 342 Madison Ave., New York, N.Y., 8165-6 (see also Nuodex Division)

The Hilo Co., Div. of Natcon Chem. Co., Inc., Lexington Ave., Bethpage, L. I., New York, 3647-56

Hobs-Reliable Chemical Co., 10 Moth Ball Terrace, Passaic, N.J., 3657-62, 5429, 6092-6

Hooker Chemical Corp., 24 Iroquois St., Niagara Falls, N.Y., 3664.30, 3664.60, 3665-6, 6570, 8907-8

Hopkins Agricultural Chemical Co., Box 584, Madison 1, Wisconsin, 3667-769

A. W. Howard Chemical Co., Ltd., P.O. Box 740, Orangeville, Ontario, Canada, 554-5, 1737, 1739-40, 2592.50, 3170, 3193.50, 3433, 3770-7, 4231, 6560, 6919, 8160-3, 9307

Hub States Chemical & Equipment Co., 1255 N. Windsor St., Indianapolis 1, Indiana, 3778-801

Hubbard Hall Chemical Co., 26 Benedict St., Waterbury 20, Conn., 3802-4, 3807-40

J. M. Huber Corp., 630 Third Ave., New York 17, N.Y., 502, 9479-80

H. D. Hudson Mfg. Co., 589 E. Illinois St., Chicago 11, Illinois, 2179, 3841-5, 3847-905, 3907-13, 6351-2, 7249, 7418, 8168

The Huge Co., Inc., 884-886 Hodiamont Ave., St. Louis 12, Missouri, 2383.50, 2384-93, 2384-93, 2396-406, 2409-2410.85, 2415, 2417-8, 2421

Humble Oil and Refining Co., Houston 1, Texas, 2306-16, 2346-57

Huntington Labs. Inc., Huntington, Indiana, 604, 790, 2154-5

Hypro Engineering, Inc., 700-39th Ave., N.E., Minneapolis 21, Minnesota, 3922

I

The Industrial Fumigant Co., 923 State Line Ave., Kansas City 1, Mo., 3994-7, 9373-401

The Industrial Materials Co., 1017 McCall St., Houston 10, Texas, 843, 3977

Insect Control and Res., Inc., 1111 No. Rolling Rd., Baltimore 28, Md., 3924

Insect Control Sales and Services, P.O. Box 152, Candor, North Carolina, 3999, 4000

International Labs., Inc., Buhach Div., Rochester 7, N.Y., 797

J

Jabsco Pump Co., 1485 Dale Way, Costa Mesa, California, 4031

The Jaylin Chemical Corp., 926 N. Hancock St., Philadelphia 23, Pa., 488, 792, 7484-95, 7524-5

*Johns-Manville Sales Corp., Box 290, 22 E. 40th St., New York 16, N.Y., 955, 4818 (see advertisement on page 151)

K

Kenite Corp., Overhill Bldg., Scarsdale, New York, 4068

*W. Alan Kennedy Ltd., 112 McGill St., Montreal 1, Quebec, Canada, 7498-504, 7507-12 (see advertisement on page 187)

The Kilgore Seed Co., Div. of Asgrow Seed Co., 1039 W. Cypress St., Gainesville, Florida, 1890.20, 1890.40, 1890.60, 1890.80, 1569.30, 1569.40, 1569.60, 2985.30, 2985.60, 3978, 4071-156, 4194.50, 4231.20, 4231.40, 4231.60, 4231.80, 4499.50, 6969.50, 8484.50, 8782.50, 8782.75

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King Calcium Products Co., Ltd., Campbellville, Ontario, Canada, 4195-201
King Chemical Co., 2340 So. Lauderdale, Memphis 6, Tenn., 1616, 1918, 7523
The K-R-O Co., 19½ N. Limestone St., Springfield, Ohio, 4420-1
O. W. Kromer Co., 1120 Emerson Ave. N., Minneapolis 11, Minn., 4223-6, 4228-4230.75

L

Lebanon Chemical Corp., Lebanon, Pa., 4407-36
Leffingwell Chem. Co., P.O. Box 1187, Perry Annex, Whittier, Calif., 4436.30, 4436.60, 4437-40, 4442-56, 4458-75, 4477-8
Lester Labs, Inc., Box 4897, Atlanta 2, Ga., 480 ,1554, 4008, 4479, 7224, 7446
Lethelin Products Co., Inc., 15 MacQuesten Parkway, So., Mt. Vernon, N.Y., 652, 4493, 4533-4, 5371-3
O. E. Linck Co., Inc., Junction Rts. 3 & 46, Clifton, N.J., 4495-8, 8454-6, 8458-62
Lorenz Chemical Co., 1024 N. 17th St., Omaha 2, Nebraska, 1563-4, 1886, 3201-10, 4504-14, 5095, 5265, 7417, 7483, 7844, 8632
Los Angeles Chemical Co., 4545 Ardine St., South Gate, Calif., 4234.25, 4234.50, 4234.75, 4235-43, 4245-57, 4260-9, 4271-4, 4276-80, 4284-316, 4318, 4321, 4323-43, 4345, 4347, 4350-61, 4363-8

M

Mack's Anti Weed Gun, 1424 Chicago St., Caldwell, Idaho, 4526
The Mackwin Co., Box 549, Winona, Minnesota, 4527-8
*Magnet Cove Barium Corp., P.O. Box 6504, Houston 5, Texas, 387, 862.70, 2078, 3435, 4529, 6991 (see advertisement on page 143)
Mallinckrodt Chemical Works, 2nd & Mallinckrodt Sts., St. Louis 7, Mo., 465.50, 821, 824.50, 824.60, 824.70, 4222, 4545-7, 6604, 7084, 8641
Malrin Products, Inc., 12200 Denton Drive, Dallas 34, Texas, 4549-51
Marathion, a Div. of American Can Co., Chemical Sales Dept., Menasha, Wisc., 4554
Marlow Pumps Division, Bell & Gosset Co., P.O. Box 200, Midland Park, N.J., 2267
C. J. Martin & Sons, Inc., P.O. Box 6187, 1181 Airport Blvd., Austin 21, Texas, 4557-95, 6745-8
Martindale Electric Co., Box 617, 1375 Hird Ave., Lakewood, Cleveland 7, Ohio, 4596-8
E. M. Matson, Jr. Co., 1716 S. 106th, Seattle 88, Washington, 1690
Maumee Chemical Co., 1310 Expressway Dr., Toledo 8, Ohio, 4369
McLaughlin Gormley King Co., 1715 S.E. Fifth St., Minneapolis 14, Minn., 4803-5, 4807-14, 7091-3, 7095-90, 7094, 7094.50, 7099
*Metalsalts Corp., 200 Wagaraw Rd., Hawthorne, N.J., 4755-65 (see advertisement on page 153)
Theodore Meyer Estate, 213 S. 10th St., Philadelphia 7, Pa., 535, 4798-801, 5564
Michigan Chemical Corp., 500 N. Bankson, St. Louis, Michigan, 6594-9 (see advertisement on page 155)
*Milfred Co., 1516 Fifth Ave., Pittsburgh 19, Pa., 4831-4, 5261 (see advertisement on page 149)
*Miller Chemical & Fertilizer Corp., 3006 W. Cold Spring Land, Baltimore 15, Md., 4835-932
*Miller Products Co., 7737 N. E. Killingsworth, Portland 18, Oregon, 4838.50, 4933-5059, 5061-80, 5082-3 (see advertisement on page 157)
*Mine Safety Appliances Co., 201 N. Braddock Ave., Pittsburgh 8, Pa., 5342-53 (see advertisement on page 153)
*Minerals & Chemicals Philipp Corp., 32 Essex Tpk., Menlo Park, N.J., 462-5 (see advertisement on page 41)
Mississippi Lime Co., Alton, Illinois, 5255-7
Molded Fiber Glass Companies, 4645 Benefit Ave., Ashtabula, Ohio, 4802
Mona Industries, Inc., Paterson 17, N.J., 5269-72
Monarch Mfg. Works, Inc., 2501 E. Ontario St., Philadelphia 34, Pa., 5273-84
Monsanto Chemical Co., Organic Chemicals Div., 800 Lindbergh Blvd., St. Louis 66, Mo., 5286.30, 5286.60, 5287-324
Montrose Chemical Co., 1001 Lister Ave., Newark 5, N.J., 5325-7
Morton Chemical Co., Agricultural Div., 110 N. Wacker Dr., Chicago 6, Ill., 2166-7, 4395-400, 4735, 5329-30, 6067, 6075-82, 9305.50, 9481
Motomco, Inc., 89 Terminal Ave., Clark, N.J., 6637-9
Munson Mill Machinery Co., 210 Seward Ave., Utica 4, N.Y., 5368-70
Edgar A. Murray Co., Div. of Fairfax Biol. Lab., Clinton Corners, N.Y., 327, 2111, 4040, 4817, 7222, 7383

N

Nalco Chemical Co., 6216 W. 66th Place, Chicago 38, Illinois, 5424-6
*Narvon Mines, Ltd., 30 Keller Ave., Lancaster, Pa., 5430-1 (see advertisement on page 187)
National Kaolin Products Corp., Aikey, S. Carolina, 5432
Nederlandsch Verkoopkantoor voor Chemische Producten N. V., Mauritskale 63, Amsterdam-O. Holland, 4213, 8464

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Texas, 387, 862.70, 2078, 3435, 4529,

St. Louis 7, Mo., 465.50, 821, 824.50,

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Dept., Menasha, Wisc., 4554
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rt Blvd., Austin 21, Texas, 4557-95.

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gton, 1690
Ohio, 4369
neapolis 14, Minn., 4803-5, 4807-14,

5-65 (see advertisement on page 153)
Pa., 535, 4798-801, 5564
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261 (see advertisement on page 149)
g Land, Baltimore 15, Md., 4835-932
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Dr., Chicago 6, Ill., 2166-7, 4395-400,

N.Y., 5368-70
nton Corners, N.Y., 327, 2111, 4040,

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-1 (see advertisement on page 187)
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n N. V., Mauritskale 63, Amsterdam-

Neville Chemical Co., Neville Island, Pittsburgh 25, Pa., 3608, 5443-6
New York Scientific Div. of Welch Sci. Co., 331 E. 38th St., New York 16, N.Y., 5451-73
*Niagara Chemical Div., Food Machinery & Chemical Corp., Middleport, N.Y., 2282-3, 4212, 5474-97, 5499-551, 7722-6 (see advertisement on page 169)
Nixalite Co. of America, P.O. Box 817, Rock Island, Illinois, 5557
Noble Manufacturing Co., Sac City, Iowa, 1218, 5558, 7721
Nopco Chemical Co., 60 Park Place, Newark 1, N.J., 142, 144-6, 156, 7644
Nott Manufacturing Co., Box 832, Poughkeepsie, N.Y., 328, 536, 794, 1362, 1800-1, 2109, 2598, 3071, 3265, 4830, 5262, 5267, 5340, 5565-80, 6728, 7227, 7236, 7645, 7728, 8201, 8203, 8211, 8896-902, 9311, 9318
Nuodex Products Div. Heyden-Newport Chem. Corp., Box 242, Elizabeth, N.J., 3269-70, 5593.30, 5593.35, 5593.40, 5593.45, 5593.50, 5593.55, 5593.60, 7164.60, 8200.50
Nutrilite Products, Inc., 5600 Grand Ave., Buena Park, Calif., 5586-90

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Ohio Lime Co., Woodville, Ohio, 5599
*Olin Mathieson Chemical Corp., 745 Fifth Ave., New York 22, N.Y., 4688-734 (see advertisement on page 247)
Onyx Chemical Co., Industrial Div., 190 Warren St., Jersey City 2, N.J., 5591
Osmose Wood Preserving Co. of America, Inc., 980 Ellicott St., Buffalo 9, N.Y., 1617, 5433, 6004-6, 6571

P

Pacific Supply Co-op., P.O. Box 4380, Portland 8, Oregon, 6010-23, 6025-58, 6061-6, 6069
*Pan American Laboratories, P.O. Box 1546, Brownsville, Texas (see advertisement on page 157)
Parsons Chemical Works, P.O. Box 146, Grand Ledge, Mich., 6098-178
Pax Co., 580 W. 13th St., P.O. Box 2310, Salt Lake City 10, Utah, 2065, 6311.50, 6312, 4012
Pearson & Co., P.O. Box 431, Mobile, Alabama, 6318-50
Pearson-Ferguson Chemical Co., Inc., 1400 Union Ave., Kansas City 1, Mo., 6182-207, 6209-47, 6249-311
S. B. Penick and Co., 100 Church St., New York 8, N.Y., 270, 1964-6, 2330, 3213, 4069, 5583, 6353-99, 6743-4, 6921, 6924.50, 6925, 7051, 7077.20, 7077.30, 7077.40, 7077.50, 7077.60, 7077.70, 7080-3, 7416, 7449, 7711, 7713, 8176.50, 8177-9, 8800
*Pennsalt Chemicals Corp., 2901 Taylor Way, Tacoma 2, Washington, 360.50, 3920-1, 6404-8, 6410-559 (see advertisement on page 191)
Penna. Farm Bureau Coop. Assoc., P.O. Box 23, Harrisburg, Pa., 2600-6
Penna. Refining Co., 104 S. Main St., Butler, Pa., 6401-2
*Pest Control Equipment Co., 25 No. Bond St., Mt. Vernon, N.Y., 4516-24, 6214.20, 6314.30, 6214.40, 6214.50, 6314.60, 6314.70, 6582-90 (see advertisement on page 187)
*Pest Control Magazine, 1900 Euclid Ave., Cleveland 15, Ohio (see advertisement on page 241)
Petrochemicals Co., 1825 E. Spring St., Long Beach 6, Calif., 6601
Phillips Petroleum Co., Bartlesville, Oklahoma, 6605-6.50, 7836
Pied Piper Co. Ltd., 3129 Kingsway, Vancouver, B.C., Canada, 6617-33
Pittsburgh Plate Glass Co., Corona Chem. Div., New Albany Road, Moorestown, N.J., 1654-83, 1685-89, 6742.20, 6742.40, 6742.60, 6742.80
Plant Products Corp., Kennedy Ave., Blue Point, L. I. City, N.Y., 5552, 6007, 6640, 6642-6, 6727, 6729, 7731, 8467-8
Planters Chemical Corp., 3111 Virginia Beach Blvd., Norfolk 16, Va., 6647-726
Poulsen Co., 2341 E. 8th St., Los Angeles 21, Calif., 6741
B. G. Pratt Co., 201 21st Ave., Paterson 21, N.J., 6749-823
*Prentiss Drug and Chemical Co., Inc., 101 W. 31st St., New York, N.Y., 6825-60, 6862-918 (see advertisement on page 201)
Protection Prods. Mfg. Co., Box 747, 2305 Superior Ave., Kalamazoo 99, Mich., 6929-30, 9442-3
Pulmosan Safety Equipment Co., 644 Pacific St., Brooklyn 17, N.Y., 6992
Pulverizing Machinery Co., Div. of American-Marietta Co., 29 Chatham Rd., Summit, N.J., 491, 4823-9
Pure Oil Co.—see American Mineral Spirits Division
The Puro Co., Inc., 2801-05 Locust St., St. Louis 3, Mo., 325, 5094, 5338, 7041-4, 7220, 7381
Pyrrole Chemical Corp., 817 Spring Lane, Portsmouth, Ohio, 7100-61

R

Ralston Purina Co., Checkerboard Sq., St. Louis 2, Mo., 7002-40
W. G. Reardon Labs., Inc., 330 N. Main St., Port Chester, N.Y., 5341
Record Chemical Co., Inc., 840 Montee de Liesse Rd., Montreal 9, Quebec, Canada, 469-70, 5428, 7241.50, 7242-8

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Reichhold Chemicals, Inc., RCI Bldg., White Plains, N.Y., 1555-8, 7312
Republic Chemical Corp., 94 Beekman St., New York 38, N.Y., 7317-8
***Residex Corp.**, 225 Terminal Ave., Clark, N.J., 7326-59 (see advertisement on page 213)
Rex Research Corp., P.O. Box 3415, Station C, Toledo 7, Ohio, 2278, 3073, 3194, 3197, 5337, 5595, 7232, 7320-2, 7325, 7385, 7843, 8159
Richfield Oil Corp., 555 S. Flower St., Los Angeles 17, Calif., 7364-9, 8796-7
Robeco Chemicals, Inc., 25 E. 26th St., New York, N.Y., 7387-93
***Roberts Chemicals, Inc.**, Box 446, Nitro, West Virginia, 294, 2086-7, 3640, 7394-8 (see advertisement on page 59)
Rockland Chemical Co., Passaic Ave., West Caldwell, N.J., 328.50, 4009, 4203-4, 6403, 7223.75, 7370, 7399-411, 7413-14.75, 9265
***Rohm and Haas Co.**, 222 W. Washington Sq., Philadelphia 5, Pa., 2089-95, 3915-9, 4046-7, 4056-60, 4491-2, 4503, 4737, 6576-8, 7360-3, 7910, 8909 (see advertisement on page 83)
Root-Lowell Corp., 445 Lake Shore Dr., N., Chicago 11, Illinois, 7419-22
Rose Exterminator Co., 1809 W. North Ave., Chicago 22, Illinois, 7425-6
I. D. Russell Co. Labs., 25 and Harrison, Box 1, Kansas City 41, Mo., 3192, 7162, 7319, 7448

S

S & S Co., P.O. Box 45, Albany, Georgia, 7451
Safety Fumigant Co., 158 State St., Boston 9, Mass., 7452-5
Samincorp, Shepard Div., Samincorp South American Minerals & Merchandise Corp., 425 Park Ave., New York 22, N.Y., 7456-82
Sayman Prods. Co., 2101 Locust St., St. Louis 3, Mo., 4044
O. M. Scott & Sons Co., East Sixth St., Marysville, Ohio, 644-47.50, 1568, 1607.50, 2064, 2355, 3607, 3631, 4045, 4211, 4234, 7522, 9453
Scott Turbafog, Box 246, Auburn, Indiana, 8971
Seacoast Labs., Inc., 156-158 Perry St., New York 14, N.Y., 8975-9014
Sennewald Drug Co., 2723 Choutcau Ave., St. Louis 3, Mo., 7651-7, 7659-61, 7663-6
***Shell Chemical Corp.**, 110 West 51st St., New York 20, N.Y., 257, 277, 360, 549.50, 1562, 1887, 2066, 2325, 5442, 6607, 7686, 9264 (see advertisement on page 223)
Sherwin-Williams Co., 101 Prospect Ave., N.W., 1113 Guild Hall Bldg., Cleveland 1, Ohio, 1891-3, 2081, 4048-9, 5354, 7687-709, 7883, 7904, 8164, 8176
Shield Chemical Co., Inc., 21 University Rd., Canton, Mass., 7710
Shulton, Inc., Clifton, N.J., 748-54
Signal Oil and Gas Co., Houston Div., P.O. Box 5008, Houston 12, Texas, 2238-45
Silver Creek Precision Corp., Silver Creek, N.Y., 4822
D. B. Smith & Co., Inc., Station Place, Utica 2, N.Y., 7788-814
Smith Chemical Co., 645 E. 4th Ave., Grand Junction, Colorado, 8149-5
Socony-Mobil Oil Co., Inc., 150 E. 42nd St., New York 17, N.Y., 157, 5263.50, 5264, 6927-8, 7839
Sole Chemical Corp., 7740 S. Chicago Ave., Chicago 19, Illinois, 7825-6, 7828-9, 7829.50
Solo Industries, Inc., 37-41 57th St., Woodside 77, N.Y., 7834-5
Solvit Chemical Co., Inc., 3734 Speedway Rd., Madison 5, Wisconsin, 4053-4, 7219, 7838, 7838.50, 7838.60, 7838.70
Southeastern Clay Co., P.O. Box 1022, Aiken, S.C., 9015, 9276
Southern Mill Creek Prods. Co., P.O. Box 4297, Tampa, Florida, 7732-85
F. M. Speekman Co., 241 Quint St., San Francisco 24, Calif., 7848-50, 7852-3, 7857-9, 7861-7, 7870, 7873-4
Spencer Chemical Co., Dwight Bldg., Kansas City 5, Mo., 844
Spraying Systems Co., 4654 Oakton St., Skokie, Illinois, 57, 3595.50, 5355, 8465-6, 8870
Sprout-Waldron and Co., Inc., Muncy, Pa., 7904.50, 7905-8
Standard Laboratories, Inc., 201 Tabor Rd., Morris Plains, N.Y., 3663
C. W. Staples, Inc., P.O. Box 328, Presque Isle, Maine, 7913-7
Star Enterprises, Inc., 212 E. York St., Cassopolis, Michigan, 1811-2
***State College Labs.**, P.O. Box 492, State College, Pa., 4530-2, 7428, 7884 (see advertisement on page 59)
***Stauffer Chemical Co.**, 380 Madison Ave., New York 17, N.Y., 4534.30, 4534.60, 7933-58, 7960-87.75, 7990-8023, 8025-55, 8057-104 (see advertisement on page 229)
Stayner Corp., 2531 Ninth St., Berkeley 10, Calif., 8105
Stecker Chemicals, Inc., 50 N. Franklin Tpk., Ho-Ho-Kus, N.J., 70.50, 408.50, 7164.20, 7164.30, 7164.40, 7164.50, 8676
Stepan Chemical Co., Edens & Winne, Chicago 6, Illinois, 8789-95
Stephenson Chemical Co., P.O. Box 188, College Park, Georgia, 2169-74, 3069-70, 7315, 8107-48
The Sterling Co., Inc., 2801-05 Locust St., St. Louis 3, Missouri, 326, 5091-3, 5339, 7221, 7382
Stevens Industries, Inc., Dawson, Georgia, 4599-687
Sturtevant Mill Co., 123 Clayton St., Boston 22, Mass., 8169-75
Summit Chemical Co., 12 E. 24th St., Baltimore 18, Md., 8183-90
Summit Industries, Aspers, Pennsylvania, 7675
Sun Oil Co., 1608 Walnut St., Philadelphia 3, Pa., 8191-200

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.Y., 1555-8, 7312
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N.J., 328.50, 4009, 4203-4, 6403, 7223.75,

delphia 5, Pa., 2089-95, 3915-9, 4046-7,
909 (see advertisement on page 83)
1, Illinois, 7419-22
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as City 41, Mo., 3192, 7162, 7319, 7448

52-5
Minerals & Merchandise Corp., 425

4044
io, 644-47.50, 1568, 1607.50, 2064, 2335,

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, Mo., 7651-7, 7659-61, 7663-6
N.Y., 257, 277, 360, 549.50, 1562, 1887,
nt on page 223)
Guild Hall Bldg., Cleveland 1, Ohio,
54, 8176
Mass., 7710

Houston 12, Texas, 2238-45

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Georgia, 2169-74, 3069-70, 7315, 8107-48
Missouri, 326, 5091-3, 5339, 7221, 7382

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Superior Chemical Products, Inc., 47 N. Second St., Philadelphia 6, Pa., 8212-7, 8219-45
Superior Fertilizer & Chemical Co., P.O. Box 1021, Tampa, Florida, 8245.50, 8245.75, 8246-56
Swift and Co., 115 W. Jackson Blvd., Chicago 4, Illinois, 2317-24, 8409-40
Sylvan Chemical Corp., 19-25 Sylvan Ave., Englewood Cliffs, N.J., 1614-4, 7822

T

Tamms Industries Co., 228 North LaSalle St., Chicago 1, Illinois, 8446-50
The Tanglefoot Co., Tanglefoot Bldg., 314 Straight Ave., S.W., Grand Rapids 4, Michigan, 563, 563.50, 2071-3, 3992-3, 8451-3, 8798-9
Tatamy Products Co., Tatamy, Pa., 4747-52
Taylor Chemical Co., P.O. Box 337, Aberdeen, N.C., 8257-327, 8678.32-8678.90
***Tenneco Oil Co., Petrochemical Sales,** P.O. Box 18, Houston 1, Texas, 8474-6 (see advertisement on page 243)
***Tennessee Corp.,** P.O. Box 2205, Atlanta 1, Georgia, 1610, 2337, 2988, 4821, 5592-3, 8477-82, 9481.50 (see advertisement on page 245)
Thomas Alabama Kaolin Co., 2412, Ken Oak Rd., Baltimore 9, Maryland, 8445
Thompson Chemicals Corp., 3600 Monon St., Los Angeles 27, Calif., 689-95, 1798.50, 3572, 3769.50, 5366, 6738, 7316, 7223.25, 7424, 8644-55, 8657-6, 8668-9, 9314, 9337-44
Thompson-Hayward Chemical Co., P.O. Box 768, 2915 Southwest Blvd., Kansas City 8, Mo., 1895.05, 1895.10-.95, 1941.01-.99, 4213.50, 5584, 6571.50
Tobacco States Chemical Co., P.O. Box 479, Lexington, Kentucky, 1795.50, 8679-780
Tobe's (Niagara Hortciultural Products), Box 313, St. Catherines, Ontario, Canada, 5498, 7912
***Todd Shipyards Corp., Products Div.,** Columbia and Hallect St., Brooklyn 31, N.Y., 8672-4 (see advertisement on page 249)
Triangle Chemical Co., P.O. Box 1501, Macon, Georgia, 8801-68
Trio Chemical Works, Inc., 341-347 Scholes St., Brooklyn 6, N.Y., 8873-95
Troy Chemical Co., 338 Wilson Ave., Newark 5, N.J., 8951-8
Tryco Mfg. Co., Inc., P.O. Box 1277, 1160 S. Monroe St., Decatur, Illinois, 8960-8
Tull Chemical Co., Inc., P.O. Box 246, Oxford, Alabama, 8970

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Uncle Sam Chemical Co., Inc., 573-577 W. 131st St., New York 27, N.Y., 461.50, 3214-5, 3393, 4011, 4194, 5581, 5598, 6085, 6574, 6591-3, 7384, 7819, 7845, 9018, 9221, 9266
***Union Carbide Chemicals Co., Div. of Union Carbide Corp.,** 270 Park Ave., New York 17, N.Y., 1802-3, 7681-82.70, 7909 (see advertisement on page 221)
United Clay Mines Corp., 101 Oakland St., Trenton, N.J., 1.50, 503, 2422, 3228, 6575, 9213
United Co-operatives, Inc., P.O. Box 836, 111 Glamorgan St., Alliance, Ohio, 9019-31, 9034-44, 9046-57, 9059-110, 9112-28, 9131-54
United States Rodent Destroyer Co., P.O. Box 366, Stayton, Oregon, 1894
The United States Rubber Co., Naugatuck Chemical Div., Naugatuck, Conn., 195-.60, 197, 366.50, 367-8, 604.50, 2207, 2599, 3434, 4815, 4816.50, 5600.50, 6611.50, 6611.75, 6612-3, 7875-80, 8638, 8640, 8669.50
United States Sanitary Specialties Corp., 1001 So. California Ave., Chicago 12, Ill., 1967, 4157, 5585, 8156
Universal Electric Products Co., 4200 Sycamore Ave., P.O. Box 3216, Madison 4, Wisc., 9214
The Upjohn Co., Agr. Chemicals Div., Kalamazoo, Michigan, 55.10, 55.20, 55.30, 55.40, 55.50, 55.60, 55.70, 655.50, 655.75, 2329
U. S. Borax & Chemical Corp., 3075 Wilshire Blvd., Los Angeles, Calif., 538, 648, 1885, 5285, 6739, 9215-8

V

Vaccinol Products Co., P.O. Box 3205, Memphis 9, Tenn., 9222-6
Valley Chemical Co., Box 1317, Greenville, Miss., 9234-8, 9240-7
R. T. Vanderbilt Co., Inc., 230 Park Ave., New York 17, N.Y., 1604, 1870, 2176, 7049-50, 9248-55, 9257-62
Var-Lac-Oid Chemical Co., 116 Broad St., New York 4, N.Y., 9272
***Velsicol Chemical Corp.,** 341 E. Ohio St., Chicago, Illinois, 487, 492, 1549, 2326, 3636, 4795, 9277-80.30 (see advertisement on page 93)
Vet-Kam Laboratories, 12200 Denton Dr., Dallas 34, Texas, 4061-7, 9281
***Vineland Chemical Co.,** West Wheat Rd., Vineland, N.J., 1796-8, 1869, 4500-1, 4738.50, 5562, 8204-6, 8642-3, 9282 (see advertisement on page 261)
Virginia-Carolina Chemical Corp., 401 E. Main St., Richmond 8, Va., 3211-2, 6608-10, 9274
Virginia Smelting Co., West Norfolk 10, Va., 4480-90

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W

Westchester Veterinary Products, 180 Mamaroneck Ave., White Plains, N.Y., 2157-8, 4741.50
Weyerhauser Co., Tacoma Bldg., Tacoma 1, Wash., 7714, 9360-1
Whittaker, Clark and Daniels, Inc., 100 Church St., New York 7, N.Y., 9363
C. K. Williams & Co., 4650 Shellmound St., Emeryville 8, Calif., 9289
Willson Products Div. of Ray-O-Vac Co., Second and Washington Sts., Reading, Pa., 9364-72
Jack Wilson Chemical Co., P.O. Box 809, Stockton, Calif., 2062, 4033-8
Wipp Pest Control Co., 282 Pett St. E., Windsor, Ontario, Canada, 482, 4001, 7047, 9402-3
Wisconsin Alumni Research Foundation, P.O. Box 2217, 506 N. Walnut St., Madison 5, Wisc., 6923, 9310
*Witco Chemical Co., Inc., 122 E. 42nd St., New York 17, N.Y., 2284-97 (see advertisement on page 91)
Wolman Preservatives Dept., Koppers Co., Inc., 763 Koppers Bldg., Pittsburgh 19, Pa., 9404
Woodbury Chemical Co., P.O. Box 788, St. Joseph, Mo., 493, 4002, 4032, 4404, 4535-7, 5084-6, 7064, 7833, 8328-42, 8344, 8346-52, 8354-87, 8389-406, 8678, 9405-8, 9417, 9419, 9421-3, 9425-40
*Woodridge Chemical Corp., Park Place East, Wood Ridge, N.J., 2985, 3268, 4743-6, 6603, 7820, 9409-15, 9482
*Woolfolk Chemical Works, Ltd., Box 922, Fort Valley, Ga., 332-3, 543, 2063, 2067, 2096-8, 2327, 3643, 4797, 5594, 6070-3, 6084, 7450, 7527-62, 7564-6, 7568-604.50, 7606-8, 7611-7, 7619-39.50, 8871-2 (see advertisement on page 217)

X, Y, Z

Xterminator Products Corp., 219 Monticello Ave., Jersey City 4, N.J., 9299-305
York Chemical Co., Inc., 23 Dean St., Brooklyn 1, N.Y., 987-94
The Young Machinery Co., Inc., Painter & Schuyler Sts., Muncy, Pa., 9462-77
Zonolite Co., P.O. Box 217, Travelers Rest., South Carolina, 8486, 9485

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Article 1 Next Article

Industrial biocides: six decades of innovation.

1400 words
1 January 1999
Speciality Chemicals
20(1)
ISSN: 0262-2262
English
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CREANOVA was formed last year, but the company's biocidal products range is based on years of experience in the field.

CREANOVA Inc., a Huls Group company, provides high-quality colorants, biocides and raw materials for architectural and industrial coatings; intermediates and fine chemicals for the pharmaceutical, cosmetic, photographic, agricultural and food industries; engineering plastics; speciality polymers for adhesives and coatings; surfactants; and heat transfer fluids. The company employs about 1,000 people in the USA, Canada, Mexico, the Netherlands, Australia and New Zealand. In 1997 the company's annual revenues were US$550 million.

CREANOVA's parent company, Huls AG, has eleven separate globally operating subsidiaries and is wholly owned by one of Germany's largest diversified corporations, VEBA AG. The Huls Group of companies also includes CREANOVA Spezialchemie GmbH, OXENO Olefinchemie GmbH, SIVENTO Chemie GmbH, Vestolit GmbH, Phenolchemie GmbH & Co. KG, Stockhausen GmbH & Co. KG, Rohm GmbH, MEMC Electronic Materials, Inc. and CREAVIS Gesellschaft fur Technologie und Innovation mbH. The companies of the Huls Group employ about 28,000 people worldwide, and annual revenues are about $7 billion.

Huls has steadily pursued growth through product and geographic diversification in business areas where its companies have technological, manufacturing and marketing strengths. Through internal expansion and acquisitions, the Huls Group's global presence has increased significantly over the past decade, particularly in North America.

In 1985, Huls acquired **Nuodex** Inc. (formerly a part of **Tenneco** Chemicals), a producer of colorants, paint and plastics additives, biocides and lubricants. Two years later, Huls acquired the chemical and plastics operations of Dynamit Nobel AG and in 1988 consolidated the American operations of both businesses to form Huls America Inc. Most recently, the company purchased the inks and pigments business of Yorkshire Pty in Australia and New Zealand. In 1998 Huls America Inc. changed its name to CREANOVA Inc.

Today, the company serves a wide network of growing industrial markets with both domestically produced and imported products.

Protecting paints and coatings

CREANOVA Inc. biocides prevent the growth of micro-organisms from the time a coating goes into the can until long after it has been applied. In addition to providing cost-effective protection, the company's preservatives and fungicides are shelf-stable, compatible, and easy to handle. At the plant, in-can preservatives guard against possible spoilage before the can is sealed. Once a coating is applied, fungicides inhibit mildew from forming on the dry film. Table 1 lists some of the company's in-can preservative products.

Table 1. In-can preservatives from CREANOVA.

Trade name Active ingredient Typical use level

NUOSEPT 95 Mixture of bicyclic 0.2-0.3 oxazolidines (50%) NUOSEPT 145 Oxazolidine-based 0.2-0.3 bactericide (50%) NUOSEPT 166 4,4-Dimethyloxazolidine 0.2-0.3 (66%) NUOSEPT 101 4,4-Dimethyloxazolidine 0.2-0.3 (66%) NUOSEPT 91 2[(Hydroxymethyl)amino] 0.1-0.2 ethanol (100%)

Trade name Physical form Comments

NUOSEPT 95 Liquid Non-yellowing NUOSEPT 145 Liquid Non-yellowing NUOSEPT 166 Liquid Particularly useful for high pH water-based applications NUOSEPT 101 Liquid Particularly useful for high pH applications NUOSEPT 91 Liquid Particularly useful for high pH applications - may cause slight yellowing CREANOVA built its product line on six decades of research and innovation by the **Nuodex** company, which in the 1940s did the first laboratory studies of paint mildew and fungal

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deterioration. Today the company offers a very wide range of industrial biocides, including non-leaching fungicide and algaecide products that provide long-lasting protection. Some of these products are listed in Table 2.

Table 2. Fungicides and algicides from CREANOVA.

Trade name Active ingredient Typical use level

NUOCIDE 960 Tetrachloroisophthalonitrile 0.5-1.2 (96%) NUOCIDE 404-D Tetrachloroisophthalonitrile 0.75-2.5 (40.4%) NUOCIDE 1071 N-Cyclopropyl-N- 0.05-0.2 (1,1-dimethyl)-6-(methylthio)- 1,3,5-triazine-2,4-diamine (96%) FUNGITROL 11 N-(Trichloromethylthio) 0.5-1.0 phthalimide (88%) FUNGITROL C N-Trichloromethylthio- 0.5-1.0 4-cyclohexene-1,2-dicarboximide (88%)

Trade name Physical form Comments

NUOCIDE 960 Powder For water-based coatings, solvent-based coatings, plastics and non-food adhesives. NUOCIDE 404-D Liquid dispersion For water-based coatings, non-food adhesives, grouts, stains, caulks, sealants, joint compounds and wood preservative stains NUOCIDE 1071 Powder Broad-spectrum algicide for aqueous paints and coatings FUNGITROL 11 Powder Fungicide for solvent-based coatings, vinyl and plastics FUNGITROL C Powder Fungicide for solvent-based coatings and plastics. Developing products for the changing global marketplace

When legislative measures and environmental concerns demanded alternatives to mercurial biocides, CREANOVA responded with FUNGITROL[R] 11 fungicide and NUOSEPT[R] 95 preservative. These products helped customers change to non-mercurial biocides without sacrificing performance. FUNGITROL 11 is also effective for vinyl and plastics. NUOSEPT 95 has a long record of superior performance and excellent compatibility.

For latex paints, NUOCIDE[R] 960 fungicide and its liquid dispersion form, NUOCIDE 404-D, were developed. NUOCIDE 960 may also be used in solvent-based paints.

The acquisition of Cosan Chemical Corporation's non-mercurial biocides in 1990 expanded the product range, as well as the company's biocides for adhesives, joint compounds, and other areas. Today its extensive product range provides microbial protection not just for paints and coatings but also for cosmetics, emulsions, slurries and other applications. In 1996, the company introduced NUOSEPT 495 patented BIT formulation for in-can preservation and NUOCIDE 1071 to prevent algal growth on painted surfaces.

A complete range of industrial biocides

CREANOVA biocides are used in many raw materials, intermediates and finished products. When used properly, they effectively and efficiently prevent the growth of spoilage micro-organisms without adversely affecting the appearance or performance characteristics of the final product.

Preservatives

The company's NUOSEPT in-can preservatives protect in a variety of applications, including latex paints and emulsions, caulking and joint compounds, pigment slurries and dispersions, inks and adhesives.

Fungicides and algicides

NUOCIDE and FUNGITROL fungicides and algicides keep solvent- and water-based paints and coatings free of mildew. These non-leaching fungicides stay in the film and protect the paint for longer.

Technical service

CREANOVA Inc.'s technical service centre provides specialised expertise in formulation, compatibility, microbiology and test fence studies. Using advanced equipment, the company's microbiologists, chemists and technicians help customers with both product selection and solutions to technical problems. CREANOVA will continue to expand its microbiological laboratory capabilities to reinforce its biocides research and development.

Laboratory testing

CREANOVA's Technical Service Laboratory offers a wide range of biocidal efficacy testing to solve biocidal problems, including:

* In-can preservative efficacy

* Presumptive challenge testing (in-can preservation)

* Accelerated fungicidal efficacy (agar plate assay)

* Accelerated algicidal efficacy

* Evaluation of plant samples for microbial contamination

* Detection of cellulolytic enzymes (which, among other problems, cause cellulosic-thickened products to lose viscosity)

* Kill rate [D-10] Minimum Inhibitory Concentrations (MICs) and other microbiological assays

* Identification of biodegradation problems

* Isolation and identification of Spoilage micro-organisms

* ASTM test methods (including G21 and D3273)

* Federal Military Specifications

* Environmental Chamber Exposures

* Accelerated weathering (QUV, WeatherOmeter, leaching studies)

* Cosmetics and toiletries package stability testing (28 day, CTFA, AOAC, ASTM, CSMA)

* Wood preservative efficacy

* Soil burial testing

* Textile, vinyl, plastics and other specialised evaluations

* Aquatic biofouling resistance

* Custom methods for a particular application or need

Test fence laboratory

To demonstrate and evaluate the different effects of biocides, CREANOVA's laboratory annually prepares panels of nearly all competitive fungicides and algicides in a variety of systems for exposure on its four regional test fence sites. The company can also exposure-test customers' paint systems. It also compares the performances of actual test fence exposure to the corresponding accelerated fungicidal and algicidal testing.

Plant housekeeping and on-site support

Good plant housekeeping is the first and most important measure in protecting products. CREANOVA offers extensive support with in-plant inspections to identify problem areas, plant housekeeping and monitoring procedure set-ups, and sterility tests, it also offers assistance in setting up an in-house QC biolaboratory to monitor raw materials, wash water, and finished products for sterility. Onsite seminars and training for operations and technical personnel are other activities on offer from the company.

Reader Reply Card No. A103

Further information:

For further information contact CREANOVA, Inc., 220 Davidson Avenue, Somerset, NJ 08873, USA. ?? Tel: Int+1-732-5606800. Fax: Int+1-732-560386.

Document splc000020010829dv110000k

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Related Factiva Intelligent Indexing™ +

Article 3 Previous Article | Next Article

Lloyd's List

Tenneco Inc has sold its Tenneco Chemicals subsidiary to Nuodex for some $50 million.
25 words
29 December 1982
Lloyd's List International
10
English
(c) 1982 of Lloyd's of London Press Limited

Nuodex *is a private company established by former employees of* ***Tenneco****.*

Document ll00000020011206dect0084q

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Article 4 Previous Article

DOW JONES Newswires

TENNECO SELLS CHEMICALS UNIT FOR MORE THAN $50 MILLION
130 words
23 December 1982
Dow Jones News Service
English
(Copyright (c) 1982, Dow Jones & Co., Inc.)

HOUSTON -DJ- **TENNECO** INC. SOLD 'SUBSTANTIALLY ALL' OF ITS **TENNECO** CHEMICALS INC. UNIT TO **NUODEX** INC. A PRIVATE COMPANY HEADED BY EX-EMPLOYES OF **TENNECO** CHEMICALS **NUODEX** SAID.

A **NUODEX** SPOKESMAN SAID **TENNECO** RECEIVED IN EXCESS OF $50 MILLION FOR THE UNIT. HE SAID THE OPERATIONS PURCHASED HAVE ANNUAL REVENUES IN EXCESS OF $150 MILLION.

IN ADDITION **TENNECO** RECENTLY SOLD A CHEMICALS PLANT IN GARFIELD N.J. AND ANOTHER PLANT IN NEWTON-UPPER FALLS MASS.

3 47 PM

-0-

THE SPOKESMAN SAID ASSETS PURCHASED INCLUDE SEVEN COATING AND COLORANT PLANTS, THREE SPECIALTY-CHEMICALS PLANTS AND A PLASTIC PLANT.

FRANK X. DWYER, FORMERLY EXECUTIVE VICE PRESIDENT AND GENERAL MANAGER OF **TENNECO** CHEMICALS, IS PRESIDENT AND CHIEF EXECUTIVE OFFICER OF THE NEW COMPANY.

Document dj00000020011126decn013ox

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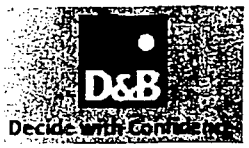

Comprehensive Report

CREANOVA INC

D-U-N-S® Number 04-482-5909

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ATTN: **jbenthin@intell-group.com**

Report Printed: JUL 17 2006

Back To Report Archive
New Search

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Overview | Scores | Payments | Public Filings | History & Operations | Banking & Finance

OVERVIEW
Business Summary
Credit Capacity Summary
Special Events
SCORES
Financial Stress
Credit Score Class
PAYMENTS
PUBLIC FILINGS
Liens
Suits
UCC Filings
HISTORY & OPERATIONS
BANKING & FINANCE
Customer Service
WEB RESOURCES
Business's Web Site
NOW WITH THIS REPORT
Credit Limit Recommendation
D&B RESOURCES
Full Glossary of Terms
Making Better Credit Decisions
Interpreting D&B Ratings and Scores
Understanding Financial Statements
Understanding Key Business Ratios
Submit a Credit Reference on this Business

Overview

BUSINESS SUMMARY

About Business Summary

CREANOVA INC
(SUBSIDIARY OF DEGUSSA CORPORATION, PARSIPPANY, NJ)
220 Davidson Ave
Somerset, NJ 08873

NEW!
D&B's Credit Limit Recommendation
How much credit should you extend?
Learn More View Now

D&B D-U-N-S Number: 04-482-5909

Our information indicates this business is no longer active at this location. If you have reason to believe this business is currently operating, please call our Customer Service Center at the phone number listed below to request an investigation.

This is a **single (subsidiary)** location.

Web site:	www.degussa.com
Telephone:	DISCONNECTED
Chief executive:	WOLFGANG MINNERUP, PRES-CEO
Employs:	1,000
Net worth:	$169,513,000
History:	INCOMPLETE
Financing:	SECURED
SIC:	2869 2821 3081
Line of business:	Mfrs colorants & coatings, chemicals, plastics and performance products

Credit Score Class: 0

This business's credit score of 0 means it is in open bankruptcy, has discontinued operating at this location or cannot be scored. See Special Events for details.

Jump to: Credit Score Class Summary

Financial Stress Class: 0

This business's financial stress score of 0 means it is in open bankruptcy, has discontinued operating at this location or cannot be scored. See Special Events for details.

Jump to: Financial Stress Summary

D&B Rating: NQ

Jump to: Credit Capacity Summary

CREDIT CAPACITY SUMMARY

About Credit Capacity Summary

Back to Top

D&B Rating: NQ

The NQ rating stands for Not Quoted. This is generally assigned when a business has been confirmed as no longer active at the location, or when D&B is unable to confirm active operations. It may also appear on some branch reports, when the branch is located in the same city as the headquarters. For more information, see the **D&B Rating Key**.

# of Employees Total:	1,000	**Average High Credit:**	$38,092
Worth:	$169,513,000		

Note: The Worth amount in this section may have been adjusted by D&B to reflect typical deductions, such as certain intangible assets.

SPECIAL EVENTS

About Special Events

Back to Top

08/12/2004
A phone number was not provided for this applicant. Reserve directories have no record on file for the provided business name and address. Local directory assistance had no business listing for the provided business name. A spokesperson for the parent company Degussa Corporation stated that Creanova Inc is no longer in business. New Jersey Secretary of State had the business listed as foreign profit corporation and the filing number is 0100073859 the provided business name. The Dun & Bradstreet public record database did not list any suits, liens or judgements for this business. Further details are unavailable at this time due to lack of management interview at time of investigation.

On January 16, 2003, Penny Roman, director of communications (Degussa Corp, parent company), stated that Creanova Inc ceased operations on December 31, 2002. Extent of outstanding debt, if any, is undetermined.

Jump to:

Overview | Payments | Public Filings | History & Operations | Banking & Finance

Scores D&B EXCLUSIVE

FINANCIAL STRESS SUMMARY

About Financial Stress Summary

Back to Top

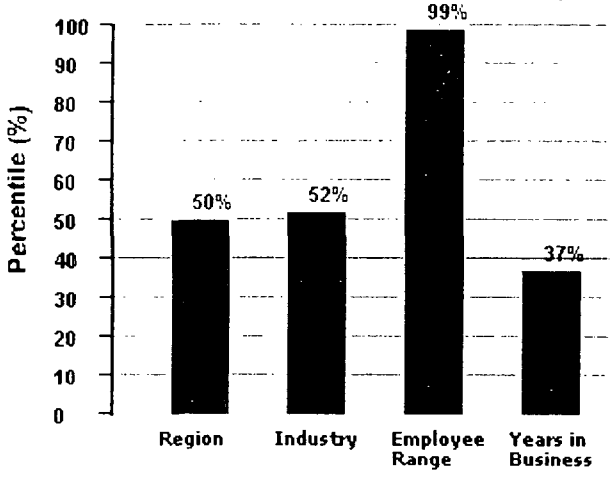
Based on information in D&B's data files, the FINANCIAL STRESS CLASS for this business is 0. This means the company is either OPEN BANKRUPTCY, DISCONTINUED OPERATING AT THIS LOCATION, or cannot be scored. See SPECIAL EVENTS for details.

Financial Stress Norms are provided in the next section to support your analysis of other accounts you may have with similar demographic characteristics as the subject company.

You may also wish to order full reports on these firms for a more thorough review of their risk profile.

There are no financial stress comments for this case.

Financial Stress Norms Comparison (%)



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=500+
Years in Business=6-10

Norms	National %
This Business	N/A
Region: **MIDDLE ATLANTIC**	50
Industry: **MANUFACTURING**	52
Employee Range: **500+**	99
Years in Business: **6-10**	37

Notes:

- Financial Stress statistics are derived using D&B's Stress Model. This model uses mathematical probabilities to determine the likelihood of a business experiencing financial stress within a twelve month period. Companies experiencing financial stress are those that terminate operations without paying all creditors in full, or reorganize or obtain relief from creditors under state or federal law.
- Based on 2004 failure statistics.
- Percentiles are based on a 100 point scale.
- The National Percentile reflects the relative ranking of a company among all scorable companies in D&B's file.

CREDIT SCORE CLASS SUMMARY

About Credit Score Class Summary
Back to Top

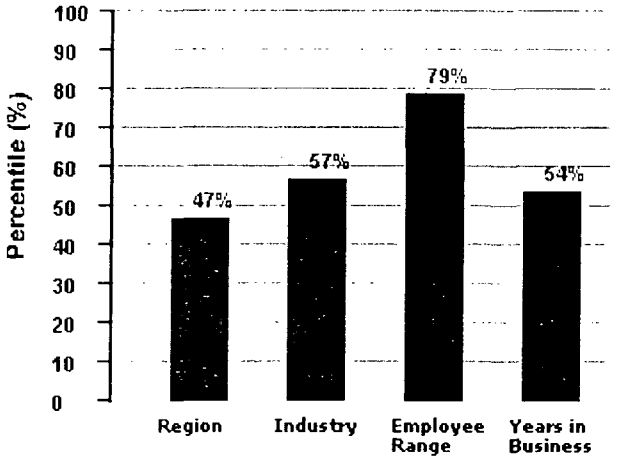
Based on information in D&B's data files, the CREDIT SCORE CLASS for this business is 0. This means the company is either OPEN BANKRUPTCY, DISCONTINUED OPERATING AT THIS LOCATION, or cannot be scored. See SPECIAL EVENTS for details.

Credit Score Norms are provided in the next section to support your analysis of other accounts you may have with similar demographic characteristics as the subject company.

You may also wish to order full reports on these firms for a more thorough review of their risk profile.

There are no credit score comments for this case.

Credit Score Norms Comparison (%)



Region=MIDDLE ATLANTIC
Industry=MANUFACTURING
Employee Range=500+
Years in Business=6-10

Norms	National %
This Business	N/A
Region: **MIDDLE ATLANTIC**	47
Industry: **MANUFACTURING**	57
Employee Range: **500+**	79
Years in Business: **6-10**	54

Notes:

- Credit Score predicts the likelihood of a firm paying in a severely delinquent manner (90+ Days Past Terms) over the next twelve months. It was calculated using statistically valid models and the most recent payment information in D&B's files.
- Percentiles are based on a 100 point scale.
- The percentile ranks a firm relative to other businesses. For example, a typical company located in a specific geographic region that is in the 80th percentile nationwide is a better risk than 79% of the total population of scored companies in D&B's files.

Jump to:

Overview | Scores | Public Filings | History & Operations | Banking & Finance

Payments D&B EXCLUSIVE

PAYMENTS

Back to Top

D&B has not received a sufficient sample of payment experiences to establish a PAYDEX score.

D&B receives nearly 400 million payment experiences each year. We enter these new and updated experiences into D&B Reports as this information is received. At this time, none of those experiences relate to this company.

Jump to:

Overview | Scores | Payments | History & Operations | Banking & Finance

Public Filings

PUBLIC FILINGS

Back to Top

The following data includes both open and closed filings found in D&B's database on the subject company.

Record Type	# of Records	Most Recent Filing Date
Bankruptcy Proceedings	0	-
Judgments	0	-
Liens	3	07/23/2001
Suits	2	06/07/1996
UCC's	21	01/11/2006

The following Public Filing data is for information purposes only and is not the official record. Certified copies can only be obtained from the official source.

LIENS

Back to Top

About Liens

A lienholder can file the same lien in more than one filing location. The appearance of multiple liens filed by the same lienholder against a debtor may be indicative of such an occurrence.

Amount: **$1,037**
Status: **Released**
DOCKET/WARRANT: X0115813
Type: State Tax
Filed by: NYS TAX COMMISSION
Against: CREANOVA INC
Where filed: ALBANY COUNTY SUPREME COURT, ALBANY, NY

Date status attained: 03/04/2002
Date filed: 07/23/2001
Latest Info Received: 03/15/2002

Amount: **$2,090**
Status: **Released**
DOCKET/WARRANT: X0111106
Type: State Tax
Filed by: NYS TAX COMMISSION
Against: CREANOVA INC
Where filed: ALBANY COUNTY SUPREME COURT, ALBANY, NY

Date status attained: 11/05/2001
Date filed: 05/01/2001
Latest Info Received: 11/16/2001

Amount: **$25**
Status: **Released**
DOCKET NO.: 03341050
Type: State Tax
Filed by: STATE OF INDIANA
Against: CREANOVA INC
Where filed: MARION COUNTY CIRCUIT COURT, INDIANAPOLIS, IN

Date status attained: 10/21/2004
Date filed: 03/14/2000
Latest Info Received: 10/21/2004

SUITS
Back to Top

About Suits

Status: **Pending**
DOCKET NO.: 96-136
Plaintiff: UINTA CO SCHOOL
Defendant: HULS AMERICA, SOMERSET, NJ AND OTHERS
Where filed: UINTA COUNTY DISTRICT COURT, EVANSTON, WY

Date status attained: 06/07/1996
Date filed: 06/07/1996
Latest Info Received: 09/09/1996

Status: **Dismissed**
DOCKET NO.: 96CVB427
Plaintiff: GRANGE MUTUAL CASUALTY CO.
Defendant: HULS AMERICA INC. AND OTHERS
Where filed: FRANKLIN COUNTY COMMON PLEAS COURT, COLUMBUS, OH

Date status attained: 02/11/1999
Date filed: 01/18/1996
Latest Info Received: 04/19/2006

If it is indicated that there are defendants other than the report subject, the lawsuit may be an action to clear title to property and does not necessarily imply a claim for money against the subject.

UCC FILINGS
Back to Top

About UCC Filings

Collateral: Proceeds - SPECIFIC EQUIPMENT
Type: Original
Sec. party: LEASE PLAN U S A INC, ATLANTA, GA
Debtor: HULS AMERICA INC, LOCKLAND, OH
Filing number: AM45814
Filed with: SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH

Date filed: 01/26/1996
Latest Info Received: 10/14/1996

Collateral: Proceeds - Proceeds - Vehicles - Vehicles
Type: Original
Sec. party: LEASE PLAN U S A INC, ATLANTA, GA
Debtor: HULS AMERICA INC, LOCKLAND, OH
Filing number: AM14791
Filed with: SECRETARY OF STATE/UCC DIVISION, COLUMBUS, OH

Date filed: 09/14/1995
Latest Info Received: 10/12/1995

Collateral: Equipment and proceeds
Type: Original
Sec. party: LEASE PLAN U.S.A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC.
Filing number: 0001810969
Filed with: UCC COMMERCIAL RECORDING DIVISION, HARTFORD, CT

Date filed: 10/28/1997
Latest Info Received: 12/24/1997

Collateral: Equipment and proceeds
Type: Original
Sec. party: LEASE PLAN U. S. A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC.
Filing number: 95333442
Filed with: SECRETARY OF THE COMMONWEALTH/UCC DIVISION, BOSTON, MA

Date filed: 08/21/1995
Latest Info Received: 09/06/1995

Collateral: Equipment and proceeds
Type: Original
Sec. party: LEASE PLAN U.S.A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC.
Filing number: 1613066
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 01/12/1995
Latest Info Received: 03/24/1995

Collateral: Equipment
Type: Original
Sec. party: LEASE PLAN U.S.A., INC., ALPHARETTA, GA
Debtor: CREANOVA INC.
Filing number: 2029246
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 03/14/2001
Latest Info Received: 04/17/2001

Collateral: Equipment
Type: Original
Sec. party: LEASE PLAN USA, INC., ATLANTA, GA
Debtor: CREANOVA, INC.
Filing number: 1933198
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 09/24/1999
Latest Info Received: 10/29/1999

Collateral: Equipment
Type: Original
Sec. party: LEASE PLAN U.S.A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC., SOMERSET, NJ
Filing number: 1831774
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 04/24/1998
Latest Info Received: 05/18/1998

Type: Termination
Sec. party: LEASE PLAN U.S.A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC., SOMERSET, NJ
Filing number: 01831774
Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 04/15/2002
Latest Info Received: 05/20/2002
Original UCC filed date: 04/24/1998
Original filing no.: 1831774

Collateral: Equipment
Type: Original
Sec. party: LEASE PLAN U.S.A., INC., ATLANTA, GA
Debtor: HULS AMERICA, INC., PLEASANTON, CA
Filing number: 9531960035
Filed with: SECRETARY OF STATE/UCC DIVISION, SACRAMENTO, CA

Date filed: 11/13/1995
Latest Info Received: 11/22/1995

Collateral: Leased Communications equipment including proceeds and products
Type: Original
Sec. party: AT&T CREDIT CORPORATION, PARSIPPANY, NJ
Debtor: HULS AMERICA, INC.
Filing number: 1741994

Filed with: SECRETARY OF STATE/UCC DIVISION, TRENTON, NJ

Date filed: 12/30/1996
Latest Info Received: 02/18/1997

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Jump to:
Overview | Scores | Payments | Public Filings | History & Operations

Banking & Finance

BANKING & FINANCE
Back to Top

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958870281

SITE STATUS REPORT 1992

NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY

958870282

BBD000007

Nuodex Incorporated (Elizabeth Plant)

830 Magnolia Avenue | Elizabeth City | Union County

CATEGORY: ECRA

TYPE OF FACILITY: Manufacturing-Metal Soaps
OPERATION STATUS: Active

PROPERTY SIZE: 2 Acres

SURROUNDING LAND USE: Industrial

MEDIA AFFECTED	CONTAMINANTS	STATUS
Ground Water	Volatile Organic Compounds	Monitoring
Soil	Volatile Organic Compounds Base Neutral Extractable Compounds Polychlorinated Biphenyls (PCBs)	Partially Remediated
Structures	Volatile Organic Compounds Mercury Polychlorinated Biphenyls (PCBs)	Confirmed

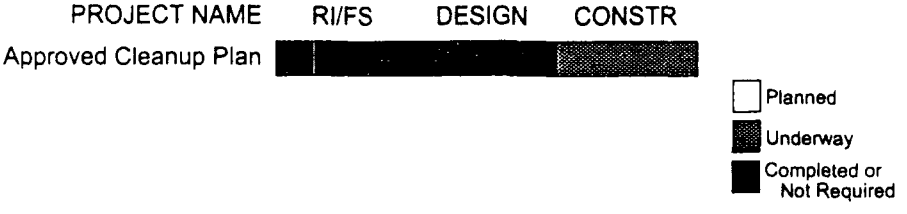
FUNDING SOURCE(S): Responsible Party

ACP DATE: 05/31/90
FINANCIAL ASSURANCE: $3.00M Posted

SITE DESCRIPTION/RESOLUTION OF ENVIRONMENTAL CONCERNS:

The Elizabeth plant of Nuodex Incorporated consists of two buildings, two large storage tank areas, a yard area and a parking lot. The site is being cleaned up under New Jersey's Environmental Cleanup Responsibility Act (ECRA) Program. The Approved Cleanup Plan (ACP) requires the contaminated ground water to be remediated through a recovery trench collection and treatment system. The construction of the ground water treatment system has been completed and treatment will commence upon receipt of the Treatment Works Approval (TWA) permit. Soil cleanup involved limited soil excavation and a deferral to clean up the soil contamination under the Vinyl Building crawl space until there is a change in operations or current operations cease. A deed restriction has been submitted and the language for soil restriction is being finalized.

FOR FURTHER INFORMATION CONTACT: Site Remediation Program
Bureau of Environmental Evaluation and Cleanup
Responsibility Assessment
609-633-7141



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History of Hüls AG

1 | 2 | 3 >

The buna works

The history of the Hüls company began on May 9, 1938, when Chemische Werke Hüls was founded in Marl. Under the Reich Government's four-year plan in preparation for war, I.G. Farben Industrie AG invested 74 percent and mining company Hibernia 26 percent in the founding of the Hüls company. This step marked the beginning of cooperation between the world's largest chemicals group at the time and the mining sector of the then state-owned VEBA AG. This collaboration was dedicated to the production of synthetic rubber buna (e.g. for tire manufacture) and ethylene oxide derivatives. The location selected was favorable in view of the situation given at the time – being situated on the Wesel-Datteln Canal and close to coking plants and hydration works – and enabled the development of a production circuit. The Bergwerksgesellschaft Hibernia supplied the coke furnace gas from its coking plants, from which Hüls made acetylene and ethylene employing the arcing method. The resulting hydrogen was returned to the hydration works, where coal was liquefied, hydrogen added and gasoline produced. The acetylene was further processed in a four-stage operation to produce buna, while the ethylene was processed via ethylene oxide into a frost protection agent for engines, for example.

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Hüls and I.G. Farben

At management level, I.G. Farbenindustrie AG kept the Bergwerksgesellschaft Hibernia in the role of a junior partner. The sites in Marl occupied by the new company came from IG Farben. They were leased to Hüls and Hüls received the production patents free-of-charge from I.G. Farben, which reserved right of ownership to all improvements and sold the manufactured products on a centralized basis. Hibernia received no market information. The first batches of buna were delivered on August 29, 1940. Up to foreman level, management personnel came from other IG Farbenindustrie AG works and the employees were initially recruited from the Münster area. As of 1941 forced labor was also brought in from the Soviet Union, Poland, Slovakia, Italy, France, Belgium and the Netherlands.

As part of a scientific study presently being carried out by Dr. Paul Erker, Munich, and Dr. Bernhard Lorentz, Hamburg, into the history of Hüls between 1938 and 1979, much attention is being given to the previously partially unexposed role of the Hüls chemical works during the National Socialist period. The study is due to be published in late Summer 2003.

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History of Hüls AG

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Post war period and deglomeration

After the end of the Second World War, Hüls became part of the deglomerated I.G. Farbenindustrie under British administration and was classified as a "Prohibited industry II", i.e. it had to seek a new product base, since buna production was banned over the medium term. Moreover, the company had to become an independent joint stock company, i.e. it had to reorganize sales, research and application techniques into completely new departments.

On January 1, 1953 its name was changed to Chemische Werke Hüls AG. Some 50 percent of new company belonged to a chemical administration company, a successor organization to the deglomerated I.G. Farbenindustrie AG, in which Bayer AG, the former Hoechst AG, and also BASF AG, which had succeeded I.G. Farbenindustrie, held stocks. A further 25 percent of the stocks were held by the Kohleverwertungsgesellschaft, in which the Gelsenkirchen Bergwerksaktiengesellschaft (GBAG), Ruhrgas AG and Steinkohle-Energie AG (STEAG) each had a one-third interest. The remaining 25 percent belonged to Bergwerksgesellschaft Hibernia AG.

At this juncture in the history of Hüls AG three lines of commerce are discernible, along which the history of Hüls AG unfolded:

Production, products and marketing post 1953

In the post war period Chemische Werke Hüls AG became a basic chemical works. After 1945, high volume production of products such as surfactants, polyvinyl chloride, varnish raw materials, polystyrene and softeners commenced.

In the 1950s polyethylene, polypropylene were added, and buna production started up again. In the 1960s a trend began towards specialty chemicals and technical polymers. Isophoron derivatives were added in 1979. The latter are varnish raw materials for high-tech applications, e.g. the external varnishing of the Space shuttle.

In the 1970s research and applications technology took second place to marketing philosophy. Sales offices organized the marketing of products in the Federal Republic of Germany and agencies were active internationally – the first, towards the end of the 1950s, being Hüls Far East Ltd. in Hong Kong.

In the 1960s agencies followed in Western Europe and the network spread worldwide in the 1970s. While international joint ventures had been set up in the 1960s in Marl (Katalysatorenwerke Houdry-Hüls GmbH, Faserwerke Hüls GmbH with Eastman Kodak), in the 1970s foreign subsidiaries and joint ventures were created (Servo B.V. in Delden/Netherlands and Daicel-Hüls Ltd. in Osaka/Japan).

From 1988 the product structure was strategically changed in favor of specialty chemicals with a move towards silicon and fat-chemicals and in the 1990s the production of surfactants, polyethylene/polypropylene and polyvinyl chloride was abandoned.

< 1 | 2 | 3 >

History of Hüls AG

< 1 | 2 | 3

Change in the company's legal situation

Until 1979 Chemische Werke Hüls AG was bound by several interests and directives through its many owners. Throughout, the company remained under the influence of Bayer AG, which prevented Hüls from venturing into Bayer's own business areas. Furthermore, the company was dependent on Bergwerksgesellschaft Hibernia AG, in order to obtain Ziegler licenses for the manufacture of polyethylene and polypropylene.

From 1979 Hüls belonged exclusively to VEBA AG, which concentrated its chemical activities in this subsidiary and it was then able to develop an international expansion strategy. By acquiring companies - the chemical section of Dynamit Nobel AG (1988, silicon and fat-chemicals in the Rheinfelden and Witten works) - and the subsequent purchases of Röhm GmbH (1989, methacrylates) and Stockhausen GmbH (1991, superabsorbents), the company changed direction towards specialty chemicals.

Social development

Since the company works had been built on greenfield sites and 3,000 families had already relocated to Marl between 1938 and 1940, new social centers had to be created, some of which are still important today. For example the "Feierabendhaus" (After-Hours Club) changed from an exclusively social meeting place with a restaurant, cinema, theatre, concerts and educational lectures, into the "Marcotel", the restaurant of the present day "Marl Chemicals Park" and Degussa AG further training center.

< 1 | 2 | 3

There are still works-related clubs in the form of sports clubs with their own facilities, as well as the "Marl Music Association" with a choir and orchestra, and a works choir.

Hüls in the 1990s

Even after 1979, as Hüls AG added several sites (Herne works group, Scholven works, Bottrop, Witten, Troisdorf, Lülsdorf, Rheinfelden, and Steyerberg), Marl still predominated as by far the largest works and the headquarters of management and all the respective departments. It was only when Röhm (1989) and Stockhausen (1991) were added, retaining their organization, that things start to change. The silicon chemicals business, for example, moved its headquarters to Dusseldorf.

Following further restructuring, Hüls AG became an internationally operating management holding on January 1, 1998, with subsidiaries all over the world. After merging with Degussa AG to become Degussa-Hüls AG in February 1999, it increased its focus on specialty chemicals. The works in Marl became a "Chemicals Park", operated by a subsidiary company, Infracor GmbH. Other companies are also based there, manufacturing and marketing what were formerly major Hüls products, e.g. surfactants by the SASOL Corp., polystyrene by BP and polyvinyl chloride by Vestolit GmbH.

2000 - 2002

Under the sign of the new Degussa

2000
2001

2000

In January Degussa merged the former Precious Metal and Automobile Exhaust Gas Catalysts business units with Cerdec AG to form a new subsidiary. The new Degussa Metals Catalysts Cerdec AG, dmc^2 GmbH for short, had its headquarters in Hanau-Wolfgang. In August, Norddeutsche Affinerie in Hamburg took over the gold- and silver business, which had been based in Wolfgang since 1973, from dmc^2 and moved its main operations to Hamburg. In August 2001, dmc^2 GmbH was sold to the American OM Group.

Degussa-Hüls AG amalgamated its dental operations in the new subsidiary Degussa Dental GmbH & Co. KG. The headquarters of this globally operating company was Hanau-Wolfgang. In June 2001, Degussa Dental was sold to US American Dentsply International Inc. in York, Pennsylvania, as Degussa shifted its focus to specialty chemicals.

SKW Trostberg AG started up a new research and skills center at Weihenstephan University in Freising, developing biotechnical processes for the nutrition and cosmetics sectors. Sponsorship of an endowment chair at Munich Technical University was a further step in the same direction. Research activity here is focusing on the new "Green Biotechnology."

Thyssen Krupp Werkstoffe GmbH in Dusseldorf and Röhm GmbH in Darmstadt agreed on a joint venture with a view to combining their Europe-wide trade in semi-finished polymer products. The joint venture trades under the name Thyssen Röhm Kunststoffhandelsgesellschaft mbH (TRK) and is headquartered in Dusseldorf.

Goldschmidt AG established a joint venture called Gorapur in partnership with Ratec GmbH, in order to reinforce its operations in the field of separating agents for mold foams. The company's headquarters are in Wittenburg in Mecklenburg, where an ultramodern production plant is located.

2001

At the beginning of the year the merger of Degussa-Hüls AG and SKW Trostberg AG to form the new Degussa AG created the third largest chemicals group in Germany and one of the leading suppliers of specialty chemicals worldwide. The company's headquarters are in Dusseldorf. Following the merger, around 63,000 staff worked for the new group worldwide.

The new Degussa AG strengthened its global position with the takeover of UK company Laporte plc. Laporte plc. is one of the world's largest manufacturers of hydrogen peroxide, which is mainly supplied to the textile industry as a bleaching agent and was also one of the core products of the former Degussa.

Go back to the beginnings of Degussa's history: 1843 - 1869

Company logos: Hüls AG

The I.G. Farben subsidiary's logo

The first Hüls logo, set in the then modern Roman typeface, was used between 1938 and 1952. It was based on a design by the management secretary at the time, Willi Bonnet, after 80 previous suggestions had been rejected. These came partly from external and partly from inhouse designers. The two rings symbolized the parent companies of the "Chemische Werke Hüls GmbH", ChWH for short: the "Ch", which stands for "Chemistry", was dedicated to I.G. Farbenindustrie AG; Hibernia AG was represented by the "H". At the intersection of the two rings stood the new works, symbolized by the "W". Two parallel lines, representing a stylized band, created an additional link between the rings. Overall the first logo expressed the new company's high level of dependency on its two founding companies.

Hüls change - also in the logo

The new company logo introduced in early 1953 was extensively based on the former logo. However - for graphic reasons - there was now only a "C" instead of the previous "Ch" in the left-hand circle. The Roman lettering was also replaced by Futura type. This logo was a product of the newly created advertising department and reflected the consequences of the change in ownership of the newly established Hüls AG: I.G. Farbenindustrie AG had gone into liquidation and was replaced by Chemieverwaltung AG in 1955, while the Kohleverwertungsgesellschaft mbH joined as the third owner in addition to Hibernia.

The new Hüls AG

As far back as 1964 the word trademark "hüls" was used in addition to the famous rings. Since 1985 it has been the sole component of the logo. At that point the company was changed into a holding and became the chemical sector of the Dusseldorf company VEBA AG. The hope was that a plain word logo would ease the formation of the new group since it contained no reference to a particular business area or old dependencies, as did the previous rings. As the company had already been popularly called "Hüls" for a long time, the new logo quickly gained wide acceptance. It remained in use until the merger with the former Degussa AG in February 1999.

The Degussa-Hüls logo

The future company logo, to be used following the merger with Hüls AG, Marl, was presented on December 18, 1998 at the Extraordinary Shareholders' Meeting of Degussa AG, Frankfurt. A word logo had been chosen, combining both companies' names, with an eye not only to global linguistic and cultural acceptance, but also to universal usability. The two names were connected by a hyphen, the typical symbol of chemical language, thereby presenting the imminent company merger as a chemical process.

Degussa–Hüls

The lifespan of the Degussa-Hüls AG logo was a short one - from February 8, 1999 to February 11, 2001. The company's further merger with SKW Trostberg AG into Degussa AG, Dusseldorf, meant that a new company logo had to be created.

Timeline
Predecessors
Personalities
Inventions
Locations
Trademarks
Degussa
New Degussa
Degussa-Hüls
Goldschmidt
Hüls
Röhm
SKW Trostberg
Stockhausen
Contact

The new Degussa logo

degussa.

The February 2001 merger between Degussa-Hüls AG and SKW Trostberg AG created the new Degussa AG, a global leader in the specialty chemical industry, with its headquarters in Dusseldorf. With integration in mind, the new logo deliberately incorporated existing elements of the predecessor companies: the former Degussa contributed the name, the blue color came from the logo of the former Hüls AG, while SKW added the dot from its old logo.

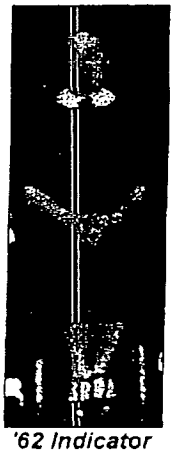
The dot also had another sigr management principles of the decentralized organization. T Felcht, CEO of the new comp an employee works in, no ma carries, whether it's manufact down to one group: Degussa.

Our Strong Band: Stuyvesant HS Think Backs and Memorials

Stuyvesantians in Israel

Stuyvesantians Lost on 911

IN LOVING MEMORY



'62 Indicator

SARA BARON
1905 to 2005

"Leo Roon '09"....as reported in the June, 1962 SHS Alumni & Scholarship Association Journal (Neal H. Hurwitz '62, Editor-in-Chief)

One of the most notable figures in the field of chemical engineering, Leo Roon attended Columbia and New York Universities. (Master's 1916). For four years prior to his graduation from NYU, he taught at Columbia. In 1916, Leo was appointed Chief of the chemical division of Squibb & Sons.

Roon founded Roxalin Flexible Finishes in 1924. This company, as a result of its many discoveries in the field of industrial surface coatings, received an Army-Navy "E." He established Nuodex Products Co., Inc. in 1932, a company which proved of great value to the war effort. By 1945, Nuodex had participating companies in Canada, England, France, Italy, Holland, Australia, South Africa, and Brazil. In 1954, Mr. Roon sold this corporation to the Heyden Chemical Corp.

He is a Director of five companies as well as the Roon Foundation. He is also Chairman of the Board of Trustees of the Columbia University College of Pharmacy.

Mr. Roon is active in many civic projects, such as the Eastern Long Island Hospital, of which he is President. In 1960, he awarded a four year $500 per year SASA scholarship; he is a SASA (Stuyvesant Alumni & Scholarship Association) Trustee.

Please help us to complete the Stuyvesant High School Centennial *Timeline*

Read the Campaign *Newsletters*

Troy's History in Metal Carboxylates

The catalytic activity of various metals has been known for years. Unfortunately the first use of drying promoters is not recorded in literature on early coatings.

The information available today makes it clear that improved drying properties in, for example vegetable oil coatings, became associated with some of the natural earth colors used as pigments. This recognition progressed to the point where small quantities of these materials were actually added, not for coloring purposes, but for improved drying properties. It is reported that such deliberate use was practiced during the early Egyptian civilization, or at least as early as 2000 BC. Materials that proved beneficial for drying were various compounds of lead, iron and manganese, which had sufficient reactivity to form soaps with the fatty acids in the vegetable oils. Cobalt, which is the most active of our modern driers, was not recognized, probably because the natural cobalt compounds have relatively low reactivity towards fatty acids.

As early as 1388, J. Alcherius used copper sulfate for the production of artist's varnishes. Later, around the beginning of the 16th century, the Van Eyk brothers in Vlanderen, Europe, used zinc vitriol to improve the drying of varnishes. However, actual consideration or studies of drying materials for oils does not appear to have taken place prior to 1840, which is when zinc oxide began to replace white lead as a prime white pigment. The stimulus was undoubtedly provided by the poorer drying properties that were noticed in the absence of the reactive lead pigment.

Somewhere along the experimental trail, it must have become evident to a scientist of the day that solubility of the metal compound was important for its activity- thus the early efforts to prepare driers concentrated on attempting to dissolve the natural materials in the oils. By the latter part of the nineteenth century, substantial progress had been made in the preparation of fused resinates and linoleates of lead and manganese. Around 1880, A. W. Pratt produced liquid paint driers based on lead and manganese linoleates dissolved in linseed oil, naphtha and turpentine. The utilization of cobalt soaps as a drying catalysts occurred close to 1900, but the factors that led to it do not seem to have been recorded.

The early driers provided a means by which material could be added to a coating for the specific purpose of improving the drying performance, but the compounds lacked uniformity of composition and therefore could not give predictable results. Even if all of the metal reacted with the acid to give an expected metal concentration, which seldom happened, the anions in use were subject to oxidation. The consequences of this oxidation were loss of solubility in the vehicle resulting in precipitation and loss of activity.

Major advances in drier technology occurred in the 1920s with the preparation of metal naphthenates and solvent solutions of these naphthenates. The products were not only easy to handle, but also allowed the metal content to be standardized and duplicated.

A gentleman by the name of Leo Roon was a pioneer in the field of paint driers. He

was the first to develop consistent and stable products with guarantied metal content and thus predictable reactivity and effectiveness.

Milton Nowak was working with Leo Roon on the technological advancement of Driers. In 1955 Milton started working for Troy Chemical.

Troy Chemical started to manufacture Driers and other Metal Soaps in 1956 and utilized a "Direct Metal Fusion process" invented by Milton Nowak who is now V.P. Emeritus at Troy Corporation.

In 1957, Elias Singer, Technical Director, Troy Chemical Company first published "Fundamentals of Paint, Varnish, and Lacquer Technology".

Troy Corporation's extensive history in this field has allowed us to continually produce Metal Carboxylates of recognized quality.

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Company Histories: # A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Tenneco Inc.

Address:
Tenneco Building
P.O. Box 2511
Houston, Texas 77252-2511
U.S.A.

Telephone: (713) 757-2131
Fax: (713) 757-2777

Statistics:
Public Company
Incorporated: 1947 as Tennessee Gas Transmission Company
Employees: 75,000
Sales: $14.5 billion
Stock Exchanges: New York Toronto
SICs: 3523 Farm Machinery and Equipment; 3531 Construction Machinery; 3731 Ship Building and Repairing; 3714 Motor Vehicle Parts and Accessories; 2653 Corrugated and Solid Fiber Boxes; 4923 Gas Transmission and Distribution; 6719 Holding Companies, Nec.

Company History:

Tenneco Inc. is one of the largest diversified companies in the world, ranking among the United States' 30 largest industrial companies and among the top 100 industrial companies worldwide. Tenneco's holdings include Case Corporation, one of the world's largest manufacturers of agricultural and construction equipment; Tenneco Gas, one of the natural gas industry's largest and most profitable companies; Tenneco Automotive, a global manufacturer of automotive parts; Newport News Shipbuilding, a primary supplier to the U.S. Navy; Packaging Corporation of America, one of the world's leading packaging manufacturers; and Albright & Wilson, an international manufacturer and marketer of chemicals. During the early 1990s, these companies became the focus of Tenneco, as it divested other interests in pulp and paper chemicals; oil exploration, production, processing and marketing; and life insurance.

Much of the company's early success was attributed to its first director, Henry Gardiner Symonds. Acquiring a degree in geology from Stanford University in 1924 and an MBA from Harvard three years later, Symonds began his career in Chicago as a banker with what eventually became the Continental Illinois Bank and Trust Company. In 1930, Symonds began work with a small investment firm and bank subsidiary called the Chicago Corporation, and his success there led to his appointment as vice-president of the division in 1932.

In 1938, oil was discovered on land that the Chicago Corporation had purchased for natural gas deposits, near Corpus Christi, Texas, and Symonds was dispatched to Texas to manage the property. Later that year, he became a board member of the firm. The Chicago Corporation was unable to fully exploit the large reserves of natural gas it had developed in Texas, due to national shortages of pipeline materials essential for gas transmission. When a shortage of fuel for defense plants in West Virginia developed in 1943, the Chicago Corporation was able to obtain a Federal Power Commission (FPC) license to operate a pipeline, in addition to a priority order for pipeline materials. Symonds was placed in charge of the construction of a 1,265-mile pipeline, which linked the gas fields of the Gulf states with factories in the eastern United States.

A company called the Tennessee Gas and Transmission Company, founded in 1940 and acquired by the Chicago Corporation in 1943, was placed in charge of the pipeline. The project was completed in October 1944; however, the day after the pipeline went into operation, the FPC moved to regulate the pipeline and ordered the company to reduce its transmission rates. Symonds protested, contending that the FPC had led him to believe that the Chicago Corporation would be allowed to operate without such regulations. Regarding the FPC's actions as unfair, Symonds declared that he would never again become involved in projects subject to government regulation. Nevertheless, when the Chicago Corporation promptly divested itself of Tennessee Gas after World War II, Symonds remained with the company and was subsequently named its president.

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Tennessee Gas continued to add pipelines to its network, planning 3,840 additional miles in 1946. A long coal strike that year increased demand for oil- and gas-burning furnaces and other devices, and Tennessee Gas applied for rights to build more gas lines as well as to pump oil through the government-sponsored "big-inch" and "little inch" oil pipeline programs. On July 18 of the following year, the company was reincorporated in Delaware as the Tennessee Gas Transmission Company, while its headquarters remained in Houston.

Symonds used profits from the pipeline operations to establish a separate but complementary subsidiary business in oil and gas exploration. He advocated the acquisition of existing oil companies during the 1950s, including Sterling Oil, Del-Rey Petroleum, and Bay Petroleum, and oversaw acquisitions of several petrochemical companies, diversifying the product base and involving Tennessee Gas in industrial plastics. Fifteen Oil, acquired in 1960, was one of several subsidiaries engaged in oil and gas exploration and production in places as diverse as Alaska, Canada, Latin America, and Africa. A subsidiary called the Tenneco Corporation was formed that year to coordinate the management of several company subsidiaries.

During this time, Tennessee Gas received some unfavorable publicity, when reports surfaced that company's general counsel had met with FPC officials, including FPC chairperson Jerome Kuykendall. Critics alleged that the group had privately discussed legally restricted matters, but Symonds denied any wrongdoing.

In February 1961, a corporate restructuring occurred that placed the company's non-utility subsidiaries, principally Tennessee Gas and Bay Petroleum, under the managerial authority of Tenneco. Acquisitions in the chemical industries continued through the 1960s and included the Heyden Newport Chemical Corporation, which formed the core of what later became Tenneco Chemicals, Inc. in March 1965. Moreover, the Tenneco division added a new line of business in June 1965 when it purchased the Packaging Corporation of America, a manufacturer of paperboard and packaging materials, with over 400,000 acres of timberland resources. Between September 1950 and March 1966, Tennessee Gas had acquired 22 companies.

A second corporate restructuring took place in April 1966, in which Tenneco assumed control over all the assets of Tennessee Gas, which then became a Tenneco subsidiary. Symonds was promoted from president and board chairman positions in which he had served since 1958, to chief executive officer and chief policy officer, in addition to being named the company's chairperson "for life."

Tenneco's most significant acquisition under Symonds came in August 1967, when it purchased the Kern County Land Company for approximately $430 million. Kern was established in California around 1850 by two lawyers from Kentucky, Lloyd Tevis and James Ben Ali Haggin, who intended to purchase land for resale to prospectors drawn to California in search of gold. Although the scheme failed, the subsequent development of irrigation systems transformed the 2.5 million acres of arid wasteland into arable cropland. Moreover, some of the land was later found to contain oil deposits. While the Kern Company lacked the expertise to develop these oil deposits, Tenneco was perfectly suited to develop the sites. At the same time, Tenneco had no immediate interest in Kern's agricultural businesses, but, as those businesses were profitable, they could easily be assimilated into Tenneco's existing land management group. The acquisition also included Kern's 53 percent interest in J.I. Case, a manufacturer of farm and construction machinery located in Wisconsin, and Walker Manufacturing, which produced automotive exhaust systems.

After the acquisition, Tenneco divided its subsidiaries along geographical lines, resulting in Tenneco West (formerly Kern) and Tenneco Virginia, which had grown out of the company's gas transmission business. In September 1968, Tenneco Virginia purchased Newport News Shipbuilding & Drydock Company for about $140 million. Newport News was engaged in the construction of nuclear-powered submarines and aircraft carriers, as well as merchant and commercial ships. The company also repaired and reconditioned ships, and refueled nuclear vessels. The nation's largest privately owned shipyard. Newport News was also in serious financial trouble.

Symonds died of a heart ailment on June 2, 1971. His method of expansion through diversification had been based on three rules: seeing that the company he wished to acquire would benefit from Tenneco management; choosing companies whose operations would complement those of Tenneco; and enforcing standards which kept each division "big enough to stand on its own two feet." Under Symonds's successor, James Lee Ketelsen, Tenneco continued to operate on these precepts, but the number and size of subsequent acquisitions were noticeably reduced.

The application of Tenneco management methods to Newport News had transformed the shipbuilding division into a successful venture by 1971. Over a period of several years, Tenneco invested nearly $100 million in the company, and, by 1973, the division had accumulated an order backlog of $1 billion. As a result of increased demand for imported petroleum products, Newport News engaged in the construction of large ships capable of carrying crude oil and liquefied natural gas.

In the course of restructuring Newport News Shipbuilding, Tenneco encountered strong opposition from organized labor and the Occupational Health and Safety Administration (OSHA). Eventually, after a three-month strike, all 16,500 employees of Newport News gained representation by the United Steelworkers. OSHA levied a fine of $786,190 on Newport News, citing 617 cases of deficient medical care, unsafe working conditions, and excessive noise. It was the largest fine OSHA had ever imposed on any company.

Wall Street analysts had consistently advised Tenneco to sell Newport News, warning that the division would require costly modernization and reorganization. Despite such problems, however, Tenneco officials recognized the subsidiary's potential, particularly after Navy Secretary John Lehman declared his intention to establish a 600-ship navy in 1981. Thereafter, Newport News abandoned commercial shipbuilding in favor of government defense contracts. Much of its initial work in this area centered on the *Los Angeles* -class attack submarine, which it designed and consistently delivered at a profit. Newport News was also the world's only manufacturer of nuclear-powered aircraft carriers, including the *Carl Vinson* and *Theodore Roosevelt*, launched in 1982 and 1986, respectively. Newport News also planned to construct servicing berths for the larger Trident submarines, then built exclusively by the Electric Boat division of General Dynamics.

Between 1968 and 1976, Tenneco acquired an additional 13 companies, including the British chemical company Albright & Wilson Ltd., and consolidated its ownership of J.I. Case. The automotive parts division of Tenneco experienced strong growth during the 1970s through the acquisition of AB Starlawerken of Sweden in 1974, Monroe Auto Equipment (best known for their line of shock absorbers) in 1977, and Lydex, a Danish company, in 1978. Tenneco started to purchase insurance companies in 1978, including Philadelphia Life and Southwestern Life Insurance

Ketelsen, who was named chairperson and chief executive officer in 1978, was instrumental in the company's decision to convert its refinery at Chalamette, Louisiana, to process lower grades of crude oil from Venezuela and Mexico. In response to the reduction in oil prices, Tenneco redirected capital expenditures from oil and gas exploration into finding ways to produce oil at lower prices.

During the early 1980s, Tenneco sold its petrochemical and polyvinyl chloride production facilities to Occidental Petroleum. In 1984, to combat low gas prices and the adverse trends in the gas industry, Tenneco formed a new subsidiary called Tenngasco, which was responsible for sales of spot market gas in unregulated intrastate markets. Also that year, the Tenneco Packaging Corporation of America acquired Ecko Housewares and Ecko Products from the American Home Products Corporation.

In 1985, Tenneco purchased the farm machinery division of International Harvester, which had been forced to restructure as a result of a severe crisis in the American farming industry. Paying $430 million for the division, Tenneco then combined these operations with its Case subsidiary, which was also losing money. Tenneco officials believed that Case could benefit from Harvester's broader product line and stronger dealer network. The new combined group commanded a 35 percent market share for large tractors, a figure second only to Deere & Company's 42 percent. As a result of restructuring efforts and the temporary closure of several tractor plants, the new Case division registered a modest profit by the end of the year.

Having survived a 1982 attempt by stockholders to separate and sell the company's various divisions, the company was again considered a prime takeover target in 1987, given its high debt, rich assets, and record of underperformance. The company had previously insisted on paying stock dividends rather than reducing its debt or, in some other way, reducing its exposure to corporate raiders. But in the late 1980s, Tenneco began boosting its stock through massive repurchasing programs and debt retirement. From 1988 to 1990, the company bought back 26.3 million shares and paid off $5 billion in long- and shortterm debt.

In 1986, Tenneco divested its five insurance companies to I.C.H. Corporation for about $1.5 billion. The company's late 1980s efforts to refocus its business interests included the sale of all its precious metals operations, the agricultural operations of Tenneco West, Tenneco Oil Company, and the retail muffler shops of Tenneco Automotive. At the same time, a new holding company, Tenneco Inc., was organized to serve as the corporation's principal financing vehicle.

Fine-tuning continued through the early 1990s under new leadership; in August 1991, Tenneco replaced James L. Ketelsen, who had lead the company for 13 years, with Michael H. Walsh. The new president, who soon became CEO as well, found a company in far worse shape than he had been led to believe. Earnings and cash flow were falling short of targets in nearly every division, and debt stood at 70 percent of capital--"unacceptable" results, as Walsh's 1991 letter to shareholders candidly observed. By the end of the year, Walsh had instituted a $2 billion action plan that incorporated several retrenchment initiatives in the face of a lingering global recession. Walsh, dubbed a "tough boss for tough times" by *Business Week*, cut Tenneco's dividend in half, eliminated 8,000 jobs, divested three short-line railroads and other non-core assets, issued $512 million in new equity, and reduced capital spending for the two-year period by $300 million.

Walsh instituted additional reorganizational measures in 1992, focusing on divestments and consolidation. Tenneco Minerals company was sold for $500 million, and Albright & Wilson's pulp chemicals business was spun off to Sterling Chemicals. Although the latter sale brought $202 million to the corporation, it also eliminated 54 percent of Albright & Wilson's annual profit. Tenneco's plans for the ensuing three years included consolidation and "resizing" of production capacity, divestment of unprofitable product lines, and privatization of company-owned retail outlets. After just 18 months at Tenneco's helm, Walsh had reversed potentially dangerous trends and instilled a "no excuses" policy in its corporate culture.

In January 1993, Walsh announced that he had been diagnosed with inoperable brain cancer. Walsh elected to stay on at Tenneco and see the conglomerate through the reorganization he had begun. He designated a new recruit, Dana G. Mead, head of the Case Corporation subsidiary, as his successor and began delegating more authority to Mead and the rest of Tenneco's senior management. In February 1994, Walsh yielded Tenneco's presidency and chief executive officership to Mead and accepted the post of chairman. By that time, Tenneco was a $13 billion conglomeration, having gone from two successive years of losses totaling over $2 billion to a 1993 net income of $426 million and having reduced its debt from 70 percent of capitalization to 49.3 percent. Mike Walsh died in May 1994.

Principal Subsidiaries: Tenneco Gas; Case Corporation; Tenneco Automotive; Newport News Shipbuilding; Packaging Corporation of America; Albright & Wilson (England).

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Hoover's coverage by Peter Partheymuller

Overview

Degussa Corporation is the North America arm of German chemical giant, Degussa AG. Like its parent company, the subsidiary produces chemicals through four divisions: coatings and advanced fillers, fine and industrial chemicals, performance materials, and specialty polymers. Products range from amino acids and building protection coatings to another of its specialties, carbon black, which is used in automobile tires for abrasion resistance. Degussa Corporation operates about 150 facilities throughout North America. Its North American subsidiaries include Degussa Canada and Degussa Mexico. In 2006 Degussa sold its construction chemicals unit to BASF in 2006.

Sample Overview

Key Numbers

Key financials for Degussa Corporation

Company Type	Subsidiary of Degussa
Fiscal Year-End	December
2004 Sales (mil.)	$3,093.6
1-Year Sales Growth	2.1%
2004 Employees	5,794
1-Year Employee Growth	(4.4%)

Get more Key Numbers

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Key People

Key people and executives for Degussa Corporation

President; President and CEO, Degussa Construction Chemicals	John Salvatore (Subscribers see complete biographies -- view sample)
VP and General Manager, Care Specialties	Reinhold Brand
Head of Communications	Penny Romans

Sample more Key People

TIP: Use **Build Executive List** to target decision makers by industry, geography, sales, **net income**, and number of employees.

Top Competitors

Top competitors of Degussa Corporation

Aceto
Cabot
GE Industrial

There are 10 competitors for Degussa Corporation; see more.

TIP: Analyze the **Competitive Landscape** to view a head-to-head comparison of a firm's profitability, operations, growth, and valuation versus that of its top three competitors.

Industry Information

Primary and secondary industries for Degussa Corporation

Chemicals
- **Specialty Chemical Manufacturing** (primary)
- Basic and Intermediate Chemical & Petrochemical Manufacturing
- Paints, Coatings & Other Finishing Product Manufacturing
- Plastic & Fiber Manufacturing

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TIP: See what companies are creating the biggest impact each week with Hoover's Hottest Companies newsletter. **Sign up now** and start receiving exclusive Hoover's content delivered straight to your inbox. Each newsletter is delivered weekly to help you stay ahead of the competition.

Industry Watch

Industry analysis videos for the industries of Degussa Corporation

BB&T Capital Markets Chemicals Analyst Frank Mitsch (6:01)
01/24/06 9:15ET - Mitsch discusses DuPont's earnings.

View more industry interviews

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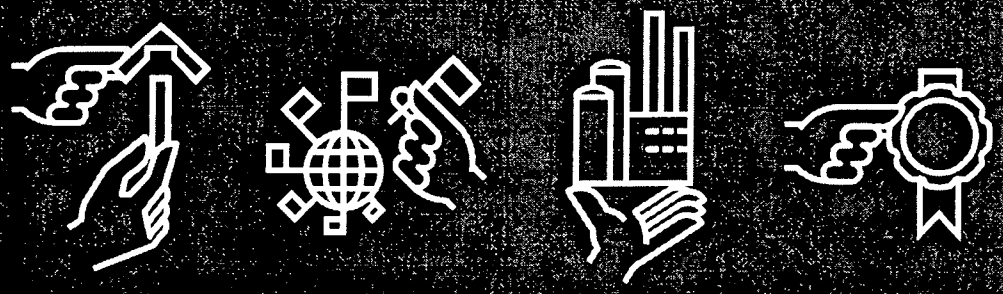
degussa.

creating essentials

Annual Report 2005

our business ● our values



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Key Figures

in € million	2001[1]	2002[1]	2003	2004	**2005**
Sales	11,862	11,765	11,081	10,740	11,752
EBITDA	1,858	1,747	1,630	1,583	1,585
EBITDA margin	15.7%	14.8%	14.7%	14.7%	13.5%
EBIT	988	936	892	931	940
ROCE[2]	9.3%	8.5%	9.2%	9.4%	9.8%
Group net income after minority interests	421	227	– 261	298	– 491
Earnings per share in €	2.05	1.10	– 1.27	1.45	– 2.39
Dividend per share in €	1.10	1.10	1.10	1.10	0.00
Total assets	18,127	15,185	14,042	13,633	13,498
Equity ratio	33%	37%	33%	34%	31%
Capital expenditures[3]	1,269	1,001	778	722	814
Depreciation[3]	868	829	915	661	643
Employees as of December 31	53,378	47,623	45,348	45,139	**45,553[4]**

[1] In accordance with US GAAP.
[2] Return on capital employed.
[3] Intangible assets, property, plant and equipment..
[4] Incl. Food Ingredients.

Since January 1, 2004 the consolidated financial statements for the Degussa Group have been prepared in accordance with the International Financial Reporting Standards (IFRS). The figures for 2003 have been restated.

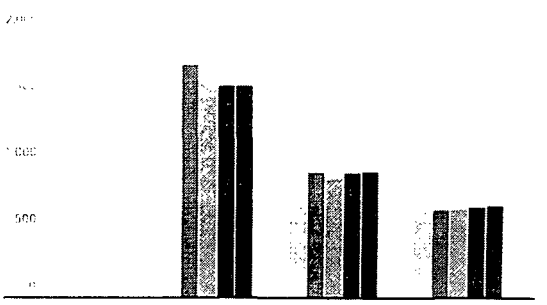
The Food Ingredients activities are classified as discontinued operations since an agreement has been signed on the divestment of these activties and the income statement and profitability indicators for 2005 and 2004 have been adjusted accordingly.

Degussa stock

ISIN	DE 0005421903
Bloomberg ticker symbol	DGX GR
Reuters ticker symbol	DGXG.DE
No. of shares	205,623,590
Market capitalization at year end 2005	€8,811 million
XETRA closing price at year end	€42.85
Dividend per share	€0.00
Dividend yield	0%

Operating performance

in € million



	EBITDA	EBIT	Operating result
2001	1,858	988	659
2002	1,747	936	655
2003	1,630	892	660
2004	1,583	931	674
2005	1,585	940	683

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Highlights 2001–2006

February 9, 2001
"New" Degussa: The new Degussa AG, formed from Degussa-Hüls AG and SKW Trostberg AG, is entered in the Commercial Register.

February 12, 2001
Stock market listing: Trading in the new Degussa shares starts.

March 2001
Start of divestment program: Many non-core activities are divested over the next four years as Degussa shifts its focus to specialty chemicals. Total proceeds of over €4 billion are well above expectations.

October 2001
Corporate culture: "Vision, Mission, Guiding Principles" adopted.

June 24, 2002
Takeover bid: RAG makes a voluntary public offer for shares in Degussa AG.

September 23, 2002
New index: Degussa shares are transferred from the DAX to the M-DAX as the takeover bid is expected to reduce the free float.

January 20, 2003
Focus on China: Establishment of Degussa (China) Co. Ltd., a holding company based in Beijing.

February 14, 2003
Transfer of shares: RAG acquires a 46.48 percent stake in Degussa.

March 6, 2003
Degussa Foundation starts work. It pools the company's support for cultural and scientific projects.

June 1, 2003
Additional post: Professor Utz-Hellmuth Felcht, Chairman of Degussa's Board of Management, is given a seat on RAG's Board of Management.

November 24, 2003
Successful bond issue: Degussa raises the issue volume of its first bond from €1.0 billion to €1.25 billion in response to high demand.

April 13, 2004
Compliance: Degussa adopts Global Code of Conduct.

April 23, 2004
Growth in China: New R&D center opens in Shanghai. In May a cooperation agreement is signed with Jida New Materials, Changchun, on the joint development, production and marketing of high-temperature polymers for automotive and aviation engineering.

June 2004
New majority shareholder: RAG raises its stake in Degussa to 50.1 percent as planned.

September 16, 2004
Corporate history: US historian Peter Hayes publishes "Degussa in the Third Reich. From Collaboration to Complicity".

October 24, 2004
New source of funding: Degussa launches Euro Commercial Paper (ECP) program with nominal value of €750 million, giving it access to the short-term institutional debt market.

December 2004
Production in China: Construction of production plants for colorants and polyester starts at the Shanghai multi-user site. Start-up is scheduled for early 2006. The multi-user site will be used by various business units.

January 2005
Aid: Degussa and its employees donate around €850,000 to tsunami victims in South Asia.

Moving ahead in China: Establishment of a joint venture with Shandong Cathay Lineng Biotechnology. Plans to build a production plant for L-lysine in Jining with capacity of 40,000 metric tons p.a.

February 2005
Investment approved: Capacity at the carbon blacks facility in Paulinia, Brazil, is to be raised to 100,000 metric tons p.a.

Disposal: The nucleic acids group Proligo is sold to the life-science company Sigma-Aldrich Corporation, St. Louis, Missouri, USA.

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March 2005

New program: Board of Management announces "Degussa 2008" program. The aim is to meet long-term financial goals, pave the way for growth, raise competitiveness and strengthen market leadership.

Research: Process Intensification Project House is set up in Hanau-Wolfgang to work on new process strategies and reactor concepts. Aim: more flexible production facilities for specialty chemicals.

High demand: Expansion of production capacity for super-absorbents and acrylic acid in Krefeld at a cost of around €40 million. Followed in April by expansion of capacity at Greensboro, USA.

April 2005

Focus on the future: Nanotronics Science-to-Business Center opens in Marl. Purpose: To develop systems solutions based on nano-scale materials for electronics applications. Total R&D expenses: €50 million.

June 2005

Approval: Construction of a new isophorone production line in Herne, which is scheduled to come on stream in 2007.

Expansion: Following acquisition of all remaining shares in CYRO Industries, Rockaway, USA, methylmethacrylate capacity in Fortier, USA, is to be raised by 20,000 metric tons to 480,000 metric tons.

August 2005

Commitment: About 600 young people start vocational training courses at Degussa. Trainees account for 7.7 percent of the payroll, well above the average for the German chemical industry.

September 9, 2005

Divestment: Sale of the Food Ingredients Business Unit to Cargill, Minneapolis, USA, for €540 million is agreed.

October 2005

Impairment charge: Degussa takes an impairment write-down of €836 million on its fine chemicals activities due to unsatisfactory business trends and poor earnings prospects.

Real estate management: Deutsche Immobilien Chancen AG and Morgan Stanley Real Estate Funds acquire Degussa's former headquarters building in Frankfurt.

Disposal: US metallurgy company ESM is sold to the financial investor Platinum Equity, Los Angeles, for US$ 55 million.

Project completed: The world's largest methionine facility comes on stream in Antwerp. Construction cost €300 million and was Degussa's biggest ever single investment.

December 2005

Growth market: Degussa and Forhouse Corporation, Taiwan, set up a joint venture to produce optical quality polymethylmethacrylate (PMMA) molding compounds for flat screens.

Start-up: JIDA Degussa starts production of high-temperature polymers in China. JIDA is a joint venture of Degussa and Jilin University.

Announcement: RAG plans to acquire the remaining shares in Degussa AG, including the 42.86 percent held by E.ON. It is making a public offer for the free float.

January 1, 2006

Leaner structures: Divisional management structure is abolished. Business units are reduced from 20 to 17, reporting directly to the Board of Management. Degussa's Board of Management is increased to six members.

White biotechnology: Bio Science-to-Business Center is established in Marl to develop biotechnological products on the basis of natural raw materials. Total R&D expenses: €50 million. Sixty research scientists.

February 2006

Negotiations: The Board of Management decides to start negotiations on divesting the activities grouped in the Construction Chemicals segment.

Recommendation: The Board of Management and Supervisory Board recommend that shareholders should accept RAG's offer and tender their shares for sale.

Market position strengthened: Acquisition of the super-absorbents business of Dow Chemical, Midland, USA, including production facilities in Rheinmünster/Baden-Baden, Germany, and toll manufacturing agreement with Dow's Midland facility.

Letter from the CEO	02
Profile of Degussa	04
Board of Management	06
Degussa 2008	08
Solutions to Customers	12
Make China Happen/ Explore Eastern Europe	16
Site Excellence	20
Human Excellence	24
Leading market positions	28
Degussa stock	30
Management Report	33
Performance and business conditions	34
Earnings position	44
Financial condition	60
Asset structure	64
Strategic research	65
Employees	67
Events after the end of the reporting period	68
Risk report	69
Corporate governance	73
Outlook	73
Financial Statements	75
Consolidated Income Statement	75
Consolidated Balance Sheet	76
Statement of Shareholders' Equity	78
Consolidated Cash Flow Statement	80
Notes	81
Auditor's Report	142
Principal Consolidated Subsidiaries of Degussa AG	143
Report of the Supervisory Board	144
Corporate Governance	149
Corporate Officers	155
Glossary	161

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Dear Shareholders,

During the past year we have taken a number of key steps to pave the way for the future development of the Degussa Group:

- We have streamlined our organizational structure and now manage our activities with a stronger focus on their growth potential.
- The "Degussa 2008" strategy program has been rolled out Group-wide.
- We took an impairment write-down on the fine chemicals activities and are working hard to realign these activities.

These decisions are a logical continuation of our policy of profitable growth. We are convinced that they will give Degussa a successful future.

Another major step in our future alignment came in December 2005 when our majority shareholder, RAG Aktiengesellschaft, announced that it planned to acquire all remaining shares in Degussa. It therefore made a public offer for the free float in January 2006 and intends to acquire all shares in Degussa currently held by E.ON AG.

Now I would like to single out some of the key developments in 2005:

At the start of the year we projected that Degussa would report a slight improvement in sales and EBIT. We achieved that: Sales grew by 9 percent and EBIT increased by 1 percent.

Following a further deterioration in business conditions in the fine chemicals sector, we took an impairment charge of €836 million on these activities in the fall. As a result, the Group made a net loss of €491 million. Degussa will not be paying a dividend for fiscal year 2005.

We have a clear strategy showing how we intend to develop the fine chemicals business through restructuring and capital expenditures. The impairment charge was important to prepare the ground for this.

Nearly five years after the formation of the present Degussa Group, we reviewed our management structures and business portfolio. The principal outcome of this "Strategy & Organization" project was a switch to a more systematic focus on growth potential in the management of our operations, accompanied by the introduction of far leaner management structures. This will speed up decision-making processes and improve our flexibility in the marketplace. As a global specialty chemicals company, our basic philosophy of decentralization remains a key success factor.

We have thus done all the groundwork for the successful implementation of the "Degussa 2008" performance enhancement program, which is designed to raise EBIT by €300 million within the next three years. That is vital to ensure we achieve our ambitious profitability and growth targets. After all, sustained profitable growth is Degussa's central goal.

We optimized our portfolio further in 2005. That included signing an agreement to divest the Food Ingredients activities. At the same time, we stepped up our focus on promising future technologies and growth regions. For example, we acquired the remaining stake in the US company CYRO as a basis for further global expansion of our methacrylate specialties business. We also strengthened our position in high-performance polymers through JIDA Degussa High Performance Polymers, a new joint venture in China.

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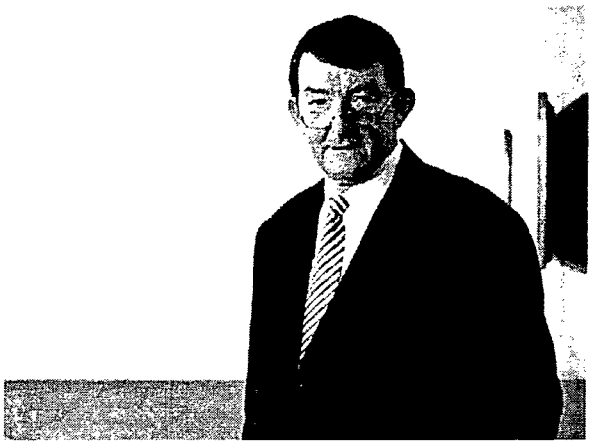
Research and development are fundamental for profitable growth at Degussa. Products and technologies developed in the past five years account for about 20 percent of sales. Our new Nanotronics and Bio Science-to-Business Centers bring together innovation and a strong customer orientation which should raise the pace of development from the initial idea to market success. Overall, we are investing €100 million in these projects at our Marl site. That represents a clear commitment to Germany as a center for research.

In all our efforts to make Degussa even more profitable, we make sure we do not lose sight of our social responsibility. We therefore remain firmly committed to vocational training: In 2005 Degussa took on 582 trainees, more than 50 percent above the sector average.

Management development is another area where we are proving successful. In a survey of career opportunities for managers at European companies published last September, we ranked among the top ten. That is evidence that we are well-placed in the competition to attract the best future managers.

Our international vacation exchange program for employees' children proved very popular. 175 young people were given an opportunity to spend up to three weeks at each others' homes, for example in Australia, Brazil, China, South Africa and the USA. Many companies have already expressed an interest in following our example and offering similar exchange programs.

To sum up: Degussa is built on firm foundations and has a stable and attractive portfolio of businesses that command above-average margins. Our financial structure is sound. In recent years we have made enormous progress and positioned the company for the future.



Professor Utz-Hellmuth Felcht

That has been achieved through the combined efforts of our employees, managers and representatives of the workforce. We would not be where we are today without the commitment and professionalism they have demonstrated, especially in the face of constant change. For that they earn my heartfelt thanks.

RAG's intention of taking over Degussa endorses our corporate strategy. We welcome the fact that it will continue to support us in the value-driven development of the Degussa Group in the future.

Yours,

Professor Utz-Hellmuth Felcht
Chairman of the Board of Management

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Profile of Degussa

Degussa is a multinational company systematically aligned to profitable specialty chemicals. Its hallmarks are reliability, excellence, innovation and intelligent linking of knowledge. These qualities are expressed in its corporate slogan, "creating essentials", which pinpoints its role as the originator of value-added products and systems solutions that play a crucial role in the success of its customers' end-products. Degussa is a fast, flexible organization with flat management structures and does everything it can to make sure it is close to its markets and customers.

2006: A systematic focus on growth In the past few years, Degussa has established itself firmly as the leading specialty chemicals company by refocusing its portfolio, restructuring and strengthening its core businesses. To meet its ambitious financial targets, it has continuously adjusted its corporate strategy, its portfolio and organizational structures. In future, Degussa will be concentrating even more closely on sustained profitable growth and has streamlined its organizational structure accordingly. That gives it an even leaner and more customer-focused position on the world's specialty chemicals markets. The new corporate strategy and organizational structure pave the way for the success of the "Degussa 2008" strategy program.

Extended management board In future, Degussa's Board of Management will play a far stronger operational role. It has therefore been increased from four to six members with the appointment of two new members: Dr. Bernhard Hofmann, who headed the Fine & Industrial Chemicals Division until the end of 2005, and Dr. Manfred Spindler, who previously headed the Specialty Polymers Division.

Effective January 1, 2006 the five operational divisions were eliminated as a management level and the business units now report directly to the Board of Management. They are supported by service units which are run on commercial lines and therefore compete with external service providers. The Corporate Center in Düsseldorf, Germany, is responsible for strategic management of the Group. The new structure strengthens Degussa's philosophy of decentralization, speeds up decision-making processes and increases flexibility in the market.

The number of business units has been reduced from twenty to seventeen. Similar activities have been combined so they can withstand global competition and make better use of growth opportunities.

Four reporting segments in future From 2006, Degussa's external reporting will center on four reporting segments: Technology Specialties, Construction Chemicals, Consumer Solutions and Specialty Materials. Each segment bundles activities with similar business models and strategic success factors. However, unlike the former divisions, they are not organizational entities with their own structures.

The Technology Specialties reporting segment comprises the business units whose products are based on specialist technologies successfully developed by Degussa over decades. These include synthetic building blocks for the pharmaceuticals industry and catalysts for the production of biodiesel. Moreover, through its expertise in the physical chemistry of particle technology Degussa has achieved a leading position in rubber reinforcement and polishing processes for optical data media.

The Construction Chemicals reporting segment comprises chemical systems and formulations for customers in the construction

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Pooling the activities into 17 business units

Old divisions	Old business units	Pooling/ reallocated	Business units from Jan. 1, 2006	Reporting segments from Jan. 1, 2006
Construction Chemicals	Admixture Systems Europe		Admixture Systems Europe	Construction Chemicals
	Admixture Systems North America		Admixture Systems North America	
	Admixture Systems Asia/Pacific		Admixture Systems Asia/Pacific	
	Construction Systems Europe		Construction Systems Europe	
	Construction Systems Americas		Construction Systems Americas	
Fine & Industrial Chemicals	Building Blocks	Active Oxygen	Building Blocks	Technology Specialties
	Exclusive Synthesis & Catalysts	Initiators	Exclusive Synthesis & Catalysts	
	Peroxygen Chemicals	Hydrogen Cyanide	Aerosil & Silanes	
	C_4-Chemistry		Advanced Fillers & Pigments	
	Feed Additives		C_4-Chemistry	
Performance Materials	Superabsorber		Feed Additives	Consumer Solutions
	Care Specialties	Pooling	Superabsorber	
	Oligomers & Silicones		Care & Surface Specialties	
Coatings & Advanced Fillers	Coatings & Colorants	Coating & Ink Additives	Coatings & Colorants	Specialty Materials
	Aerosil & Silanes			
	Advanced Fillers & Pigments			
Specialty Polymers	High Performance Polymers		High Performance Polymers	
	Specialty Acrylics	Films & Foams	Specialty Acrylics	
	Methacrylates	Pooling	Methacrylates	
	Advanced Polymer Shapes			

☐ Pooling applies. ☐ Pooling does not apply.

As of January 1, 2006

industry. As the global market leader, Degussa can build on its strong distribution network and enormous expertise in applications development.

The Consumer Solutions reporting segment groups together those businesses in which Degussa is a global supplier of customized ingredients for the manufacture of consumer products and materials. Through development alliances, Degussa works closely with leading producers of end-products.

The Specialty Materials reporting segment comprises high-performance materials which rank among the market leaders as a result of Degussa's superior materials, processing and applications expertise. Many of the products are manufactured from methylmethacrylate (MMA) in a closely integrated production network which generates competitive advantages, enabling these units to systematically tap into the market for specialty applications such as pharmaceutical polymers and optical electronics.

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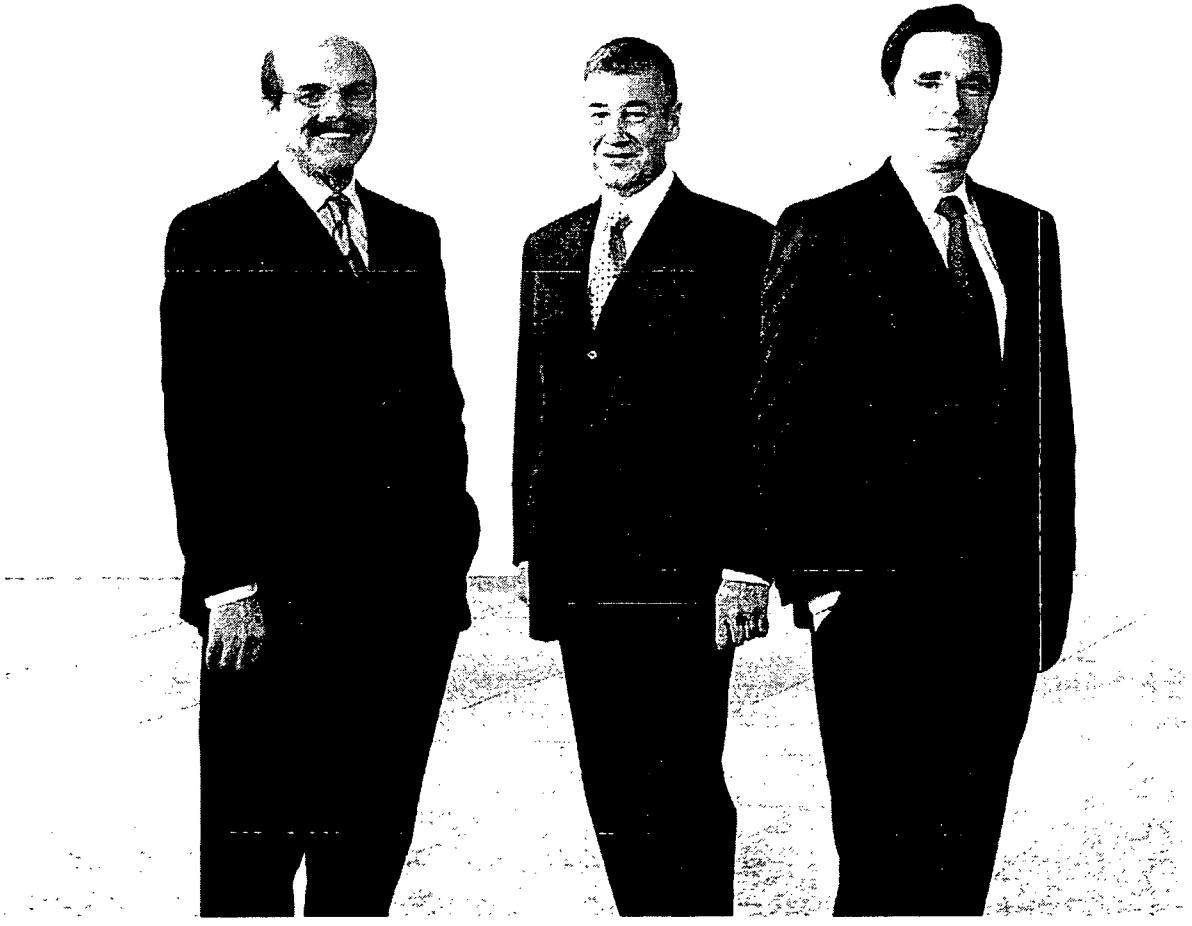
Board of Management



Dr. Thomas Schoeneberg
Studied law and politics in Berlin and Hamburg, obtaining his doctorate in 1974. Became a substitute member of the Board of Management of PreussenElektra AG in 1986 and a full member in 1988. Member of the Board of Management of Degussa-Hüls AG from 2000 and Degussa AG since 2001. Labor Director. Other responsibilities include personnel and social policy, environment, health, safety and quality, legal affairs and insurance.

Dr. Alfred Oberholz
Studied chemistry at RWTH Aachen, obtaining his doctorate in 1980. Appointed substitute member of the Board of Management of Hüls AG in 1996 and a full member in 1998. Member of the Board of Management of Degussa-Hüls AG from 1999 and of Degussa AG since 2001. Responsibilities include innovation and technology management, mergers & acquisitions and IT strategy.

Dr. Bernhard Hofmann
Studied chemistry in Giessen, obtaining his doctorate in 1979. Worked for Hoechst AG from 1979 to 1998, became Managing Director and CEO of Vinnolit GmbH & Co. KG in 1998 and a division head at Degussa AG in 2001. Member of the Board of Management of Degussa AG since 2006. Responsibilities include the operating business of the Technology Specialties and Construction Chemicals reporting segments.

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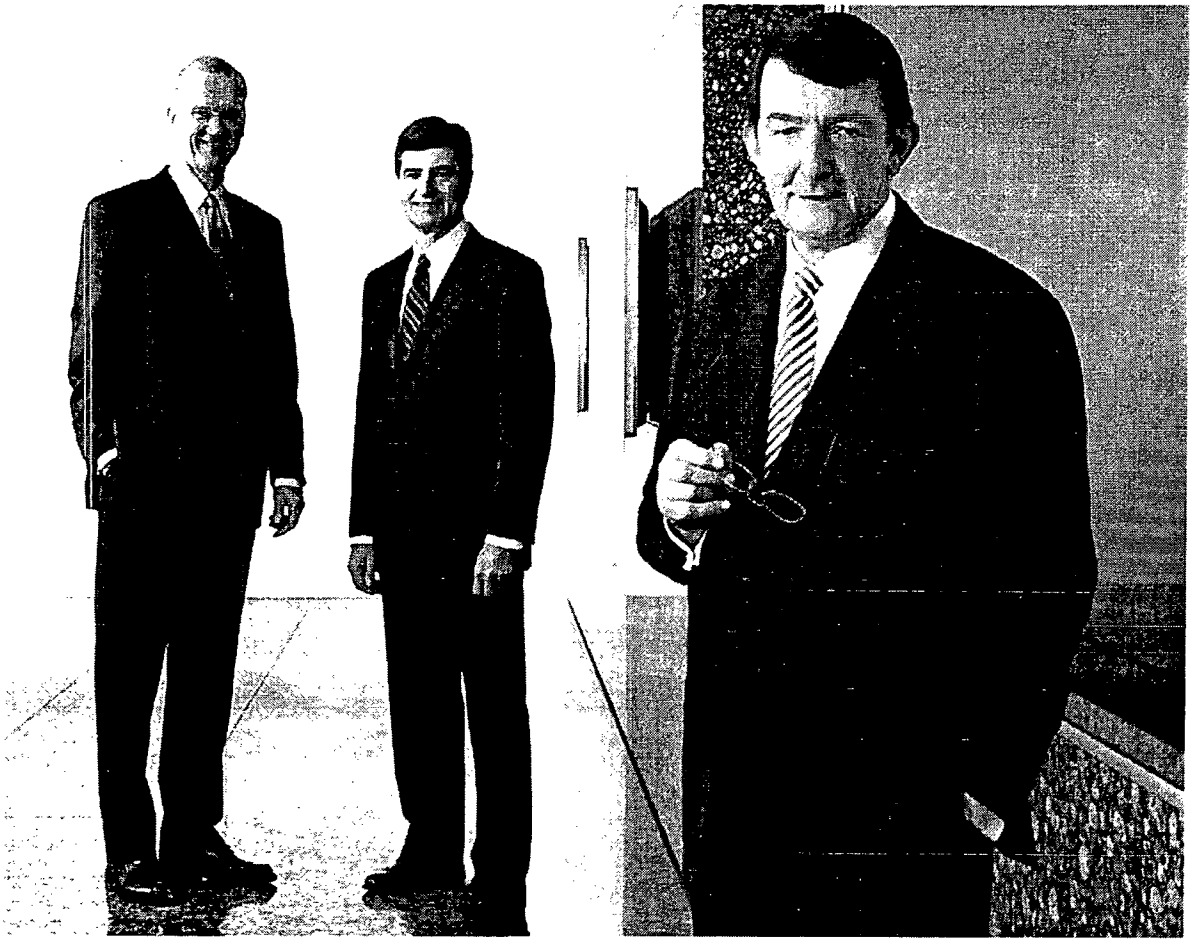

Dr. Manfred Spindler
Studied chemistry in Bonn, obtaining his doctorate in 1977 and has worked for Degussa since then. Member of the Board of Management of the former Degussa AG from 1997, Member of the Board of Management of Degussa-Hüls AG from 1999, division head since 2001 and member of the Board of Management of the present Degussa AG since 2006. Responsibilities include the operating business of the Consumer Solutions and Specialty Materials reporting segments.

Heinz-Joachim Wagner
Graduated in business administration from Frankfurt university in 1974 and has worked for Degussa since then. Appointed to the Board of Management of the former Degussa AG in 1996. Member of the Board of Management of Degussa-Hüls AG from 1999 and of the present Degussa AG since 2001. Responsibilities include finance, controlling, accounting and taxes.

Professor Utz-Hellmuth Felcht
Studied chemistry in Mainz and Saarbrücken, obtaining his doctorate in 1976. Member of the Board of Management of Hoechst AG from 1991, Chairman of the Board of Management of SKW Trostberg AG from 1998 and of Degussa-Hüls AG from 2000. Chairman of the Board of Management of Degussa AG since 2001. Responsibilities include strategy, communication and managerial staff. Member of the Board of Management of RAG AG since June 1, 2003.

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Degussa stock

DAX gained more than 27 percent in 2005—Degussa shares rose to the highest level since 2001 2005 was a good year on the stock market, with the whole of Europe and not just Germany basking in a rosy glow. It was also an exciting year dominated by elections in Germany, a rising number of initial public offerings and the European Central Bank's first interest-rate rise in five years.

In Germany, the DAX index advanced more than 27 percent, ending the year at its highest level since early 2002, while the mid-caps represented on the M-DAX index posted an average gain of more than a third. German stocks thus moved ahead for the third consecutive year. Although the EuroStoxx 50 and most other share indices in the euro zone were unable to top the DAX performance, they gained an average of 20 percent over the year. Even the terrorist attacks in London, record oil prices, hurricanes Katrina and Rita and the squabbling about a European Constitution were unable to halt the clear upward trend.

The German market traded unevenfully in the first few months of the year with the DAX remaining within a relatively narrow band of 4,200 to 4,400 points until the end of May. Events on the political stage then roused it from its lethargy: the announcement of an early general election in Germany sent share prices soaring.

In the first half of the year, market sentiment was held back mainly by rising raw material prices. A slight drop in oil prices after the summer highs also boosted German shares.

Key data on Degussa stock

ISIN	**DE 0005421903**
Securities identification no. (WKN)	**542 190**
Bloomberg ticker symbol	**DGX GR**
Reuters ticker symbol	**DGXG.DE**

		2001	2002	2003	2004	**2005**
Average daily trading volume (XETRA)	Shares	344,115	542,104	86,094	24,258	**42,459**
No. of shares		205,623,590	205,623,590	205,623,590	205,623,590	**205,623,590**
Capital stock	€	205,623,590	205,623,590	205,623,590	205,623,590	**205,623,590**
Market capitalization at year end (XETRA)	€	5,808 million	4,935 million	5,700 million	6,370 million	**8,811 million**
Highest share price (XETRA)	€	39.60	37.67	29.47	32.98	**44.50**
Lowest share price (XETRA)	€	20.20	24.00	20.62	24.70	**30.50**
Year-end price (XETRA)	€	28.25	24.00	27.72	30.98	**42.85**
Average price for the year (XETRA)	€	30.14	31.56	25.17	29.24	**34.39**
Earnings per share[1)]	€	2.05	1.10	– 0.77	1.45	**– 2.39**
Dividend per share	€	1.10	1.10	1.10	1.10	**0.00**
Cash flow per share[1) 2)]	€	7.28	6.95	6.42	5.42	**5.23**
Equity per share[1)]	€	28.74	27.62	24.40	22.76	**20.36**
Price/earnings ratio[1) 3)]		9.1	21.8	–	21.4	–
Dividend yield[3)]	%	3.9	4.6	4.0[2)]	3.55	**0.0**

[1)] 2003–2005 as per IFRS; 2001–2002 as per US GAAP
[2)] Funds from operations
[3)] Based on the XETRA closing price at year end

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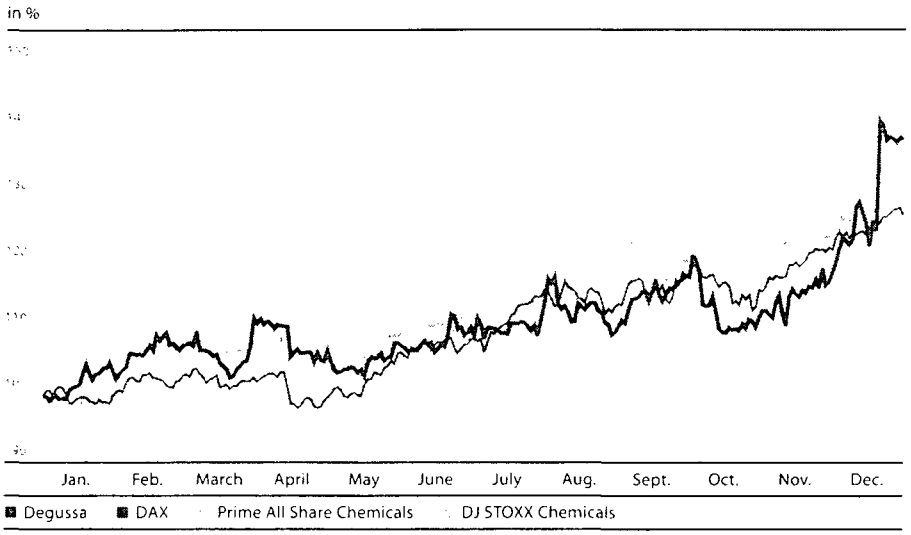
Relative performance of Degussa stock in 2005



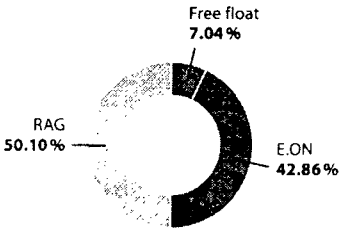
Moreover, export-oriented companies in the euro zone benefited from the weakening of the euro, which slipped more than 10 percent against the US dollar during the year, thus increasing their competitiveness.

RAG announced plans to take over Degussa

Degussa's share price rose in the first half of the year, continuing the rally that started in the second half of 2004, then traded sideways at around €34 per share in the summer. From September, it resumed its upward trend, rising to over €36.

In October it came under pressure from the high impairment charge for the fine chemicals activities and expectations that the Group would report a loss at year end. Since the Degussa Group reported a net loss of €491 million, it will not be paying a dividend for 2005.

Degussa's present shareholder structure



December 31, 2005

In mid-December Degussa's majority shareholder, RAG Aktiengesellschaft, announced that it intended to acquire all remaining shares in Degussa. It is offering a price of €42 per share for the free float. Rumors in the press pushed the share price up to €44.50 before the announcement and the stock has been trading slightly above the offer price since then. It closed the year at almost €43.

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Comparison of the performance of Degussa stock

	Year-end 2005	Year-end 2004	Change in %
Year-end price (XETRA) in €	**42.85**	30.98	38
DAX	**5,408**	4,256	27
M-DAX	**7,312**	5,376	36
Prime All Share Chemicals	**697**	514	36
Dow Jones STOXX Chemicals	**339**	261	30

Since the free float is just 7.04 percent and average daily trading volume is therefore only around 42,000 shares, institutional investors have shown little interest in Degussa. Private German investors therefore remained the largest group of investors in 2005. A small proportion of shares were held by employees and German investment funds.

Despite this, capital market communication remains very important to Degussa. Alongside a large number of one-on-one meetings with investors and financial analysts, the management and investor relations team attended the following investment conferences in 2005:

- **January 12:** Dresdner Kleinwort Wasserstein, German Investment Seminar, New York
- **June 1:** Deutsche Bank, German Corporate Conference, Frankfurt am Main
- **June 21:** Sal.Oppenheim, European Chemicals Conference, Zurich
- **September 28:** HypoVereinsbank, German Investment Conference, Munich

During the year, financial analysts were invited to in-depth presentations of the Specialty Polymers and Coatings & Advanced Fillers Divisions. These one-day meetings gave them an opportunity to gain a more detailed insight into the business units in these divisions and talk to the managers in charge.

Assuming RAG acquires all remaining Degussa shares in the course of 2006, we will discontinue our investor relations activities. Until then, we will continue our policy of timely and open communication with the capital market and uphold our high standards of reporting and information.

Financial diary 2006

March 3, 2006:	Financial Press Conference (Düsseldorf)
May 9, 2006:	Interim Report January–March 2006
May 29, 2006:	Annual Shareholders' Meeting
August 8, 2006:	Interim Report January–June 2006
November 8, 2006:	Interim Report January–September 2006 and Fall Press Conference (Düsseldorf)

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Principal Consolidated Subsidiaries of Degussa AG

As of December 31, 2005 **Company name and headquarters**	**Country**	**Share-holding in %**	**Share-holders' equity[1] in € million**	**Sales[1] in € million**	**Net income[1] in € million**	**Employees at year end**
Germany						
Degussa Construction Chemicals GmbH, Trostberg[2]	D	100	260	0	4	0
Degussa Food Ingredients GmbH, Trostberg	D	100	280	4	4	22
Degussa Initiators GmbH & Co. KG, Pullach	D	100	– 1	105	– 9	367
Goldschmidt GmbH, Essen[2]	D	100	127	356	16	1,378
Infracor GmbH, Marl[2]	D	100	66	650	16	2,432
Oxeno Olefinchemie GmbH, Marl[2]	D	100	39	899	72	441
Relius Coatings GmbH & Co. KG, Oldenburg	D	100	23	114	3	615
Röhm GmbH & Co. KG, Darmstadt	D	100	184	938	16	3,228
RohMax Additives GmbH, Darmstadt	D	100	71	178	7	159
Stockhausen GmbH, Krefeld[2]	D	100	127	624	37	1,054
Abroad						
CYRO Industries Inc., Rockaway	USA	100	171	278	20	659
Degussa (China) Co., Ltd., Beijing	CN	100	94	21	– 8	346
Degussa Admixtures, Inc., Wilmington	USA	100	203	208	52	309
Degussa Amalgamation Ltd., Milton Keynes	GB	100	787	0	– 12	0
Degussa Antwerpen N.V., Antwerp	B	100	112	305	12	1,064
Degussa Brasil Ltda., São Paulo	BR	100	78	151	11	321
Degussa Building Systems Inc., Wilmington	USA	100	148	186	26	206
Degussa Canada Inc, Burlington	CDN	100	40	106	10	113
Degussa Corporation, Parsippany	USA	100	1,033	1,067	113	1,580
Degussa Flavors & Fruit Systems US, LLC, Cincinnati	USA	100	34	62	2	217
Degussa Japan Co., Ltd., Tokyo	J	100	76	144	1	120
Degussa Texturant Systems France SAS, Paris	F	100	134	161	4	634
Degussa UK Holdings Limited, London	GB	100	193	0	– 203	0
Goldschmidt Chemical Corporation, Hopewell	USA	100	45	235	2	486
Laporte Speciality Organics Limited, Milton Keynes	GB	100	599	0	18	0
NIPPON AEROSIL Co., Ltd., Tokyo	J	80	44	87	13	147
NMB Co Ltd., Tokyo	J	100	61	103	0	411
RohMax USA Inc., Horsham	USA	100	28	119	9	120
Stockhausen Inc., Greensboro	USA	100	57	318	– 27	345

[1] The figures correspond to the financial statements prepared in accordance with local regulations and do not show the company's contribution to the consolidated financial statements. Shareholders' equity is translated at the average rate on the balance sheet date. Sales and net income are translated using average annual rates.
[2] Before transfer of profit/loss.

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Credits

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Editorial deadline: March 1, 2006

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degussa.

creating essentials

Portrait of Degussa

Degussa is a multinational corporation consistently aligned to high-margin specialty chemistry. We stand for innovation, reliability, excellence and intelligent linking. We sum up this approach in our claim of "creating essentials", which expresses that our products and system solutions create something valuable and essential for the success of our customers.

Degussa is characterized by speed, flexibility and flat hierarchies. Our operating activities are pooled into 12 business units, each allocated to one of three reporting segments – Technology Specialties, Consumer Solutions and Specialty Materials. These reporting segments represent our strong competence platforms, and each one combines activities with comparable business models and strategic success factors. The importance of our business units is expressed in our management philosophy – "as decentrally as possible and as centrally as necessary" – with the business units acting as "entrepreneurs within the enterprise" and reporting directly to the Group Management Board. They are supported in turn by service units that are also managed entrepreneurially, competing with third parties in offering services in such areas as human resources, accounting, information technology and site infrastructure. The Corporate Center in Dusseldorf, Germany, provides strategic management functions.

Our activities are aligned with the vision that "Everybody benefits from a Degussa product – every day and everywhere". This approach begins in the morning, with parents, for example, waking up rested and refreshed – the Degussa superabsorbents in their baby's diapers having provided everybody a quiet night. And their morning wash routine is likely to include Degussa products in such items as toothpaste, shower gel and shampoo. The drive to work will be safer, cheaper and eco-friendlier thanks to "green" tires containing Degussa's silica and silane components, and once in the office, use will probably be made of paper bleached without chlorine thanks to Degussa products. Back in the home, Degussa PLEXIGLAS® helps winter gardens look smart and stylish, and during winter holidays, sports enthusiasts can cut a fashionable look out on the slopes with skis and snowboards sporting a modish decor – enabled by wafer-thin films involving Degussa's specialty polymers. And last but not least, pharmaceutical products based on special Degussa molecules take care of health needs.

In fiscal 2005, Degussa generated sales of over 11.8 billion euros with some 44,000 employees. Since we manufacture our products where our customers are located, almost three-quarters of this turnover originated from outside Germany.

Following the merger of Degussa-Hüls and SKW Trostberg, we have since brought our start-up phase (2001 - 2004) to a successful close and are well positioned today, being the global market leader in specialty chemicals and one of the world's top ten chemical companies. Portfolio size and scope are the main competitive factors in our sector of industry, and in times of rapid structural change and pronounced economic cycles, our broad and stable portfolio is a decisive success factor. Our clear specialty chemicals profile sets us apart from the global competition, and was achieved during our start-up phase by divesting activities with a sales volume of over 6 billion euros – the equivalent of about a third of our total turnover at the time – plus use of the proceeds to strengthen our core operations and reduce debt.

We used this solid foundation to embark on the second phase in our development, with its focus on ambitious growth and profitability targets. For the future we want to be more than the biggest specialty chemicals company – we intend to be one of the best.

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Our performance enhancement program –"Degussa 2008" – has been designed with this objective in mind, and aims to achieve a significant improvement in operating profits (EBIT) of 270 million euros by 2008 (in comparison to fiscal 2004). As such, the program has the following worldwide aims:

- improvement of our customer orientation (Solutions to Customers project)
- attainment of a greater presence in growth markets (Make China Happen and Explore Eastern Europe projects)
- enhancing the efficiency of our sites (Site Excellence project), and at
- achievement of a corporate and management culture that consistently deploys performance management solutions to foster highly-qualified and committed employees and acknowledge their contribution to a greater extent (Human & Corporate Excellence).

We are particularly committed to research and development (R&D) as a basis of profitable growth, and we aim to step up our efforts still further in future. Around 2,300 Degussa employees work in R&D at over 35 research locations all over the world, and we are involved in over 200 cooperative projects with universities as a means of swiftly introducing scientific knowledge into the company. Some 20 percent of our sales are based on products and technologies that are less than five years old. The Science to Business Center Nanotronics (which develops nanomaterials-based system solutions for the electronics industry) and our new Science to Business Center Bio (white biotechnology) are the latest flagships of our research operations.

In addition, our commitment to training is well above average, as evidenced by the fact that once again around 600 young people began apprenticeships at Degussa in September 2005, and we also provided training places to some 60 young people on behalf of other companies. These figures place us over 50 percent above the branch average in terms of our contribution towards the "Investing in the Future through Training" (*Zukunft durch Ausbildung*) collective agreement. Our strong training commitment is also reflected in our high ratio of apprentices to employees, which lies at 7.7 percent compared to the chemical industry average of 5.0 percent. We spend approx. 50 million euros on training every year.

With regard to capital expenditure, we plan to invest a total of 2.1 billion euros between 2006 and 2008, with close to 700 million euros of this sum earmarked for 2006.

Sustainable management is an integral component of business processes at Degussa. For example, we are particularly committed to promoting and advancing science, whereby our educational, cultural and science projects are all handled by the Degussa Foundation. We attach particular importance to transparent reporting, and provide comprehensive information on economic, social and ecological development in our Annual Report and Corporate Citizenship Report. Moreover, Degussa is repeatedly awarded very good ratings by noted sustainability indices. We are proud of this acknowledgement, which also serves to drive forward and strengthen our commitment for the future.

These index rankings recognize in particular our corporate governance activities, which are an integral component of our management philosophy. In December 2005 Degussa's Supervisory Board and Management Board issued its most recent declaration of compliance concerning the recommendations made by the Government Commission on the Corporate Governance Code pursuant to Section 161 of the German Stock Corporation Act. Moreover, each one of our employees throughout the world pledges to comply with the Group's comprehensive rules of conduct, including the observance of ethical standards.

July 2006

SOVEREIGN CONSULTING INC.

REMEDIAL INVESTIGATION REPORT AND REMEDIAL ACTION WORK PLAN FOR THE NORTHERN PHENOL AREA AND DOWTHERM DNAPL AREAS

Kalama Chemical Inc. Facility
290 River Drive
Garfield, Bergen County New Jersey
ISRA Case No. 86B73

13 February 2004

Prepared for:

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Houston, Texas 77002

Prepared by:

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Paul I. Lazaar, P.G.
Principal Project Manager

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EXECUTIVE SUMMARY

This report presents the *Remedial Investigation Report and Remedial Action Work Plan* (RIR/RAW) for the Northern Phenol Area and the Dowtherm dense non-aqueous phase liquids (DNAPLs) areas at the Kalama Chemical Inc. facility in Garfield, New Jersey. In June 1997, EPEC Polymers Inc. (EPI) began a groundwater monitoring program to determine if the concentrations of phenol, methanol, and formaldehyde in the shallow and deep overburden zones of the Northern Phenol Area were decreasing to below the applied groundwater quality standards. By July 2000, concentrations of the compounds of concern in the shallow overburden had decreased significantly and were at or below the applied groundwater quality criteria. However, the concentrations of phenol, salicylic acid, methanol, and formaldehyde in the deep overburden zone had not shown a similar decreasing trend. Therefore, an investigation was initiated to determine the source of these compounds in the deep overburden zone. This investigation was completed in October 2002 when the horizontal and vertical extent of the phenol and salicylic acid plumes in the deep overburden zone had been delineated.

In August 2001, the New Jersey Department of Environmental Protection (NJDEP) directed EPI to shut down the air sparge/soil vapor extraction (AS/SVE) system in the southeast corner of the site, pending submission and review of the performance data for the system. The performance data for the AS/SVE system was submitted to the NJDEP in May 2002. In their letter dated 30 July 2002, the NJDEP approved the performance data for the AS/SVE system, and allowed the AS component of the system to be re-started (the SVE component of the system had been re-started in November 2001 to take advantage of low water table conditions arising from an on-going drought). During preparations to re-start the AS system in August 2002, DNAPL was discovered in one of the air sparge wells (AS-12). The discovery of DNAPL in AS-12 (determined to be Dowtherm, a heat transfer fluid used at the facility when it was in operation) triggered a soil and groundwater investigation that was completed in August 2003.

In September 2002, the former process waste sewer line that ran parallel to Hudson Street along the southern property line was excavated to remediate soil containing elevated concentrations of 1,1'-biphenyl and diphenyl ether (the two compounds which comprise Dowtherm). When the excavation reached approximately 11.5 - 12.0 feet below grade adjacent to the southwest corner of Building 16, a dark fluid (later determined to be Dowtherm) entered the trench from beneath the building. It appears that this product came from a small section of pipe that connected a bathroom in Building 16 to the

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Hudson Street sewer line. Although additional soil was excavated in the area where the Dowtherm entered the trench, elevated concentrations of 1,1'-biphenyl and diphenyl ether remained in the soil.

This RIR/RAW contains the results of the investigations conducted in the Northern Phenol Area, and the Dowtherm DNAPL areas around AS-12 and the southwest corner of Building 16. A review of available information and data for the Northern Phenol Area suggest that the extent of impact in the deep and shallow overburden zones are restricted to the site, but distributed over a wide area. Because of the extent and volume of impacted soil and groundwater in Northern Phenol Area, only the following *in situ* treatment technologies were considered in the remedial action selection:

- Air Sparging;
- Biosparging;
- Chemical Oxidation
- Pump and Treat; and,
- Containment

Biosparging has been selected to remediate the Northern Phenol Area. This technology will avoid costly pumping technologies and should prove to be very effective for the treatment of the large Northern Phenol Area. It should be noted that this technology has already been proven to be effective in remediating groundwater in the southwest corner of the site, where the air curtain has been in operation since 1998.

A review of available information and data for the Dowtherm DNAPL Areas suggests that the contamination is limited to discrete identified zones within the subsurface. Because the impacted soils are restricted to limited areas of the Dowtherm DNAPL Areas and residual and free product are anticipated, soil removal was considered in addition to other *in situ* treatment technologies in the remedial action selection. The following remedial action alternatives were evaluated for the Dowtherm DNAPL Areas:

- Air Sparging/Soil Vapor Extraction (AS/SVE);
- Biosparging;
- Chemical Oxidation;
- Pump and Treat;
- Containment; and,
- Soil Excavation & Off Site Disposal

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Soil excavation and off-site disposal was the technology selected for the remediation of the Dowtherm DNAPL Areas. Soil excavation will serve to remove residual or free product that could potentially be a continued localized source of groundwater contamination, and would provide the optimum probability for attaining the required remediation objectives. Excavation of the residual and/or free product source soils would also meet site objectives for public health, safety, and the environment in the shortest time frame.

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the north, south, and east by mixed residential, commercial, and industrial properties. The Passaic River forms the western property line.

1.2 Site History

The first buildings at the site were constructed in 1891 and chemical manufacturing has been performed since that time. Over the years, the ownership of the property changed hands several times. In 1963, the Heyden Newport Chemical Corporation was purchased by Tenneco Chemicals, Inc., who continued to operate the facility until 1982, when they sold the property to Kalama Chemical Inc. In 1986, the purchase of Kalama Chemical by BC Sugar triggered the NJDEP's Environmental Cleanup Responsibility Act (ECRA). In 1990, following four years of investigative activities, Kalama filed a lawsuit against Tenneco Polymers Inc. (TPI). In April 1994, Kalama and TPI settled the lawsuit, and TPI assumed primary responsibility for compliance with the NJDEP's Industrial Site Recovery Act (ISRA) regulations in accordance with the revised Administrative Consent Order. In January 1997, Tenneco Inc. merged with El Paso Energy Corporation (EPEC), and the former Tenneco subsidiaries became subsidiaries of EPEC. In January 2001, EPEC merged with the Coastal Corporation, and the Company was renamed El Paso Corporation (EPC). As a result of these mergers, Tenneco Polymers Inc. is now known as EPEC Polymers Inc.

The chemicals produced at the site were used in pharmaceuticals, cosmetics, food packaging and preservatives, synthetic flavorings, printing inks, dyestuffs, and other products. The following are the primary chemicals either used or produced at the site:

Primary Chemicals	Period Used/Produced
Salicylic acid Sodium, potassium, and methyl salicylate	Produced from turn of the century to 1994.
Parasepts (esters of para-hydroxy benzoic acid) Methylene disalicylic acid	Produced from the 1940s to 1994.
Formaldehyde	Produced from the 1930s to 1982.
Pentaerythritol (a glycerine substitute)	Produced from early 1940s to 1962.

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General

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

August 27, 1999

Honorable Robert Menendez
US House of Representatives
Canon House Office Building, Room 405
Washington DC 20515-3013

Dear Congressman Menendez:

As you know, protecting the quality of our water is utmost in the minds of New Jersey's citizens. Within the State of New Jersey, 24 municipalities operate combined sewer systems, that is, sewer systems which convey both sanitary waste and stormwater and which discharge directly to surface water through combined sewer overflow ("CSO") points during wet weather events. For your information. I have attached a list of these municipalities and the number of their permitted CSO points. I know that you are aware of the significant amount of solids and floatables that enter our waterways from these types of overflows. Solids/Floatable materials in CSO discharges are aesthetically objectionable, environmentally deleterious, a potential health risk when encountered on the shoreline, injurious to biota, and a possible navigational hazard.

The Department, working closely with USEPA, developed and issued a general permit for Combined Sewer Systems. The permit, consistent with the National CSO Control Policy, requires communities with combined sewer systems, to mitigate the impacts of their combined sewer overflows through proper operation and maintenance programs, maximum conveyance of wastewater flows to a treatment facility, and effective solids/floatables control measures. Compliance with the permit is not conditioned in any way on the receipt of financial assistance, and enforcement actions are being instituted against delinquent municipalities. Nevertheless, the Department recognizes the associated costs to comply with the requirements of the National CSO Control Policy are significant.

One of the communities with a combined sewer system, the City of Elizabeth, has asked the Department to endorse its request for financial assistance from the Federal Government. The City of Elizabeth is seeking federal assistance to rehabilitate its combined sewer system and comply with all of the requirements of the National CSO

Control Policy including the control of solids and floatables. To that end, I am writing to request that you give all of New Jersey's communities with combined sewer systems, including the City of Elizabeth, your attention as you craft this year's federal budget.

Your action on this matter would be greatly appreciated. Please contact me if you need any further information.

Sincerely,

Robert C. Shinn, Jr.
Commissioner

V:Jim/Elizabeth1

c: Mayor Bollwage, City of Elizabeth
Dennis Hart, Director, Division of Water Quality
James Hamilton, Administrator, Water Compliance and Enforcement

Facility Name	Permitted CSO Points
Bayonne	33
Bergen County UA	0
Boro of East Newark	1
Boro of Fort Lee	2
Camden County MUA	1
City of Camden	31
City of Elizabeth	33
City of Hackensack	2
City of New Brunswick	1
City of Newark	30
City of Paterson	31
City of Rahway	5
Trenton Utility Authority	1
Cliffside Park	0
Edgewater MUA	7
Gloucester City	7
Guttenberg	1
Jersey City MUA	27
Joint Mtg Essex & Union Co.	0
Middlesex County UA	0
North Bergen Twp. MUA	12
North Bergen MUA -Woodcliff	1
North Hudson SA-Hoboken	11
Passaic Valley SC	0
Rahway Valley SA	0
Ridgefield Park	6
Town of Harrison	7
Town of Kearny	10
North Hudson SA-WNY	2
City of Perth Amboy	18
TOTAL :	**280**

NJ0108782-04LS

CERTIFIED MAIL NO.
P239 234 684

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

FEB 28 2000

Honorable Mayor J. Christian Bollwage
Mayor, City of Elizabeth
50 Winfield Scott Plaza
Elizabeth, NJ 07201

SUBJECT: New Jersey Pollutant Discharge Elimination System
General Permit No. NJ0105023
Permit Re-issuance

Dear Mayor Bollwage:

Enclosed is the final reissued NJPDES General Permit NJ0105023 for Combined Sewer Systems with the Response to Comments Document as required by N.J.A.C. 7:14A-15.16. General Permit No. NJ0105023 was issued on February 28, 2000, has an Effective Date February 29, 2000 and will expire on February 28, 2005. The permit has been issued in accordance with the provisions of N.J.A.C. 7:14A.

The general permit has been re-issued with minor modifications as proposed in the draft permit re-issuance that do not impact the substantive provisions of the original permit. The most significant modification to the permit is the incorporation of paragraphs I.E. 3 & 4 that provide for the automatic renewal of existing authorizations as provided by N.J.A.C. 7:14A-6.13 (d) 9.

Within thirty (30) calendar days following your receipt of this permit, under N.J.A.C. 17:14A 17.2 you may submit a request for an adjudicatory hearing to reconsider or contest the conditions of this permit. Regulations regarding the format and requirements for requesting an adjudicatory hearing may by found in N.J.A.C. 7:14A-17.2 (a) through (f). The request should be made to:

Stanley V. Cach, Jr., PE, PP, Chief
Bureau of Engineering North
PO Box 425
Trenton, NJ 08625-0425

Additionally, the request for an adjudicatory hearing must contain a completed, signed and dated "Administrative Hearing Request Checklist and Tracking Form for Permits" (form attached). The original forms shall be submitted to the Office of Legal Affairs and two copies submitted to the Division of Water Quality at the addresses listed on the attached form.

If you have any questions concerning the revocation and re-issuance of the permit, please contact Stanley V. Cach, PE, PP, Chief, Bureau of Engineering North at (609) 292-6894 or Gautam R. Patel, Chief, Bureau of Engineering South at (609) 984-6840.

Sincerely,

Dennis Hart
Director

ENCLOSURES
General Permit for Combined Sewer Systems and attachments
Request For Authorization and instructions
Notice to Permittees of Final Permit Decision
Administrative Hearing Request Checklist and Tracking Form for Permits

CERTIFIED MAIL NO.
P239 234 478

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection

Robert C. Shinn, Jr.
Commissioner

February 28, 2000

Mr. Blaise E. Lapolla
City of Elizabeth
50 Winfield Scott Plaza
Elizabeth, N.J. 07201-2462

SUBJECT: New Jersey Pollutant Discharge Elimination System
General Permit No. NJ0105023
Permit Re-issuance

GENTLEMEN:

Enclosed is the final reissued NJPDES General Permit NJ0105023 for Combined Sewer Systems with the Response to Comments Document as required by N.J.A.C. 7:14A-15.16. General Permit No. NJ0105023 was issued on February 28, 2000, has an Effective Date February 29, 2000 and will expire on February 28, 2005. The permit has been issued in accordance with the provisions of N.J.A.C. 7:14A.

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Dennis Hart
Director

ENCLOSURES
General Permit for Combined Sewer Systems and attachments
Request For Authorization and instructions
Notice to Permittees of Final Permit Decision
Administrative Hearing Request Checklist and Tracking Form for Permits

CERTIFIED MAIL No.
P239 234 684

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Bureau of Engineering North
Municipal Finance and Construction Element
PO BOX 425
Trenton, NJ 08625-0425

Robert C. Shinn, Jr.
Commissioner

February 28, 2000

Honorable Mayor J. Christian Bollwage
Mayor, City of Elizabeth
50 Winfield Scott Plaza
Elizabeth, NJ 07201

Dear Mayor Bollwage:

SUBJECT: New Jersey Pollutant Discharge Elimination System
NJPDES Permit No. NJ0105023
General Permit for Combined Sewer Systems
Notice of Automatic Renewal of Authorization
Individual Authorization No. NJ0108782

We are pleased to inform you that your Individual Authorization under the General Permit for Combined Sewer Systems NJPDES No. NJ0105023 was automatically renewed until February 28, 2005 pursuant to NJAC 7:14A-6.13. Enclosed with this letter you will find a copy of your renewed Individual Authorization. Please include a copy of the renewed Individual Authorization in the Combined Sewer Overflow Control Pollution Prevention Plan (CSOPPP).

The General Permit for Combined Sewer Systems NJPDES No. NJ0105023 is issued to control the discharge of pollutants from Combined Sewer Systems through Combined Sewer Overflow Points (CSO Points). The General Permit was re-issued on February 28, 2000, has an Effective Date of February 29, 2000 and will expire on February 28, 2005.

Existing authorizations were renewed automatically when the general permit was issued. The most recently submitted Request for Authorization (RFA) (A copy is enclosed.) was considered a timely and complete request for authorization under the reissued permit. The automatic renewal of an Individual Authorization was applicable for any permittee who had an Individual Authorization under the permit immediately prior to the effective date of the reissued permit.

Enclosed with this notice is a copy of the most recent RFA and the renewed Individual Authorization for your facilities. If any information contained in the Individual Authorization, specifically, any information contained in Table CSO-1, or that

which is contained in the enclosed RFA of record, is no longer valid, accurate, and/or complete, the permittee is required to provide the correct information to the Department within 90-days after the effective date of the permit.

A copy of the general permit and a new RFA package is enclosed with this letter. Please complete the enclosed RFA and FORM A: SCHEDULE OF CSO POINTS and return the completed and signed RFA along with a FORM A to the Department at the address included on the RFA within 90-days after the effective date of the permit.

The Department appreciates your efforts toward accomplishing the goal of providing cleaner water for our State and looks forward to building upon our joint achievements.

Additional information concerning the Re-issued General Permit or the Renewal of the Individual Authorizations may be obtained between the hours of 8:00 AM and 4:00 PM, Monday thorough Friday by contacting Stanley V. Cach, PE, PP, Chief, Bureau of Engineering North at (609) 292-6894.

Sincerely,

Stanley V. Cach, Jr. PE, PP, Chief
Bureau of Engineering North
Municipal Finance & Construction

ENCLOSURES
Individual Authorization
RFA of record
New RFA package

CERTIFIED MAIL No.
P239 234 478

State of New Jersey

Christine Todd Whitman
Governor

Department of Environmental Protection
Bureau of Engineering North
Municipal Finance and Construction Element
PO BOX 425
Trenton, NJ 08625-0425

Robert C. Shinn, Jr.
Commissioner

February 28, 2000

Mr. Blaise E. Lapolla
City of Elizabeth
50 Winfield Scott Plaza
Elizabeth, N.J. 07201-2462

Dear Mr. Lapolla:

SUBJECT: New Jersey Pollutant Discharge Elimination System
NJPDES Permit No. NJ0105023
General Permit for Combined Sewer Systems
Notice of Automatic Renewal of Authorization
Individual Authorization No. NJ0108782

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Enclosed with this notice is a copy of the most recent RFA and the renewed Individual Authorization for your facilities. If any information contained in the Individual Authorization, specifically, any information contained in Table CSO-I,

which is contained in the enclosed RFA of record, is no longer valid, accurate, and/or complete, the permittee is required to provide the correct information to the Department within 90-days after the effective date of the permit.

A copy of the general permit and a new RFA package is enclosed with this letter. Please complete the enclosed RFA and FORM A: SCHEDULE OF CSO POINTS and return the completed and signed RFA along with a FORM A to the Department at the address included on the RFA within 90-days after the effective date of the permit.

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Sincerely,

Stanley Cach, Jr., PE, PP, Chief
Bureau of Engineering North
Municipal Finance & Construction

ENCLOSURES
Individual Authorization
RFA of record
New RFA package

NEW JERSEY POLLUTANT DISCHARGE ELIMINATION SYSTEM

The New Jersey Department of Environmental Protection hereby grants you a NJPDES permit for the facility/activity named in this document. This permit is the regulatory mechanism used by the department to ensure your discharge will not harm the environment. By complying with the terms and conditions specified, you are assuming an important role in protecting New Jersey's valuable water resources. Your acceptance of this permit is an agreement to conform with all of its provisions when constructing, installing, modifying, or operating any facility for the collection, treatment, or discharge of pollutants to waters of the state. If you have any questions about this document, please feel free to contact the department representative listed in the permit cover letter. Your cooperation in helping us protect and safeguard our state's environment is anticipated and appreciated.

PERMIT NUMBER NJ0108782

Permittee	Co-Permittee
ELIZABETH CITY OF 50 WINFIELD SCOTT PLAZA ELIZABETH NJ 07201	

Property Owner	Location of Activity
ELIZABETH CITY OF 50 WINFIELD SCOTT PLAZA ELIZABETH NJ 07201	ELIZABETH CITY OF 50 WINFIELD SCOTT PLAZA ELIZABETH NJ 07201

Current Authorization Covered By This Approval And Previous Authorization	Issuance Date	Effective Date	Expiration Date
CSO:COMBINED SEWER OVERFLOW (GP)	02/28/2000	02/29/2000	02/28/2005

By Authority of:

DEP AUTHORIZATION

Stanley V. Cach Jr., PE, PP
Chief, Bureau of Engineering North

(Terms, conditions and provisions attached hereto) **958870346**

NJPDES/DSW PERMIT NUMBER NJ0108782
INDIVIDUAL AUTHORIZATION PAGE CONTINUED

This individual general permit authorization authorizes the City of Elizabeth to operate a combined sewer system for the collection and conveyance of wastewater and to discharge untreated wastewater in the form of combined sewer overflows from the combined sewer overflow points listed on the Table CSO-I, in accordance with terms and conditions of the General Permit for Combined Sewer Systems NJPDES Permit No. NJ0105023.

Table CSO-I

001	Alina St. No. 1	40°40'49"	74°11'30"	Peripheral Ditch
002	Dowd Ave. No. 2	40°40'19"	74°11'26"	Great Ditch
003	Westfield Ave. No. 3	40°40'04"	74°13'15"	Elizabeth River
005	Westfield Ave. No. 5	40°40'04"	74°13'11"	Elizabeth River
006	Crane St. No. 6	40°40'01"	74°13'09"	Elizabeth River
007	W. Grant, E. Bank	40°39'58"	74°13'09"	Elizabeth River
008	W. Grant St. W. Bank	40°39'58"	74°13'08"	Elizabeth River
009	Murray St. E. Bank	40°39'47"	74°13'09"	Elizabeth River
010	Murray St. W. Bank	40°39'47"	74°13'10"	Elizabeth River
011	Rahway Ave. W. Bank	40°39'41"	74°13'06"	Elizabeth River
012	Rahway Ave. E. Bank	40°39'41"	74°13'04"	Elizabeth River
013	S. of Rahway Ave.	40°39'39"	74°13'04"	Elizabeth River
014	Broad St. E. Bank	40°39'39"	74°12'57"	Elizabeth River
016	Broad St. W. Bank	40°39'38"	74°13'03"	Elizabeth River
017	Broad St. W. Bank	40°39'38"	74°12'56"	Elizabeth River
021	South Spring St. E. Bank	40°39'32"	74°12'53"	Elizabeth River
022	South St. E. Bank	40°39'28"	74°12'39"	Elizabeth River
025	Montgomery St., W. Bank	40°39'22"	74°12'40"	Elizabeth River
026	John St.,E. Bank	40°39'15"	74°12'33"	Elizabeth River
027	Summer St.,W. Bank	40°38'59"	74°12'37"	Elizabeth River
028	Summer St., W. Bank	40°38'59"	74°12'37"	Elizabeth River
029	S.Front St.,E. Bank	40°38'40"	74°11'26"	Elizabeth River
030	East Jersey St. & Front St.	40°38'47"	74°11'12"	Arthur Kill
031	Livingston St.	40°38'48"	74°11'09"	Arthur Kill
032	Magnolia Ave.	40°38'51"	74°10'53"	Arthur Kill
034	Puleo Plaza	40°39'07"	74°10'15"	Newark Bay
035	Third Ave., E. Bank	40°38'33"	74°11'43"	Elizabeth River
036	Irvington Ave. Dod Ct.	40°40'15"	74°13'12"	Elizabeth River
037	Bayway	40°38'06"	74°11'57"	Arthur Kill
038	Trenton Ave., E. Bank	40°38'46"	74°12'52"	Elizabeth River
039	Schiller St.	40°39'46"	74°12'52"	Great Ditch
040	Pulaski St., W. Bank	40°38'47"	74°12'32"	Elizabeth River
041	Morris Ave., W. Bank	40°40'10"	74°13'11"	Elizabeth River
042	Bridge St., E. Bank	40°39'32"	74°12'43"	Elizabeth River

City of Elizabeth, New Jersey

COMBINED SEWER OVERFLOW POLLUTION ABATEMENT PROGRAM

Volume II

DRAFT

Clinton Bogert Associates

CONSULTING ENGINEERS

August, 1981

City of Elizabeth, New Jersey

COMBINED SEWER OVERFLOW POLLUTION ABATEMENT PROGRAM

Volume II

DRAFT

Clinton Bogert Associates

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August, 1981

958870350

TABLE OF CONTENTS

VOLUME II

		Page
VII.	EVALUATION OF ALTERNATIVES	VII-1
	A. Introduction	VII-1
	B. Alternatives for CSO Pollution Abatement	VII-1
	C. Feasible Alternatives	VII-7
	D. Effects of Individual Alternatives	VII-7
	E. Combination of Options for Pollution Abatement	VII-15
	F. Modifications to Provide Relief of Street and Cellar Flooding	VII-25
	G. Costs of Alternatives	VII-29
	H. Chlorination	VII-33
VIII.	ENVIRONMENTAL ASSESSMENT	VIII-1
	A. Environmental Inventory of the Planning Area	VIII-1
	B. Project Description	VIII-12
	C. Future Environmental Setting Without the Project	VIII-16
	D. Environmental Impacts of Alternatives	VIII-20
	E. Environmental Assessment of the Project - Summary	VIII-34
IX.	PRELIMINARY DESIGN AND COST ESTIMATES	IX-1
	A. Facilities and Their Costs	IX-1
	B. Replacement of Westerly Interceptor	IX-8
	C. Areas Tributary to the Westerly Interceptor	IX-9
	D. Areas Tributary to the Easterly Interceptor	IX-17
	E. Summary of Capital Costs	IX-23
	F. Status of Grants	IX-26
	G. Charges for the Program	IX-27
	H. Costs by Segment	IX-30
X.	INFILTRATION/INFLOW ANALYSIS	X-1
	A. Introduction	X-1
	B. Minisystem Delineation and Numbering	X-2
	C. Water Consumption Analysis	X-4
	D. Analysis of Trenton Avenue Pumping Station Sewage Flow Records	X-6
	E. Combined Sewer Structure Physical Inspection Findings	X-8
	F. Minisystem Infiltration Rates	X-10
	G. Cost-Effectiveness Analysis	X-12
	H. Conclusions and Recommendations	X-14

LIST OF TABLES

VOLUME II

Table	
VII-1	Potential Sewer Flushing Station
VII-2	Potential In-Line Locations
VII-3	Potential Storage Tank Locations
VII-4	Westerly Interceptor - Effect of Individual Alternatives
VII-5	Easterly Interceptor - Effect of Individual Alternatives
VII-6	Westerly Interceptor - Option Combinations
VII-7	Easterly Interceptor - Option Combinations
VII-8	Coliforms (MPN/100)
VII-9	Cost of Chlorination Facilities
VIII-1	Normal and Extreme Precipitation Totals at Newark International Airport
VIII-2	Normal and Extreme Precipitation Totals at Newark International Airport
VIII-3	Population of Elizabeth
VIII-4	Building Permits Issued
VIII-5	Water Use and Wastewater
VIII-6	Groundwater Uses and Well Data
VIII-7	Sulfur Dioxide Concentration Levels in Elizabeth Compared with the Air Quality Standards
VIII-8	Carbon Monoxide Concentration Levels in Elizabeth Compared with the Air Quality Standards
VIII-9	Nitrogen Dioxide Concentration Levels at Elizabeth Laboratory
VIII-10	References for Cultural Resource Survey at Elizabeth
VIII-11	Identified Sites in Elizabeth
VIII-12	Number of Modules vs. Sewer Size
IX-1	Westerly Interceptor Cost Estimate
IX-2	Summary of Costs Assuming No Grants
IX-3	Incremental Costs Per Capita Combined Sewer Overflow Pollution Abatement Program
X-1	Minisystem Infiltration/Inflow Rates
X-2	Combined Sewer Structures Physical Inspection Findings
X-3	Flow Related Transport and Treatment Costs
X-4	Cost-Effectiveness Analysis

958870352

LIST OF PLATES

VOLUME II

Plate #	
VII-1	Storage Tank
VII-2	Flow Control Module
VII-3	Storm Sewer Storage Module
VII-4	Combined Sewer Storage Module
VII-5	Isometric View of Swirl Regulator/Separator
VII-6	Wall Shear Stress in Circular Pipes, Flow = 0.5 cfs
VII-7	Wall Shear Stress in Circular Pipes, Flow = 1.0 cfs
VII-8	Wall Shear Stress in Circular Pipes, Flow = 1.5 cfs
VII-9	Tributary Area NNW
VII-10	Tributary Area NNW
VII-11	Tributary Area NNE
VII-12	Tributary Area NCE
VII-13	Tributary Area NCW
VII-14	Tributary Area CCN
VII-15	Tributary Area CCS
VII-16	Tributary Area WW
VII-17	Tributary Area NEN
VII-18	Tributary Area NES
VII-19	Tributary Area SE
VII-20	Tributary Area SSE
VII-21	Tributary Area SSW
VII-22	Tributary Area NNW
VII-23	Tributary Area NNW
VII-24	Tributary Area NCW
VII-25	Tributary Area CCN
VII-26	Tributary Area SSW
VII-27	Tributary Area SE
VII-28	Tributary Area SE
VII-29	Westerly Interceptor
VII-30	Easterly Interceptor
VIII-1	Elizabeth Flood Control Project
IX-1	Pollution Abatement Facilities
IX-2	Dual Purpose Facilities Pollution Abatement plus Flooding Relief
IX-3	Runoff Volume in 5 Hours of Rainfall for a 5 Year Storm
IX-4	Runoff Rate versus Travel Time
IX-5	Construction and Operations and Maintenance Cost for Buried Storage Tank
IX-6	Cost for Additional Cover on Buried Storage over 8.25 Feet
IX-7	Construction Costs and Operations and Maintenance Cost for Swirl Separator
IX-8	Construction and Operations and Maintenance Cost for Pumping Stations
IX-9	Construction Costs for Pipe in Trench
IX-10	Cost for Jacking Concrete Pipe

LIST OF PLATES

VOLUME II
(continued)

Plate #	
IX-11	Pollution Abatement Facility
IX-12	Area NNW, Dual Purpose Facility Pollution Abatement plus Flooding Relief
IX-13	Area NNW, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-14	Area NNW, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-15	Area NNE, Pollution Abatement Facility
IX-16	Area NCE, Pollution Abatement Facility
IX-17	Area NCW Pollution Abatement Facility
IX-18	Area NCW, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-19	Area CCN, Pollution Abatement Facility
IX-20	Area CCN, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-21	Area CCS, Pollution Abatement Facility
IX-22	Area WW, Pollution Abatement Facility
IX-23	Area NEN, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-24	Area SE, Pollution Abatement Facility
IX-25	Area SE, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-26	Area SE, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-27	Area SSE, Pollution Abatement Facility
IX-28	Area SSW, Pollution Abatement Facility
IX-29	Area SSW, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
IX-30	Area CCN, Dual Purpose Facility, Pollution Abatement plus Flooding Relief
X-1	Sewer System Subdivision
X-2	1974 Daily Sewage Flow and Rainfall
X-3	1975 Daily Sewage Flow and Rainfall
X-4	1976 Daily Sewage Flow and Rainfall
X-5	1977 Daily Sewage Flow and Rainfall
X-6	1978 Daily Sewage Flow and Rainfall

958870354

VII. EVALUATION OF ALTERNATIVES

A. Introduction

To develop an effective abatement program, the characteristics of all real rainfall events as recorded at Newark Airport were analyzed for the period 1963 through 1974. The frequency distribution of precipitation total amounts and preceding dry hours by event have been previously presented. Sewer solids are deposited in streets and sewers during dry periods. These are removed in part, or in whole, by rainfall events, depending on their intensity, total amount and duration. Because of the frequent occurrence of rainfalls, the sewer system does not normally store great incremental amounts of the dry weather flow pollutant. Also, significant sewer solids deposits are restricted to a relatively small length of sewers in Elizabeth. However, pollutant deposits in streets are widely distributed, although usually in greater relative quantities in the commercial and industrial areas than in the residential areas.

B. Alternatives for CSO Pollution Abatement

Alternatives for the abatement of pollution from combined sewer overflows generally consist of the following: sewer separation, treatment including screening, settling and chlorination or the swirl separator, off-line storage (downstream near interceptor), in-line storage (upstream storage in sewers or tanks), flushing, non-structural techniques, and combinations of these alternatives.

1. Sewer Separation. Separation of the sewers in a combined basin can be costly and not effective. In Elizabeth an estimated 54 percent of the pollutants in CSO originate in surface washoff. A separate system would continue to discharge these pollutants, unless flow routing was introduced which would permit directing the initial

flush of rainfall runoff to treatment. Pollutants discharged from a combined system can be less than those from a separate system (both storm and sanitary) without incurring significant additional costs for the total system. If limited lengths are required to achieve separation, such works may be the cost-effective solution if the amount of pollutants generated in the area served is relatively small.

2. Combined Sewage Treatment Plant (CSTP). These plants may provide storage, settling after their storage volume is filled, and disinfection of overflows. At the end of the rainfall event, waste remaining in the plant's tanks is routed to treatment along with the dry weather flow. Unless the plants are made quite large, the major benefit is obtained from the available storage volume.

3. Off-Line Storage. Off-line storage facilities may be at a downstream location in the drainage area where sufficient flows are tributary and land is available. Storage basins may be earthen lagoons, covered or uncovered concrete tanks, or below ground storage facilities. In addition to providing storage, such facilities usually include flow diversion structures, pumping facilities, regulating structures, screening facilities and sludge removal or suspension facilities. The construction cost of storage basins has been estimated using data provided by the U.S. Environmental Protection Agency. These costs have been adjusted to reflect current costs. They do not include costs for rock excavation, piles, unusual dewatering conditions, interconnecting sewers, etc. Such tanks may provide cost-effective facilities for pollution abatement. A typical tank is shown in Plate VII-1 and associated Flow Control Module in Plate VII-2.

4. In-Line Storage. In-line storage or collection system storage takes advantage of the volume in the larger diameter sewers for storage. Regulators, level sensors and other appropriate appa-

ratus are installed which allow routing of storm flows. The pipe volume could provide regulation by installing a restricted outlet. In major storms, which do not statistically contribute significantly to pollution, provision is required to open the regulator to permit passage of peak flows. A typical Storm Sewer Storage Module and Combined Sewer Storage Module is shown in Plates VII-3 and VII-4, respectively. Movable crest dams could also be used in a storage module. Controlled storage within an existing combined sewer system could be a viable alternative provided sufficient volume is available. A volume capable of storing the runoff from 0.15 inches of rainfall provides a substantial degree of CSO pollution abatement. Flushing stations to remove settled solids should be provided for each storage site.

Previous studies have investigated the use of an "advanced combined sewer system" which combines flow routing with in-pipe storage provided in over-sized sewers. Such a system makes use of overland flow for runoff for some distance before interception of the runoff in the collection system. The sanitary flow is picked up at the source in small diameter pipes, thereby reducing the cost of the collection system. Storage located to control flow from two- thirds of the area can be as effective as storage located at the furthest downstream point in the area. Such systems appear to have greatest application where new areas are being developed or where the existing system requires extensive replacement.

5. Swirl Separator. The swirl separator is of simple construction and has no moving parts. A cut section is shown in Plate VII-5. The basic construction consists of the following main parts: (a) inlet ramp which introduces the incoming flow at the bottom of the chamber, while preventing surcharges on the immediate upstream sewer, (b) flow deflector which directs flow after completing its first revolution in the chamber to be deflected inwards, (c) scum ring which prevents floating solids from overflowing, (d) overflow

weir and weir plate which carries the overflow to discharge and captures some floatables, (e) spoilers, which reduce rotational energy, thus improving the separation efficiency, (f) floatables trap which stores floatables, (g) foul sewer outlet which directs concentrated combined sewage to the interceptor for treatment, and (h) downshaft which directs the lower concentration, high volume, wet weather flows to the receiving water.

6. Sewer Flushing. Sewer flushing alternatives are an adjunct to, but are not a substitute for, structural facilities to obtain pollutant reduction in the CSO's. Sewer flushing during dry days is more effective in reducing BOD than SS in CSO. Resuspended solids tend to resettle in downstream sewers. With dilute sewage, flushing becomes less effective and may result in greater costs than other alternatives to achieve the same degree of pollution control. The average solids deposition per foot in trunk sewers may be greater than that in lateral sewers. The effectiveness of flushing in larger size sewers needs investigation.

Flushing of selected sewers on a regular basis, along with a program of physical cleaning, should economically insure the continuing capability of sewer laterals and trunks to provide maximum capacity and storage for combined flows. The selected sewers would have normally low velocities that would not maintain sewer solids in suspension during dry weather. Flushing may be expected to wash out significant parts of pollution associated with the organics. Physical cleaning may be required to move sand and grit. A flushing station consists of a manhole containing an hydraulically-operated quick opening gate and a chamber housing air compressors, electrical control system, sump pump and appurtenances. The sewer would be blocked until the desired sewage volume was contained to produce a flushing wave. The sewage would then be quickly released. The volume of sewage impounded during this procedure would be monitored by water elevation to prevent backups into service connections.

Since sewer flushing may be desirable, the relationship of pipe wall shear stress, flow, pipe size and pipe slope was investigated. The analysis assumed steady flow and that the Manning formula applied. Success has been reported in flushing sewers 12 to 15 inches in diameter by maintaining flows of 0.5 cfs for about two minutes to create a wave of celerity. This would indicate that a shear stress equal to 0.04 pounds per square foot could be sufficient for effective flushing. The relationship between shear stress, pipe diameter, flow and pipe slope is shown in Plates VII-6, VII-7 and VII-8. A flow of 0.5 cfs may not be successful in flushing larger sized pipe unless the pipe slope equalled 0.005 or more. At a flushing flow of 1.0 cfs, all pipe sizes up to seven feet with a slope of at least 0.003 might be flushed successfully. At a flushing flow of 1.5 cfs, all pipes up to seven feet diameter and a slope of 0.003 might be suitable candidates for flushing. For a given slope and flow, the shear stress is relatively constant. Hence, large pipes might be flushed successfully with relatively small quantities of water. This could offer aid in cleaning sewers of deposits after wet weather flows have been stored to permit routing combined sewage to treatment.

Costs of sewer flushing based on full-scale operating experience is not available. Estimates are based on automatic flushing equipment and should be verified by field demonstration.

7. Interceptor. Existing or new interceptor capacity upstream of the pumping station may also be used to provide CSO pollution abatement. Flow can be stored in the interceptor until treatment capacity becomes available. Costs and storage methods are the same as for in-pipe storage. Interceptor capacity equal to 10 percent of the peak flow from a design storm with a five-year return frequency might capture for treatment about 90 percent of the pollutants in CSO. However, this would require a peak ratio of about 20 times the DWF.

8. Street Sweeping. Street sweeping is the manual or mechanical cleaning conducted by municipal personnel. Mechanical sweeping is most common. Effectiveness is related to the sweeper efficiency, cleaning frequency, number of passes, equipment speed, pavement conditions, equipment type and public awareness. At present, street sweeping may well be 30 percent or less effective due to equipment limitations and parked cars blocking curbs. Street sweeping also can have high costs.

9. Catch Basin Maintenance. A catch basin is a chamber, usually built at the curbline of a street, which transfers stormwater from the street surface to a sewer or drain. At its base is a sump which retains sediment, grit, surface drainage and organics including leaves, grass, pet feces, etc., below the invert level of the existing outlet pipe. The volume of pollutant contained in the sump is small compared to the total amount available to mix with storm runoff. If not cleaned regularly, the catch basin may introduce pollutant rather than remove it. The catch basin sump may be filled with concrete to eliminate the need for cleaning.

10. Flow Source Control. The general classification of flow source controls covers all other non-structural alternatives. These include the use of rooftops, parking lots, etc., for the storage of rainfall, the use of porous pavement in streets and parking lots to reduce runoff quantities and other methods designed to capture or reduce the effect of surface runoff to upstream locations. These methods appear impractical in a highly developed area where new construction is not expected on a large enough scale to effect significant results.

C. Feasible Alternatives

Because sewer flushing coupled with in-line and/or off-line storage can provide a substantial degree of CSO pollution abatement, the City's sewer system has been analyzed to determine locations where:

1. sewer flushing would be beneficial in limiting dry weather deposits;

2. sewers could be used to provide in-line storage to store flows for diversion to treatment after the rainfall subsides, and

3. locations are available to provide storage tanks.

Sewer flushing stations are defined in Table VII-1; in-line (pipe) storage locations in Table VII-2 and storage tank locations in Table VII-3. Plates VII-9 through VII-28 show the locations of the various tanks. Their construction and operating and maintenance costs were estimated on the basis shown in Chapter IX.

D. Effects of Individual Alternatives

Table VII-4 and VII-5 present the effects of various individual options available for CSO pollution abatement for areas draining to the Westerly and Easterly Interceptors, respectively. The effectiveness of the individual options are described briefly here following.

Area NNW. Upstream storage tanks (above elements 216 and 715) are relatively high in cost per unit of pollutant removed as is the swirl separator. However, these upstream storage tanks would relieve the flooding of streets and cellars with combined sewage. A down-

TABLE VII-1

POTENTIAL SEWER FLUSHING STATIONS

Drainage Area	Location	Sewer Junction
NNW	Elmora & Murray	711
NNW	Grove @ Pennington	717
NNW	Orchard @ Chilton	720
NNW	Orchard @ Morris	723
NNE	North Broad @ Waverly	827
NNE	Newark @ Clinton	830
NNE	Pingry @ Salem	836
NNE	Union @ Oakwood	839
NCE	Jefferson @ Mary	851
NCE	Jefferson @ Chestnut	858
CCN	Catherine, West of CRR N.J.	185
CCN	Reid @ East Grand	201
CCN	Reid @ East Jersey	307
CCS	First @ Sixth	971
CCS	Third @ Niles	974
CCS	Fourth @ Palmer	979
WW	South Elmora @ Lidgerwood	19
WW	Summer @ South Broad	231
NEN	Fanny & Madison	807
NEN	North @ Adams	812
NEN	Van Buren bet. North & Fanny	821
NES	Fairmont @ Henry	321
SE	Livingston @ Sixth	133
SE	Trumbull bet. Sixth & Schiller	901
SSE	Second @ Magnolia	925
SSE	First @ Broadway	935
SSE	Front @ Fulton	955
SSW	Third @ Zamorski	962
SSW	Third @ Geneva	966
SSW	Third @ Loomis	991

TABLE VII-2

POTENTIAL IN-LINE STORAGE LOCATIONS

Area	Module Location	Sewer Junction or Element	Volume (mg)
NNW	Morris Ave. & Union	842	0.79
NNW	South of Sayre St. @ Elizabeth River	182	0.23
NNW	Westfield Ave. @ Elizabeth River	160	1.36
NNE	Morris Ave. @ Union	842	0.26
NNE	North Broad & Newark	833	0.11
NNE	Union & Prince	350	2.05
NCE	Jefferson @ East Jersey	860	0.12
NCE	Elizabeth Ave. @ Scott	660	0.46
CCN	South @ South Spring	225	0.14
WW	Summer @ Bayway Circle	83	0.08
WW	Summer @ Clarkson	760	0.26
NEN	North @ Adams	812	0.20
	Dowd near Alina	820	0.24
NEN	Madison @ Alina	377	0.36
NEN	Jackson @ Alina	401	0.23
NEN	Dowd near Alina	481	0.14
NES	Division near Dowd	27	0.65
SSE	Front St., East of Elizabeth Ave.	960	0.08
SSE	Broadway, South of Front St.	869	0.62
SSW	Third Ave., North of S. Front St.	970	0.21

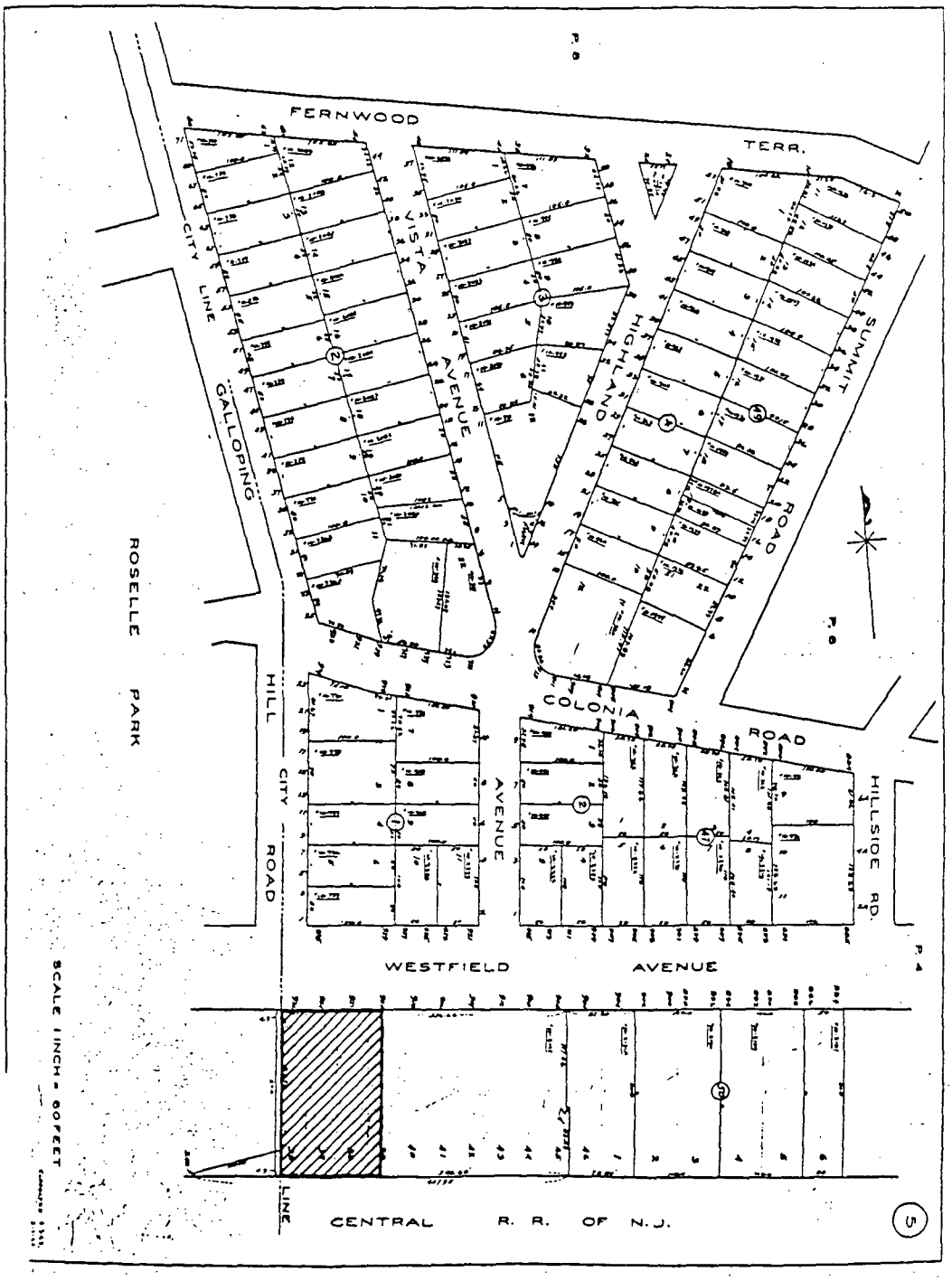
TABLE VII-3

POTENTIAL STORAGE TANK LOCATIONS

Area	Location	Max. Storage Volume (mg) Considered
NNW	Westfield Ave., opp. Galloping Hill Rd.	3.50
NNW	Crane St. @ Union St.	3.27
NNE	Union Ave. @ Prince St.	1.64
NNE	Union Ave., bet. Morris & Prince	1.64
NCE	Scott Park	1.06
NCW	Pearl St. & South Broad	2.18
CCN	Fourth Ave., bet. South & Center Sts.	2.53
CCS	Fourth Ave., bet. Seventh & John	0.87
WW	Clarkson Ave., bet. Summer & Garden	3.98
NEN	Kellogg Park	1.86
NES	Dowd Ave. & Progress St.	0.89
SE	Trumbull @ First St.	4.44
SSE	Elizabeth Ave. @ South Front St.	1.69
SSW	Third Ave. @ South First St.	1.19
NNW	Baker Pl., bet. Springfield Rd. & Elmora Ave.	1.27
NNW	Carteret Park	1.67
NCW	Caldwell Park	1.75
CCN	Catherine St. bet. East Grand @ CRR N.J.	1.24
SSW	Southwest of Butler & Second	0.96
SE	Trumbull St. & CRR N.J. - Perth Amboy Branch	1.17
SE	Broadway & Seventh St.	2.14
SE	Seventh St., bet. Parkway & CRR N.J.	1.48

CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



TRIBUTARY AREA NNW

CLINTON BOGERT ASSOCIATES

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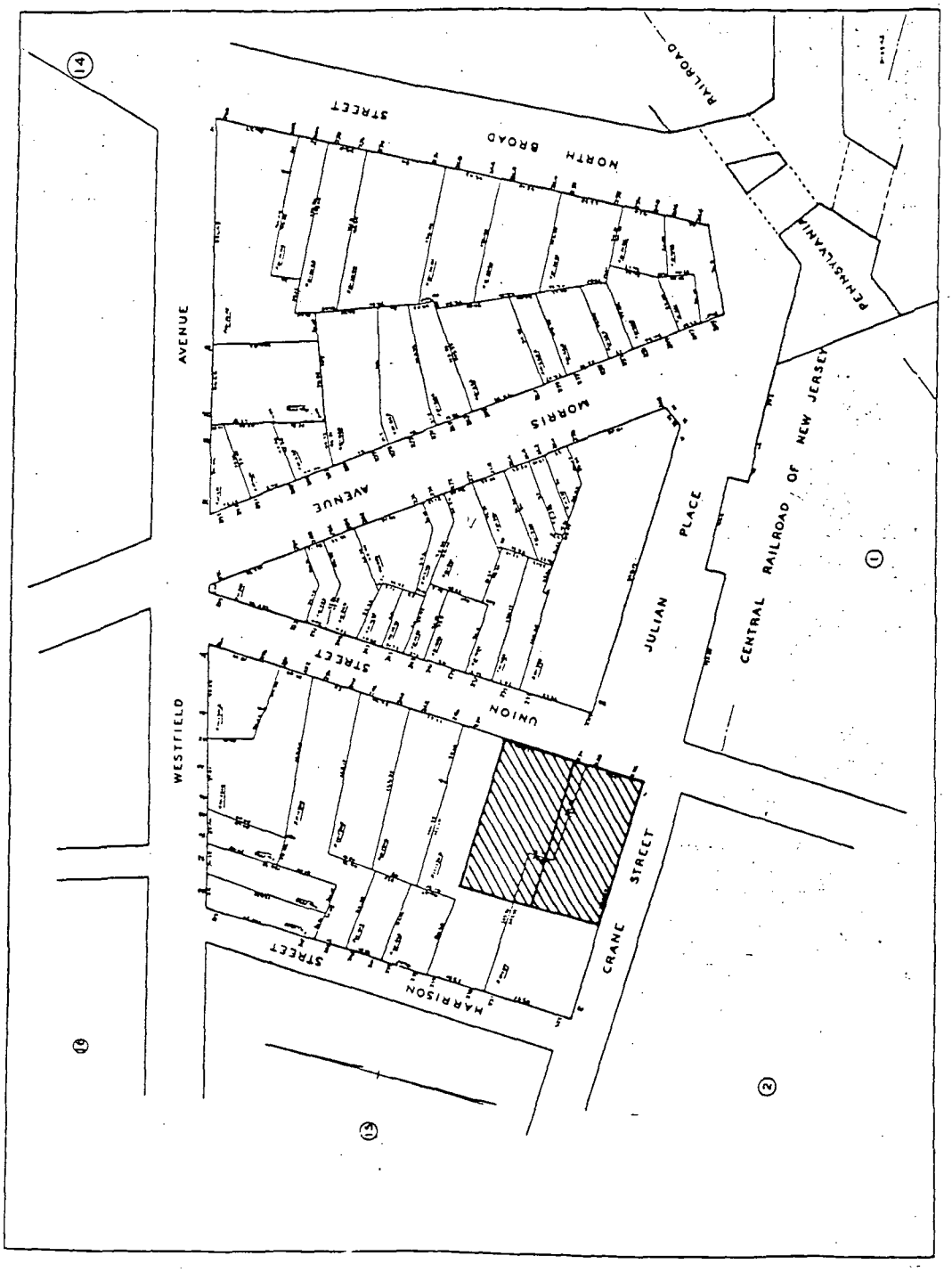
COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



TRIBUTARY AREA NNW

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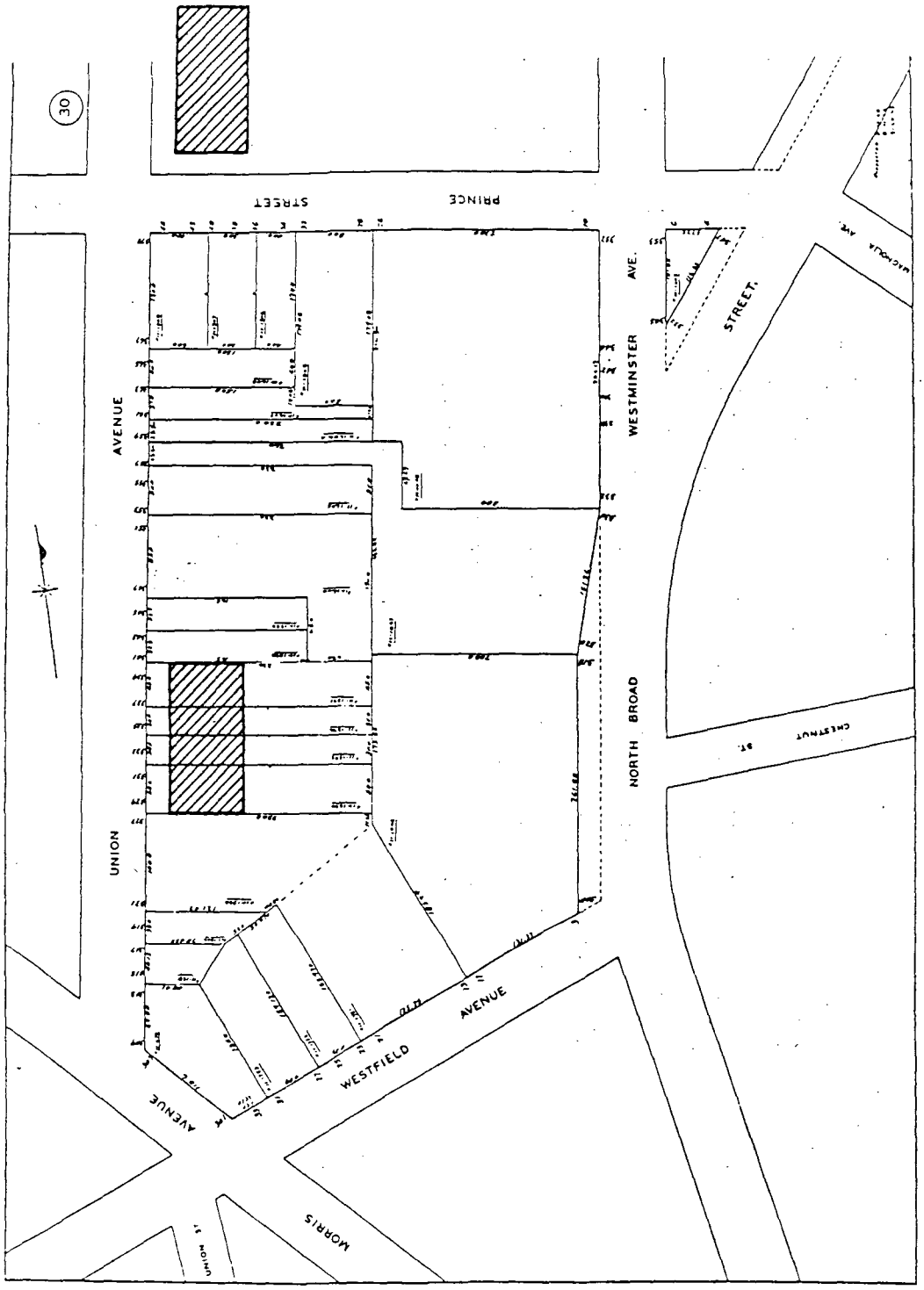
COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



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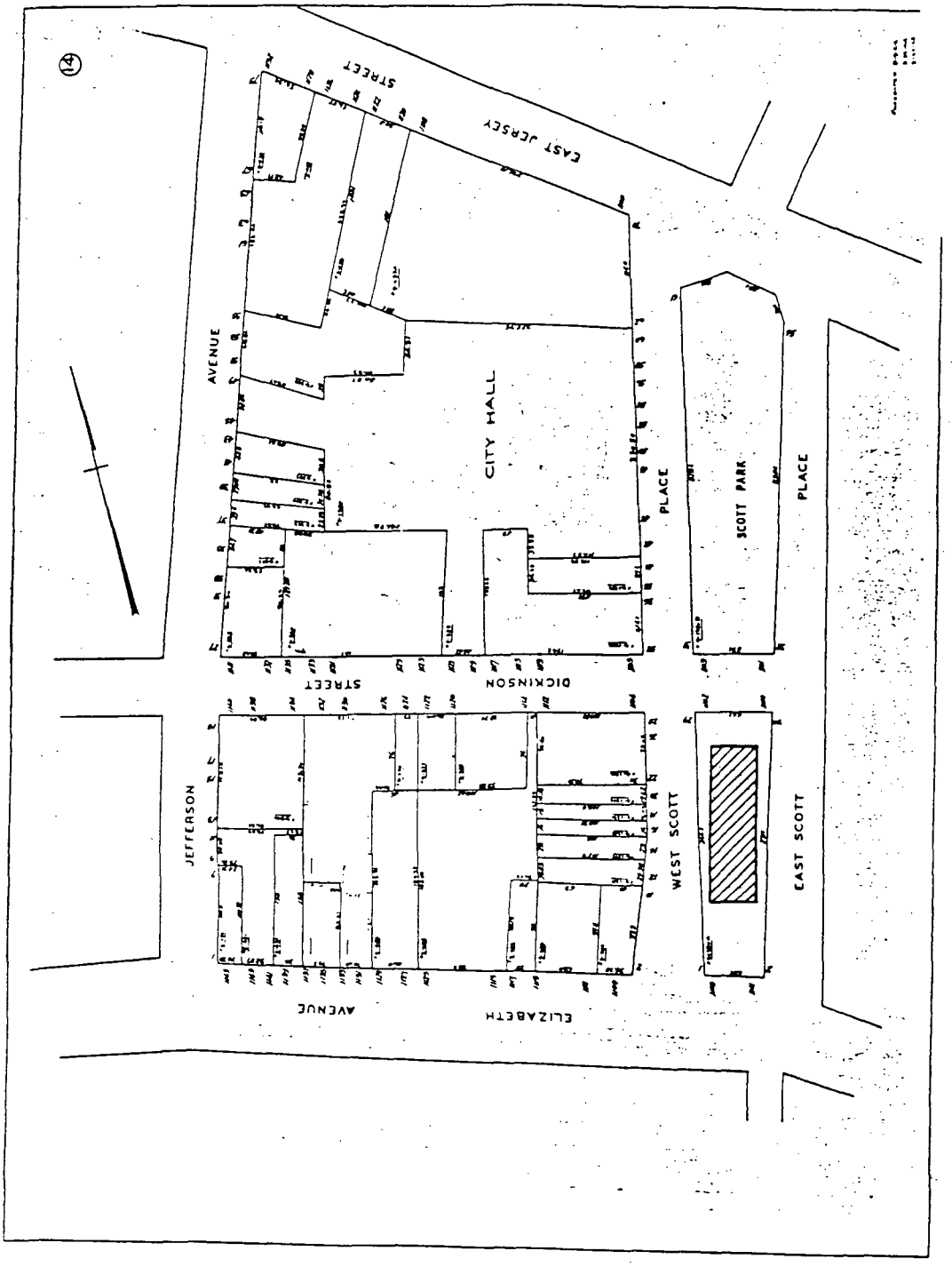
CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



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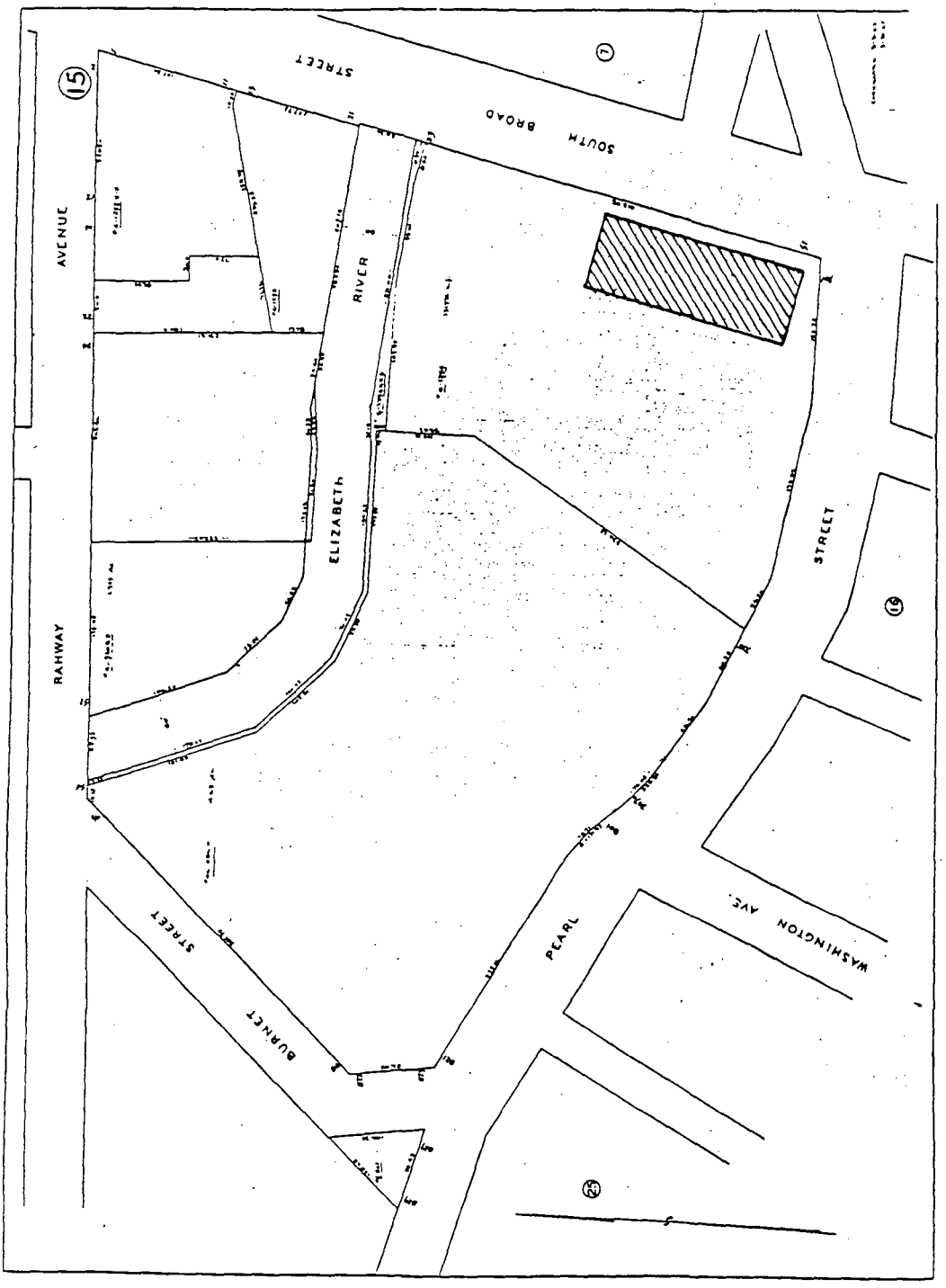

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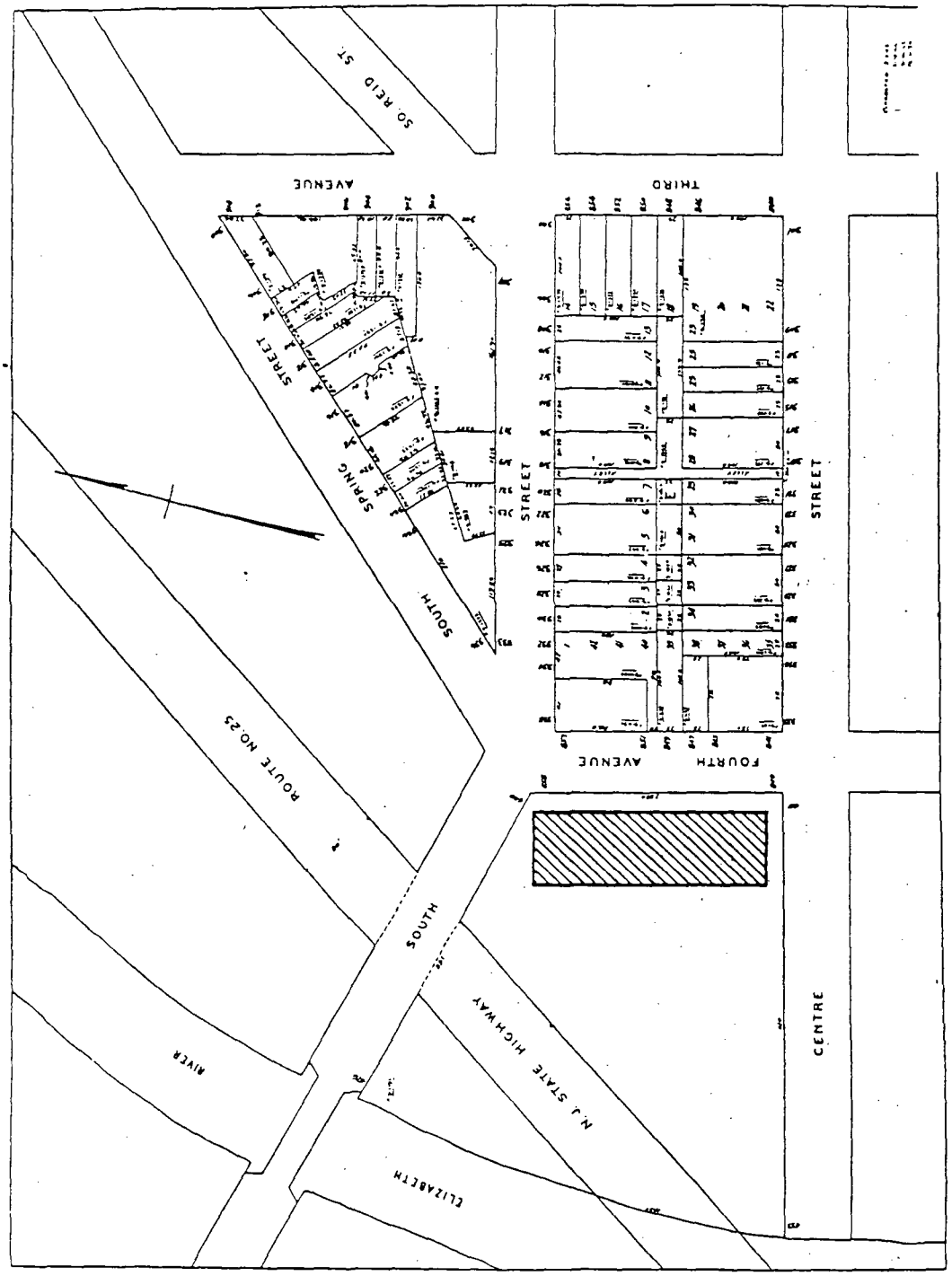
CITY OF ELIZABETH, NEW JERSEY
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



TRIBUTARY AREA CCN

CLINTON BOGERT ASSOCIATES

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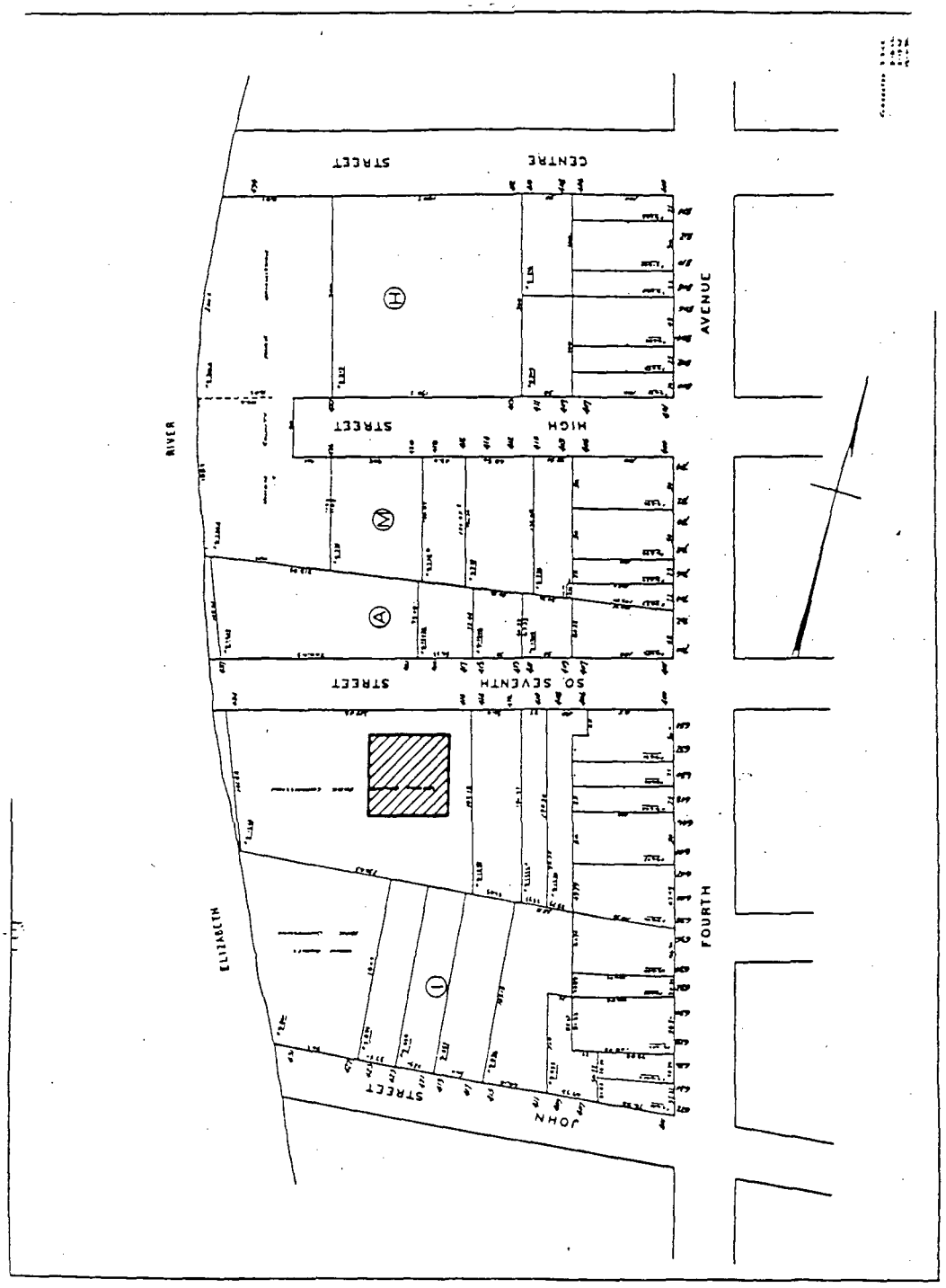
PLATE VII-14

CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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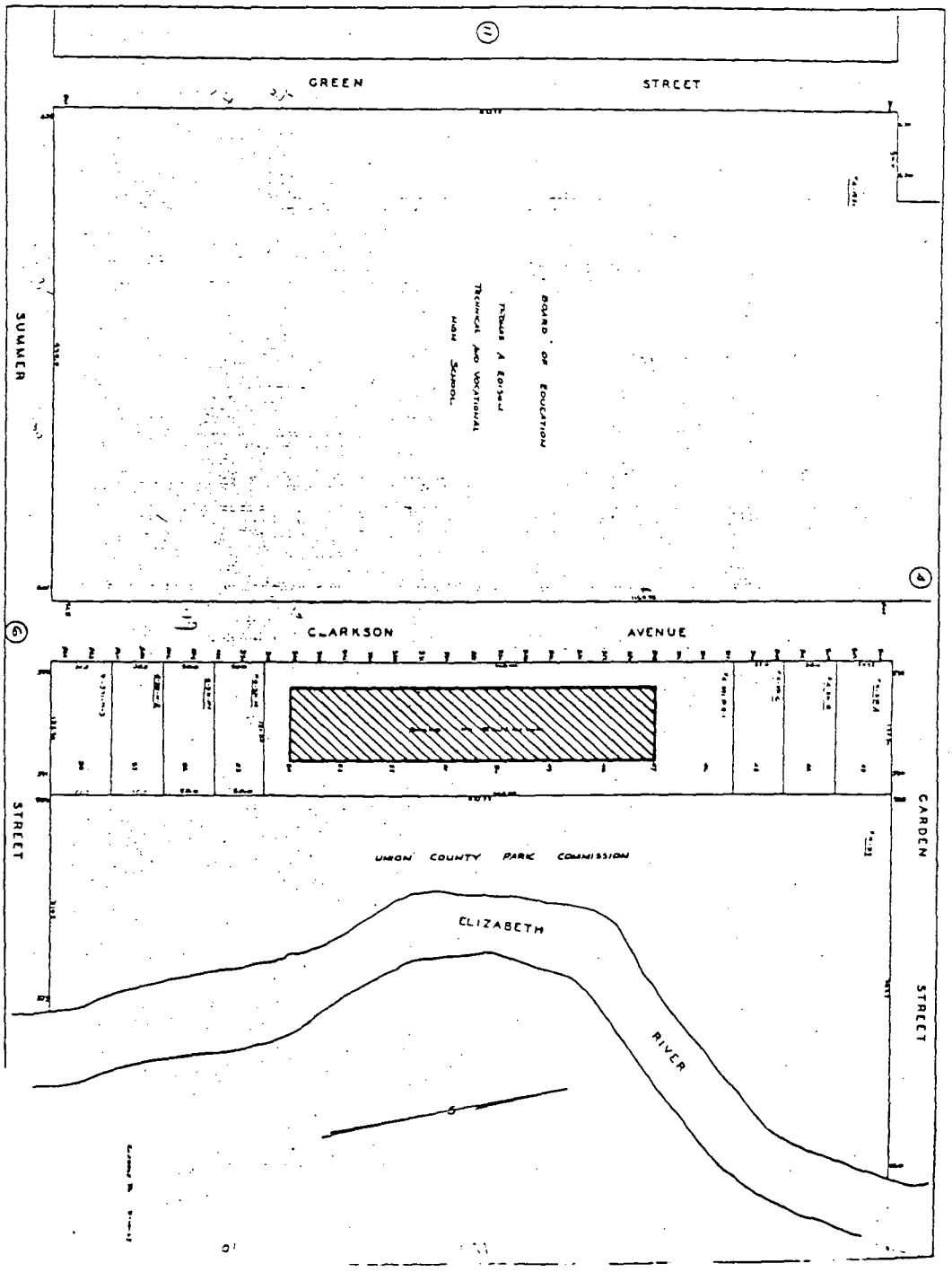
CITY OF ELIZABETH, NEW JERSEY

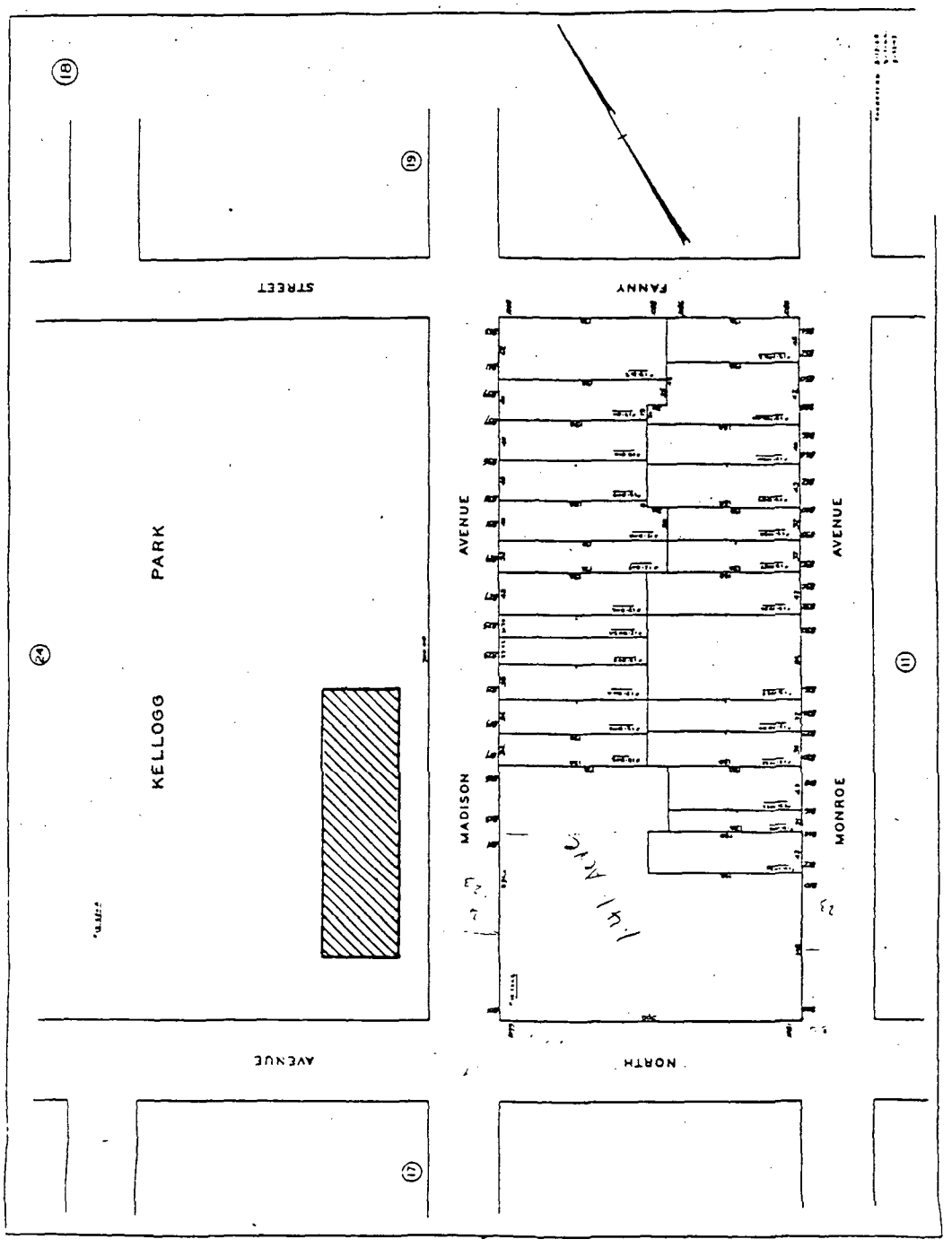
COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



TRIBUTARY AREA WW

CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



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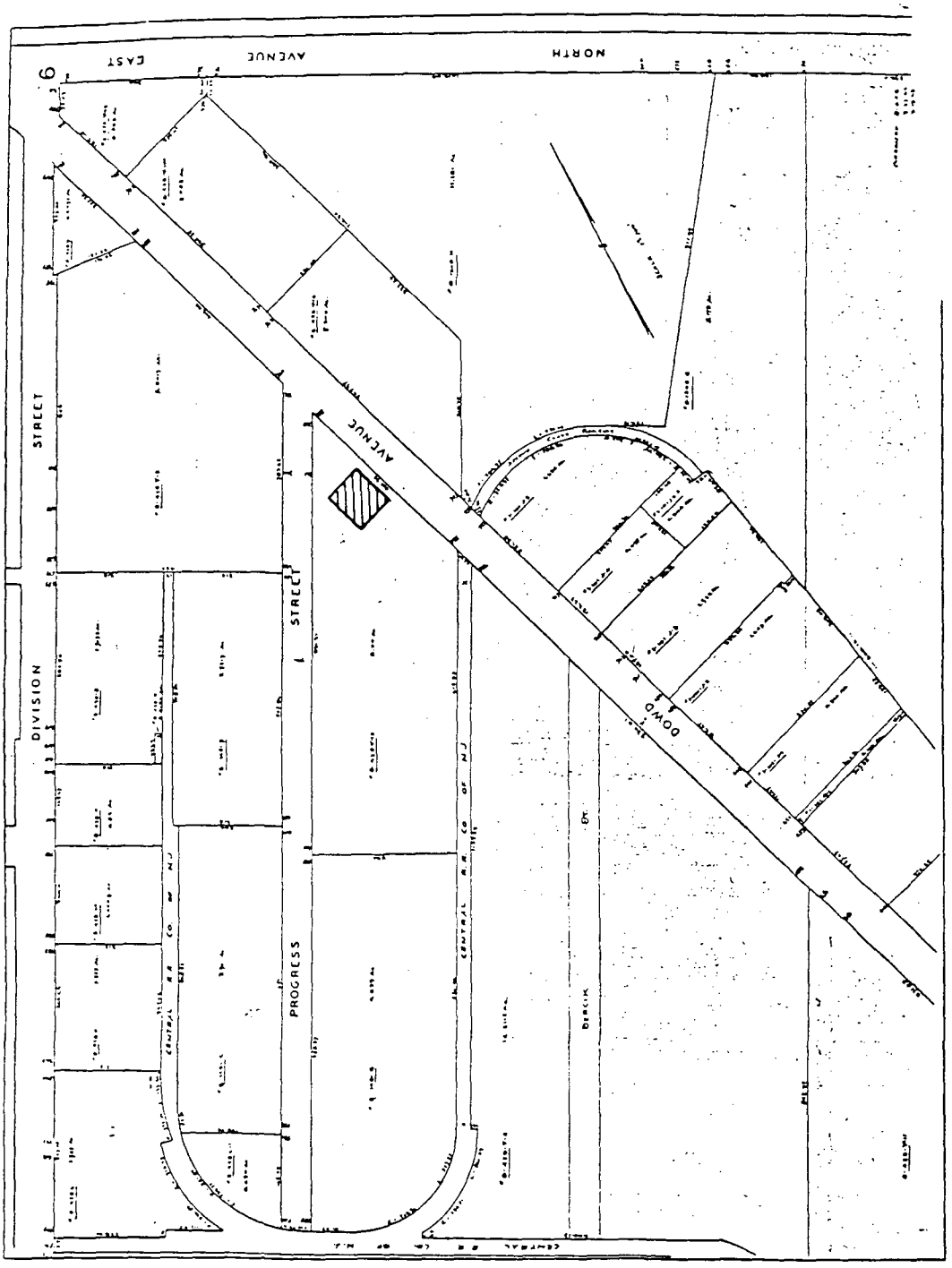
CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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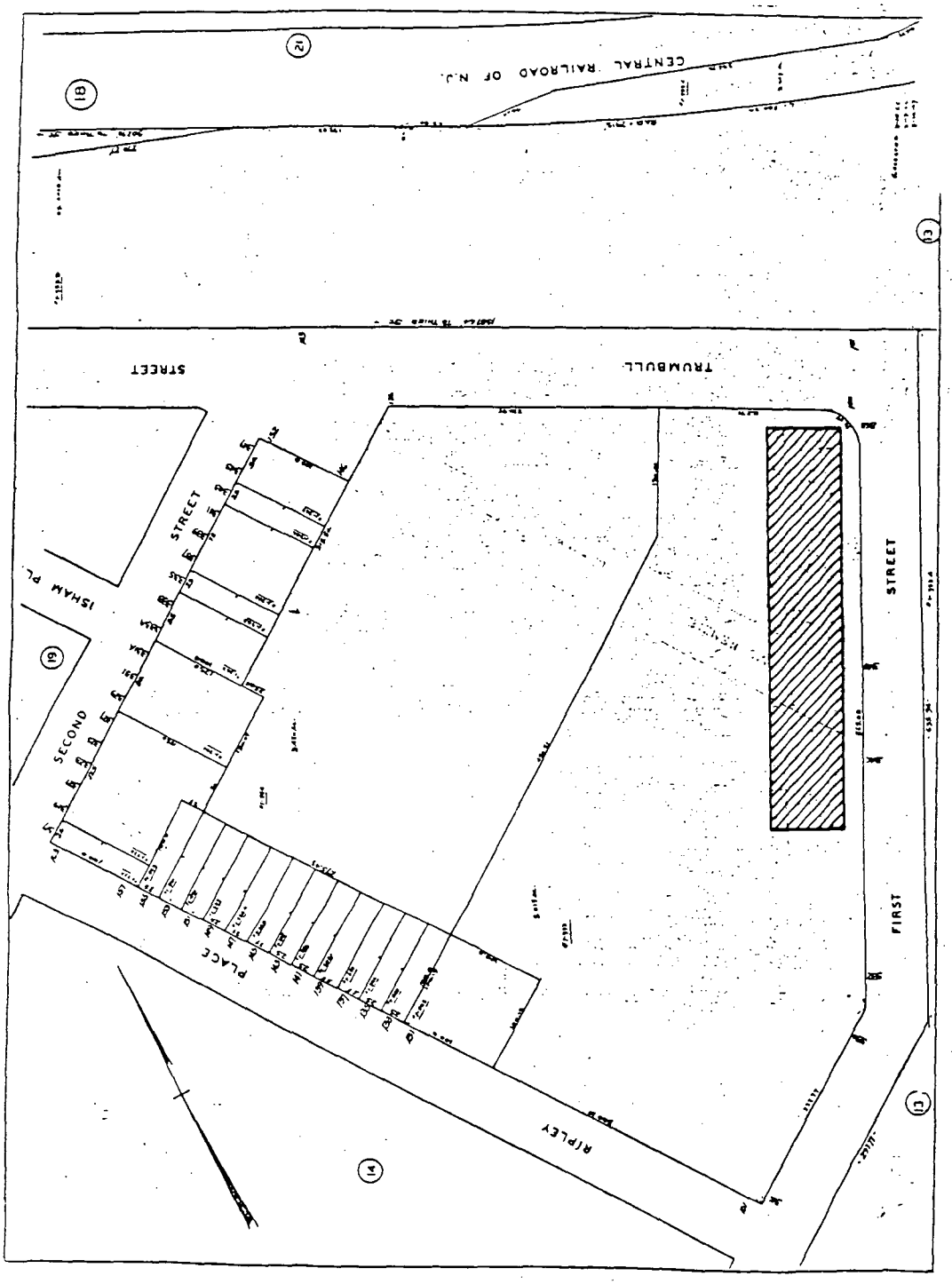
CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



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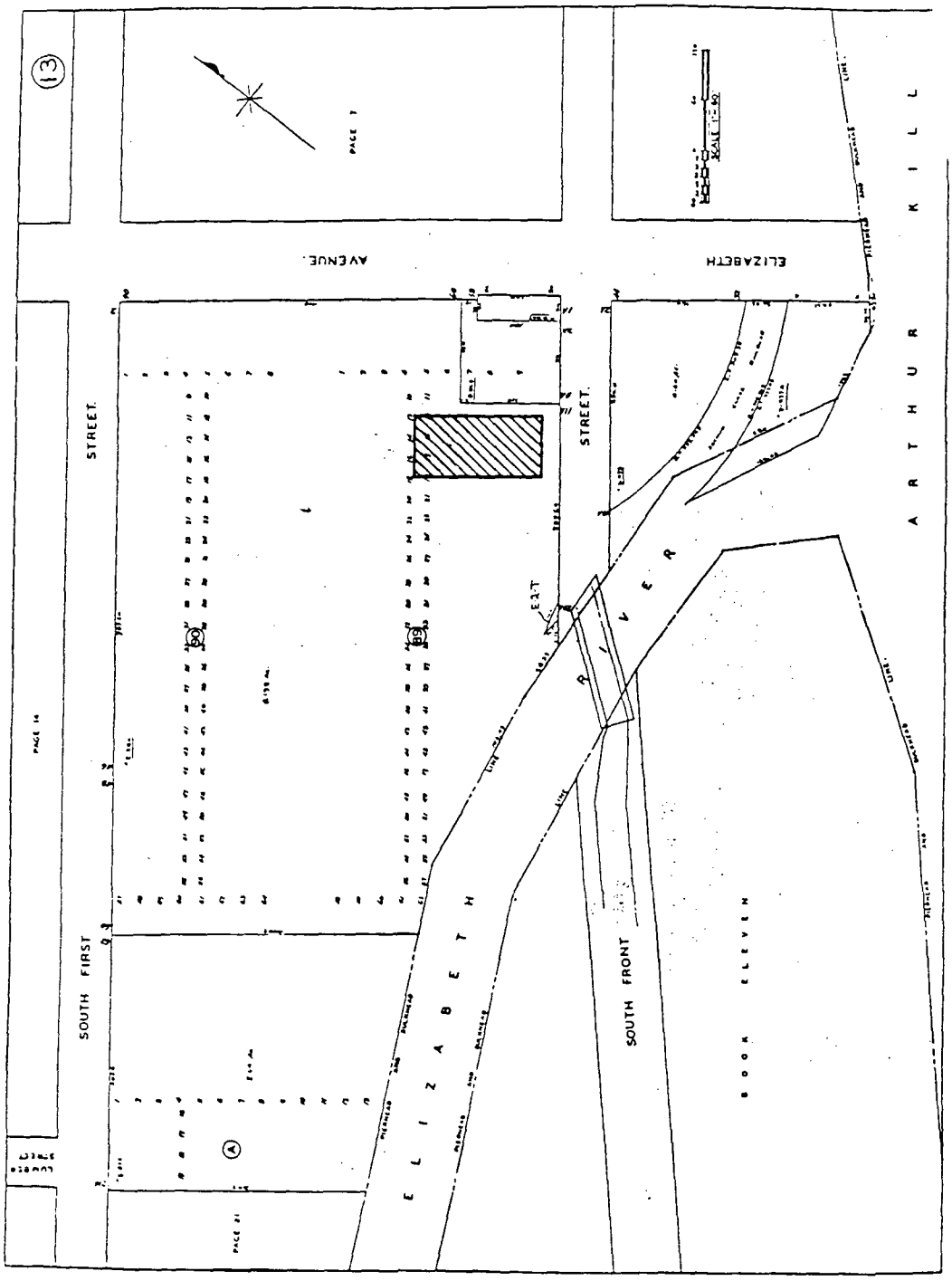
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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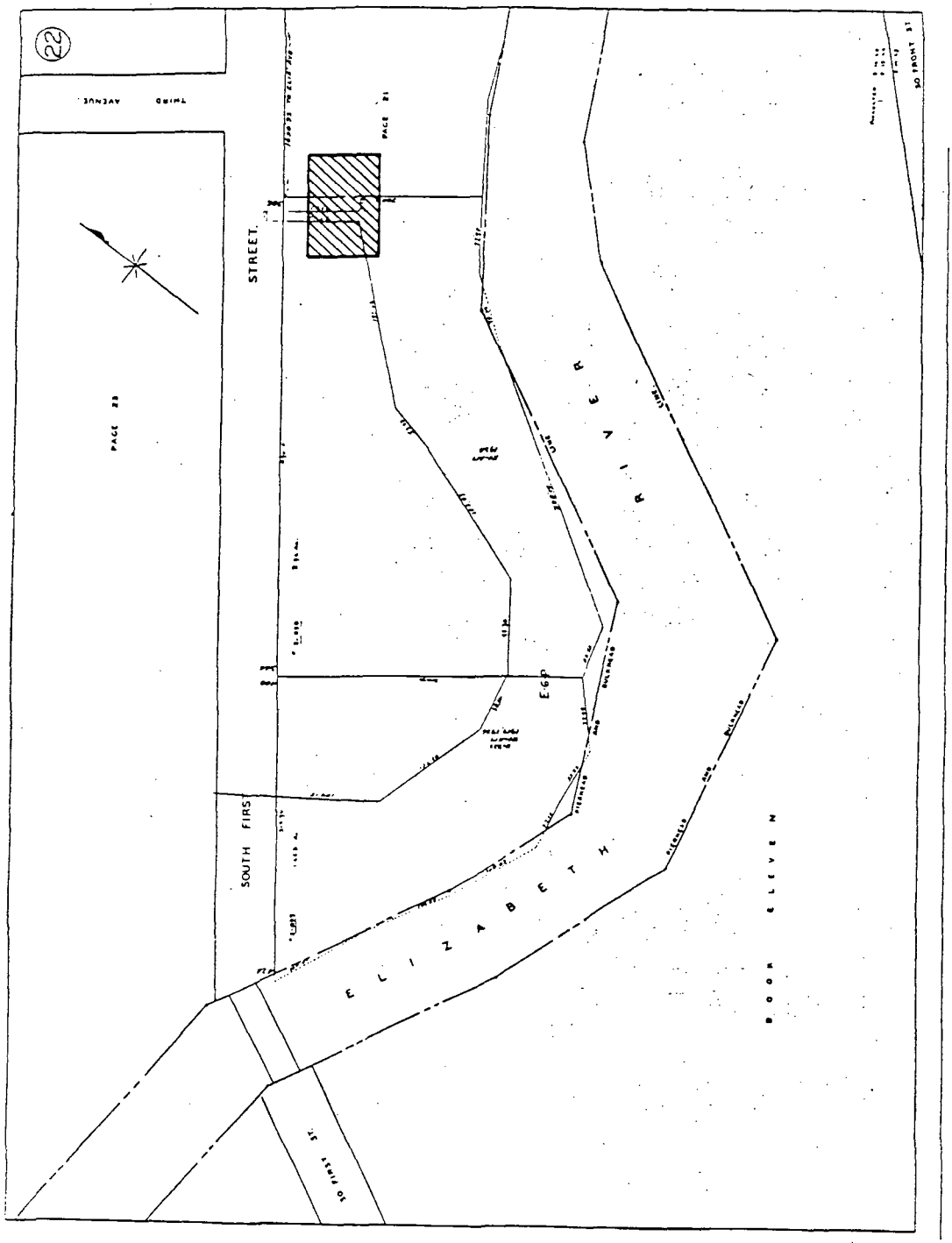
CITY OF ELIZABETH, NEW JERSEY
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



TRIBUTARY AREA SSW

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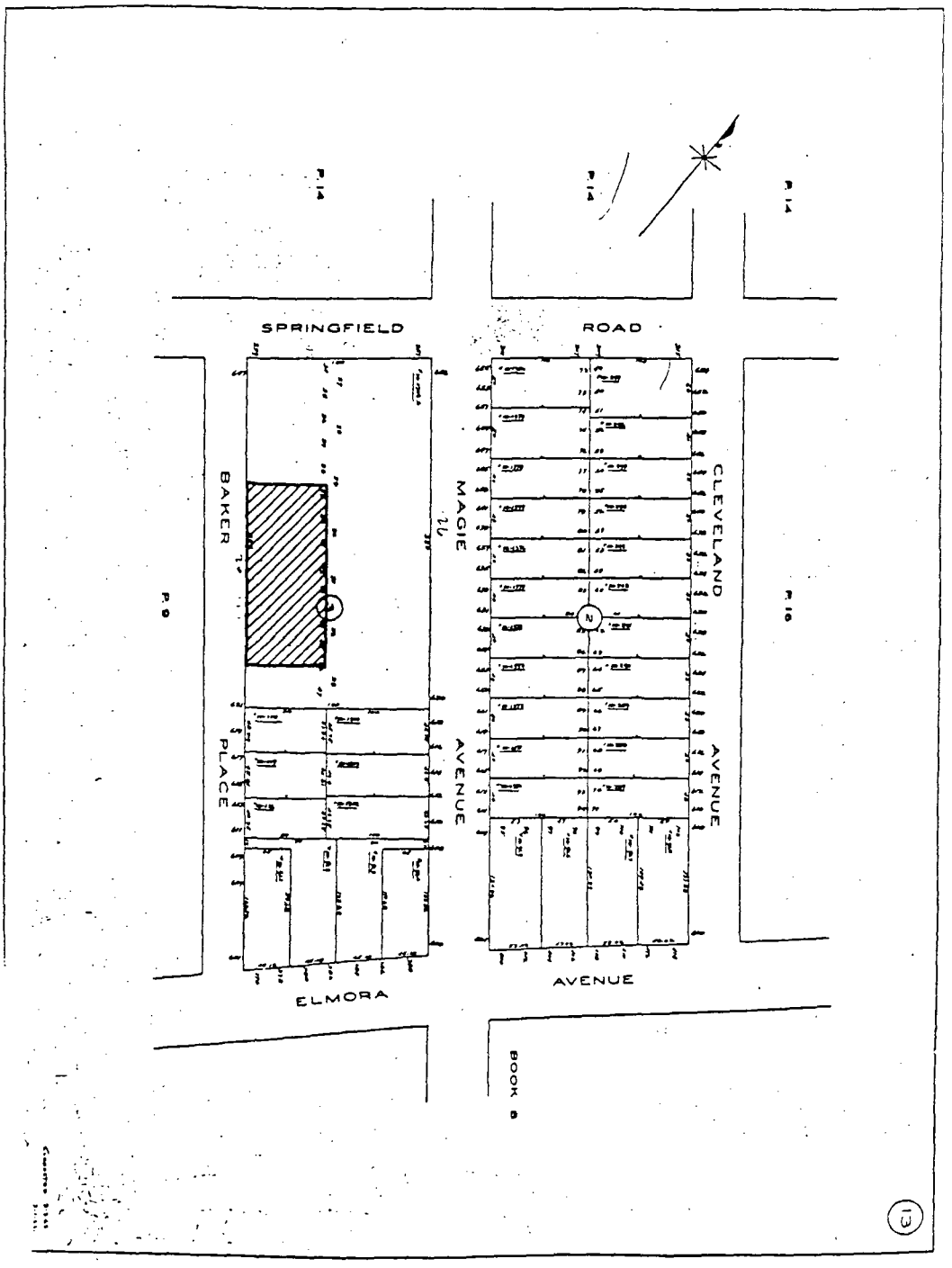
CITY OF ELIZABETH, NEW JERSEY
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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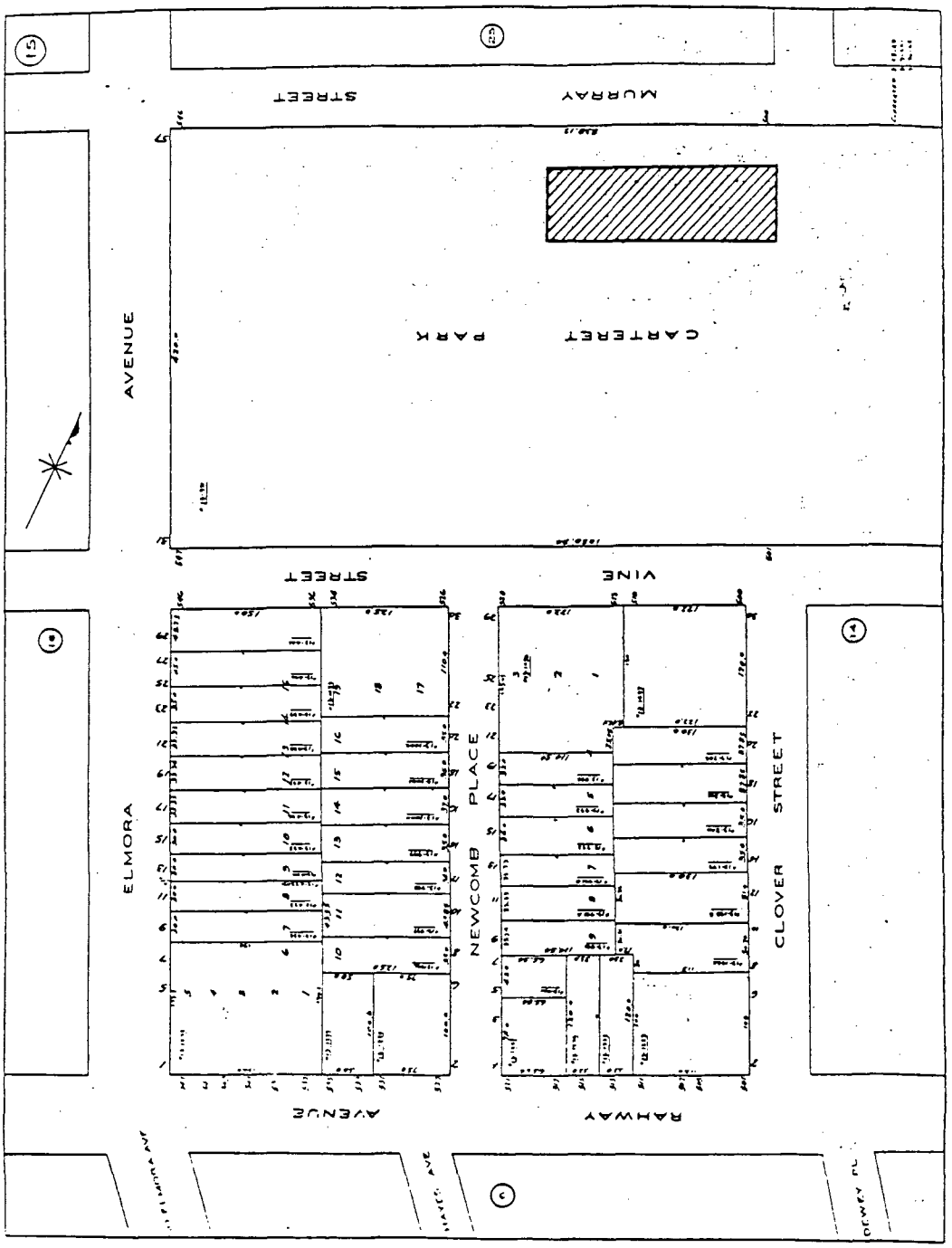
CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



TRIBUTARY AREA NNW

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COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN

TRIBUTARY AREA NCW

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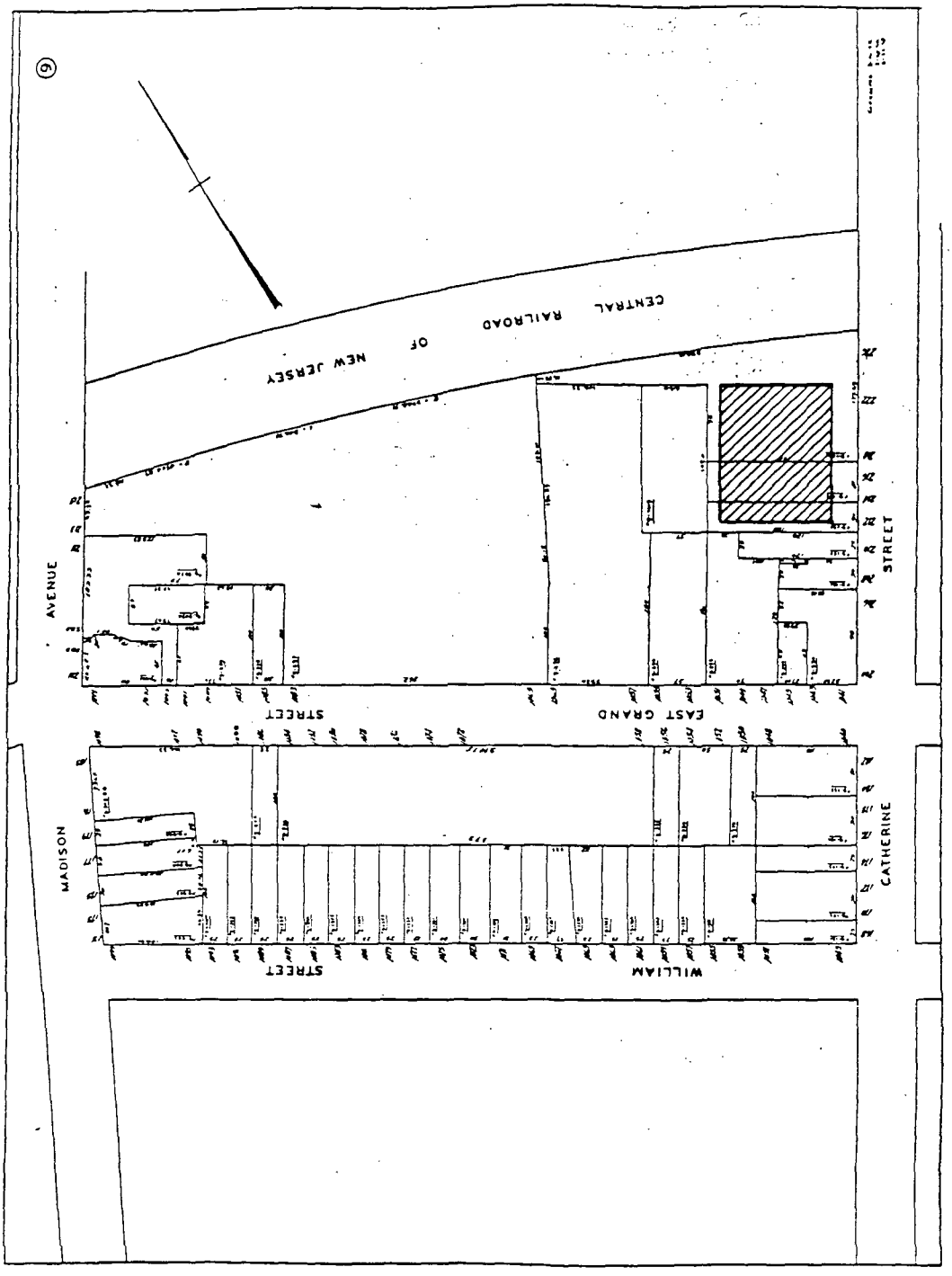
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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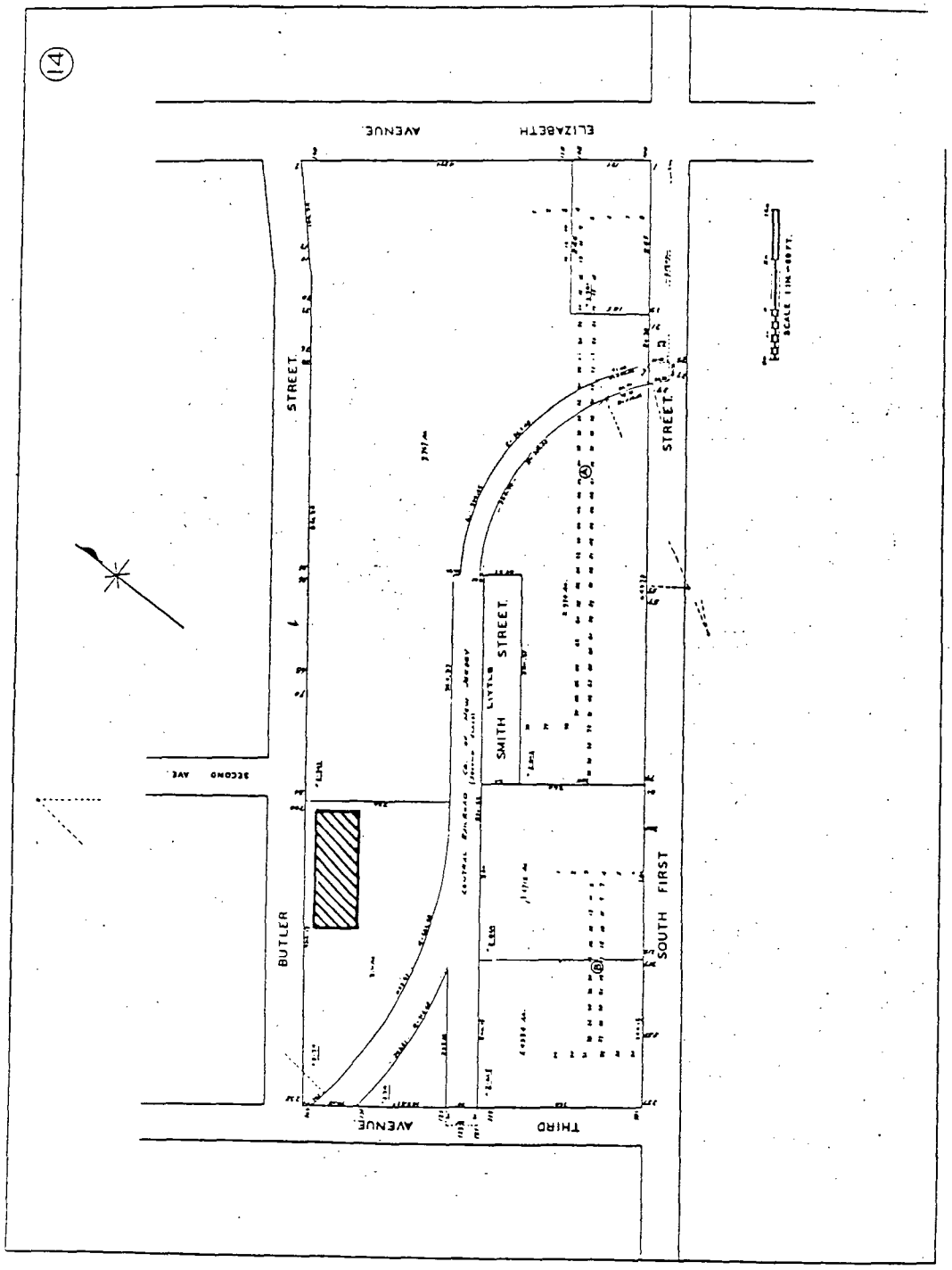
COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



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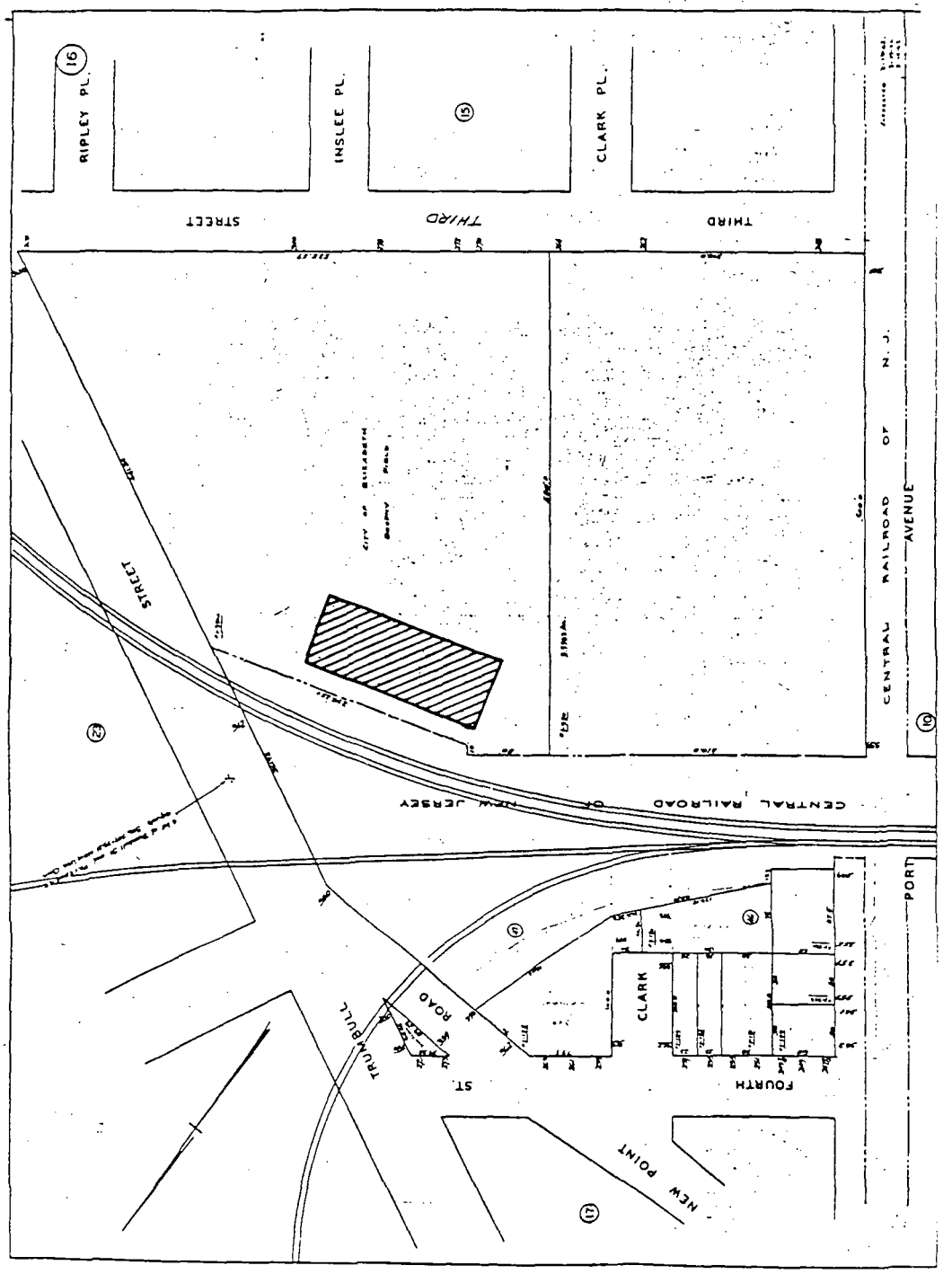

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CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN

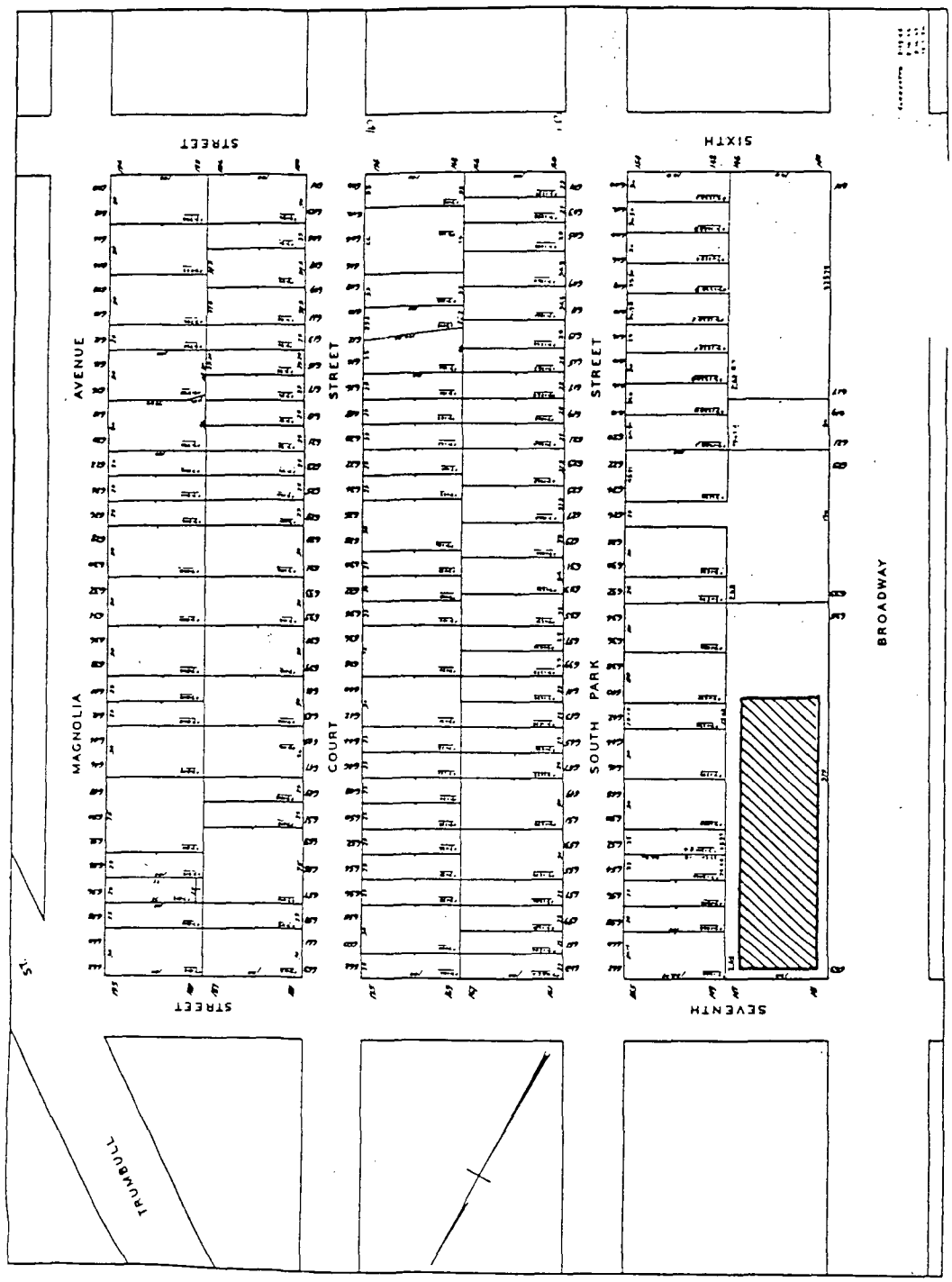

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TABLE VII-4
Westerly Interceptor
Effect of Individual Alternatives

********* AREA NNW IN THE CITY OF ELIZABETH-CS AREA

AREA= 692.800 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 966600.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 178796. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 156.68 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.72 MGAL STO. ABOVE 216	215503.	32208.	27.43	2759825.	356701.	136314.	3252840.	9.44
1	3	1.34 MGAL STO. ABOVE 216	256708.	39636.	36.86	3218885.	370735.	167986.	3757605.	8.86
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.72 MGAL STO. ABOVE 715	223515.	42416.	24.77	2650525.	518093.	139904.	3308522.	7.29
2	3	1.34 MGAL STO. ABOVE 715	260190.	50848.	32.41	3306325.	529788.	167782.	4003895.	7.36
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	SEWER FLUSH.AT 711,717,720,723	100358.	43368.	0.00	385829.	229224.	57356.	672409.	1.45
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	0.79 MGAL INLINE STO. AT 842	411975.	67736.	39.57	167229.	49821.	246782.	463833.	.64
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	1.34MGAL OFFLINE TANK	556669.	92434.	58.48	2356508.	295886.	339964.	2992358.	3.03
5	3	2.69MGAL OFFLINE TANK	751326.	128719.	90.23	2857102.	312259.	474166.	3643527.	2.65
5	4	3.27MGAL OFFLINE TANK	796250.	138000.	99.00	3832058.	325124.	507230.	4664412.	3.16
6	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
6	2	SWIRL SEPARATOR	483300.	89398.	0.00	4826688.	3461750.	235499.	8523937.	8.91

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TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA NNW IN THE CITY OF ELIZABETH - SS AREA

AREA= 196.400 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 459220.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 63182. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 78.97 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	.23 MG INLINE STO.(SAYRE ST.)	77900.	9476.	11.27	362876.	72510.	50211.	485597.	4.79
1	3	1.36MG INLINE STO.(WESTFLD AV)	224096.	30377.	33.03	465618.	70171.	146260.	682048.	2.10
1	4	SAYRE ST. + WESTFIELD AVE.	301996.	39873.	44.30	828494.	142680.	196478.	1167652.	2.74

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TABLE VII-4
Westerly Interceptor
Effect of Individual Alternatives

continued

********* AREA NNE IN THE CITY OF ELIZABETH - CS AREA

AREA= 249.400 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 284439.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 51434. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 53.76 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSH. AT 836,839	18248.	8208.	0.00	172694.	109934.	10539.	293167.	3.34
1	3	SEWER FLUSH.AT 827,830,836,839	20048.	8797.	0.00	345388.	219868.	11503.	576759.	6.13
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.26 MGAL INLINE STO. AT 842	103736.	17253.	11.78	67766.	20349.	64453.	152568.	.83
2	3	0.37 MG INLINE STO. AT 842,833	130526.	21634.	15.51	191275.	90520.	81923.	363718.	1.57
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	1.09 MGAL OFFLINE TANK	221378.	37440.	31.21	2219883.	291208.	145264.	2656355.	6.63
3	3	2.18 MGAL OFFLINE TANK	258603.	47088.	40.77	4232096.	574229.	176164.	4982489.	9.89
3	4	3.27 MGAL OFFLINE TANK	275786.	49797.	45.58	5167704.	596450.	190324.	5954478.	11.18
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	SWIRL SEPARATOR	142220.	25717.	0.00	1160766.	1052559.	69099.	2282424.	8.29

958870387

TABLE VII-4
Westerly Interceptor
Effect of Individual Alternatives

continued

********* AREA NNE IN THE CITY OF ELIZABETH - SS AREA

AREA= 170.900 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 229919.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 31633. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 64.31 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	2.05 MGAL INLINE STO. AT 350	170347.	22985.	38.29	650335.	74849.	127442.	852626.	3.47

958870388

TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA NC-E IN THE CITY OF ELIZABETH - CS AREA

AREA= 135.000 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 152629.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 26362. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 24.59 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSH. AT 851,858	7931.	3672.	0.00	172694.	109934.	4616.	287244.	7.31
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.12 MGAL INLINE STO. AT 860	42756.	7903.	4.58	170508.	70171.	26495.	267173.	3.16
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.53 MGAL OFFLINE TANK	105493.	18897.	13.27	1402319.	276004.	67601.	1745924.	8.63
3	3	1.06 MGAL OFFLINE TANK	140284.	24076.	18.11	1910564.	291208.	90110.	2291882.	8.90
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	SWIRL SEPARATOR	76315.	13181.	0.00	555244.	549670.	36867.	1141781.	8.10

958870389

TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA NC-E IN THE CITY OF ELIZABETH - SS AREA

AREA= 159.200 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 373964.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 51452. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 61.51 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.46 MGAL INLINE STO. AT 660	219925.	26252.	24.29	475455.	70171.	132278.	677904.	2.41

958870390

TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA NC-W IN THE CITY OF ELIZABETH - CS AREA

AREA= 178.600 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 283574.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 57066. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 46.79 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.36 MGAL OFFLINE TANK	115616.	16304.	13.84	2489854.	697028.	71674.	3258556.	18.68
1	3	0.73 MGAL OFFLINE TANK	192502.	28723.	24.85	2966402.	712232.	122179.	3800813.	12.37
1	4	1.46 MGAL OFFLINE TANK	230746.	35423.	33.70	3507437.	725096.	151629.	4384162.	11.57
1	5	2.18 MGAL OFFLINE TANK	241854.	37913.	37.79	3817849.	733283.	162247.	4713379.	11.62
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	SWIRL SEPARATOR	141787.	28533.	0.00	2980611.	1637314.	69875.	4687800.	15.35

958870391

TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA CC-N IN THE CITY OF ELIZABETH CS AREA

AREA= 161.000 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 294462.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 50066. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 37.77 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSH. AT 185,201,307	77022.	18610.	0.00	259041.	164901.	39018.	462960.	2.32
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.60 MGAL STO. ABOVE 201	130259.	22284.	11.00	2294207.	477160.	76455.	2847822.	11.94
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.14 MGAL INLINE STO. AT 225	74656.	11959.	5.25	234995.	70171.	42238.	347404.	2.71
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	0.84 MGAL OFFLINE TANK	193803.	31506.	15.88	1987074.	286530.	112589.	2386193.	7.08
4	3	1.68 MGAL OFFLINE TANK	227951.	37044.	20.30	2518272.	299395.	134428.	2952095.	7.45
4	4	2.53 MGAL OFFLINE TANK	234188.	38850.	22.36	2804638.	309920.	140236.	3254795.	7.83
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	SWIRL SEPARATOR	147231.	25033.	0.00	2277812.	2011557.	70992.	4360361.	16.28

958870392

TABLE VII-4
Westerly Interceptor
Effect of Individual Alternatives

continued

********* AREA CC-S IN THE CITY OF ELIZABETH - CS AREA

AREA= 115.200 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 250262.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 46804. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 30.68 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSHING AT 974	26926.	12152.	0.00	86347.	54967.	15565.	156879.	1.21
1	3	SEWER FLUSHING AT 971,974	31187.	13538.	0.00	172694.	109934.	17845.	300473.	2.07
1	4	SEWER FLUSH.AT 971,974,979	32579.	13967.	0.00	241553.	160223.	18581.	420357.	2.81
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.44 MGAL OFFLINE TANK	172535.	28997.	15.19	1472271.	274835.	101858.	1848964.	5.96
2	3	0.87 MGAL OFFLINE TANK	208605.	36171.	20.78	1937889.	288869.	126517.	2353275.	6.08
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	SWIRL SEPARATOR	125131.	23402.	0.00	1064582.	947303.	61060.	2072945.	8.28

958870393

TABLE VII-4
Westerly Interceptor
Effect of Individual Alternatives

continued

********* AREA WW IN THE CITY OF ELIZABETH - CS AREA

AREA= 244.300 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 487521.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 100356. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 60.16 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.08 MGAL INLINE STO. AT 83	97153.	19412.	4.94	234995.	70171.	53939.	359105.	1.73
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	SEWER FLUSH. AT 19,231	82529.	35660.	0.00	193461.	114612.	47165.	355238.	.93
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	1.00 MGAL OFFLINE TANK	331714.	66071.	31.48	2184907.	292378.	202163.	2679448.	3.79
3	3	2.00 MGAL OFFLINE TANK	394390.	80823.	42.49	2715012.	305242.	247393.	3267647.	3.78
3	4	3.00 MGAL OFFLINE TANK	412644.	86384.	47.57	3000285.	318107.	263313.	3581705.	3.88
3	5	3.98 MGAL OFFLINE TANK	418954.	88342.	49.99	3271349.	329802.	269650.	3870800.	4.09
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	SWIRL SEPARATOR	243761.	50178.	0.00	1656988.	1637314.	120512.	3414814.	6.36

958870394

TABLE VII-4 continued

Westerly Interceptor

Effect of Individual Alternatives

********* AREA WW IN THE CITY OF ELIZABETH - SS AREA

AREA= 159.600 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 364616.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 50165. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 57.15 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.25 MGAL INLINE STO. AT 760	99925.	12280.	11.95	237181.	70171.	61351.	368703.	2.81

958870395

TABLE VII-5
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA NE-N IN THE CITY OF ELIZABETH - CS AREA

AREA= 251.300 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 447514.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 91003. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 71.64 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSH. AT 807,812,821	99965.	43700.	0.00	279808.	169579.	57302.	506689.	1.08
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	1.00 MGAL STO. ABOVE 812	230354.	43294.	32.02	2835242.	610484.	152068.	3597794.	7.77
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.44 MG INLINE STO. AT 812,820	220731.	39350.	22.98	469990.	140341.	135465.	745796.	1.77
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	0.05 MGAL STO. IN INTERCEPTOR	23168.	6451.	3.69	0.	0.	16590.	16590.	.24
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	SWIRL SEPARATOR	223757.	45502.	0.00	1060210.	941456.	110432.	2112098.	4.34

958870396

TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA NE-N IN THE CITY OF ELIZABETH - SS AREA

AREA= 223.900 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 424171.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 58359. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 79.63 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.36 MGAL INLINE STO. AT 377	93445.	11984.	13.37	243739.	70171.	60257.	374167.	2.92
1	3	0.59 MG INLINE STO.AT 377,401	183684.	22925.	25.76	471083.	140341.	117587.	729011.	2.97
1	4	.73MG INLINE ST.AT 377,401,481	254012.	31250.	34.05	758542.	210512.	160510.	1129563.	3.38

958870397

TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA NE-5 IN THE CITY OF ELIZABETH - CS AREA

AREA= 108.600 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 185150.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 32535. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 28.57 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSHING AT 321	12244.	5522.	0.00	86347.	54967.	7076.	148390.	2.51
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.22 MGAL OFFLINE TANK	68704.	13601.	9.14	999002.	261970.	45083.	1306055.	8.97
2	3	0.44 MGAL OFFLINE TANK	110032.	20458.	14.16	1413249.	272496.	71159.	1756904.	8.03
2	4	0.89 MGAL OFFLINE TANK	152486.	26732.	19.72	1904006.	287699.	98182.	2289887.	8.01
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.30 MGAL STO. IN INTERCEPTOR	88473.	17621.	11.19	0.	0.	57374.	57374.	.30
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	SWIRL SEPARATOR	94575.	16268.	0.00	1060210.	941456.	45666.	2047332.	11.76

958870398

TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA NE-S IN THE CITY OF ELIZABETH - SS AREA

AREA= 108.400 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 275574.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 37915. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 48.09 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.65 MGAL INLINE STORAGE	197927.	24798.	41.02	292924.	129816.	143135.	565875.	2.13

958870399

TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA SE IN THE CITY OF ELIZABETH - CS AREA

AREA= 363.400 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 830771.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 169934. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 76.56 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.39 MGAL STO. ABOVE 152	238353.	40797.	14.61	1591408.	270157.	133085.	1994650.	4.57
1	3	0.74 MGAL STO. ABOVE 152	340605.	58492.	25.66	2012213.	285360.	196156.	2493730.	3.98
1	4	1.48 MGAL STO. ABOVE 152	436000.	77000.	30.76	3428741.	651417.	249239.	4329397.	5.25
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	SEWER FLUSHING AT 901	272625.	121332.	0.00	107114.	59645.	157009.	323768.	.25
2	3	SEWER FLUSHING AT 133,901	286167.	125736.	0.00	193461.	114612.	164255.	472328.	.35
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	1.48 MGAL OFFLINE TANK	601061.	114234.	40.10	2539039.	297056.	343501.	3179596.	2.60
3	3	2.96 MGAL OFFLINE TANK	744177.	144401.	55.91	3066958.	314598.	434044.	3815601.	2.47
3	4	4.44 MGAL OFFLINE TANK	789312.	156816.	63.72	3515088.	333310.	467080.	4315478.	2.57
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	0.13 MGAL STO. IN INTERCEPTOR	83426.	21395.	6.98	0.	0.	51314.	51314.	.22
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	SWIRL SEPARATOR	415386.	84967.	0.00	1983795.	1836131.	205178.	4025103.	4.43

958870400

TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA SS-E IN THE CITY OF ELIZABETH - CS AREA

AREA= 207.500 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 413185.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 76262. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 50.59 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSHING AT 955	39760.	18037.	0.00	107114.	59645.	23015.	189774.	.98
1	3	SEWER FLUSHING AT 955,925	43487.	19281.	0.00	193461.	114612.	25020.	333093.	1.61
1	4	SEWER FLUSHING AT 955,925,935	45591.	19958.	0.00	262320.	164901.	26143.	453364.	2.12
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.08 MGAL INLINE STORAGE	67195.	11804.	3.96	467804.	77188.	37425.	582417.	4.61
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.42 MGAL OFFLINE TANK	170064.	35476.	17.17	1477736.	274835.	105466.	1858037.	4.89
3	3	0.85 MGAL OFFLINE TANK	266375.	52417.	26.30	1951005.	290038.	163387.	2404430.	4.29
3	4	1.69 MGAL OFFLINE TANK	358771.	66928.	36.22	2488761.	304073.	219794.	3012628.	4.21
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	0.24 MGAL STO. IN INTERCEPTOR	110802.	24410.	11.54	0.	0.	69593.	69593.	.27
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	SWIRL SEPARATOR	206593.	38131.	0.00	4063774.	1754265.	100639.	5918678.	14.51

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TABLE VII-5 CONTINUED
EASTERLY INTERCEPTOR
EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA SS-E IN THE CITY OF ELIZABETH - SS AREA

AREA= 50.500 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 166259.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 22860. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 24.45 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	0.62 MGAL INLINE STORAGE	154501.	20320.	18.09	308226.	70171.	94836.	473233.	2.18

958870402

TABLE VII-5 CONTINUED

EASTERLY INTERCEPTOR

EFFECT OF INDIVIDUAL ALTERNATIVES

********* AREA SS-W IN THE CITY OF ELIZABETH - CS AREA

AREA= 146.600 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 287225.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 58646. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 31.01 MGAL/YR

OPTION NO.	ALT. NO.	DESCRIPTION OF OPTIONS	** ANNUAL OVERFLOW REMOVED *** SS(LBS)	BOD(LBS)	VOL(MGAL)	********** COST ********** CAPITAL	OM(ST)	OM(STP)	TPWORTH	DOLLARS PER LBS
1	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
1	2	SEWER FLUSHING AT 966	38304.	17797.	0.00	86347.	54967.	22315.	163629.	.86
1	3	SEWER FLUSHING AT 966,962	46653.	20643.	0.00	172694.	109934.	26827.	309455.	1.40
1	4	SEWER FLUSH. AT 966,962,991	50742.	21938.	0.00	259041.	164901.	29003.	452945.	1.93
2	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
2	2	0.21 MGAL INLINE STORAGE	119974.	21921.	8.12	170508.	70171.	68407.	309086.	1.32
3	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
3	2	0.30 MGAL OFFLINE TANK	122639.	28103.	10.62	1346576.	264309.	74736.	1685621.	5.61
3	3	0.60 MGAL OFFLINE TANK	188927.	41238.	16.16	1772846.	278343.	114184.	2165373.	4.91
3	4	1.19 MGAL OFFLINE TANK	251712.	52447.	22.25	2239557.	293547.	152169.	2685273.	4.79
4	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
4	2	2.00 MGAL STO. ABOVE 967	216258.	42747.	29.01	2435204.	304073.	142180.	2881457.	6.30
5	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
5	2	0.15 MGAL STO. IN INTERCEPTOR	72758.	17372.	6.52	0.	0.	44848.	44848.	.24
6	1	EXISTING CONDITIONS	0.	0.	0.00	0.	0.	0.	0.	0.00
6	2	SWIRL SEPARATOR	143613.	29323.	0.00	2316067.	2058338.	70919.	4445323.	14.17

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stream location for off-line storage (at Crane and Union Streets) should relieve pollutants at about one-third the unit cost of the upstream tanks, but would not relieve the present street and cellar flooding. In-line storage in an existing sewer is low in cost per unit of pollutant removed but, because of the restricted amount of storage available, is limited to divert to treatment less than 40 percent of the pollutants. Sewer flushing is also economical but can only be expected to divert to treatment about 25 percent of the pollutants. On the other hand, a relatively large storage tank located downstream can be expected to remove better than 70 percent of the pollutants. A large sewer, located on Westfield Avenue, receives overflows of combined sewage. By utilizing the storage available in this sewer, almost 50 percent of the pollutants reaching it can be diverted to treatment at a modest cost. If higher degrees of removal are required a combination of options is indicated.

However, each option except the first in a series would remove less pollutant than the individual option since less pollutant would reach it. Since NNW is located farthest upstream and discharges about 20 percent of the City's total wet weather pollutant load, a significant reduction in these pollutants should improve the river water quality.

Area NNE. Variations of five basic options were considered, sewer flushing, in-line storage in combined sewers, downstream off-line storage, a swirl separator and in-line storage in existing large storm drains. Parallel utilization of combined and storm sewers for in-line storage was most economical and could divert to treatment almost 50 percent or more of the pollutants in the wet weather flow. Flushing at two locations was next in least unit cost but could only route to treatment about ten percent of the total pollutants. Off-line storage was next in unit cost but could only route to treatment about 45 percent of the total pollutants. The swirl separator was most costly and would route for treatment only about 30 percent of

the pollutants because parts of this acrea are served by a separate system. This area currently contributes about seven percent of the total wet weather pollutant discharges from the City. However, its upstream location on the Elizabeth River could justify a higher degree of pollution abatement.

Area NCE. A large part of this area has been provided with separate storm sewers. However, there are interconnections between the storm and combined sewer systems and about two-thirds of the wet weather pollutants result from the storm sewer discharge. Alternatives considered include sewer flushing at two locations, in-line storage on Jefferson Avenue, off-line storage on West Scott Place, a swirl concentrator and in- line storage in the storm sewer on West Scott Place. Sewer flushing would remove about five percent of the pollutants, and would be relatively costly. In-line storage on Jefferson Street and West Scott Place would be least costly and would direct to treatment about 45 percent of the pollutants. Off-line storage in Scott Place would have somewhat lower unit costs than flushing but could divert to treatment about 30 percent of the pollutants. The swirl separator would be somewhat higher unit costs than off-line storage, but would divert only 17 percent of the pollutants to treatment. A high degree of pollution abatement in this area would require a combination of options.

Area NCW. Only two options are available for this area, off-line storage at Pearl Street and South Broad, and a swirl separator. The off-line storage would direct to treatment about 66 percent of the pollutants at a lower cost per unit of pollutant than can the swirl separator which would only divert about 50 percent. The two options could operate in series if a greater degree of pollution abatement is required.

Area CCN. Options considered included sewer flushing at three locations, off-line storage at Catherine Street, between East Grand

Street and the CRRNJ, for both pollution abatement and relief of the underpass flooding with combined sewage, in-line storage at South and South Spring Streets, off-line storage at Fourth Avenue between South and Center Streets. Sewer flushing has the lowest cost per unit of pollutant diverted but would divert only about 35 percent of the pollutants to treatment. Off-line storage at Catherine Street is costly but may not be excessively so considering its dual function. It could divert to treatment about 45 percent of the wet weather pollutants. In-line storage has low costs per unit of pollutant diverted but could only divert to treatment about 25 percent of the pollutants. Off-line storage at Fourth Avenue has lower costs per unit of pollutant diverted than at Catherine Street and could divert to treatment about 75 percent of the pollutants. The swirl separator has higher unit costs and could remove about 50 percent of the pollutants.

Area CCS. Options available are sewer flushing at up to three locations, off-line storage on Fourth Avenue between Seventh and John Streets and the swirl separator. Sewer flushing would divert to treatment from 25 to 30 percent of the pollutants with the least unit cost alternative being a single station. The off-line storage basin could divert to treatment as much as 80 percent of the pollutants at a higher but not unreasonably so, unit cost. The swirl separator has the greatest cost per unit of pollutant removed.

Area WW. Options considered included in-line storage in combined and storm sewers, sewer flushing at two locations, off-line storage on Clarkson Avenue between Summer and Garden and the swirl separator. Sewer flushing has the least unit cost but could divert to treatment less than 25 percent of the total pollutants. In-line storage is the next lowest unit cost option but could only divert to treatment about 20 percent of the pollutants. Off-line storage costs were reasonable, although somewhat higher in cost per unit of pollutant diverted to treatment, but about 60 percent of the pollutants

could be so diverted. The swirl separator has the highest unit cost and would divert to treatment only about 33 percent of the total pollutants.

Areas NCW, CCN and CCS, between them, contribute about 12 percent of the total City's wet weather pollutant discharge (or about 21 percent of that discharged to the Elizabeth River). Area WW, by itself, contributes about the same. The river water quality has been shown to deteriorate at an accelerated rate between Summer and Trenton Avenues and that gross pollution exists from South Street downstream. Accordingly, wet weather pollutant discharges from these areas appear to require attention if the river is to be reclaimed.

Area NEN discharges to the Easterly Interceptor with wet weather overflows to Newark Airport's Peripheral Ditch. The area contains both combined and storm sewers. Options considered include sewer flushing, storage at Kellogg Park for pollution abatement and relief of combined sewage flooding, in-line storage in combined and storm sewers and the swirl separator. Sewer flushing was the least unit cost option. However, it would divert to treatment only about 30 percent of the total pollutants. Storage at Kellogg Park is the highest unit cost option and would only divert to treatment about 30 percent of the pollutants. In-line storage in combined and storm sewers would be moderate in cost and could divert about 47 percent of the pollutants to treatment. The swirl separator is somewhat higher in unit cost than in-line storage but would divert to treatment about 30 percent of the pollutants now discharged.

Area NES also contains both combined and storm sewers. Wet weather overflows discharge to the Great Ditch. Options available are sewer flushing, in-line storage in a storm sewer, off-line storage at Dowd Avenue and Progress Street, and the swirl separator. The least unit cost alternative is in-line storage which would divert about 35 percent of wet weather pollutants to treatment. Sewer flushing is next to lowest in unit costs, but would divert only about

eight percent of the wet weather pollutants. Off-line storage has greater unit costs, but is not unreasonably expensive, and could divert about 38 percent of the pollutants. The swirl separator would be highest in unit costs and would divert about 23 percent of the pollutants. The pollutant removed by in-line storage would be additive to that removed by other options.

Area SE is served by a combined sewer system. Its wet weather discharges enter the Great Ditch and the Newark Bay at its confluence with the Arthur Kill and are relatively large, about 14 percent of the City's total. Options considered included off-line storage at Broadway and Seventh Street, which would serve the dual function of relieving combined sewage flooding at Seventh and Court Streets, Sixth and Court Streets, and Trumbull and Seventh Streets and reducing wet weather pollutant discharges; sewer flushing; off-line storage at Trumbull Street and First Street and the swirl separator. Off-line storage (0.74 million gallons) at Seventh Street and Broadway would be reasonable in cost but would divert to treatment only about 35 percent of the total pollutants. Sewer flushing would be very economical and would divert to treatment about 74 percent of the pollutants. Off-line storage at Trumbull and First Streets presents costs per unit of pollutant diverted that are about two-thirds that of storage and Seventh and Court Streets and about ten times that for sewer flushing. It could divert to treatment, however, about 92 percent of the pollutants now discharged. The swirl separator has highest unit costs and would divert to treatment only about half the total pollutants now discharged.

Area SSE contains both combined and storm sewers. Wet weather pollutants now overflow to the Arthur Kill. Options considered include sewer flushing, in-line storage in both combined and storm sewers, off-line storage at Elizabeth Avenue and South Front Street and the swirl separator. In terms of cost per unit of pollutant removed, the order starting from least cost is sewer flushing followed

by in-line storage in the storm sewer, off-line storage, in-line storage in the combined sewer and finally, the swirl separator. The percent of total pollutant diverted to treatment by each of the options is:

Option	% Pollutant Diverted
Sewer Flushing	18
In-Line Storm Sewer Storage	20
Off-Line Storage	68
In-Line Storage Combined Sewer	12
Swirl Concentrator	38

A high degree of pollutant diversion to treatment would require a combination of options with the only option directly additive to others individually or in combination being in-line storm sewer storage.

Area SSW is served by a combined sewer system. Wet weather pollutants discharge to the Elizabeth River between South Front and South First Streets and immediately south of Trenton Avenue. The area discharges about five percent of the wet weather pollutants from the City. However, the discharge appears to enter the pollutant sink and in small rainfalls could be washed upstream with the incoming tide. Options considered include sewer flushing, dual-purpose storage for pollution and combined sewer flooding abatement, in-line storage for pollution abatement and the swirl separator. In terms of cost per unit of pollutant removed, the order, starting from least cost, is sewer flushing, in-line storage, off-line storage, dual purpose off-line storage and the swirl separator. The percent of total pollutant diverted to treatment by each of the options is:

Option	% Pollutant Diverted
Sewer Flushing	37
In-Line Storage	37
Off-Line Storage	89
Dual Purpose Storage	73
Swirl Separator	50

While off-line storage can divert a large part of the total pollutants to treatment, a combination of sewer flushing and in-line storage with off-line storage could provide equal benefits at a lower cost.

Area SW includes that part of the City located south of the Turnpike and west of the Elizabeth River. Major industries, including Phelps Dodge Copper Products Co. and Reichold Chemical, and the Joint Meeting Plant are located in this area. The original Joint Meeting Trunk Sewer is located in Bayway. Before construction of the Joint Meeting Plant, the raw sewage of the Joint Meeting municipalities was discharged through this sewer. With the construction of the treatment plant, this sewer was intercepted at Bayway and Pulaski Street. However, the City of Elizabeth continued to use this sewer to discharge highly polluted, untreated, industrial wastes to the Arthur Kill until 1968 when the Bayway Interceptor was constructed. This Interceptor diverted dry weather flow in the 72-inch brick Bayway sewer to the Easterly Interceptor. Wet weather flows still discharge untreated to the Arthur Kill. By providing a level actuated control on the flap valve of the present regulator, most of this flow can be stored and diverted to treatment. The amount of pollutant that would be so treated is as follows:

	Annual Overflow		
	SS (lbs/yr)	BOD (lbs/yr)	Flow (mg/yr)
Existing Condition	13308	4136	1.6
Pipe Storage*Utilized	797	442	0.4

*Volume = 0.34 mg

E. Combination of Options for Pollution Abatement

The above discussions consider each option individually. The effects of combinations of options have been analyzed by the methodology previously defined. Tables VII-6 and VII-7 summarize pertinent data upon which the various alternatives for pollution abatement have been analyzed. The facilities included in the various alternatives are coded in the "Area" columns and can be determined by reference to Tables VII-4 and VII-5.

Areas Served by Westerly Interceptor. Table VII-6 lists over 1000 alternatives for diverting to treatment wet weather pollutant overflows, ranging from the present condition to diversion of about 83 percent of the total pollutants presently discharged. The alternatives are combinations of the options presented in Table VII-4. As an example of how the coding is used, the facilities included in case 640 for about 80 percent raw BOD discharge diversion are as follows:

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TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
1	0	0	0	0	.000	.000	0.00	111111	1	1111	1	1111	1	11	11111	111	1111	1
2	17252	152568	67766	84802	.025	.024	0.83	111111	1	1211	1	1111	1	11	11111	111	1111	1
3	29404	309446	154113	155333	.032	.042	0.98	111111	1	1211	1	1111	1	11	11111	211	1111	1
4	35659	355238	193461	161777	.020	.050	0.93	111111	1	1111	1	1111	1	11	11111	111	1211	1
5	67736	463832	167229	296603	.099	.096	0.64	111211	1	1111	1	1111	1	11	11111	111	1111	1
6	84988	616400	234995	381405	.124	.120	0.68	111211	1	1211	1	1111	1	11	11111	111	1111	1
7	97140	773279	321342	451937	.131	.137	0.74	111211	1	1211	1	1111	1	11	11111	211	1111	1
8	103395	819070	360690	458380	.119	.146	0.74	111211	1	1111	1	1111	1	11	11111	111	1211	1
9	120648	971639	428456	543183	.144	.171	0.75	111211	1	1211	1	1111	1	11	11111	111	1211	1
10	132800	1128517	514803	613714	.151	.188	0.79	111211	1	1211	1	1111	1	11	11111	211	1211	1
11	134186	1272111	601150	670961	.152	.190	0.89	111211	1	1211	1	1111	1	11	11111	311	1211	1
12	137181	1339667	638312	701355	.157	.194	0.91	111211	1	1311	1	1111	1	11	11111	211	1211	1
13	140703	1395690	685311	710379	.161	.199	0.93	111211	1	1211	1	1211	1	11	11111	211	1211	1
14	144759	1475921	749798	726123	.169	.205	0.95	111211	1	1211	1	1111	1	11	11211	211	1211	1
15	145315	1478294	749798	728496	.170	.205	0.95	111211	1	1211	1	1111	1	11	11111	211	2211	1
16	151410	1591477	773844	817633	.169	.214	0.98	111211	1	1211	1	1111	1	11	21111	211	1211	1
17	152796	1735071	860191	874880	.170	.216	1.06	111211	1	1211	1	1111	1	11	21111	311	1211	1
18	153218	1745467	920306	825161	.181	.217	1.06	111211	1	1211	1	1211	1	11	11111	211	2211	1
19	159739	1777180	900632	876548	.165	.226	1.04	112211	1	1211	1	1111	1	11	11111	211	1211	1
20	163177	1810565	980421	830144	.205	.231	1.04	111211	3	1211	1	1111	1	11	11111	211	1211	1
21	163925	1941253	1008839	932414	.189	.232	1.11	111211	1	1211	1	1111	1	11	21111	211	2211	1
22	164563	1954159	1066768	887391	.206	.233	1.11	111211	3	1211	1	1111	1	11	11111	311	1211	1
23	167558	2021715	1103930	917785	.211	.237	1.13	111211	3	1311	1	1111	1	11	11111	211	1211	1
24	167642	2044354	1071140	973214	.175	.237	1.14	112211	1	1211	1	1211	1	11	11111	211	1211	1
25	171080	2077739	1150929	926810	.215	.242	1.14	111211	3	1211	1	1211	1	11	11111	211	1211	1
26	171698	2124584	1135627	988957	.183	.243	1.16	112211	1	1211	1	1111	1	11	11211	211	1211	1
27	172253	2126957	1135627	991330	.184	.244	1.15	112211	1	1211	1	1111	1	11	11111	211	2211	1
28	175136	2157969	1215416	942553	.223	.248	1.15	111211	3	1211	1	1111	1	11	11211	211	1211	1
29	175692	2160342	1215416	944926	.224	.248	1.15	111211	3	1211	1	1111	1	11	11111	211	2211	1
30	178349	2240140	1159673	1080467	.183	.252	1.17	112211	1	1211	1	1111	1	11	21111	211	1211	1
31	181787	2273525	1239462	1034063	.223	.257	1.17	111211	3	1211	1	1111	1	11	21111	211	1211	1
32	183173	2417119	1325809	1091310	.224	.259	1.23	111211	3	1211	1	1111	1	11	21111	311	1211	1
33	183595	2427515	1385924	1041591	.235	.260	1.24	111211	3	1211	1	1211	1	11	11111	211	2211	1
34	185991	2455084	1376087	1078997	.218	.263	1.23	112211	1	1211	1	1111	2	11	11111	211	1211	1
35	190116	2459229	1366250	1092979	.219	.269	1.21	112211	3	1211	1	1111	1	11	11111	211	1211	1
36	190863	2589917	1394668	1195249	.203	.270	1.27	112211	1	1211	1	1111	1	11	21111	211	2211	1
37	191502	2602823	1452597	1150226	.220	.271	1.27	112211	3	1211	1	1111	1	11	11111	311	1211	1
38	194302	2623302	1474457	1148845	.243	.275	1.26	111211	3	1211	1	1111	1	11	21111	211	2211	1
39	194497	2670378	1489759	1180619	.225	.275	1.28	112211	3	1311	1	1111	1	11	11111	211	1211	1
40	198019	2726402	1536758	1189644	.229	.280	1.29	112211	3	1211	1	1211	1	11	11111	211	1211	1
41	198505	2804861	1611082	1193779	.237	.281	1.32	112211	1	1211	1	1111	2	11	11111	211	2211	1
42	202075	2806632	1601245	1205387	.237	.286	1.30	112211	3	1211	1	1111	1	11	11211	211	1211	1
43	202630	2809005	1601245	1207760	.238	.286	1.30	112211	3	1211	1	1111	1	11	11111	211	2211	1
44	204601	2918044	1635128	1282916	.236	.289	1.33	112211	1	1211	1	1111	2	11	21111	211	1211	1
45	208726	2922188	1625291	1296897	.237	.295	1.31	112211	3	1211	1	1111	1	11	21111	211	1211	1
46	210112	3065782	1711638	1354144	.238	.297	1.36	112211	3	1211	1	1111	1	11	21111	311	1211	1
47	210533	3076179	1771753	1304426	.248	.298	1.37	112211	3	1211	1	1211	1	11	11111	211	2211	1
48	213107	3133338	1748800	1384538	.244	.301	1.37	112211	3	1311	1	1111	1	11	21111	211	1211	1
49	216368	3137132	1841705	1295427	.272	.306	1.36	112211	3	1211	1	1111	2	11	11111	211	1211	1
50	216629	3189361	1795799	1393562	.248	.306	1.38	112211	3	1211	1	1211	1	11	21111	211	1211	1

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continued

TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
51	217115	3267820	1870123	1397697	.256	.307	1.41	112211	1	1211	1	1111	2	11	21111	211	2211	1
52	221240	3271965	1860286	1411679	.257	.313	1.38	112211	3	1211	1	1111	1	11	21111	211	2211	1
53	224271	3404306	2012213	1392093	.282	.317	1.42	112211	3	1211	1	1211	2	11	11111	211	1211	1
54	225621	3483115	1983795	1499320	.263	.319	1.44	112211	3	1311	1	1111	1	11	21111	211	2211	1
55	228327	3484536	2076700	1407836	.290	.323	1.43	112211	3	1211	1	1111	2	11	11211	211	1211	1
56	228882	3486909	2076700	1410209	.291	.324	1.42	112211	3	1211	1	1111	2	11	11111	211	2211	1
57	229143	3539138	2030794	1508344	.267	.324	1.44	112211	3	1211	1	1211	1	11	21111	211	2211	1
58	234978	3600092	2100746	1499346	.290	.332	1.43	112211	3	1211	1	1111	2	11	21111	211	1211	1
59	236364	3743686	2187093	1556593	.291	.334	1.48	112211	3	1211	1	1111	2	11	21111	311	1211	1
60	236785	3754082	2247208	1506874	.301	.335	1.48	112211	3	1211	1	1211	2	11	11111	211	2211	1
61	239359	3811242	2224255	1586987	.297	.338	1.49	112211	3	1311	1	1111	2	11	21111	211	1211	1
62	240841	3834313	2311695	1522618	.309	.341	1.49	112211	3	1211	1	1111	2	11	11211	211	2211	1
63	241162	3855612	2313881	1541731	.315	.341	1.49	112211	3	1211	1	1111	2	11	11111	211	2211	2
64	242881	3867265	2271254	1596011	.301	.343	1.49	112211	3	1211	1	1211	2	11	21111	211	1211	1
65	247492	3949869	2335741	1614128	.310	.350	1.49	112211	3	1211	1	1111	2	11	21111	211	2211	1
66	248878	4093463	2422088	1671375	.311	.352	1.54	112211	3	1211	1	1111	2	11	21111	311	2211	1
67	249065	4122785	2484389	1638396	.326	.352	1.55	112211	3	1211	1	1211	2	11	11111	211	2211	2
68	251873	4161018	2459250	1701768	.316	.356	1.54	112211	3	1311	1	1111	2	11	21111	211	2211	1
69	253121	4203016	2548876	1654140	.333	.358	1.55	112211	3	1211	1	1111	2	11	11211	211	2211	2
70	255395	4217042	2506249	1710793	.320	.361	1.54	112211	3	1211	1	1211	2	11	21111	211	2211	1
71	259772	4318572	2572922	1745650	.334	.367	1.55	112211	3	1211	1	1111	2	11	21111	211	2211	2
72	259776	4428192	2629758	1798434	.326	.367	1.59	112211	3	1311	1	1211	2	11	21111	211	2211	1
73	261158	4462166	2659269	1802897	.335	.369	1.60	112211	3	1211	1	1111	2	11	21111	311	2211	2
74	264153	4529721	2696431	1833290	.340	.373	1.60	112211	3	1311	1	1111	2	11	21111	211	2211	2
75	267675	4585745	2743430	1842315	.344	.378	1.60	112211	3	1211	1	1211	2	11	21111	211	2211	2
76	269061	4729339	2829777	1899562	.345	.380	1.64	112211	3	1211	1	1211	2	11	21111	311	2211	2
77	272056	4796895	2866939	1929956	.351	.385	1.65	112211	3	1311	1	1211	2	11	21111	211	2211	2
78	273130	4875150	2916124	1959026	.347	.386	1.67	112211	3	2211	1	1211	2	11	21111	211	2211	2
79	275189	4923350	2978425	1944925	.357	.389	1.67	112211	3	1211	1	1211	2	11	21211	211	2211	2
80	276106	5055642	3199211	1856431	.374	.390	1.71	112211	3	1211	2	1111	2	11	11211	211	2211	2
81	276575	5066944	3064772	2002172	.358	.391	1.71	112211	3	1211	1	1211	2	11	21211	311	2211	2
82	278380	5069667	3156584	1913083	.361	.394	1.70	112211	3	1211	2	1211	2	11	21111	211	2211	1
83	279570	5134499	3101934	2032565	.364	.395	1.72	112211	3	1311	1	1211	2	11	21211	211	2211	2
84	282757	5171197	3223257	1947940	.375	.400	1.71	112211	3	1211	2	1111	2	11	21111	211	2211	2
85	282761	5280817	3280093	2000724	.368	.400	1.75	112211	3	1311	2	1211	2	11	21111	211	2211	1
86	284143	5314791	3309604	2005187	.376	.402	1.75	112211	3	1211	2	1111	2	11	21111	311	2211	2
87	287138	5382347	3346766	2035581	.381	.406	1.75	112211	3	1311	2	1111	2	11	21111	211	2211	2
88	290660	5438371	3393765	2044606	.385	.411	1.75	112211	3	1211	2	1211	2	11	21111	211	2211	2
89	292046	5581965	3480112	2101853	.386	.413	1.79	112211	3	1211	2	1211	2	11	21111	311	2211	2
90	295041	5649520	3517274	2132246	.392	.417	1.79	112211	3	1311	2	1211	2	11	21111	211	2211	2
91	296115	5727776	3566459	2161317	.388	.419	1.81	112211	3	2211	2	1211	2	11	21111	211	2211	2
92	298174	5775975	3628760	2147215	.398	.422	1.81	112211	3	1211	2	1211	2	11	21211	211	2211	2
93	299560	5919569	3715107	2204462	.400	.424	1.85	112211	3	1211	2	1211	2	11	21211	311	2211	2
94	300156	5923974	3756641	2167333	.404	.424	1.84	112211	4	1211	2	1211	2	11	21111	211	2211	2
95	302555	5987125	3752269	2234856	.405	.428	1.85	112211	3	1311	2	1211	2	11	21211	211	2211	2
96	303628	6065380	3801454	2263926	.401	.429	1.87	112211	3	2211	2	1211	2	11	21211	211	2211	2
97	303941	6130719	3838616	2292103	.406	.430	1.89	112211	3	1311	2	1211	2	11	21211	311	2211	2
98	304537	6135124	3880150	2254974	.410	.431	1.88	112211	4	1311	2	1211	2	11	21111	211	2211	2
99	305014	6208974	3887801	2321173	.402	.431	1.90	112211	3	2211	2	1211	2	11	21211	311	2211	2
100	305611	6213379	3929335	2284044	.407	.432	1.90	112211	4	2211	2	1211	2	11	21111	211	2211	2
101	307670	6261579	3991636	2269943	.417	.435	1.90	112211	4	1211	2	1211	2	11	21211	211	2211	2
102	309056	6405173	4077983	2327190	.418	.437	1.94	112211	4	1211	2	1211	2	11	21211	311	2211	2
103	309293	6423562	4052844	2370718	.413	.437	1.94	112211	4	2311	2	1211	2	11	21111	211	2211	2
104	312051	6472729	4115145	2357584	.424	.441	1.94	112211	4	1311	2	1211	2	11	21211	211	2211	2
105	313124	6550984	4164330	2386654	.420	.443	1.96	112211	4	2211	2	1211	2	11	21211	211	2211	2
106	313437	6616323	4201492	2414831	.425	.443	1.97	112211	4	1311	2	1211	2	11	21211	311	2211	2
107	314510	6694578	4250677	2443901	.421	.445	1.99	112211	4	2211	2	1211	2	11	21211	311	2211	2
108	314622	6758655	4287839	2470816	.425	.445	1.99	112211	4	1311	2	2211	2	11	21211	211	2211	2
109	316806	6761166	4287839	2473327	.426	.448	1.99	112211	4	2311	2	1211	2	11	21211	211	2211	2
110	318192	6904760	4374186	2530574	.427	.450	2.03	112211	4	2311	2	1211	2	11	21211	311	2211	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870414

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NMW CS	NMW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
111	318621	7024645	4443045	2581600	.427	.450	2.06	112211	4	2311	2	1211	2	11	21211	411	2211	2
112	319377	7047093	4460533	2586560	.427	.452	2.06	112211	4	2311	2	2211	2	11	21211	211	2211	2
113	320763	7190687	4546880	2643807	.429	.453	2.10	112211	4	2311	2	2211	2	11	21211	311	2211	2
114	321192	7310571	4615739	2694832	.429	.454	2.13	112211	4	2311	2	2211	2	11	21211	411	2211	2
115	322077	7543560	5301050	2242510	.435	.455	2.19	111231	3	1211	1	1211	2	11	21111	311	2211	2
116	325072	7611115	5338212	2272903	.441	.460	2.19	111231	3	1311	1	1211	2	11	21111	211	2211	2
117	326146	7689371	5387397	2301974	.437	.461	2.20	111231	3	2211	1	1211	2	11	21111	211	2211	2
118	328205	7737570	5449698	2287872	.447	.464	2.20	111231	3	1211	1	1211	2	11	21211	211	2211	2
119	329122	7869862	5670484	2199378	.464	.465	2.23	111231	3	1211	2	1111	2	11	11211	211	2211	2
120	329591	7881164	5536045	2345119	.449	.466	2.23	111231	3	1211	1	1211	2	11	21211	311	2211	2
121	331396	7883888	5627857	2256031	.451	.469	2.22	111231	3	1211	2	1211	2	11	21111	211	2211	1
122	332586	7948720	5573207	2375513	.454	.470	2.23	111231	3	1311	1	1211	2	11	21211	211	2211	2
123	335773	7985418	5694530	2290888	.465	.475	2.22	111231	3	1211	2	1111	2	11	21111	211	2211	2
124	335777	8095038	5751366	2343672	.458	.475	2.25	111231	3	1311	2	1211	2	11	21111	211	2211	1
125	337159	8129012	5780877	2348135	.466	.477	2.25	111231	3	1211	2	1111	2	11	21111	311	2211	2
126	340154	8196568	5818039	2378529	.471	.481	2.25	111231	3	1311	2	1111	2	11	21111	211	2211	2
127	343676	8252591	5865038	2387553	.475	.486	2.24	111231	3	1211	2	1211	2	11	21111	211	2211	2
128	345062	8396185	5951385	2444800	.476	.488	2.27	111231	3	1211	2	1211	2	11	21111	311	2211	2
129	348057	8463741	5988547	2475194	.482	.492	2.27	111231	3	1311	2	1211	2	11	21111	211	2211	2
130	349131	8541996	6037732	2504264	.478	.494	2.29	111231	3	2211	2	1211	2	11	21111	211	2211	2
131	351190	8590196	6100033	2490163	.489	.497	2.29	111231	3	1211	2	1211	2	11	21211	211	2211	2
132	352576	8733790	6186380	2547410	.490	.498	2.32	111231	3	1211	2	1211	2	11	21211	311	2211	2
133	353172	8738195	6227914	2510281	.494	.499	2.31	111231	4	1211	2	1211	2	11	21111	211	2211	2
134	355571	8801345	6223542	2577803	.495	.503	2.31	111231	3	1311	2	1211	2	11	21211	211	2211	2
135	356645	8879601	6272727	2606874	.491	.504	2.33	111231	3	2211	2	1211	2	11	21211	211	2211	2
136	356957	8944939	6309889	2635050	.496	.505	2.34	111231	3	1311	2	1211	2	11	21211	311	2211	2
137	357553	8949345	6351423	2597922	.501	.506	2.34	111231	4	1311	2	1211	2	11	21111	211	2211	2
138	358031	9023195	6359074	2664121	.492	.506	2.36	111231	3	2211	2	1211	2	11	21211	311	2211	2
139	358627	9027600	6400608	2626992	.497	.507	2.35	111231	4	2211	2	1211	2	11	21111	211	2211	2
140	360686	9075800	6462909	2612891	.507	.510	2.35	111231	4	1211	2	1211	2	11	21211	211	2211	2
141	362072	9219394	6549256	2670138	.508	.512	2.38	111231	4	1211	2	1211	2	11	21211	311	2211	2
142	362309	9237782	6524117	2713665	.503	.512	2.38	111231	4	2311	2	1211	2	11	21111	211	2211	2
143	365067	9286949	6586418	2700531	.514	.516	2.38	111231	4	1311	2	1211	2	11	21211	211	2211	2
144	366141	9365205	6635603	2729602	.510	.518	2.39	111231	4	2211	2	1211	2	11	21211	211	2211	2
145	366453	9430563	6672765	2757778	.515	.518	2.41	111231	4	1311	2	1211	2	11	21211	311	2211	2
146	367527	9508799	6721950	2786849	.511	.520	2.42	111231	4	2211	2	1211	2	11	21211	311	2211	2
147	367638	9572876	6759112	2813764	.515	.520	2.43	111231	4	1311	2	2211	2	11	21211	211	2211	2
148	369822	9575387	6759112	2816275	.516	.523	2.42	111231	4	2311	2	1211	2	11	21211	211	2211	2
149	371208	9718981	6845459	2873522	.517	.525	2.45	111231	4	2311	2	1211	2	11	21211	311	2211	2
150	371637	9838866	6914318	2924548	.518	.525	2.47	111231	4	2311	2	1211	2	11	21211	411	2211	2
151	372394	9861313	6931806	2929507	.518	.526	2.47	111231	4	2311	2	2211	2	11	21211	211	2211	2
152	372612	9910014	6972247	2937767	.517	.527	2.49	112231	4	1311	2	1211	2	11	21211	211	2211	2
153	373685	9988270	7021432	2966838	.513	.528	2.50	112231	4	2211	2	1211	2	11	21211	211	2211	2
154	373780	10004907	7018153	2986754	.519	.528	2.50	111231	4	2311	2	2211	2	11	21211	311	2211	2
155	373998	10053608	7058594	2995014	.518	.529	2.51	112231	4	1311	2	1211	2	11	21211	311	2211	2
156	374209	10124792	7087012	3037780	.519	.529	2.53	111231	4	2311	2	2211	2	11	21211	411	2211	2
157	375071	10131864	7107779	3024085	.514	.530	2.52	112231	4	2211	2	1211	2	11	21211	311	2211	2
158	375183	10195941	7144941	3051000	.518	.530	2.54	112231	4	1311	2	2211	2	11	21211	211	2211	2
159	377367	10198452	7144941	3053511	.519	.534	2.53	112231	4	2311	2	1211	2	11	21211	211	2211	2
160	378753	10342046	7231288	3110758	.520	.535	2.55	112231	4	2311	2	1211	2	11	21211	311	2211	2
161	379182	10461931	7300147	3161784	.521	.536	2.58	112231	4	2311	2	1211	2	11	21211	411	2211	2
162	379938	10484378	7317635	3166743	.521	.537	2.58	112231	4	2311	2	2211	2	11	21211	211	2211	2
163	381324	10627972	7403982	3223990	.522	.539	2.60	112231	4	2311	2	2211	2	11	21211	311	2211	2
164	381753	10747857	7472841	3275016	.522	.540	2.63	112231	4	2311	2	2211	2	11	21211	411	2211	2
165	382154	10914323	7935180	2979143	.544	.540	2.67	111231	4	1211	2	1211	2	11	21211	221	2211	2
166	382655	11031637	8136292	2895345	.537	.541	2.69	111231	3	1211	2	1211	2	11	21211	311	1221	2
167	383252	11036043	8177826	2858217	.541	.542	2.69	111231	4	1211	2	1211	2	11	21111	211	1221	2
168	383777	11076305	7996388	3079917	.540	.543	2.70	111231	4	2311	2	1211	2	11	21111	221	2211	2
169	385650	11099193	8173454	2925739	.542	.545	2.69	111231	3	1311	2	1211	2	11	21211	211	1221	2
170	386535	11125472	8058689	3066783	.551	.546	2.69	111231	4	1311	2	1211	2	11	21211	221	2211	2

TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870415

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
171	386724	11177448	8222639	2954809	.538	.547	2.70	111231	3	2211	2	1211	2	11	21211	211	1221	2
172	387609	11203728	8107874	3095854	.547	.548	2.70	111231	4	2211	2	1211	2	11	21211	221	2211	2
173	387633	11247192	8301335	2945857	.547	.548	2.71	111231	4	1311	2	1211	2	11	21111	211	1221	2
174	388110	11321042	8308986	3012056	.539	.549	2.73	111231	3	2211	2	1211	2	11	21211	311	1221	2
175	388706	11325448	8350520	2974928	.544	.550	2.72	111231	4	2211	2	1211	2	11	21111	211	1221	2
176	390765	11373647	8412821	2960826	.554	.552	2.72	111231	4	1211	2	1211	2	11	21211	211	1221	2
177	391291	11413910	8231383	3182527	.553	.553	2.73	111231	4	2311	2	1211	2	11	21211	221	2211	2
178	392151	11517241	8499168	3018073	.555	.554	2.74	111231	4	1211	2	1211	2	11	21211	311	1221	2
179	392388	11535630	8474029	3061601	.550	.555	2.75	111231	4	2311	2	1211	2	11	21111	211	1221	2
180	395146	11584797	8536330	3048467	.561	.559	2.74	111231	4	1311	2	1211	2	11	21211	211	1221	2
181	396220	11663052	8585515	3077537	.557	.560	2.75	111231	4	2211	2	1211	2	11	21211	211	1221	2
182	396532	11728391	8622677	3105714	.562	.561	2.76	111231	4	1311	2	1211	2	11	21211	311	1221	2
183	397606	11806646	8671862	3134784	.558	.562	2.78	111231	4	2211	2	1211	2	11	21211	311	1221	2
184	397716	11849582	8872974	2976608	.570	.562	2.78	111231	4	1311	2	1211	2	11	21211	211	1131	2
185	397717	11870723	8709024	3161699	.562	.562	2.79	111231	4	1311	2	2211	2	11	21211	211	1221	2
186	399902	11873235	8709024	3164211	.563	.565	2.77	111231	4	2311	2	1211	2	11	21211	211	1221	2
187	400275	11955559	8942926	3012633	.567	.566	2.79	111231	4	1211	2	1211	2	11	21211	211	1231	2
188	400495	11983529	8820510	3163019	.563	.566	2.80	111231	4	2211	2	1211	2	11	21211	211	2221	2
189	401288	12016829	8795371	3221458	.564	.567	2.80	111231	4	2311	2	1211	2	11	21211	311	1221	2
190	401661	12099153	9029273	3069880	.568	.568	2.82	111231	4	1211	2	1211	2	11	21211	311	1231	2
191	401898	12117542	9004134	3113408	.562	.568	2.82	111231	4	2311	2	1211	2	11	21111	211	1231	2
192	402471	12138019	9045668	3092351	.572	.569	2.82	111231	4	2311	2	1211	2	11	21211	211	1131	2
193	402473	12159161	8881718	3277443	.565	.569	2.82	111231	4	2311	2	2211	2	11	21211	211	1221	2
194	403277	12163639	9158247	3005392	.574	.570	2.82	111231	4	1311	2	1211	2	11	21211	211	1141	2
195	404656	12166708	9066435	3100273	.573	.572	2.81	111231	4	1311	2	1211	2	11	21211	211	1231	2
196	405730	12244964	9115620	3129344	.570	.574	2.82	111231	4	2211	2	1211	2	11	21211	211	1231	2
197	406042	12310302	9152782	3157520	.574	.574	2.83	111231	4	1311	2	1211	2	11	21211	311	1231	2
198	407116	12388558	9201967	3186591	.571	.576	2.84	111231	4	2211	2	1211	2	11	21211	311	1231	2
199	408032	12452077	9330941	3121136	.576	.577	2.85	111231	4	2311	2	1211	2	11	21211	211	1141	2
200	409412	12455146	9239129	3216017	.576	.579	2.84	111231	4	2311	2	1211	2	11	21211	211	1231	2
201	409418	12595671	9417288	3178383	.577	.579	2.88	111231	4	2311	2	1211	2	11	21211	311	1141	2
202	410798	12598740	9325476	3273264	.577	.581	2.87	111231	4	2311	2	1211	2	11	21211	311	1231	2
203	411227	12718625	9394335	3324290	.577	.581	2.89	111231	4	2311	2	1211	2	11	21211	411	1231	2
204	411983	12741072	9411823	3329249	.577	.582	2.89	111231	4	2311	2	2211	2	11	21211	211	1231	2
205	412997	12767220	9524402	3242818	.579	.584	2.89	111231	4	2311	2	1211	2	11	21211	211	1241	2
206	413275	12868029	9501449	3366580	.573	.584	2.91	112231	4	2211	2	1211	2	11	21211	211	1231	2
207	413369	12884666	9498170	3386496	.578	.584	2.91	111231	4	2311	2	2211	2	11	21211	311	1231	2
208	414383	12910814	9610749	3300065	.580	.586	2.91	111231	4	2311	2	1211	2	11	21211	311	1241	2
209	414661	13011623	9587796	3423827	.574	.586	2.93	112231	4	2211	2	1211	2	11	21211	311	1231	2
210	414812	13030698	9679608	3351090	.581	.586	2.94	111231	4	2311	2	1211	2	11	21211	411	1241	2
211	415568	13053146	9697096	3356050	.581	.588	2.94	111231	4	2311	2	2211	2	11	21211	211	1241	2
212	415577	13075142	9716770	3358372	.579	.588	2.94	112231	4	2311	2	1211	2	11	21211	211	1141	2
213	416957	13078211	9624958	3453253	.579	.589	2.93	112231	4	2311	2	1211	2	11	21211	211	1231	2
214	416963	13218736	9803117	3415619	.580	.590	2.96	112231	4	2311	2	1211	2	11	21211	311	1141	2
215	418343	13221805	9711305	3510500	.580	.591	2.95	112231	4	2311	2	1211	2	11	21211	311	1231	2
216	418772	13341690	9780164	3561526	.580	.592	2.98	112231	4	2311	2	1211	2	11	21211	411	1231	2
217	419528	13364138	9797652	3566486	.580	.593	2.98	112231	4	2311	2	2211	2	11	21211	211	1231	2
218	420542	13390285	9910231	3480054	.582	.595	2.98	112231	4	2311	2	1211	2	11	21211	211	1241	2
219	420914	13507732	9883999	3623733	.581	.595	3.00	112231	4	2311	2	2211	2	11	21211	311	1231	2
220	421928	13533879	9996578	3537301	.584	.597	3.00	112231	4	2311	2	1211	2	11	21211	311	1241	2
221	422357	13653763	10065437	3588326	.584	.597	3.02	112231	4	2311	2	1211	2	11	21211	411	1241	2
222	423113	13676211	10082925	3593286	.584	.598	3.02	112231	4	2311	2	2211	2	11	21211	211	1241	2
223	424499	13819805	10169272	3650533	.585	.600	3.04	112231	4	2311	2	1211	2	11	21211	311	1241	2
224	424928	13939690	10238131	3701559	.585	.601	3.07	112231	4	2311	2	2211	2	11	21211	411	1241	2
225	426125	14005232	10538706	3466526	.610	.602	3.07	111231	4	1311	2	1211	2	11	21211	221	1231	2
226	427198	14083487	10587891	3495596	.607	.604	3.08	111231	4	2211	2	1211	2	11	21211	221	1231	2
227	427726	14225542	10674238	3551304	.607	.605	3.11	111231	4	2211	2	1211	2	11	21211	321	1231	2
228	429501	14290600	10803212	3487388	.613	.607	3.11	111231	4	2311	2	1211	2	11	21211	221	1141	2
229	430880	14293669	10711400	3582269	.613	.609	3.10	111231	4	2311	2	1211	2	11	21211	221	1231	2
230	431409	14435724	10797747	3637977	.613	.610	3.13	111231	4	2311	2	1211	2	11	21211	321	1231	2

continued

958870416

TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
231	431436	14507261	11004324	3502937	.618	.610	3.14	111231	4	1311	2	1211	2	11	21211	231	1231	2
232	431571	14555111	10866606	3688505	.613	.610	3.15	111231	4	2311	2	1211	2	11	21211	421	1231	2
233	432072	14576527	10975906	3600621	.615	.611	3.15	111231	4	2311	2	2211	2	11	21211	221	1141	2
234	433452	14579596	10884094	3695502	.614	.613	3.14	111231	4	2311	2	2211	2	11	21211	221	1231	2
235	434465	14605743	10996673	3609070	.617	.614	3.14	111231	4	2311	2	1211	2	11	21211	221	1241	2
236	434743	14706552	10973720	3732832	.610	.615	3.16	112231	4	2211	2	1211	2	11	21211	221	1231	2
237	434993	14747798	11083020	3664778	.617	.615	3.17	111231	4	2311	2	1211	2	11	21211	321	1241	2
238	436192	14795699	11177018	3618681	.621	.617	3.17	111231	4	2311	2	1211	2	11	21211	231	1231	2
239	437036	14891669	11169367	3722302	.618	.618	3.18	111231	4	2311	2	2211	2	11	21211	221	1241	2
240	437045	14913665	11189041	3724624	.617	.618	3.19	112231	4	2311	2	1211	2	11	21211	221	1141	2
241	438425	14916734	11097229	3819505	.616	.620	3.18	112231	4	2311	2	1211	2	11	21211	221	1231	2
242	438952	15058789	11183576	3875213	.616	.621	3.21	112231	4	2311	2	1211	2	11	21211	321	1231	2
243	439777	15107772	11462291	3645481	.624	.622	3.21	111231	4	2311	2	1211	2	11	21211	231	1241	2
244	440996	15202661	11269923	3932738	.617	.623	3.22	112231	4	2311	2	2211	2	11	21211	221	1231	2
245	442010	15228808	11382502	3846306	.620	.625	3.22	112231	4	2311	2	1211	2	11	21211	221	1241	2
246	442537	15370863	11468849	3902014	.620	.626	3.25	112231	4	2311	2	1211	2	11	21211	321	1241	2
247	443737	15418764	11562847	3855917	.624	.627	3.25	112231	4	2311	2	1211	2	11	21211	231	1231	2
248	444581	15514734	11555196	3959538	.621	.629	3.26	112231	4	2311	2	2211	2	11	21211	221	1241	2
249	445109	15656789	11641543	4015246	.621	.629	3.29	112231	4	2311	2	2211	2	11	21211	321	1241	2
250	446308	15704690	11735541	3969149	.625	.631	3.29	112231	4	2311	2	2211	2	11	21211	231	1231	2
251	447322	15730837	11848120	3882717	.627	.632	3.29	112231	4	2311	2	1211	2	11	21211	231	1241	2
252	447636	15872559	11934467	3938092	.628	.633	3.31	112231	4	2311	2	1211	2	11	21211	331	1241	2
253	447734	15991839	12003326	3988513	.628	.633	3.34	112231	4	2311	2	1211	2	11	21211	431	1241	2
254	449893	16016763	12020814	3995949	.629	.636	3.33	112231	4	2311	2	2211	2	11	21211	231	1241	2
255	450208	16158486	12107161	4051325	.629	.637	3.35	112231	4	2311	2	2211	2	11	21211	331	1241	2
256	450305	16277765	12176020	4101745	.629	.637	3.38	112231	4	2311	2	2211	2	11	21211	431	1241	2
257	451155	16305169	12291878	4013291	.630	.638	3.38	112231	4	2311	2	2211	2	11	21211	231	1251	2
258	451635	16329060	12255809	4073251	.632	.639	3.38	112231	4	2311	2	2211	2	11	21211	231	2241	2
259	451950	16470782	12342156	4128626	.632	.639	3.41	112231	4	2311	2	2211	2	11	21211	331	2241	2
260	452966	16550129	12118091	4432038	.637	.640	3.41	112231	4	2311	2	1212	2	11	21211	231	1231	2
261	452982	16672469	12172741	4499728	.636	.640	3.44	112231	4	2311	2	1212	2	11	21211	221	2241	2
262	453281	16691851	12204438	4487413	.637	.641	3.44	112231	4	2311	2	1212	2	11	21211	331	1231	2
263	453790	16718046	12317017	4401029	.640	.642	3.44	112231	4	2311	2	1212	2	11	21211	131	1241	2
264	454252	16834406	12290785	4543621	.638	.642	3.46	112231	4	2311	2	2212	2	11	21211	231	1231	2
265	456551	16862202	12403364	4458838	.641	.645	3.45	112231	4	2311	2	1212	2	11	21211	231	1241	2
266	456866	17003924	12489711	4514213	.641	.646	3.48	112231	4	2311	2	1212	2	11	21211	331	1241	2
267	456963	17123204	12558570	4564634	.641	.646	3.50	112231	4	2311	2	1212	2	11	21211	431	1241	2
268	457837	17146479	12576058	4570421	.641	.647	3.50	112231	4	2311	2	2212	2	11	21211	231	1241	2
269	458293	17174498	12638359	4536139	.644	.648	3.50	112231	4	2311	2	1212	2	11	21211	231	2241	2
270	458316	17209588	13079931	4129657	.642	.648	3.51	112231	4	2311	2	1121	2	11	21211	231	1241	2
271	458608	17316221	12724706	4591515	.644	.648	3.53	112231	4	2311	2	1212	2	11	21211	331	2241	2
272	458630	17351310	13166278	4185032	.643	.648	3.54	112231	4	2311	2	1121	2	11	21211	331	1241	2
273	458710	17395571	13208905	4186666	.643	.649	3.54	112231	4	2311	2	1131	2	11	21211	321	1241	2
274	459099	17434885	12847122	4587763	.643	.649	3.55	112231	4	2311	2	2212	2	11	21211	231	1251	2
275	459910	17443472	13302903	4140569	.647	.650	3.54	112231	4	2311	2	1131	2	11	21211	231	1231	2
276	460553	17459238	13250439	4208799	.646	.651	3.54	112231	4	2311	2	1221	2	11	21211	231	1241	2
277	460868	17600960	13336786	4264174	.646	.652	3.57	112231	4	2311	2	1221	2	11	21211	331	1241	2
278	460966	17720240	13405645	4314595	.646	.652	3.59	112231	4	2311	2	1221	2	11	21211	431	1241	2
279	461282	17742862	13423133	4319729	.646	.652	3.59	112231	4	2311	2	2221	2	11	21211	231	1241	2
280	461816	17747643	13521503	4226140	.647	.653	3.59	112231	4	2311	2	1221	2	11	21211	231	1251	2
281	463495	17755545	13588176	4167369	.651	.655	3.58	112231	4	2311	2	1131	2	11	21211	231	1241	2
282	463809	17897268	13674523	4222745	.651	.656	3.61	112231	4	2311	2	1131	2	11	21211	331	1241	2
283	464180	17999417	13758684	4240733	.652	.656	3.62	112231	4	2311	2	1231	2	11	21211	231	1241	2
284	464258	18039157	13895309	4143848	.654	.656	3.63	112231	4	1321	2	1211	2	11	21211	231	1241	2
285	464757	18043951	13859240	4184711	.652	.657	3.63	112231	4	2311	2	1131	2	11	21211	231	1251	2
286	465237	18067842	13823171	4244671	.654	.658	3.63	112231	4	2311	2	1131	2	11	21211	231	2241	2
287	465637	18126544	13944494	4182050	.654	.658	3.64	112231	4	1221	2	2211	2	11	21211	231	1241	2
288	465952	18268266	14030841	4237425	.654	.659	3.66	112231	4	1221	2	2211	2	11	21211	331	1241	2
289	466829	18325084	14068003	4257081	.655	.660	3.67	112231	4	1321	2	2211	2	11	21211	231	1241	2

958870417

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
290	467121	18410768	14117188	4293580	.654	.660	3.68	112231	4	2221	2	2211	2	11	21211	231	1241	2
291	467380	18438840	14179489	4259351	.657	.661	3.69	112231	4	1221	2	2211	2	11	21211	231	2241	2
292	467436	18552490	14203535	4348955	.655	.661	3.71	112231	4	2221	2	2211	2	11	21211	331	1241	2
293	467694	18580562	14265836	4314726	.657	.661	3.71	112231	4	1221	2	2211	2	11	21211	331	2241	2
294	468123	18609081	14240697	4368384	.656	.662	3.72	112231	4	2321	2	2211	2	11	21211	231	1241	2
295	468572	18637380	14302998	4334382	.658	.662	3.72	112231	4	1321	2	2211	2	11	21211	231	2241	2
296	468711	18659909	14041771	4618138	.662	.663	3.72	112231	4	1221	2	1212	2	11	21211	231	1231	2
297	468864	18723064	14352183	4370881	.657	.663	3.73	112231	4	2221	2	2211	2	11	21211	231	2241	2
298	468886	18779102	14389345	4389757	.658	.663	3.74	112231	4	1321	2	2211	2	11	21211	331	2241	2
299	469025	18801631	14128118	4673513	.662	.663	3.75	112231	4	1221	2	1212	2	11	21211	331	1231	2
300	469535	18827826	14240697	4587129	.665	.664	3.75	112231	4	1221	2	1212	2	11	21211	131	1241	2
301	469903	18858449	14165280	4693169	.663	.664	3.75	112231	4	1321	2	1212	2	11	21211	231	1231	2
302	470195	18944133	14214465	4729668	.663	.665	3.77	112231	4	2221	2	1212	2	11	21211	231	1231	2
303	472296	18971983	14327044	4644939	.666	.668	3.75	112231	4	1221	2	1212	2	11	21211	231	1241	2
304	472610	19113705	14413391	4700314	.666	.668	3.78	112231	4	1221	2	1212	2	11	21211	331	1241	2
305	473488	19170523	14450553	4719970	.667	.669	3.78	112231	4	1321	2	1212	2	11	21211	231	1241	2
306	473780	19256207	14499738	4756469	.666	.670	3.80	112231	4	2221	2	1212	2	11	21211	231	1241	2
307	474038	19284279	14562039	4722240	.669	.670	3.80	112231	4	1221	2	1212	2	11	21211	231	2241	2
308	474060	19319368	15003611	4315757	.668	.670	3.81	112231	4	1221	2	1121	2	11	21211	231	1241	2
309	474095	19397929	14586085	4811844	.666	.670	3.82	112231	4	2221	2	1212	2	11	21211	331	1241	2
310	474353	19426001	14648386	4777615	.669	.671	3.83	112231	4	1221	2	1212	2	11	21211	331	2241	2
311	474375	19442952	14691013	4751939	.672	.671	3.83	112231	4	2311	2	1211	2	41	21211	321	1231	2
312	474781	19454520	14623247	4831273	.668	.671	3.83	112231	4	2321	2	1212	2	11	21211	231	1241	2
313	475230	19482819	14685548	4797271	.670	.672	3.83	112231	4	1321	2	1212	2	11	21211	231	2241	2
314	475252	19517908	15127120	4390788	.669	.672	3.84	112231	4	1321	2	1121	2	11	21211	231	1241	2
315	476045	19531650	14814522	4717128	.674	.673	3.83	112231	4	2311	2	1211	2	31	21211	231	1241	2
316	476298	19569018	15174119	4394899	.671	.673	3.84	112231	4	1221	2	1221	2	11	21211	231	1241	2
317	476419	19586823	14777360	4809463	.673	.674	3.84	112231	4	2311	2	2211	2	41	21211	221	1231	2
318	477433	19612970	14889939	4723031	.675	.675	3.84	112231	4	2311	2	1211	2	41	21211	221	1241	2
319	477960	19755025	14976286	4778739	.676	.676	3.86	112231	4	2311	2	1211	2	41	21211	321	1241	2
320	479160	19802926	15070284	4732642	.679	.677	3.86	112231	4	2311	2	1211	2	41	21211	231	1231	2
321	479239	19865326	15511856	4353470	.676	.678	3.87	112231	4	1221	2	1131	2	11	21211	231	1241	2
322	480004	19898896	15062633	4836263	.677	.679	3.87	112231	4	2311	2	2211	2	41	21211	221	1241	2
323	480532	20040951	15148980	4891971	.677	.679	3.90	112231	4	2311	2	2211	2	41	21211	321	1241	2
324	481731	20088852	15242978	4845874	.681	.681	3.90	112231	4	2311	2	2211	2	41	21211	231	1231	2
325	482745	20114999	15355557	4759442	.683	.683	3.89	112231	4	2311	2	1211	2	41	21211	231	1241	2
326	483059	20256722	15441904	4814818	.683	.683	3.92	112231	4	2311	2	1211	2	41	21211	331	1241	2
327	483157	20376001	15510763	4865238	.683	.683	3.94	112231	4	2311	2	1211	2	41	21211	431	1241	2
328	485316	20400926	15528251	4872675	.684	.686	3.93	112231	4	2311	2	2211	2	41	21211	231	1241	2
329	485631	20542648	15614598	4928050	.685	.687	3.95	112231	4	2311	2	2211	2	41	21211	331	1241	2
330	485728	20661927	15683457	4978470	.685	.687	3.98	112231	4	2311	2	2211	2	41	21211	431	1241	2
331	486578	20689331	15799315	4890016	.686	.688	3.97	112231	4	2311	2	2211	2	41	21211	231	1251	2
332	487058	20713222	15763246	4949976	.687	.689	3.97	112231	4	2311	2	2211	2	41	21211	231	2241	2
333	487806	20730142	15838663	4891479	.687	.690	3.97	112231	4	2311	2	2211	2	51	21211	231	1241	2
334	488121	20871864	15925010	4946854	.687	.690	4.00	112231	4	2311	2	2211	2	51	21211	331	1241	2
335	488389	20934291	15625528	5308763	.693	.690	4.01	112231	4	2311	2	1212	2	41	21211	231	1231	2
336	489068	21018547	16109727	4908820	.688	.691	4.02	112231	4	2311	2	2211	2	51	21211	231	1251	2
337	489548	21042438	16073658	4968780	.690	.692	4.02	112231	4	2311	2	2211	2	51	21211	231	2241	2
338	489863	21184161	16160005	5024156	.690	.693	4.04	112231	4	2311	2	2211	2	51	21211	331	2241	2
339	491974	21246365	15910801	5335564	.696	.696	4.04	112231	4	2311	2	1212	2	41	21211	231	1241	2
340	492289	21388087	15997148	5390939	.696	.696	4.06	112231	4	2311	2	1212	2	41	21211	331	1241	2
341	492386	21507366	16066007	5441359	.696	.696	4.08	112231	4	2311	2	1212	2	41	21211	431	1241	2
342	493260	21530642	16083495	5447147	.697	.697	4.08	112231	4	2311	2	2212	2	41	21211	231	1241	2
343	493716	21558661	16145796	5412865	.699	.698	4.08	112231	4	2311	2	1212	2	41	21211	231	2241	2
344	494464	21575581	16221213	5354368	.699	.699	4.08	112231	4	2311	2	1212	2	51	21211	231	1241	2
345	494779	21717303	16307560	5409743	.699	.700	4.10	112231	4	2311	2	1212	2	51	21211	331	1241	2
346	495333	21827634	16810340	5017294	.703	.700	4.12	112231	4	2311	2	1131	2	41	21211	231	1231	2
347	495976	21843400	16757876	5085524	.701	.701	4.12	112231	4	2311	2	1221	2	41	21211	231	1241	2
348	496206	21887877	16456208	5431669	.702	.702	4.12	112231	4	2311	2	1212	2	51	21211	231	2241	2

TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870418

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
349	496229	21972967	16897780	5025187	.701	.702	4.13	112231	4	2311	2	1121	2	51	21211	231	1241	2
350	496291	21985122	16844223	5140899	.701	.702	4.14	112231	4	2311	2	1221	2	41	21211	331	1241	2
351	496521	22029594	16542555	5487044	.702	.702	4.15	112231	4	2311	2	1212	2	51	21211	331	2241	2
352	496543	22064689	16984127	5080562	.701	.702	4.15	112231	4	2311	2	1121	2	51	21211	331	1241	2
353	496623	22108950	17026754	5082196	.702	.702	4.16	112231	4	2311	2	1131	2	51	21211	321	1241	2
354	496705	22127024	16930570	5196454	.702	.702	4.16	112231	4	2311	2	2221	2	41	21211	231	1241	2
355	497239	22131805	17028940	5102865	.703	.703	4.16	112231	4	2311	2	1221	2	41	21211	231	1251	2
356	498918	22139708	17095613	5044095	.707	.705	4.15	112231	4	2311	2	1131	2	41	21211	231	1241	2
357	499232	22281430	17181960	5099470	.707	.706	4.17	112231	4	2311	2	1131	2	41	21211	331	1241	2
358	499603	22383579	17266121	5117458	.707	.706	4.19	112231	4	2311	2	1231	2	41	21211	231	1241	2
359	499681	22423320	17402746	5020574	.710	.706	4.19	112231	4	1321	2	1211	2	41	21211	231	1241	2
360	500180	22428113	17366677	5061436	.708	.707	4.19	112231	4	2311	2	1131	2	41	21211	231	1251	2
361	500660	22452004	17330608	5121396	.710	.708	4.19	112231	4	2311	2	1131	2	41	21211	231	2241	2
362	501408	22468924	17406025	5062899	.709	.709	4.19	112231	4	2311	2	1131	2	51	21211	231	1241	2
363	501722	22610646	17492372	5118274	.709	.709	4.21	112231	4	2311	2	1131	2	51	21211	331	1241	2
364	502252	22709246	17575440	5133806	.711	.710	4.23	112231	4	1321	2	2211	2	41	21211	231	1241	2
365	502670	22757329	17677089	5080240	.710	.711	4.23	112231	4	2311	2	1131	2	51	21211	231	1251	2
366	503150	22781220	17641020	5140200	.712	.711	4.23	112231	4	2311	2	1131	2	51	21211	231	2241	2
367	503550	22839922	17762343	5077579	.712	.712	4.24	112231	4	1221	2	2211	2	51	21211	231	1241	2
368	503865	22981645	17848690	5132955	.712	.712	4.26	112231	4	1221	2	2211	2	51	21211	331	1241	2
369	503995	23021542	17810435	5211107	.714	.713	4.27	112231	4	1321	2	2211	2	41	21211	231	2241	2
370	504742	23038462	17885852	5152610	.714	.714	4.27	112231	4	1321	2	2211	2	51	21211	231	1241	2
371	505034	23124147	17935037	5189110	.713	.714	4.28	112231	4	2221	2	2211	2	51	21211	231	1241	2
372	505293	23152219	17997338	5154881	.715	.714	4.28	112231	4	1221	2	2211	2	51	21211	231	2241	2
373	505326	23242611	17672717	5569894	.719	.714	4.30	112231	4	1321	2	1212	2	41	21211	231	1231	2
374	505349	23265869	18021384	5244485	.713	.714	4.30	112231	4	2221	2	2211	2	51	21211	331	1241	2
375	505607	23293941	18083685	5210256	.715	.715	4.31	112231	4	1221	2	2211	2	51	21211	331	2241	2
376	506036	23322460	18058546	5263914	.714	.715	4.31	112231	4	2321	2	2211	2	51	21211	231	1241	2
377	506485	23350759	18120847	5229912	.717	.716	4.31	112231	4	1321	2	2211	2	51	21211	231	2241	2
378	507719	23356145	17834481	5521664	.721	.718	4.30	112231	4	1221	2	1212	2	41	21211	231	1241	2
379	508033	23497867	17920828	5577039	.721	.718	4.32	112231	4	1221	2	1212	2	41	21211	331	1241	2
380	508911	23554685	17957990	5596695	.723	.719	4.33	112231	4	1321	2	1212	2	41	21211	231	1241	2
381	509203	23640369	18007175	5633194	.722	.720	4.34	112231	4	2221	2	1212	2	41	21211	231	1241	2
382	509461	23668441	18069476	5598965	.724	.720	4.34	112231	4	1221	2	1212	2	41	21211	231	2241	2
383	510209	23685361	18144893	5540468	.724	.721	4.34	112231	4	1221	2	1212	2	51	21211	231	1241	2
384	510523	23827083	18231240	5595843	.724	.722	4.36	112231	4	1221	2	1212	2	51	21211	331	1241	2
385	510653	23866981	18192985	5673996	.726	.722	4.37	112231	4	1321	2	1212	2	41	21211	231	2241	2
386	511401	23883901	18268402	5615499	.725	.723	4.36	112231	4	1321	2	1212	2	51	21211	231	1241	2
387	511721	23953180	18681556	5271624	.726	.723	4.37	112231	4	1221	2	1221	2	41	21211	231	1241	2
388	511951	23997657	18379888	5617769	.727	.724	4.38	112231	4	1221	2	1212	2	51	21211	231	2241	2
389	511973	24032747	18821460	5211287	.726	.724	4.39	112231	4	1221	2	1121	2	51	21211	231	1241	2
390	512036	24094903	18767903	5327000	.727	.724	4.40	112231	4	1221	2	1221	2	41	21211	331	1241	2
391	512269	24135955	18857529	5278426	.729	.724	4.40	112231	4	1321	2	1131	2	41	21211	231	1231	2
392	512913	24151720	18805065	5346655	.728	.725	4.40	112231	4	1321	2	1221	2	41	21211	231	1241	2
393	513143	24196197	18503397	5692800	.728	.725	4.41	112231	4	1321	2	1212	2	51	21211	231	2241	2
394	513165	24231287	18944969	5286318	.727	.726	4.41	112231	4	1321	2	1121	2	51	21211	231	1241	2
395	513205	24237405	18854250	5383155	.727	.726	4.41	112231	4	2221	2	1221	2	41	21211	231	1241	2
396	514662	24249488	19019293	5230195	.732	.728	4.40	112231	4	1221	2	1131	2	41	21211	231	1241	2
397	514977	24391210	19105640	5285570	.732	.728	4.43	112231	4	1221	2	1131	2	41	21211	331	1241	2
398	515854	24448028	19142802	5305226	.733	.729	4.43	112231	4	1321	2	1131	2	41	21211	231	1241	2
399	516146	24533712	19191987	5341725	.732	.730	4.44	112231	4	2221	2	1131	2	41	21211	231	1241	2
400	516404	24561784	19254288	5307496	.735	.730	4.45	112231	4	1221	2	1131	2	41	21211	231	2241	2
401	517152	24578704	19329705	5248999	.734	.731	4.44	112231	4	1221	2	1131	2	51	21211	231	1241	2
402	517467	24720427	19416052	5304375	.734	.732	4.46	112231	4	1221	2	1131	2	51	21211	331	1241	2
403	517596	24760324	19377797	5382527	.736	.732	4.47	112231	4	1321	2	1131	2	41	21211	231	2241	2
404	518344	24777244	19453214	5324030	.736	.733	4.47	112231	4	1321	2	1131	2	51	21211	231	1241	2
405	518636	24862929	19502399	5360530	.735	.733	4.48	112231	4	2221	2	1131	2	51	21211	231	1241	2
406	518894	24891001	19564700	5326301	.737	.734	4.48	112231	4	1221	2	1131	2	51	21211	231	2241	2
407	518951	25004651	19588746	5415905	.735	.734	4.50	112231	4	2221	2	1131	2	51	21211	[illegible]	[illegible]	[illegible]

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870419

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
408	519029	25021116	19623722	5397394	.737	.734	4.51	112231	4	1321	2	1231	2	51	21211	231	1241	2
409	519209	25032723	19651047	5381676	.737	.734	4.51	112231	4	1221	2	1131	2	51	21211	331	2241	2
410	519638	25061242	19625908	5435334	.736	.735	4.51	112231	4	2321	2	1131	2	51	21211	231	1241	2
411	520086	25089541	19688209	5401332	.739	.735	4.51	112231	4	1321	2	1131	2	51	21211	231	2241	2
412	520378	25175225	19737394	5437831	.738	.736	4.52	112231	4	2221	2	1131	2	51	21211	231	2241	2
413	520401	25231263	19774556	5456707	.739	.736	4.53	112231	4	1321	2	1131	2	51	21211	331	2241	2
414	520693	25316947	19823741	5493206	.738	.736	4.54	112231	4	2221	2	1131	2	51	21211	331	2241	2
415	520772	25333412	19858717	5474695	.740	.736	4.55	112231	4	1321	2	1231	2	51	21211	231	2241	2
416	520900	25349647	19896972	5452675	.737	.736	4.55	112231	4	2321	2	1131	2	51	21211	231	1251	2
417	521380	25373538	19860903	5512635	.739	.737	4.55	112231	4	2321	2	1131	2	51	21211	231	2241	2
418	521397	25462858	20008458	5454400	.739	.737	4.56	112231	4	2221	2	1131	2	51	21211	231	2251	2
419	521695	25515260	19947250	5568010	.739	.738	4.57	112231	4	2321	2	1131	2	51	21211	331	2241	2
420	521711	25604580	20094805	5509775	.739	.738	4.59	112231	4	2221	2	1131	2	51	21211	331	2251	2
421	522066	25617410	20031411	5585999	.740	.738	4.59	112231	4	2321	2	1231	2	51	21211	231	2241	2
422	522398	25661171	20131967	5529204	.740	.739	4.59	112231	4	2321	2	1131	2	51	21211	231	2251	2
423	522785	25697108	19821555	5875553	.747	.739	4.59	112231	4	1221	2	1212	2	41	21221	231	1241	2
424	523100	25838830	19907902	5930928	.747	.740	4.62	112231	4	1221	2	1212	2	41	21221	331	1241	2
425	523977	25895648	19945064	5950584	.749	.741	4.62	112231	4	1321	2	1212	2	41	21221	231	1241	2
426	524002	25976272	20433635	5542637	.748	.741	4.63	112231	4	1221	2	1221	2	41	21121	231	1241	2
427	524269	25981332	19994249	5987083	.748	.741	4.63	112231	4	2221	2	1212	2	41	21221	231	1241	2
428	524527	26009404	20056550	5952854	.750	.742	4.63	112231	4	1221	2	1212	2	41	21221	231	2241	2
429	525275	26026324	20131967	5894357	.750	.743	4.63	112231	4	1221	2	1212	2	51	21221	231	1241	2
430	525590	26168047	20218314	5949733	.750	.743	4.65	112231	4	1221	2	1212	2	51	21221	331	1241	2
431	525719	26207944	20180059	6027885	.752	.743	4.66	112231	4	1321	2	1212	2	41	21221	231	2241	2
432	526467	26224864	20255476	5969388	.751	.744	4.66	112231	4	1321	2	1212	2	51	21221	231	1241	2
433	526943	26272580	20771372	5501208	.753	.745	4.66	112231	4	1221	2	1131	2	41	21121	231	1241	2
434	527017	26338621	20366962	5971659	.753	.745	4.67	112231	4	1221	2	1212	2	51	21221	231	2241	2
435	527040	26373710	20808534	5565176	.752	.745	4.68	112231	4	1221	2	1121	2	51	21221	231	1241	2
436	527258	26414302	20857719	5556583	.753	.745	4.68	112231	4	1221	2	1131	2	41	21121	331	1241	2
437	528135	26471120	20894881	5576239	.754	.747	4.68	112231	4	1321	2	1131	2	41	21121	231	1241	2
438	528209	26537161	20490471	6046690	.754	.747	4.70	112231	4	1321	2	1212	2	51	21221	231	2241	2
439	528427	26556804	20944066	5612738	.753	.747	4.70	112231	4	2221	2	1131	2	41	21121	231	1241	2
440	528686	26584876	21006367	5578509	.756	.747	4.70	112231	4	1221	2	1131	2	41	21121	231	2241	2
441	529729	26590451	21006367	5584084	.757	.749	4.69	112231	4	1221	2	1131	2	41	21221	231	1241	2
442	530044	26732173	21092714	5639459	.758	.749	4.71	112231	4	1221	2	1131	2	41	21221	331	1241	2
443	530921	26788991	21129876	5659115	.759	.751	4.72	112231	4	1321	2	1131	2	41	21221	231	1241	2
444	531213	26874675	21179061	5695614	.758	.751	4.73	112231	4	2221	2	1131	2	41	21221	231	1241	2
445	531471	26902747	21241362	5661385	.760	.751	4.73	112231	4	1221	2	1131	2	41	21221	231	2241	2
446	532219	26919668	21316779	5602889	.760	.752	4.73	112231	4	1221	2	1131	2	51	21221	231	1241	2
447	532534	27061390	21403126	5658264	.760	.753	4.75	112231	4	1221	2	1131	2	51	21221	331	1241	2
448	532663	27101287	21364871	5736416	.762	.753	4.76	112231	4	1321	2	1131	2	41	21221	231	2241	2
449	533411	27118208	21440288	5677920	.761	.754	4.75	112231	4	1321	2	1131	2	51	21221	231	1241	2
450	533703	27203892	21489473	5714419	.761	.755	4.76	112231	4	2221	2	1131	2	51	21221	231	1241	2
451	533961	27231964	21551774	5680190	.763	.755	4.77	112231	4	1221	2	1131	2	51	21221	231	2241	2
452	534018	27345614	21575820	5769794	.761	.755	4.79	112231	4	2221	2	1131	2	51	21221	331	1241	2
453	534105	27361747	21736491	5625256	.763	.755	4.79	112231	4	1321	2	1131	2	51	21131	231	1241	2
454	534276	27373686	21638121	5735565	.763	.755	4.79	112231	4	1221	2	1131	2	51	21221	331	2241	2
455	534705	27402205	21612982	5789223	.762	.756	4.79	112231	4	2321	2	1131	2	51	21221	231	1241	2
456	535153	27430504	21675283	5755221	.764	.757	4.79	112231	4	1321	2	1131	2	51	21221	231	2241	2
457	535445	27516188	21724468	5791720	.764	.757	4.80	112231	4	2221	2	1131	2	51	21221	231	2241	2
458	535468	27572226	21761630	5810596	.765	.757	4.81	112231	4	1321	2	1131	2	51	21221	331	2241	2
459	535760	27657910	21810815	5847095	.764	.757	4.82	112231	4	2221	2	1131	2	51	21221	331	2241	2
460	535847	27674043	21971486	5702557	.766	.758	4.83	112231	4	1321	2	1131	2	51	21131	231	2241	2
461	536059	27675863	21971486	5704377	.766	.758	4.83	112231	4	1321	2	1131	2	51	21231	231	1241	2
462	536447	27714501	21847977	5866524	.765	.758	4.83	112231	4	2321	2	1131	2	51	21221	231	2241	2
463	536609	27789619	22082972	5706647	.768	.759	4.84	112231	4	1221	2	1131	2	51	21231	231	2241	2
464	536762	27856224	21934324	5921900	.765	.759	4.85	112231	4	2321	2	1131	2	51	21221	331	2241	2
465	536924	27931342	22169319	5762023	.768	.759	4.86	112231	4	1221	2	1131	2	51	21231	331	2241	2
466	537141	27958041	22144180	5813861	.767	.759	4.86	112231	4	2321	2	1131	2	51	21131	231	2241	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870420

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
467	537353	27959861	22144180	5815681	.767	.760	4.86	112231	4	2321	2	1131	2	51	21231	231	1241	2
468	537801	27988159	22206481	5781678	.769	.760	4.86	112231	4	1321	2	1131	2	51	21231	231	2241	2
469	538093	28073844	22255666	5818178	.768	.761	4.88	112231	4	2221	2	1131	2	51	21231	231	2241	2
470	538116	28129882	22292828	5837054	.769	.761	4.89	112231	4	1321	2	1131	2	51	21231	331	2241	2
471	538408	28215566	22342013	5873553	.768	.761	4.90	112231	4	2221	2	1131	2	51	21231	331	2241	2
472	538487	28232031	22376989	5855042	.770	.761	4.90	112231	4	1321	2	1231	2	51	21231	231	2241	2
473	538615	28248266	22415244	5833022	.768	.761	4.90	112231	4	2321	2	1131	2	51	21231	231	1251	2
474	539095	28272157	22379175	5892982	.770	.762	4.90	112231	4	2321	2	1131	2	51	21231	231	2241	2
475	539112	28361477	22526730	5834747	.769	.762	4.92	112231	4	2221	2	1131	2	51	21231	231	2251	2
476	539410	28413879	22465522	5948357	.770	.763	4.92	112231	4	2321	2	1131	2	51	21231	331	2241	2
477	539520	28437717	22650239	5787478	.770	.763	4.93	112241	4	1321	2	1131	2	51	21221	231	2241	2
478	539781	28516029	22549683	5966346	.770	.763	4.94	112231	4	2321	2	1231	2	51	21231	231	2241	2
479	539812	28523401	22699424	5823977	.769	.763	4.94	112241	4	2221	2	1131	2	51	21221	231	2241	2
480	540113	28559790	22650239	5909551	.771	.764	4.94	112231	4	2321	2	1131	2	51	21231	231	2251	2
481	540127	28665124	22785771	5879353	.769	.764	4.96	112241	4	2221	2	1131	2	51	21221	331	2241	2
482	540214	28681256	22946442	5734814	.772	.764	4.96	112241	4	1321	2	1131	2	51	21131	231	2241	2
483	540426	28683077	22946442	5736635	.772	.764	4.96	112241	4	1321	2	1131	2	51	21231	231	1241	2
484	540428	28701512	22736586	5964926	.771	.764	4.96	112231	4	2321	2	1131	2	51	21231	331	2251	2
485	540813	28721715	22822933	5898782	.771	.765	4.96	112241	4	2321	2	1131	2	51	21221	231	2241	2
486	540976	28796833	23057928	5738905	.773	.765	4.97	112241	4	1221	2	1131	2	51	21231	231	2241	2
487	540977	28860628	22936605	5924023	.771	.765	4.99	112231	4	2321	2	1131	2	51	21241	231	2251	2
488	541128	28863437	22909280	5954157	.771	.765	4.98	112241	4	2321	2	1131	2	51	21221	331	2241	2
489	541291	28938555	23144275	5794280	.773	.765	5.00	112241	4	1221	2	1131	2	51	21231	331	2241	2
490	541508	28965254	23119136	5846118	.772	.766	5.00	112241	4	2321	2	1131	2	51	21131	231	2241	2
491	541720	28967075	23119136	5847939	.772	.766	5.00	112241	4	2321	2	1131	2	51	21231	231	1241	2
492	542168	28995373	23181437	5813936	.775	.767	5.00	112241	4	1321	2	1131	2	51	21231	231	2241	2
493	542460	29081057	23230622	5850435	.774	.767	5.01	112241	4	2221	2	1131	2	51	21231	231	2241	2
494	542483	29137095	23267784	5869311	.775	.767	5.02	112241	4	1321	2	1131	2	51	21231	331	2241	2
495	542775	29222779	23316969	5905810	.774	.767	5.03	112241	4	2221	2	1131	2	51	21231	331	2241	2
496	542853	29239245	23351945	5887300	.775	.767	5.03	112241	4	1321	2	1231	2	51	21231	231	2241	2
497	542982	29255480	23390200	5865280	.773	.768	5.04	112241	4	2321	2	1131	2	51	21231	231	1251	2
498	543462	29279371	23354131	5925240	.775	.768	5.04	112241	4	2321	2	1131	2	51	21231	231	2241	2
499	543478	29368690	23501686	5867004	.775	.768	5.05	112241	4	2221	2	1131	2	51	21231	231	2251	2
500	543777	29421093	23440478	5980615	.775	.769	5.06	112241	4	2321	2	1131	2	51	21231	331	2241	2
501	543793	29510412	23588033	5922379	.775	.769	5.07	112241	4	2221	2	1131	2	51	21231	331	2251	2
502	544147	29523242	23524639	5998603	.776	.769	5.07	112241	4	2321	2	1231	2	51	21231	231	2241	2
503	544480	29567004	23625195	5941809	.776	.770	5.08	112241	4	2321	2	1131	2	51	21231	231	2251	2
504	544795	29708726	23711542	5997184	.776	.770	5.10	112241	4	2321	2	1131	2	51	21231	331	2251	2
505	545165	29810875	23795703	6015172	.777	.771	5.11	112241	4	2321	2	1231	2	51	21231	231	2251	2
506	545344	29867841	23911561	5956280	.777	.771	5.12	112241	4	2321	2	1131	2	51	21241	231	2251	2
507	545480	29952597	23882050	6070547	.777	.771	5.13	112241	4	2321	2	1231	2	51	21231	331	2251	2
508	545658	30009563	23997908	6011655	.777	.771	5.14	112241	4	2321	2	1131	2	51	21241	331	2251	2
509	546029	30111713	24082069	6029644	.778	.772	5.15	112241	4	2321	2	1231	2	51	21241	231	2251	2
510	546344	30253435	24168416	6085019	.778	.772	5.18	112241	4	2321	2	1231	2	51	21241	331	2251	2
511	546441	30372714	24237275	6135439	.778	.773	5.19	112241	4	2321	2	1231	2	51	21241	431	2251	2
512	546567	30536335	24341110	6195225	.778	.773	5.22	112241	4	2321	2	2231	2	51	21241	331	2251	2
513	546664	30655614	24409969	6245645	.778	.773	5.24	112241	4	2321	2	2231	2	51	21241	431	2251	2
514	546757	30938365	24582663	6355702	.778	.773	5.29	112241	4	3321	2	2231	2	51	21241	431	2251	2
515	546908	31089624	25106210	5983414	.777	.773	5.31	112241	4	1231	2	1131	2	51	21231	231	1251	2
516	547388	31113515	25070141	6043374	.779	.774	5.31	112241	4	1231	2	1131	2	51	21231	231	2241	2
517	547703	31255238	25156488	6098750	.779	.774	5.33	112241	4	1231	2	1131	2	51	21231	331	2241	2
518	547758	31309468	25193650	6115818	.779	.774	5.34	112241	4	1331	2	1131	2	51	21231	231	2241	2
519	548073	31357387	25240649	6116738	.780	.775	5.35	112241	4	1231	2	1231	2	51	21231	231	2241	2
520	548406	31401148	25341205	6059943	.780	.775	5.35	112241	4	1231	2	1131	2	51	21231	231	2251	2
521	548721	31542871	25427552	6115319	.780	.776	5.37	112241	4	1231	2	1131	2	51	21231	331	2251	2
522	548776	31597101	25464714	6132387	.780	.776	5.38	112241	4	1331	2	1131	2	51	21231	231	2251	2
523	549091	31645020	25511713	6133307	.781	.776	5.39	112241	4	1231	2	1231	2	51	21231	231	2251	2
524	549269	31701986	25627571	6074415	.781	.777	5.39	112241	4	1231	2	1131	2	51	21241	231	2251	2
525	549406	31786742	25598060	6188682	.781	.777	5.41	112241	4	1231	2	1231	2	51	21231	331	2251	2
526	549461	31840972	25635222	6205750	.781	.777	5.42	112241	4	1331	2	1231	2	51	21231	231	2251	2

TABLE VII-6
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870421

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
527	549584	31843708	25713918	6129790	.781	.777	5.42	112241	4	1231	2	1131	2	51	21241	331	2251	2
528	549640	31897938	25751080	6146858	.781	.777	5.42	112241	4	1331	2	1131	2	51	21241	231	2251	2
529	549955	31945857	25798079	6147778	.782	.778	5.43	112241	4	1231	2	1231	2	51	21241	231	2251	2
530	550270	32087579	25884426	6203153	.782	.778	5.45	112241	4	1231	2	1231	2	51	21241	331	2251	2
531	550325	32141810	25921588	6220222	.782	.778	5.46	112241	4	1331	2	1231	2	51	21241	231	2251	2
532	550367	32206859	25953285	6253574	.782	.778	5.47	112241	4	1231	2	1231	2	51	21241	431	2251	2
533	550416	32229089	25970773	6258316	.782	.778	5.47	112241	4	2231	2	1231	2	51	21241	231	2251	2
534	550640	32283532	26007935	6275597	.782	.778	5.48	112241	4	1331	2	1231	2	51	21241	331	2251	2
535	550730	32370811	26057120	6313691	.782	.779	5.49	112241	4	2231	2	1231	2	51	21241	331	2251	2
536	550737	32402811	26076794	6326017	.782	.779	5.50	112241	4	1331	2	1231	2	51	21241	431	2251	2
537	550828	32490091	26125979	6364112	.782	.779	5.51	112241	4	2231	2	1231	2	51	21241	431	2251	2
538	550863	32566432	26180629	6385803	.782	.779	5.53	112241	4	1331	2	2231	2	51	21241	331	2251	2
539	551042	32566677	26180629	6386048	.782	.779	5.52	112241	4	2331	2	1231	2	51	21241	331	2251	2
540	551070	32669703	26563179	6106524	.783	.779	5.54	112241	4	1241	2	1131	2	51	21241	231	2251	2
541	551139	32685957	26249488	6436469	.783	.779	5.54	112241	4	2331	2	1231	2	51	21241	431	2251	2
542	551206	32754459	26533668	6220791	.783	.779	5.55	112241	4	1241	2	1231	2	51	21231	331	2251	2
543	551385	32811425	26649526	6161899	.783	.780	5.56	112241	4	1241	2	1131	2	51	21241	331	2251	2
544	551755	32913575	26733687	6179888	.784	.780	5.57	112241	4	1241	2	1231	2	51	21241	231	2251	2
545	552070	33055297	26820034	6235263	.784	.781	5.60	112241	4	1241	2	1231	2	51	21241	331	2251	2
546	552167	33174576	26888893	6285683	.784	.781	5.62	112241	4	1241	2	1231	2	51	21241	431	2251	2
547	552209	33250071	26943543	6306528	.785	.781	5.63	112241	4	1341	2	1231	2	51	21241	331	2251	2
548	552243	33338133	26992728	6345405	.784	.781	5.64	112241	4	2241	2	1231	2	51	21241	331	2251	2
549	552293	33338197	26992728	6345469	.784	.781	5.64	112241	4	1241	2	2231	2	51	21241	331	2251	2
550	552307	33369351	27012402	6356949	.785	.781	5.65	112241	4	1341	2	1231	2	51	21241	431	2251	2
551	552342	33422260	26405787	7016473	.784	.781	5.66	112241	4	1231	2	1131	2	51	21231	232	2251	2
552	552390	33457476	27061587	6395889	.784	.781	5.66	112241	4	1241	2	2231	2	51	21241	431	2251	2
553	552432	33532971	27116237	6416734	.785	.781	5.67	112241	4	1341	2	2231	2	51	21241	331	2251	2
554	552499	33563779	26492134	7071645	.784	.781	5.68	112241	4	1231	2	1131	2	51	21231	332	2251	2
555	552712	33618213	26529296	7088917	.785	.781	5.68	112241	4	1331	2	1131	2	51	21231	232	2251	2
556	553027	33666132	26576295	7089837	.785	.782	5.69	112241	4	1231	2	1231	2	51	21231	232	2251	2
557	553206	33723098	26692153	7030945	.785	.782	5.70	112241	4	1231	2	1131	2	51	21241	232	2251	2
558	553397	33862084	26699804	7162280	.786	.782	5.72	112241	4	1331	2	1231	2	51	21231	232	2251	2
559	553576	33919050	26815662	7103388	.786	.783	5.73	112241	4	1331	2	1131	2	51	21241	232	2251	2
560	553891	33966969	26862661	7104308	.786	.783	5.73	112241	4	1231	2	1231	2	51	21241	232	2251	2
561	554048	34108487	26949008	7159479	.786	.783	5.75	112241	4	1231	2	1231	2	51	21241	332	2251	2
562	554261	34162922	26986170	7176752	.787	.784	5.76	112241	4	1331	2	1231	2	51	21241	232	2251	2
563	554352	34250201	27035355	7214846	.786	.784	5.77	112241	4	2231	2	1231	2	51	21241	232	2251	2
564	554418	34304440	27072517	7231923	.787	.784	5.78	112241	4	1331	2	1231	2	51	21241	332	2251	2
565	554509	34391719	27121702	7270017	.786	.784	5.80	112241	4	2231	2	1231	2	51	21241	332	2251	2
566	554742	34440914	26776314	7664600	.782	.784	5.80	112241	4	2321	2	1231	2	52	21231	231	2251	2
567	554920	34497880	26892172	7605708	.782	.785	5.81	112241	4	2321	2	1131	2	52	21241	231	2251	2
568	555057	34582636	26862661	7719975	.782	.785	5.82	112241	4	2321	2	1231	2	52	21231	331	2251	2
569	555235	34639602	26978519	7661083	.782	.785	5.83	112241	4	2321	2	1131	2	52	21241	331	2251	2
570	555605	34741751	27062680	7679071	.783	.786	5.84	112241	4	2321	2	1231	2	52	21241	231	2251	2
571	555920	34883473	27149027	7734446	.783	.786	5.86	112241	4	2321	2	1231	2	52	21241	331	2251	2
572	556018	35002753	27217886	7784867	.783	.786	5.88	112241	4	2321	2	1231	2	52	21241	431	2251	2
573	556143	35166373	27321721	7844652	.783	.786	5.91	112241	4	2321	2	2231	2	52	21241	331	2251	2
574	556241	35285652	27390580	7895072	.783	.786	5.93	112241	4	2321	2	2231	2	52	21241	431	2251	2
575	556334	35568404	27563274	8005130	.783	.787	5.98	112241	4	3321	2	2231	2	52	21241	431	2251	2
576	556404	35660989	27910848	7750141	.783	.787	5.99	112241	4	1231	2	1231	2	42	21231	231	2241	2
577	556737	35704751	28011404	7693347	.784	.787	5.99	112241	4	1231	2	1131	2	42	21231	231	2251	2
578	556964	35743554	28050752	7692802	.784	.787	6.00	112241	4	1231	2	1131	2	52	21231	231	2241	2
579	557052	35846473	28097751	7748722	.784	.788	6.01	112241	4	1231	2	1131	2	42	21231	331	2251	2
580	557279	35885276	28137099	7748177	.784	.788	6.02	112241	4	1231	2	1131	2	52	21231	331	2241	2
581	557334	35939506	28174261	7765245	.784	.788	6.03	112241	4	1331	2	1131	2	52	21231	231	2241	2
582	557423	35948622	28181912	7766710	.784	.788	6.03	112241	4	1231	2	1231	2	42	21231	231	2251	2
583	557649	35987425	28221260	7766165	.785	.788	6.03	112241	4	1231	2	1231	2	52	21231	231	2241	2
584	557982	36031187	28321816	7709371	.785	.789	6.03	112241	4	1231	2	1131	2	52	21231	231	2251	2
585	558297	36172909	28408163	7764746	.785	.789	6.06	112241	4	1231	2	1131	2	52	21231	331	2251	2

TABLE VII-6 continued

958870422

WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
586	558352	36227139	28445325	7781814	.785	.789	6.06	112241	4	1331	2	1131	2	52	21231	231	2251	2
587	558668	36275058	28492324	7782734	.786	.790	6.07	112241	4	1231	2	1231	2	52	21231	231	2251	2
588	558846	36332024	28608182	7723842	.786	.790	6.08	112241	4	1231	2	1131	2	52	21241	231	2251	2
589	558982	36416780	28578671	7838109	.786	.790	6.09	112241	4	1231	2	1231	2	52	21231	331	2251	2
590	559038	36471011	28615833	7855178	.786	.790	6.10	112241	4	1331	2	1231	2	52	21231	231	2251	2
591	559161	36473746	28694529	7779217	.786	.791	6.10	112241	4	1231	2	1131	2	52	21241	331	2251	2
592	559216	36527977	28731691	7796286	.786	.791	6.10	112241	4	1331	2	1131	2	52	21241	231	2251	2
593	559531	36575896	28778690	7797206	.787	.791	6.11	112241	4	1231	2	1231	2	52	21241	231	2251	2
594	559846	36717618	28865037	7852581	.787	.792	6.13	112241	4	1231	2	1231	2	52	21241	331	2251	2
595	559901	36771848	28902199	7869649	.787	.792	6.14	112241	4	1331	2	1231	2	52	21241	231	2251	2
596	559944	36836897	28933896	7903001	.787	.792	6.15	112241	4	1231	2	1231	2	52	21241	431	2251	2
597	559992	36859127	28951384	7907743	.787	.792	6.15	112241	4	2231	2	1231	2	52	21241	231	2251	2
598	560216	36913570	28988546	7925024	.787	.792	6.16	112241	4	1331	2	1231	2	52	21241	331	2251	2
599	560307	37000850	29037731	7963119	.787	.792	6.17	112241	4	2231	2	1231	2	52	21241	331	2251	2
600	560314	37032850	29057405	7975445	.787	.792	6.18	112241	4	1331	2	1231	2	52	21241	431	2251	2
601	560404	37120129	29106590	8013539	.787	.792	6.19	112241	4	2231	2	1231	2	52	21241	431	2251	2
602	560439	37196470	29161240	8035230	.787	.792	6.20	112241	4	1331	2	2231	2	52	21241	331	2251	2
603	560618	37196716	29161240	8035476	.788	.793	6.20	112241	4	2331	2	1231	2	52	21241	331	2251	2
604	560646	37299741	29543790	7755951	.788	.793	6.22	112241	4	1241	2	1131	2	52	21241	231	2251	2
605	560716	37315995	29230099	8085896	.788	.793	6.22	112241	4	2331	2	1231	2	52	21241	431	2251	2
606	560783	37384498	29514279	7870219	.789	.793	6.23	112241	4	1241	2	1231	2	52	21231	331	2251	2
607	560961	37441464	29630137	7811327	.789	.793	6.24	112241	4	1241	2	1131	2	52	21241	331	2251	2
608	561331	37543613	29714298	7829315	.789	.794	6.25	112241	4	1241	2	1231	2	52	21241	231	2251	2
609	561646	37685335	29800645	7884690	.789	.794	6.27	112241	4	1241	2	1231	2	52	21241	331	2251	2
610	561744	37804615	29869504	7935111	.789	.794	6.29	112241	4	1241	2	1231	2	52	21241	431	2251	2
611	561786	37880110	29924154	7955956	.790	.794	6.30	112241	4	1341	2	1231	2	52	21241	331	2251	2
612	561820	37968172	29973339	7994833	.789	.794	6.32	112241	4	2241	2	1231	2	52	21241	331	2251	2
613	561869	37968235	29973339	7994896	.789	.794	6.32	112241	4	1241	2	2231	2	52	21241	331	2251	2
614	561883	37999389	29993013	8006376	.790	.794	6.32	112241	4	1341	2	1231	2	52	21241	431	2251	2
615	561918	38052299	29386398	8665901	.789	.794	6.33	112241	4	1231	2	1131	2	52	21231	232	2251	2
616	561967	38087514	30042198	8045316	.790	.795	6.33	112241	4	1241	2	2231	2	52	21241	431	2251	2
617	562009	38163009	30096848	8066161	.790	.795	6.35	112241	4	1341	2	2231	2	52	21241	331	2251	2
618	562016	38193817	29472745	8721072	.789	.795	6.35	112241	4	1231	2	1131	2	52	21231	332	2251	2
619	562289	38248251	29509907	8738344	.790	.795	6.36	112241	4	1331	2	1131	2	52	21231	232	2251	2
620	562604	38296170	29556906	8739264	.790	.795	6.36	112241	4	1231	2	1231	2	52	21231	232	2251	2
621	562782	38353136	29672764	8680372	.790	.796	6.37	112241	4	1231	2	1131	2	52	21241	232	2251	2
622	562974	38492123	29680415	8811708	.791	.796	6.39	112241	4	1331	2	1231	2	52	21231	232	2251	2
623	563152	38549089	29796273	8752816	.791	.796	6.40	112241	4	1331	2	1131	2	52	21241	232	2251	2
624	563467	38597008	29843272	8753736	.791	.797	6.40	112241	4	1231	2	1231	2	52	21241	232	2251	2
625	563625	38738526	29929619	8808907	.791	.797	6.42	112241	4	1231	2	1231	2	52	21241	332	2251	2
626	563838	38792960	29966781	8826179	.792	.797	6.43	112241	4	1331	2	1231	2	52	21241	232	2251	2
627	563928	38880239	30015966	8864273	.791	.797	6.44	112241	4	2231	2	1231	2	52	21241	232	2251	2
628	563995	38934478	30053128	8881350	.792	.797	6.45	112241	4	1331	2	1231	2	52	21241	332	2251	2
629	564086	39021757	30102313	8919444	.791	.798	6.47	112241	4	2231	2	1231	2	52	21241	332	2251	2
630	564239	39076105	30139475	8936630	.792	.798	6.47	112241	4	2331	2	1231	2	52	21241	232	2251	2
631	564397	39217624	30225822	8991802	.792	.798	6.49	112241	4	2331	2	1231	2	52	21241	332	2251	2
632	564404	39263888	30492514	8771374	.793	.798	6.50	112241	4	1241	2	1231	2	52	21231	232	2251	2
633	564582	39320853	30608372	8712481	.793	.798	6.51	112241	4	1241	2	1131	2	52	21241	232	2251	2
634	564740	39462371	30694719	8767652	.793	.798	6.53	112241	4	1241	2	1131	2	52	21241	332	2251	2
635	565268	39564725	30778880	8785845	.794	.799	6.54	112241	4	1241	2	1231	2	52	21241	232	2251	2
636	565425	39706243	30865227	8841016	.794	.799	6.56	112241	4	1241	2	1231	2	52	21241	332	2251	2
637	565474	39825457	30934086	8891371	.794	.799	6.58	112241	4	1241	2	1231	2	52	21241	432	2251	2
638	565491	39841625	30951574	8896051	.794	.799	6.59	112241	4	1241	2	2231	2	52	21241	232	2251	2
639	565565	39901018	30988736	8912282	.794	.800	6.59	112241	4	1341	2	1231	2	52	21241	332	2251	2
640	565599	39989080	31037921	8951159	.794	.800	6.61	112241	4	2241	2	1231	2	52	21241	332	2251	2
641	565648	39989143	31037921	8951222	.794	.800	6.61	112241	4	1241	2	2231	2	52	21241	332	2251	2
642	565697	40108357	31106780	9001577	.794	.800	6.63	112241	4	1241	2	2231	2	52	21241	432	2251	2
643	565716	40183825	31161430	9022395	.794	.800	6.64	112241	4	2341	2	1231	2	52	21241	332	2251	2
644	565787	40183917	31161430	9022487	.794	.800	6.64	112241	4	1341	2	2231	2	52	21241	332	2251	2
645	565822	40271980	31210615	9061365	.794	.800	6.65	112241	4	2241	2	2231	2	52	21241	332	2251	2

TABLE VII-6 continued

958870423

WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
646	565836	40303131	31230289	9072842	.794	.800	6.66	112241	4	1341	2	2231	2	52	21241	432	2251	2
647	565870	40391193	31279474	9111719	.794	.800	6.67	112241	4	2241	2	2231	2	52	21241	432	2251	2
648	565939	40466724	31334124	9132600	.794	.800	6.68	112241	4	2341	2	2231	2	52	21241	332	2251	2
649	565988	40585938	31402983	9182955	.794	.800	6.70	112241	4	2341	2	2231	2	52	21241	432	2251	2
650	566068	40671796	31334124	9337672	.795	.800	6.71	112241	4	1241	2	1232	2	52	21241	232	2251	2
651	566225	40813314	31420471	9392843	.795	.801	6.74	112241	4	1241	2	1232	2	52	21241	332	2251	2
652	566274	40932528	31489330	9443198	.795	.801	6.76	112241	4	1241	2	1232	2	52	21241	432	2251	2
653	566297	40991805	32520029	8471776	.794	.801	6.77	122241	4	1241	2	1231	2	52	21241	431	2251	2
654	566365	41008089	31543980	9464109	.795	.801	6.77	112241	4	1341	2	1232	2	52	21241	332	2251	2
655	566399	41096151	31593165	9502986	.795	.801	6.78	112241	4	2241	2	1232	2	52	21241	332	2251	2
656	566414	41127303	31612839	9514464	.795	.801	6.79	112241	4	1341	2	1232	2	52	21241	432	2251	2
657	566423	41155425	32623864	8531561	.794	.801	6.79	122241	4	1241	2	2231	2	52	21241	331	2251	2
658	566437	41186579	32643538	8543041	.794	.801	6.80	122241	4	1341	2	1231	2	52	21241	431	2251	2
659	566448	41215365	31662024	9553341	.795	.801	6.80	112241	4	2241	2	1232	2	52	21241	432	2251	2
660	566472	41239489	32036923	9202566	.794	.801	6.80	122241	4	1231	2	1131	2	52	21231	232	2251	2
661	566520	41274704	32692723	8581981	.794	.801	6.81	122241	4	1241	2	2231	2	52	21241	431	2251	2
662	566562	41350200	32747373	8602827	.795	.801	6.82	122241	4	1341	2	2231	2	52	21241	331	2251	2
663	566629	41381007	32123270	9257737	.794	.801	6.83	122241	4	1231	2	1131	2	52	21231	332	2251	2
664	566790	41402616	33020623	8381993	.795	.801	6.83	132241	4	1241	2	1231	2	52	21241	231	2251	2
665	566842	41435441	32160432	9275009	.795	.801	6.83	122241	4	1331	2	1131	2	52	21231	232	2251	2
666	567157	41483360	32207431	9275929	.795	.802	6.84	122241	4	1231	2	1231	2	52	21231	232	2251	2
667	567335	41540326	32323289	9217037	.795	.802	6.84	122241	4	1231	2	1131	2	52	21241	232	2251	2
668	567527	41679313	32330940	9348373	.796	.802	6.86	122241	4	1331	2	1231	2	52	21231	232	2251	2
669	567706	41736279	32446798	9289481	.796	.803	6.87	122241	4	1331	2	1131	2	52	21241	232	2251	2
670	568021	41784198	32493797	9290401	.796	.803	6.87	122241	4	1231	2	1231	2	52	21241	232	2251	2
671	568178	41925716	32580144	9345572	.796	.803	6.90	122241	4	1231	2	1231	2	52	21241	332	2251	2
672	568391	41980150	32617306	9362844	.796	.804	6.90	122241	4	1331	2	1231	2	52	21241	232	2251	2
673	568482	42067429	32666491	9400938	.796	.804	6.92	122241	4	2231	2	1231	2	52	21241	232	2251	2
674	568548	42121668	32703653	9418015	.797	.804	6.92	122241	4	1331	2	1231	2	52	21241	332	2251	2
675	568639	42208948	32752838	9456110	.796	.804	6.94	122241	4	2231	2	1231	2	52	21241	332	2251	2
676	568793	42263296	32790000	9473296	.797	.804	6.94	122241	4	2331	2	1231	2	52	21241	232	2251	2
677	568950	42404814	32876347	9528467	.797	.804	6.97	122241	4	2331	2	1231	2	52	21241	332	2251	2
678	568957	42451078	33143039	9308039	.798	.804	6.97	122241	4	1241	2	1231	2	52	21231	232	2251	2
679	569136	42508043	33258897	9249146	.798	.805	6.98	122241	4	1241	2	1131	2	52	21241	232	2251	2
680	569293	42649562	33345244	9304318	.798	.805	7.00	122241	4	1241	2	1131	2	52	21241	332	2251	2
681	569296	42651963	33273106	9378857	.797	.805	7.00	132241	4	1331	2	1231	2	52	21241	232	2251	2
682	569387	42739242	33322291	9416951	.797	.805	7.02	132241	4	2231	2	1231	2	52	21241	232	2251	2
683	569821	42751915	33429405	9322510	.799	.806	7.01	122241	4	1241	2	1231	2	52	21241	232	2251	2
684	569979	42893433	33515752	9377681	.799	.806	7.03	122241	4	1241	2	1231	2	52	21241	332	2251	2
685	570027	43012647	33584611	9428036	.799	.806	7.05	122241	4	1241	2	1231	2	52	21241	432	2251	2
686	570044	43034815	33602099	9432716	.799	.806	7.06	122241	4	1241	2	2231	2	52	21241	232	2251	2
687	570118	43088208	33639261	9448947	.799	.806	7.06	122241	4	1341	2	1231	2	52	21241	332	2251	2
688	570152	43176270	33688446	9487824	.799	.806	7.08	122241	4	2241	2	1231	2	52	21241	332	2251	2
689	570201	43176333	33688446	9487887	.799	.806	7.08	122241	4	1241	2	2231	2	52	21241	332	2251	2
690	570250	43295547	33757305	9538242	.799	.806	7.10	122241	4	1241	2	2231	2	52	21241	432	2251	2
691	570269	43371015	33811955	9559060	.799	.806	7.11	122241	4	2341	2	1231	2	52	21241	332	2251	2
692	570341	43371107	33811955	9559152	.799	.806	7.11	122241	4	1341	2	2231	2	52	21241	332	2251	2
693	570726	43423728	34085205	9338523	.799	.807	7.11	132241	4	1241	2	1231	2	52	21241	232	2251	2
694	570884	43565246	34171552	9393694	.799	.807	7.13	132241	4	1241	2	1231	2	52	21241	332	2251	2
695	570932	43684460	34240411	9444049	.799	.807	7.15	132241	4	1241	2	1231	2	52	21241	432	2251	2
696	570949	43706628	34257899	9448729	.799	.807	7.15	132241	4	1241	2	2231	2	52	21241	232	2251	2
697	571023	43760020	34295061	9464959	.800	.807	7.16	132241	4	1341	2	1231	2	52	21241	332	2251	2
698	571057	43848083	34344246	9503837	.800	.807	7.18	132241	4	2241	2	1231	2	52	21241	332	2251	2
699	571107	43848146	34344246	9503900	.800	.807	7.18	132241	4	1241	2	2231	2	52	21241	332	2251	2
700	571155	43967359	34413105	9554254	.800	.807	7.19	132241	4	1241	2	2231	2	52	21241	432	2251	2
701	571175	44042827	34467755	9575072	.800	.808	7.21	132241	4	2341	2	1231	2	52	21241	332	2251	2
702	571246	44042920	34467755	9575165	.800	.808	7.21	132241	4	1341	2	2231	2	52	21241	332	2251	2
703	571280	44130982	34516940	9614042	.800	.808	7.22	132241	4	2241	2	2231	2	52	21241	332	2251	2
704	571295	44162134	34536614	9625520	.800	.808	7.22	132241	4	1341	2	2231	2	52	21241	432	2251	2
705	571329	44250196	34585799	9664397	.800	.808	7.24	132241	4	2241	2	2231	2	52	21241	432	2251	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870424

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
706	571397	44325727	34640449	9685278	.800	.808	7.25	132241	4	2341	2	2231	2	52	21241	332	2251	2
707	571446	44444941	34709308	9735633	.800	.808	7.27	132241	4	2341	2	2231	2	52	21241	432	2251	2
708	571527	44530799	34640449	9890350	.800	.808	7.28	132241	4	1241	2	1232	2	52	21241	232	2251	2
709	571684	44672317	34726796	9945521	.800	.808	7.30	132241	4	1241	2	1232	2	52	21241	332	2251	2
710	571733	44791531	34795655	9995876	.801	.808	7.32	132241	4	1241	2	1232	2	52	21241	432	2251	2
711	571823	44867092	34850305	10016787	.801	.808	7.33	132241	4	1341	2	1232	2	52	21241	332	2251	2
712	571858	44955154	34899490	10055664	.801	.808	7.35	132241	4	2241	2	1232	2	52	21241	332	2251	2
713	571872	44986306	34919164	10067142	.801	.809	7.35	132241	4	1341	2	1232	2	52	21241	432	2251	2
714	571906	45074368	34968349	10106019	.801	.809	7.37	132241	4	2241	2	1232	2	52	21241	432	2251	2
715	571935	45149856	35022999	10126857	.801	.809	7.38	132241	4	1341	2	2232	2	52	21241	332	2251	2
716	571975	45149899	35022999	10126900	.801	.809	7.38	132241	4	2341	2	1232	2	52	21241	332	2251	2
717	571984	45269070	35091858	10177212	.801	.809	7.40	132241	4	1341	2	2232	2	52	21241	432	2251	2
718	572024	45269113	35091858	10177255	.801	.809	7.40	132241	4	2341	2	1232	2	52	21241	432	2251	2
719	572086	45432663	35195693	10236970	.801	.809	7.42	132241	4	2341	2	2232	2	52	21241	332	2251	2
720	572208	45535108	35723612	9811496	.802	.809	7.44	122241	4	1241	2	1231	2	52	22241	232	2251	2
721	572366	45676626	35809959	9866667	.802	.809	7.46	122241	4	1241	2	1231	2	52	22241	332	2251	2
722	572435	45770387	34815329	10955058	.804	.809	7.47	122241	4	1241	2	1231	2	52	21241	232	2242	2
723	572505	45871401	35933468	9937933	.802	.809	7.49	122241	4	1341	2	1231	2	52	22241	332	2251	2
724	572634	45907499	36093046	9814453	.802	.810	7.49	132241	4	1241	2	1231	2	52	22231	232	2251	2
725	572642	46031118	34970535	11060583	.804	.810	7.51	122241	4	1241	2	1231	2	52	21241	432	2242	2
726	572792	46049017	36179393	9869624	.803	.810	7.51	132241	4	1241	2	1231	2	52	22231	332	2251	2
727	572945	46056956	35086393	10970563	.804	.810	7.51	122241	4	1241	2	1231	2	52	21241	232	2252	2
728	573102	46198474	35172740	11025734	.804	.810	7.53	122241	4	1241	2	1231	2	52	21241	332	2252	2
729	573114	46206921	36379412	9827509	.803	.810	7.53	132241	4	1241	2	1231	2	52	22241	232	2251	2
730	573151	46317688	35241599	11076089	.804	.810	7.55	122241	4	1241	2	1231	2	52	21241	432	2252	2
731	573167	46339856	35259087	11080769	.804	.810	7.56	122241	4	1241	2	2231	2	52	21241	232	2252	2
732	573271	46348439	36465759	9882680	.803	.810	7.56	132241	4	1241	2	1231	2	52	22241	332	2251	2
733	573341	46442199	35471129	10971070	.804	.811	7.57	132241	4	1241	2	1231	2	52	21241	232	2242	2
734	573410	46543214	36589268	9953946	.803	.811	7.59	132241	4	1341	2	1231	2	52	22241	332	2251	2
735	573498	46583717	35557476	11026241	.804	.811	7.59	132241	4	1241	2	1231	2	52	21241	332	2242	2
736	573547	46702931	35626335	11076596	.804	.811	7.61	132241	4	1241	2	1231	2	52	21241	432	2242	2
737	573564	46725099	35643823	11081276	.804	.811	7.61	132241	4	1241	2	2231	2	52	21241	232	2242	2
738	573850	46728769	35742193	10986576	.805	.811	7.61	132241	4	1241	2	1231	2	52	21241	232	2252	2
739	574007	46870287	35828540	11041747	.805	.812	7.63	132241	4	1241	2	1231	2	52	21241	332	2252	2
740	574056	46989500	35897399	11092101	.805	.812	7.65	132241	4	1241	2	1231	2	52	21241	432	2252	2
741	574073	47011668	35914887	11096781	.805	.812	7.65	132241	4	1241	2	2231	2	52	21241	232	2252	2
742	574147	47065061	35952049	11113012	.805	.812	7.66	132241	4	1341	2	1231	2	52	21241	332	2252	2
743	574181	47153123	36001234	11151889	.805	.812	7.67	132241	4	2241	2	1231	2	52	21241	332	2252	2
744	574230	47153187	36001234	11151953	.805	.812	7.67	132241	4	1241	2	2231	2	52	21241	332	2252	2
745	574279	47272400	36070093	11202307	.805	.812	7.69	132241	4	1241	2	2231	2	52	21241	432	2252	2
746	574298	47347868	36124743	11223125	.805	.812	7.71	132241	4	2341	2	1231	2	52	21241	332	2252	2
747	574370	47347961	36124743	11223218	.805	.812	7.70	132241	4	1341	2	2231	2	52	21241	332	2252	2
748	574404	47436023	36173928	11262095	.805	.812	7.72	132241	4	2241	2	2231	2	52	21241	332	2252	2
749	574418	47467175	36193602	11273573	.805	.812	7.72	132241	4	1341	2	2231	2	52	21241	432	2252	2
750	574452	47555237	36242787	11312450	.805	.812	7.74	132241	4	2241	2	2231	2	52	21241	432	2252	2
751	574521	47630768	36297437	11333331	.805	.812	7.75	132241	4	2341	2	2231	2	52	21241	332	2252	2
752	574570	47749982	36366296	11383686	.805	.812	7.77	132241	4	2341	2	2231	2	52	21241	432	2252	2
753	574650	47835840	36297437	11538403	.806	.812	7.78	132241	4	1241	2	1232	2	52	21241	232	2252	2
754	574865	47875014	35605568	12269446	.804	.813	7.78	112242	4	1241	2	1231	2	52	21241	232	2251	2
755	575022	48016532	35691915	12324617	.804	.813	7.80	112242	4	1241	2	1231	2	52	21241	332	2251	2
756	575071	48135746	35760774	12374972	.804	.813	7.82	112242	4	1241	2	1231	2	52	21241	432	2251	2
757	575088	48157914	35778262	12379652	.804	.813	7.83	112242	4	1241	2	2231	2	52	21241	232	2251	2
758	575162	48211307	35815424	12395883	.804	.813	7.83	112242	4	1341	2	1231	2	52	21241	332	2251	2
759	575196	48299369	35864609	12434760	.804	.813	7.85	112242	4	2241	2	1231	2	52	21241	332	2251	2
760	575245	48299432	35864609	12434823	.804	.813	7.85	112242	4	1241	2	2231	2	52	21241	332	2251	2
761	575294	48418646	35933468	12485178	.804	.813	7.87	112242	4	1241	2	2231	2	52	21241	432	2251	2
762	575313	48494114	35988118	12505996	.805	.813	7.88	112242	4	2341	2	1231	2	52	21241	332	2251	2
763	575385	48494206	35988118	12506088	.805	.813	7.88	112242	4	1341	2	2231	2	52	21241	332	2251	2
764	575419	48582269	36037303	12544966	.804	.814	7.89	112242	4	2241	2	2231	2	52	21241	332	2251	2
765	575433	48613420	36056977	12556443	.805	.814	7.90	112242	4	1341	2	2231	2	52	21241	432	2251	2

958870425

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
766	575467	48701482	36106162	12595320	.805	.814	7.91	112242	4	2241	2	2231	2	52	21241	432	2251	2
767	575536	48777013	36160812	12616201	.805	.814	7.92	112242	4	2341	2	2231	2	52	21241	332	2251	2
768	575585	48896227	36229671	12666556	.805	.814	7.94	112242	4	2341	2	2231	2	52	21241	432	2251	2
769	575665	48982085	36160812	12821273	.805	.814	7.95	112242	4	1241	2	1232	2	52	21241	232	2251	2
770	575822	49123604	36247159	12876445	.805	.814	7.97	112242	4	1241	2	1232	2	52	21241	332	2251	2
771	575871	49242817	36316018	12926799	.805	.814	7.99	112242	4	1241	2	1232	2	52	21241	432	2251	2
772	575962	49318378	36370668	12947710	.806	.814	8.00	112242	4	1341	2	1232	2	52	21241	332	2251	2
773	575996	49406440	36419853	12986587	.805	.814	8.02	112242	4	2241	2	1232	2	52	21241	332	2251	2
774	576011	49437592	36439527	12998065	.806	.814	8.02	112242	4	1341	2	1232	2	52	21241	432	2251	2
775	576237	49511962	38036400	11475562	.808	.815	8.03	132241	4	1241	2	1231	2	52	22241	232	2252	2
776	576394	49653480	38122747	11530733	.808	.815	8.05	132241	4	1241	2	1231	2	52	22241	332	2252	2
777	576443	49772694	38191606	11581088	.808	.815	8.07	132241	4	1241	2	1231	2	52	22241	432	2252	2
778	576460	49794862	38209094	11585768	.808	.815	8.07	132241	4	1241	2	2231	2	52	22241	232	2252	2
779	576534	49848255	38246256	11601999	.809	.815	8.08	132241	4	1341	2	1231	2	52	22241	332	2252	2
780	576568	49936317	38295441	11640876	.809	.815	8.09	132241	4	2241	2	1231	2	52	22241	332	2252	2
781	576617	49936380	38295441	11640939	.809	.815	8.09	132241	4	1241	2	2231	2	52	22241	332	2252	2
782	576666	50055594	38364300	11691294	.809	.815	8.11	132241	4	1241	2	2231	2	52	22241	432	2252	2
783	576685	50131062	38418950	11712112	.809	.815	8.12	132241	4	2341	2	1231	2	52	22241	332	2252	2
784	576757	50131154	38418950	11712204	.809	.815	8.12	132241	4	1341	2	2231	2	52	22241	332	2252	2
785	576791	50219217	38468135	11751082	.809	.815	8.14	132241	4	2241	2	2231	2	52	22241	332	2252	2
786	576806	50250368	38487809	11762559	.809	.815	8.14	132241	4	1341	2	2231	2	52	22241	432	2252	2
787	576895	50336585	38961078	11375507	.809	.816	8.15	332241	4	1241	2	1231	2	52	21241	232	2252	2
788	576908	50413961	38591644	11822317	.809	.816	8.17	132241	4	2341	2	2231	2	52	22241	332	2252	2
789	577052	50478103	39047425	11430678	.809	.816	8.18	332241	4	1241	2	1231	2	52	21241	332	2252	2
790	577101	50597317	39116284	11481033	.809	.816	8.19	332241	4	1241	2	1231	2	52	21241	432	2252	2
791	577118	50619485	39133772	11485713	.809	.816	8.20	332241	4	1241	2	2231	2	52	21241	232	2252	2
792	577252	50658207	37899775	12758432	.808	.816	8.20	112242	4	1241	2	1231	2	52	22241	232	2251	2
793	577275	50761003	39220119	11540884	.809	.816	8.22	332241	4	1241	2	2231	2	52	21241	332	2252	2
794	577409	50799725	37986122	12813603	.808	.816	8.22	112242	4	1241	2	1231	2	52	22241	332	2251	2
795	577479	50893486	36991492	13901994	.809	.816	8.24	112242	4	1241	2	1231	2	52	21241	232	2242	2
796	577549	50994500	38109631	12884869	.808	.817	8.25	112242	4	1341	2	1231	2	52	22241	332	2251	2
797	577637	51035004	37077839	13957165	.809	.817	8.26	112242	4	1241	2	1231	2	52	21241	332	2242	2
798	577685	51154217	37146698	14007519	.809	.817	8.28	112242	4	1241	2	1231	2	52	21241	432	2242	2
799	577702	51176385	37164186	14012199	.809	.817	8.28	112242	4	1241	2	2231	2	52	21241	232	2242	2
800	577988	51180055	37262556	13917499	.810	.817	8.28	112242	4	1241	2	1231	2	52	21241	232	2252	2
801	578146	51321573	37348903	13972670	.810	.817	8.30	112242	4	1241	2	1231	2	52	21241	332	2252	2
802	578194	51440787	37417762	14023025	.810	.817	8.31	112242	4	1241	2	1231	2	52	21241	432	2252	2
803	578211	51462955	37435250	14027705	.810	.817	8.32	112242	4	1241	2	2231	2	52	21241	232	2252	2
804	578285	51516347	37472412	14043935	.810	.818	8.33	112242	4	1341	2	1231	2	52	21241	332	2252	2
805	578319	51604410	37521597	14082813	.810	.818	8.34	112242	4	2241	2	1231	2	52	21241	332	2252	2
806	578369	51604473	37521597	14082876	.810	.818	8.34	112242	4	1241	2	2231	2	52	21241	332	2252	2
807	578417	51723686	37590456	14133230	.810	.818	8.36	112242	4	1241	2	2231	2	52	21241	432	2252	2
808	578436	51799154	37645106	14154048	.810	.818	8.37	112242	4	2341	2	1231	2	52	21241	332	2252	2
809	578508	51799247	37645106	14154141	.810	.818	8.37	112242	4	1341	2	2231	2	52	21241	332	2252	2
810	578542	51887309	37694291	14193018	.810	.818	8.38	112242	4	2241	2	2231	2	52	21241	332	2252	2
811	578557	51918461	37713965	14204496	.810	.818	8.39	112242	4	1341	2	2231	2	52	21241	432	2252	2
812	578591	52006523	37763150	14243373	.810	.818	8.40	112242	4	2241	2	2231	2	52	21241	432	2252	2
813	578659	52082054	37817800	14264254	.810	.818	8.41	112242	4	2341	2	2231	2	52	21241	332	2252	2
814	578708	52201268	37886659	14314609	.810	.818	8.43	112242	4	2341	2	2231	2	52	21241	432	2252	2
815	578788	52287126	37817800	14469326	.811	.818	8.44	112242	4	1241	2	1232	2	52	21241	232	2252	2
816	578946	52428644	37904147	14524497	.811	.819	8.46	112242	4	1241	2	1232	2	52	21241	332	2252	2
817	578995	52547858	37973006	14574852	.811	.819	8.48	112242	4	1241	2	1232	2	52	21241	432	2252	2
818	579085	52623419	38027656	14595763	.811	.819	8.49	112242	4	1341	2	1232	2	52	21241	332	2252	2
819	579120	52711481	38076841	14634640	.811	.819	8.51	112242	4	2241	2	1232	2	52	21241	332	2252	2
820	579134	52742633	38096515	14646118	.811	.819	8.51	112242	4	1341	2	1232	2	52	21241	432	2252	2
821	579168	52830695	38145700	14684995	.811	.819	8.53	112242	4	2241	2	1232	2	52	21241	432	2252	2
822	579197	52906183	38200350	14705833	.811	.819	8.54	112242	4	1341	2	2232	2	52	21241	332	2252	2
823	579237	52906226	38200350	14705876	.811	.819	8.54	112242	4	2341	2	1232	2	52	21241	332	2252	2
824	579246	53025397	38269209	14756188	.811	.819	8.56	112242	4	1341	2	2232	2	52	21241	432	2252	2
825	579285	53025440	38269209	14756231	.811	.819	8.55	112242	4	2341	2	1232	2	52	21241	432	2252	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870426

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SB
826	579348	53188990	38373044	14815946	.811	.819	8.58	112242	4	2341	2	2232	2	52	21241	332	2252	2
827	579439	53261296	41341632	11919664	.813	.819	8.59	332241	4	1241	2	1231	2	52	22241	332	2252	2
828	579488	53380510	41410491	11970019	.813	.819	8.61	332241	4	1241	2	1231	2	52	22241	432	2252	2
829	579505	53402678	41427979	11974699	.813	.819	8.61	332241	4	1241	2	2231	2	52	22241	232	2252	2
830	579579	53456071	41465141	11990930	.813	.819	8.62	332241	4	1341	2	1231	2	52	22241	332	2252	2
831	579613	53544133	41514326	12029807	.813	.819	8.63	332241	4	2241	2	1231	2	52	22241	332	2252	2
832	579662	53544196	41514326	12029870	.813	.820	8.63	332241	4	1241	2	2231	2	52	22241	332	2252	2
833	579711	53663410	41583185	12080225	.813	.820	8.65	332241	4	1241	2	2231	2	52	22241	432	2252	2
834	579896	53663826	39270397	14393429	.813	.820	8.65	112242	4	1241	2	1231	2	52	22231	232	2252	2
835	580054	53805344	39356744	14448600	.813	.820	8.67	112242	4	1241	2	1231	2	52	22231	332	2252	2
836	580102	53924557	39425603	14498954	.813	.820	8.69	112242	4	1241	2	1231	2	52	22231	432	2252	2
837	580119	53946725	39443091	14503634	.813	.820	8.69	112242	4	1241	2	2231	2	52	22231	232	2252	2
838	580375	53963248	39556763	14406485	.813	.821	8.69	112242	4	1241	2	1231	2	52	22241	232	2252	2
839	580533	54104766	39643110	14461656	.813	.821	8.71	112242	4	1241	2	1231	2	52	22241	332	2252	2
840	580582	54223980	39711969	14512011	.813	.821	8.73	112242	4	1241	2	1231	2	52	22241	432	2252	2
841	580598	54246148	39729457	14516691	.813	.821	8.73	112242	4	1241	2	2231	2	52	22241	232	2252	2
842	580672	54299541	39766619	14532922	.814	.821	8.74	112242	4	1341	2	1231	2	52	22241	332	2252	2
843	580707	54387603	39815804	14571799	.813	.821	8.75	112242	4	2241	2	1231	2	52	22241	332	2252	2
844	580756	54387666	39815804	14571862	.813	.821	8.75	112242	4	1241	2	2231	2	52	22241	332	2252	2
845	580805	54506880	39884663	14622217	.813	.821	8.77	112242	4	1241	2	2231	2	52	22241	432	2252	2
846	580824	54582348	39939313	14643035	.814	.821	8.78	112242	4	2341	2	1231	2	52	22241	332	2252	2
847	580895	54582441	39939313	14643128	.814	.821	8.78	112242	4	1341	2	2231	2	52	22241	332	2252	2
848	580929	54670503	39988498	14682005	.814	.821	8.80	112242	4	2241	2	2231	2	52	22241	332	2252	2
849	580944	54701654	40008172	14693482	.814	.821	8.80	112242	4	1341	2	2231	2	52	22241	432	2252	2
850	580978	54789716	40057357	14732359	.814	.821	8.81	112242	4	2241	2	2231	2	52	22241	432	2252	2
851	581047	54865248	40112007	14753241	.814	.821	8.82	112242	4	2341	2	2231	2	52	22241	332	2252	2
852	581095	54984461	40180866	14803595	.814	.822	8.84	112242	4	2341	2	2231	2	52	22241	432	2252	2
853	581176	55070320	40112007	14958313	.814	.822	8.86	112242	4	1241	2	1232	2	52	22241	232	2252	2
854	581333	55211838	40198354	15013484	.814	.822	8.88	112242	4	1241	2	1232	2	52	22241	332	2252	2
855	581382	55331051	40267213	15063838	.814	.822	8.89	112242	4	1241	2	1232	2	52	22241	432	2252	2
856	581473	55406612	40321863	15084749	.815	.822	8.91	112242	4	1341	2	1232	2	52	22241	332	2252	2
857	581507	55494674	40371048	15123626	.814	.822	8.92	112242	4	2241	2	1232	2	52	22241	332	2252	2
858	581521	55525826	40390722	15135104	.815	.822	8.92	112242	4	1341	2	1232	2	52	22241	432	2252	2
859	581556	55613888	40439907	15173981	.815	.822	8.94	112242	4	2241	2	1232	2	52	22241	432	2252	2
860	581584	55689376	40494557	15194819	.815	.822	8.95	112242	4	1341	2	2232	2	52	22241	332	2252	2
861	581624	55689419	40494557	15194862	.815	.822	8.95	112242	4	2341	2	1232	2	52	22241	332	2252	2
862	581633	55808590	40563416	15245174	.815	.822	8.97	112242	4	1341	2	2232	2	52	22241	432	2252	2
863	581673	55808633	40563416	15245217	.815	.822	8.97	112242	4	2341	2	1232	2	52	22241	432	2252	2
864	581736	55972183	40667251	15304932	.815	.822	8.99	112242	4	2341	2	2232	2	52	22241	332	2252	2
865	581784	56091397	40736110	15355287	.815	.823	9.01	112242	4	2341	2	2232	2	52	22241	432	2252	2
866	581795	56374041	40908804	15465237	.815	.823	9.06	112242	4	3341	2	2232	2	52	22241	432	2252	2
867	581815	56476490	41333981	15142509	.814	.823	9.07	132242	4	1341	2	1232	2	52	21241	332	2252	2
868	581849	56564552	41383166	15181386	.814	.823	9.09	132242	4	2241	2	1232	2	52	21241	332	2252	2
869	581863	56595104	41402840	15192864	.814	.823	9.09	132242	4	1341	2	1232	2	52	21241	432	2252	2
870	581898	56683766	41452025	15231741	.814	.823	9.10	132242	4	2241	2	1232	2	52	21241	432	2252	2
871	581926	56759254	41506675	15252579	.814	.823	9.12	132242	4	1341	2	2232	2	52	21241	332	2252	2
872	581966	56759297	41506675	15252622	.814	.823	9.11	132242	4	2341	2	1232	2	52	21241	332	2252	2
873	582173	56845943	41920922	14925021	.815	.823	9.13	122242	4	1241	2	1231	2	52	22231	232	2252	2
874	582330	56987461	42007269	14980192	.815	.823	9.15	122242	4	1241	2	1231	2	52	22231	332	2252	2
875	582379	57106675	42076128	15030547	.815	.823	9.16	122242	4	1241	2	1231	2	52	22231	432	2252	2
876	582396	57128843	42093616	15035227	.815	.823	9.17	122242	4	1241	2	2231	2	52	22231	232	2252	2
877	582652	57145366	42207288	14938078	.816	.824	9.17	122242	4	1241	2	1231	2	52	22241	232	2252	2
878	582810	57286884	42293635	14993249	.816	.824	9.19	122242	4	1241	2	1231	2	52	22241	332	2252	2
879	582858	57406097	42362494	15043603	.816	.824	9.20	122242	4	1241	2	1231	2	52	22241	432	2252	2
880	582875	57428265	42379982	15048283	.816	.824	9.21	122242	4	1241	2	2231	2	52	22241	232	2252	2
881	582949	57481658	42417144	15064514	.816	.824	9.22	122242	4	1341	2	1231	2	52	22241	332	2252	2
882	582983	57569720	42466329	15103391	.816	.824	9.23	122242	4	2241	2	1231	2	52	22241	332	2252	2
883	583033	57569784	42466329	15103455	.816	.824	9.23	122242	4	1241	2	2231	2	52	22241	332	2252	2
884	583081	57688997	42535188	15153809	.816	.824	9.25	122242	4	1241	2	2231	2	52	22241	432	2252	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870427

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SS
885	583100	57764465	42589838	15174627	.816	.824	9.26	122242	4	2341	2	1231	2	52	22241	332	2252	2
886	583172	57764558	42589838	15174720	.816	.824	9.26	122242	4	1341	2	2231	2	52	22241	332	2252	2
887	583206	57852620	42639023	15213597	.816	.825	9.27	122242	4	2241	2	2231	2	52	22241	332	2252	2
888	583221	57883772	42658697	15225075	.816	.825	9.28	122242	4	1341	2	2231	2	52	22241	432	2252	2
889	583262	57957837	42949435	15008402	.816	.825	9.29	132242	4	1241	2	1231	2	52	22241	332	2252	2
890	583323	58047365	42762532	15284833	.816	.825	9.30	122242	4	2341	2	2231	2	52	22241	332	2252	2
891	583328	58099219	43035782	15063437	.816	.825	9.31	132242	4	1241	2	2231	2	52	22241	232	2252	2
892	583402	58152612	43072944	15079668	.816	.825	9.32	132242	4	1341	2	1231	2	52	22241	332	2252	2
893	583436	58240674	43122129	15118545	.816	.825	9.33	132242	4	2241	2	1231	2	52	22241	332	2252	2
894	583485	58240737	43122129	15118608	.816	.825	9.33	132242	4	1241	2	2231	2	52	22241	332	2252	2
895	583534	58359951	43190988	15168963	.816	.825	9.35	132242	4	1241	2	2231	2	52	22241	432	2252	2
896	583610	58393955	42848879	15545076	.817	.825	9.35	122242	4	1241	2	1232	2	52	22241	332	2252	2
897	583625	58435512	43245638	15189874	.816	.825	9.36	132242	4	1341	2	2231	2	52	22241	332	2252	2
898	583659	58513169	42917738	15595431	.817	.825	9.37	122242	4	1241	2	1232	2	52	22241	432	2252	2
899	583659	58523574	43294823	15228751	.816	.825	9.37	132242	4	2241	2	2231	2	52	22241	332	2252	2
900	583673	58554725	43314497	15240228	.817	.825	9.38	132242	4	1341	2	2231	2	52	22241	432	2252	2
901	583749	58588730	42972388	15616342	.817	.825	9.38	122242	4	1341	2	1232	2	52	22241	332	2252	2
902	583784	58676792	43021573	15655219	.817	.825	9.39	122242	4	2241	2	1232	2	52	22241	332	2252	2
903	583798	58707943	43041247	15666696	.817	.825	9.40	122242	4	1341	2	1232	2	52	22241	432	2252	2
904	583832	58796006	43090432	15705574	.817	.825	9.41	122242	4	2241	2	1232	2	52	22241	432	2252	2
905	583861	58871494	43145082	15726412	.817	.825	9.42	122242	4	1341	2	2232	2	52	22241	332	2252	2
906	583901	58871537	43145082	15726455	.817	.826	9.42	122242	4	2341	2	1232	2	52	22241	332	2252	2
907	583905	58923391	43418332	15505059	.817	.826	9.43	132242	4	1241	2	1232	2	52	22241	232	2252	2
908	583910	58990707	43213941	15776766	.817	.826	9.44	122242	4	1341	2	2232	2	52	22241	432	2252	2
909	583949	58990750	43213941	15776809	.817	.826	9.44	122242	4	2341	2	1232	2	52	22241	432	2252	2
910	584063	59064909	43504679	15560230	.817	.826	9.45	132242	4	1241	2	1232	2	52	22241	332	2252	2
911	584111	59184122	43573538	15610584	.817	.826	9.47	132242	4	1241	2	1232	2	52	22241	432	2252	2
912	584202	59259683	43628188	15631495	.817	.826	9.48	132242	4	1341	2	1232	2	52	22241	332	2252	2
913	584236	59347746	43677373	15670373	.817	.826	9.49	132242	4	2241	2	1232	2	52	22241	332	2252	2
914	584251	59378897	43697047	15681850	.817	.826	9.50	132242	4	1341	2	1232	2	52	22241	432	2252	2
915	584285	59466959	43746232	15720727	.817	.826	9.51	132242	4	2241	2	1232	2	52	22241	432	2252	2
916	584313	59542447	43800882	15741565	.818	.826	9.52	132242	4	1341	2	2232	2	52	22241	332	2252	2
917	584353	59542490	43800882	15741608	.818	.826	9.52	132242	4	2341	2	1232	2	52	22241	332	2252	2
918	584362	59661661	43869741	15791920	.818	.826	9.54	132242	4	1341	2	2232	2	52	22241	432	2252	2
919	584402	59661704	43869741	15791963	.818	.826	9.54	132242	4	2341	2	1232	2	52	22241	432	2252	2
920	584465	59825254	43973576	15851678	.818	.826	9.57	132242	4	2341	2	2232	2	52	22241	332	2252	2
921	584514	59944468	44042435	15902033	.818	.826	9.58	132242	4	2341	2	2232	2	52	22241	432	2252	2
922	584524	60227112	44215129	16011983	.818	.826	9.63	132242	4	3341	2	2232	2	52	22241	432	2252	2
923	584531	60861883	43660978	17200905	.818	.826	9.73	132242	4	2241	2	1232	2	52	21242	332	2252	2
924	584545	60893034	43680652	17212382	.818	.826	9.74	132242	4	1341	2	1232	2	52	21242	432	2252	2
925	584579	60981096	43729837	17251259	.818	.826	9.75	132242	4	2241	2	1232	2	52	21242	432	2252	2
926	584608	61056584	43784487	17272097	.818	.827	9.76	132242	4	1341	2	2232	2	52	21242	332	2252	2
927	584648	61056628	43784487	17272141	.818	.827	9.76	132242	4	2341	2	1232	2	52	21242	332	2252	2
928	584655	61174308	45685214	15489094	.818	.827	9.78	322242	4	1241	2	2231	2	52	22241	332	2252	2
929	584657	61175798	43853346	17322452	.818	.827	9.78	132242	4	1341	2	2232	2	52	21242	432	2252	2
930	584697	61175841	43853346	17322495	.818	.827	9.78	132242	4	2341	2	1232	2	52	21242	432	2252	2
931	584704	61293521	45754073	15539448	.818	.827	9.80	322242	4	1241	2	2231	2	52	22241	432	2252	2
932	584759	61339391	43957181	17382210	.818	.827	9.80	132242	4	2341	2	2232	2	52	21242	332	2252	2
933	584795	61369082	45808723	15560359	.818	.827	9.81	322242	4	1341	2	2231	2	52	22241	332	2252	2
934	584829	61457144	45857908	15599236	.818	.827	9.82	322242	4	2241	2	2231	2	52	22241	332	2252	2
935	584844	61488296	45877582	15610714	.818	.827	9.83	322242	4	1341	2	2231	2	52	22241	432	2252	2
936	584929	61521972	45608704	15913268	.819	.827	9.83	222242	4	1241	2	1232	2	52	22241	332	2252	2
937	584977	61641185	45677563	15963622	.819	.827	9.85	222242	4	1241	2	1232	2	52	22241	432	2252	2
938	585068	61716746	45732213	15984533	.819	.827	9.86	222242	4	1341	2	1232	2	52	22241	332	2252	2
939	585102	61804808	45781398	16023410	.819	.827	9.87	222242	4	2241	2	1232	2	52	22241	332	2252	2
940	585117	61835960	45801072	16034888	.819	.827	9.88	222242	4	1341	2	1232	2	52	22241	432	2252	2
941	585151	61924022	45850257	16073765	.819	.827	9.89	222242	4	2241	2	1232	2	52	22241	432	2252	2
942	585233	61998479	46067764	15930715	.819	.827	9.90	322242	4	1241	2	1232	2	52	22241	332	2252	2
943	585281	62117693	46136623	15981070	.819	.827	9.92	322242	4	1241	2	1232	2	52	22241	432	2252	2

TABLE VII-6 continued

WESTERLY INTERCEPTOR

OPTION COMBINATIONS

958870428

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	DOLLAR BOD	PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CS	WW SB
944	585300	62192285	46264504	15927781	.819	.828	9.93	232242	4	1241	2	1232	2	52	22241	332	2252	2
945	585372	62193254	46191273	16001981	.819	.828	9.93	322242	4	1341	2	1232	2	52	22241	332	2252	2
946	585406	62281316	46240458	16040858	.819	.828	9.94	322242	4	2241	2	1232	2	52	22241	332	2252	2
947	585421	62312468	46260132	16052336	.819	.828	9.95	322242	4	1341	2	1232	2	52	22241	432	2252	2
948	585439	62387060	46388013	15999047	.819	.828	9.96	232242	4	1341	2	1232	2	52	22241	332	2252	2
949	585455	62400530	46309317	16091213	.819	.828	9.96	322242	4	2241	2	1232	2	52	22241	432	2252	2
950	585473	62475122	46437198	16037924	.819	.828	9.97	232242	4	2241	2	1232	2	52	22241	332	2252	2
951	585484	62476018	46363967	16112051	.819	.828	9.97	322242	4	1341	2	2232	2	52	22241	332	2252	2
952	585524	62476061	46363967	16112094	.819	.828	9.97	322242	4	2341	2	1232	2	52	22241	332	2252	2
953	585532	62595231	46432826	16162405	.819	.828	9.99	322242	4	1341	2	2232	2	52	22241	432	2252	2
954	585572	62595274	46432826	16162448	.819	.828	9.99	322242	4	2341	2	1232	2	52	22241	432	2252	2
955	585585	62668600	46723564	15945036	.819	.82810.00		332242	4	1241	2	1232	2	52	22241	332	2252	2
956	585590	62669867	46560707	16109160	.819	.82810.00		232242	4	2341	2	1232	2	52	22241	332	2252	2
957	585635	62758825	46536661	16222164	.819	.82810.02		322242	4	2341	2	2232	2	52	22241	332	2252	2
958	585639	62789080	46629566	16159514	.819	.82810.02		232242	4	2341	2	1232	2	52	22241	432	2252	2
959	585724	62863375	46847073	16016302	.819	.82810.03		332242	4	1341	2	1232	2	52	22241	332	2252	2
960	585759	62951437	46896258	16055179	.819	.82810.04		332242	4	2241	2	1232	2	52	22241	332	2252	2
961	585773	62982588	46915932	16066656	.820	.82810.05		332242	4	1341	2	1232	2	52	22241	432	2252	2
962	585807	63070650	46965117	16105533	.819	.82810.06		332242	4	2241	2	1232	2	52	22241	432	2252	2
963	585836	63146138	47019767	16126371	.820	.82810.07		332242	4	1341	2	2232	2	52	22241	332	2252	2
964	585876	63146181	47019767	16126414	.820	.82810.07		332242	4	2341	2	1232	2	52	22241	332	2252	2
965	585885	63265352	47088626	16176726	.820	.82810.09		332242	4	1341	2	2232	2	52	22241	432	2252	2
966	585925	63265395	47088626	16176769	.820	.82810.09		332242	4	2341	2	1232	2	52	22241	432	2252	2
967	585987	63428945	47192461	16236484	.820	.82810.12		332242	4	2341	2	2232	2	52	22241	332	2252	2
968	586036	63548159	47261320	16286839	.820	.82910.13		332242	4	2341	2	2232	2	52	22241	432	2252	2
969	586047	63830803	47434014	16396789	.820	.82910.18		332242	4	3341	2	2232	2	52	22241	432	2252	2
970	586053	64465574	46879863	17585711	.820	.82910.28		332242	4	2241	2	1232	2	52	21242	332	2252	2
971	586068	64496725	46899537	17597188	.820	.82910.29		332242	4	1341	2	1232	2	52	21242	432	2252	2
972	586102	64584788	46948722	17636066	.820	.82910.30		332242	4	2241	2	1232	2	52	21242	432	2252	2
973	586130	64660276	47003372	17656904	.820	.82910.31		332242	4	1341	2	2232	2	52	21242	332	2252	2
974	586170	64660319	47003372	17656947	.820	.82910.31		332242	4	2341	2	1232	2	52	21242	332	2252	2
975	586179	64779489	47072231	17707258	.820	.82910.33		332242	4	1341	2	2232	2	52	21242	432	2252	2
976	586219	64779532	47072231	17707301	.820	.82910.33		332242	4	2341	2	1232	2	52	21242	432	2252	2
977	586282	64943083	47176066	17767017	.820	.82910.35		332242	4	2341	2	2232	2	52	21242	332	2252	2
978	586331	65062296	47244925	17817371	.820	.82910.37		332242	4	2341	2	2232	2	52	21242	432	2252	2
979	586341	65344940	47417619	17927321	.820	.82910.42		332242	4	3341	2	2232	2	52	21242	432	2252	2
980	586359	65479832	48249392	17230440	.820	.82910.44		332242	4	1342	2	2232	2	52	22241	432	2252	2
981	586376	65567986	48298577	17269409	.820	.82910.45		332242	4	2242	2	2232	2	52	22241	432	2252	2
982	586386	65643336	48353227	17290109	.820	.82910.46		332242	4	2342	2	2232	2	52	22241	332	2252	2
983	586435	65762549	48422086	17340463	.820	.82910.48		332242	4	2342	2	2232	2	52	22241	432	2252	2
984	586466	65934991	47955375	17979616	.821	.82910.51		222242	4	1241	2	1232	2	52	22242	432	2252	2
985	586481	65993351	48059210	17934141	.821	.82910.52		322242	4	1241	2	1232	2	52	22232	332	2252	2
986	586556	66010552	48010025	18000527	.821	.82910.52		222242	4	1341	2	1232	2	52	22242	332	2252	2
987	586590	66098615	48059210	18039405	.821	.82910.53		222242	4	2241	2	1232	2	52	22242	332	2252	2
988	586605	66129766	48078884	18050882	.821	.82910.54		222242	4	1341	2	1232	2	52	22242	432	2252	2
989	586621	66188126	48182719	18005407	.821	.82910.54		322242	4	1341	2	1232	2	52	22232	332	2252	2
990	586639	66217828	48128069	18089759	.821	.82910.55		222242	4	2241	2	1232	2	52	22242	432	2252	2
991	586655	66276188	48231904	18044284	.821	.82910.56		322242	4	2241	2	1232	2	52	22232	332	2252	2
992	586721	66292285	48345576	17946709	.821	.83010.56		322242	4	1241	2	1232	2	52	22242	332	2252	2
993	586770	66411499	48414435	17997064	.821	.83010.58		322242	4	1241	2	1232	2	52	22242	432	2252	2
994	586772	66470933	48355413	18115520	.821	.83010.59		322242	4	2341	2	1232	2	52	22232	332	2252	2
995	586788	66486091	48542316	17943775	.821	.83010.59		232242	4	1241	2	1232	2	52	22242	332	2252	2
996	586860	66487060	48469085	18017975	.821	.83010.59		322242	4	1341	2	1232	2	52	22242	332	2252	2
997	586895	66575122	48510270	18056852	.821	.83010.60		322242	4	2241	2	1232	2	52	22242	332	2252	2
998	586909	66606274	48537944	18068330	.821	.83010.61		322242	4	1341	2	1232	2	52	22242	432	2252	2
999	586927	66680866	48665825	18015041	.821	.83010.62		232242	4	1341	2	1232	2	52	22242	332	2252	2
1000	586943	66694336	48587129	18107207	.821	.83010.62		322242	4	2241	2	1232	2	52	22242	432	2252	2
1001	586961	66768928	48715010	18053918	.821	.83010.63		232242	4	2241	2	1232	2	52	22242	332	2252	2
1002	586972	66769824	48641779	18128045	.821	.83010.63		322242	4	1341	2	2232	2	52	22242	332	2252	2
1003	587012	66769867	48641779	18128088	.822	.83010.63		322242	4	2341	2	1232	2	52	22242	332	2252	2

958870429

TABLE VII-6 continued
WESTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	DOLLAR BOD PER LB	Tributary Areas NNW CS	NNW SS	NNE CS	NNE SS	NCE CS	NCE SS	NCW CS	CCN CS	CCS CS	WW CB	WW SB
1004	587021	66889038	48710638	18178400	.822	.83010.65	322242	4	1341	2	2232	2	52	22242	432	2252	2
1005	587060	66889081	48710638	18178443	.822	.83010.65	322242	4	2341	2	1232	2	52	22242	432	2252	2
1006	587073	66962406	49001376	17961030	.822	.83010.66	332242	4	1241	2	1232	2	52	22242	332	2252	2
1007	587079	66963673	48838519	18125154	.821	.83010.66	232242	4	2341	2	1232	2	52	22242	332	2252	2
1008	587123	67052631	48814473	18238158	.822	.83010.67	322242	4	2341	2	2232	2	52	22242	332	2252	2
1009	587127	67082887	48907378	18175509	.822	.83010.68	232242	4	2341	2	1232	2	52	22242	432	2252	2
1010	587213	67157181	49124885	18032296	.822	.83010.69	332242	4	1341	2	1232	2	52	22242	332	2252	2
1011	587247	67245243	49174070	18071173	.822	.83010.70	332242	4	2241	2	1232	2	52	22242	332	2252	2
1012	587261	67276394	49193744	18082650	.822	.83010.71	332242	4	1341	2	1232	2	52	22242	432	2252	2
1013	587296	67364457	49242929	18121528	.822	.83010.72	332242	4	2241	2	1232	2	52	22242	432	2252	2
1014	587324	67439945	49297579	18142366	.822	.83010.73	332242	4	1341	2	2232	2	52	22242	332	2252	2
1015	587364	67439988	49297579	18142409	.822	.83010.73	332242	4	2341	2	1232	2	52	22242	332	2252	2
1016	587373	67559158	49366438	18192720	.822	.83010.75	332242	4	1341	2	2232	2	52	22242	432	2252	2
1017	587413	67559201	49366438	18192763	.822	.83010.75	332242	4	2341	2	1232	2	52	22242	432	2252	2
1018	587475	67722752	49470273	18252479	.822	.83110.77	332242	4	2341	2	2232	2	52	22242	332	2252	2
1019	587524	67841965	49539132	18302833	.822	.83110.79	332242	4	2341	2	2232	2	52	22242	432	2252	2
1020	587535	68124609	49711826	18412783	.822	.83110.84	332242	4	3341	2	2232	2	52	22242	432	2252	2
1021	587617	69177083	50162142	19014941	.822	.83111.00	332242	4	1242	2	1232	2	52	22242	332	2252	2
1022	587666	69296296	50231001	19065295	.822	.83111.02	332242	4	1242	2	1232	2	52	22242	432	2252	2
1023	587687	69371661	50285651	19086010	.822	.83111.03	332242	4	1342	2	1232	2	52	22242	332	2252	2
1024	587704	69459815	50334836	19124979	.822	.83111.05	332242	4	2242	2	1232	2	52	22242	332	2252	2
1025	587729	69459846	50334836	19125010	.822	.83111.05	332242	4	1242	2	2232	2	52	22242	332	2252	2
1026	587736	69490874	50354510	19136364	.822	.83111.05	332242	4	1342	2	1232	2	52	22242	432	2252	2
1027	587753	69579029	50403695	19175334	.822	.83111.06	332242	4	2242	2	1232	2	52	22242	432	2252	2
1028	587777	69579060	50403695	19175365	.822	.83111.06	332242	4	1242	2	2232	2	52	22242	432	2252	2
1029	587798	69654424	50458345	19196079	.822	.83111.07	332242	4	1342	2	2232	2	52	22242	332	2252	2
1030	587815	69742579	50507530	19235049	.822	.83111.09	332242	4	2242	2	2232	2	52	22242	332	2252	2
1031	587847	69773638	50527204	19246434	.822	.83111.09	332242	4	1342	2	2232	2	52	22242	432	2252	2
1032	587864	69861792	50576389	19285403	.822	.83111.11	332242	4	2242	2	2232	2	52	22242	432	2252	2
1033	587874	69937142	50631039	19306103	.822	.83111.12	332242	4	2342	2	2232	2	52	22242	332	2252	2
1034	587923	70056356	50699898	19356458	.822	.83111.14	332242	4	2342	2	2232	2	52	22242	432	2252	2
1035	587928	70338992	50872592	19466400	.822	.83111.18	332242	4	3342	2	2232	2	52	22242	432	2252	2

958870430

TABLE VII-7
EASTERLY INTERCEPTOR
OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas: NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
1	0	0	0	0	.000	.000	0.00	11111	1	1111	1	11111	11111	1	111111
2	6451	16589	0	16589	.008	.012	0.24	11121	1	1111	1	11111	11111	1	111111
3	17372	44848	0	44848	.024	.032	0.24	11111	1	1111	1	11111	11111	1	111121
4	21395	51313	0	51313	.028	.039	0.22	11111	1	1111	1	11121	11111	1	111111
5	23823	61437	0	61437	.032	.044	0.24	11121	1	1111	1	11111	11111	1	111121
6	27846	67903	0	67903	.035	.051	0.23	11121	1	1111	1	11121	11111	1	111111
7	30861	86182	0	86182	.044	.056	0.26	11121	1	1111	1	11111	11121	1	111111
8	38767	96162	0	96162	.052	.071	0.23	11111	1	1111	1	11121	11111	1	111121
9	39015	108687	0	108687	.057	.071	0.26	11111	1	1121	1	11121	11111	1	111111
10	45218	112751	0	112751	.059	.083	0.23	11121	1	1111	1	11121	11111	1	111121
11	45805	120906	0	120906	.064	.084	0.25	11111	1	1111	1	11121	11121	1	111111
12	48233	131030	0	131030	.068	.088	0.25	11121	1	1111	1	11111	11121	1	111121
13	52256	137496	0	137496	.072	.095	0.25	11121	1	1111	1	11121	11121	1	111111
14	56187	153535	0	153535	.081	.103	0.25	11111	1	1121	1	11121	11111	1	111121
15	63177	165755	0	165755	.088	.115	0.25	11111	1	1111	1	11121	11121	1	111121
16	63425	178280	0	178280	.093	.116	0.26	11111	1	1121	1	11121	11121	1	111111
17	69628	182344	0	182344	.096	.127	0.24	11121	1	1111	1	11121	11121	1	111121
18	69876	194870	0	194870	.101	.128	0.26	11121	1	1121	1	11121	11121	1	111111
19	80797	223129	0	223129	.117	.148	0.26	11111	1	1121	1	11121	11121	1	111121
20	87248	239718	0	239718	.125	.159	0.26	11121	1	1121	1	11121	11121	1	111121
21	121332	323767	107114	216653	.090	.222	0.25	11111	1	1111	1	12111	11111	1	111111
22	127783	340357	107114	233243	.098	.233	0.25	11121	1	1111	1	12111	11111	1	111111
23	138704	368616	107114	261502	.114	.253	0.25	11111	1	1111	1	12111	11111	1	111121
24	138953	381141	107114	274027	.119	.254	0.26	11111	1	1121	1	12111	11111	1	111111
25	145155	385205	107114	278091	.122	.265	0.25	11121	1	1111	1	12111	11111	1	111121
26	145742	393360	107114	286246	.127	.266	0.25	11111	1	1111	1	12111	11121	1	111111
27	152193	409950	107114	302836	.134	.278	0.25	11121	1	1111	1	12111	11121	1	111111
28	156325	425989	107114	318875	.143	.286	0.25	11111	1	1121	1	12111	11111	1	111121
29	163114	438209	107114	331095	.151	.298	0.25	11111	1	1111	1	12111	11121	1	111121
30	163363	450734	107114	343620	.156	.298	0.26	11111	1	1121	1	12111	11121	1	111111
31	169565	454798	107114	347684	.158	.310	0.25	11121	1	1111	1	12111	11121	1	111121
32	169814	467324	107114	360210	.163	.310	0.26	11121	1	1121	1	12111	11121	1	111111
33	175684	489291	107114	382177	.177	.321	0.26	11121	1	1111	1	12121	11121	1	111121
34	180735	495583	107114	388469	.180	.330	0.26	11111	1	1121	1	12111	11121	1	111121
35	187186	512172	107114	405058	.187	.342	0.26	11121	1	1121	1	12111	11121	1	111121
36	193305	546665	107114	439551	.206	.353	0.26	11121	1	1121	1	12121	11121	1	111121
37	193730	665446	193461	471985	.195	.354	0.32	11121	1	1121	1	12121	11121	1	211111
38	199711	669888	193461	476427	.197	.365	0.31	11121	1	1121	1	12111	11121	1	211121
39	205830	704382	193461	510921	.215	.376	0.32	11121	1	1121	1	12121	11121	1	211121
40	208732	838534	277622	560912	.235	.381	0.38	11121	1	1121	1	12121	11121	1	121121
41	209679	852176	279808	572368	.219	.383	0.38	11121	1	1121	1	13121	11121	1	211121
42	211974	853171	300575	552596	.206	.387	0.38	11121	1	1121	1	12111	21121	1	211121
43	218093	887665	300575	587090	.225	.398	0.38	11121	1	1121	1	12121	21121	1	211121
44	224435	1002272	386922	615350	.213	.410	0.42	21111	1	1121	1	12111	11121	1	111121
45	227788	1015610	386922	628688	.219	.416	0.42	21121	1	1121	1	12111	11121	1	111121
46	230554	1036765	386922	649843	.231	.421	0.42	21111	1	1121	1	12121	11121	1	111121
47	233907	1050103	386922	663181	.237	.427	0.42	21121	1	1121	1	12121	11121	1	111121
48	236960	1159988	473269	686719	.222	.433	0.46	21111	1	1121	1	12111	11121	1	211121
49	240313	1173326	473269	700057	.228	.439	0.46	21121	1	1121	1	12111	11121	1	211121
50	243079	1194481	473269	721212	.241	.444	0.46	21111	1	1121	1	12121	11121	1	211121
51	246432	1207820	473269	734551	.247	.450	0.46	21121	1	1121	1	12121	11121	1	211121

958870431

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NLN CS	NLN SS	NLS CS	NLS SS	SE CS	SSE CS	SSE SS	SSW CS
52	249334	1341972	557430	784542	.267	.455	0.50	21121	1	1121	1	12121	11121	1	121121
53	250282	1355614	559616	795998	.251	.457	0.51	21121	1	1121	1	13121	11121	1	211121
54	252577	1356609	580383	776226	.238	.461	0.50	21121	1	1121	1	12111	21121	1	211121
55	255342	1377764	580383	797381	.250	.466	0.50	21111	1	1121	1	12121	21121	1	211121
56	258696	1391102	580383	810719	.256	.472	0.50	21121	1	1121	1	12121	21121	1	211121
57	261598	1525255	664544	860711	.276	.478	0.54	21121	1	1121	1	12121	21121	1	121121
58	262545	1538896	666730	872166	.260	.480	0.55	21121	1	1121	1	13121	21121	1	211121
59	263322	1641815	750891	890924	.263	.481	0.58	21121	1	1121	1	12111	21121	1	221121
60	266088	1662970	750891	912079	.276	.486	0.58	21111	1	1121	1	12121	21121	1	221121
61	269442	1676308	750891	925417	.282	.492	0.58	21121	1	1121	1	12121	21121	1	221121
62	270680	1765269	824122	941147	.287	.494	0.61	21121	2	1121	1	12121	21121	1	211121
63	271230	1773695	766193	1007502	.312	.495	0.61	21121	1	1121	2	12121	11121	1	211121
64	271973	1821197	837238	983959	.284	.497	0.63	21121	1	2121	1	12121	21121	1	221121
65	273291	1824102	837238	986864	.286	.499	0.62	21121	1	1121	1	13121	21121	1	221121
66	275662	1850997	888609	962388	.301	.503	0.63	21111	1	1121	1	12121	21121	2	211121
67	279016	1884335	888609	975726	.307	.510	0.62	21121	1	1121	1	12121	21121	2	211121
68	280140	1943639	873307	1070332	.316	.512	0.65	21111	1	1121	2	12121	21121	1	211121
69	283494	1956978	873307	1083671	.322	.518	0.65	21121	1	1121	2	12121	21121	1	211121
70	286396	2091130	957468	1133662	.342	.523	0.68	21121	1	1121	2	12121	21121	1	121121
71	287343	2104772	959654	1145118	.326	.525	0.68	21121	1	1121	2	13121	21121	1	211121
72	289762	2149540	1059117	1090423	.333	.529	0.69	21121	1	1121	1	12121	21121	2	221121
73	290886	2228845	1043815	1185030	.341	.531	0.72	21111	1	1121	2	12121	21121	1	221121
74	291000	2238502	1132398	1106154	.338	.531	0.72	21121	2	1121	1	12121	21121	2	211121
75	294240	2242183	1043815	1198368	.347	.537	0.71	21121	1	1121	2	12121	21121	1	221121
76	295478	2331144	1117046	1214098	.352	.540	0.74	21121	2	1121	2	12121	21121	1	211121
77	295494	2385464	1130162	1255302	.348	.540	0.75	21121	1	1121	2	12121	21121	1	321121
78	296771	2387072	1130162	1256910	.349	.542	0.75	21121	1	2121	2	12121	21121	1	221121
79	298089	2389977	1130162	1259815	.351	.544	0.75	21121	1	1121	2	13121	21121	1	221121
80	300460	2416872	1181533	1235339	.367	.549	0.75	21111	1	1121	2	12121	21121	2	211121
81	303814	2430210	1181533	1248677	.373	.555	0.75	21121	1	1121	2	12121	21121	2	211121
82	306716	2564363	1265694	1298669	.393	.560	0.78	21121	1	1121	2	12121	21121	2	121121
83	307663	2578004	1267880	1310124	.377	.562	0.78	21121	1	1121	2	13121	21121	2	211121
84	308440	2680922	1352041	1328881	.380	.563	0.81	21121	1	1121	2	12111	21121	2	221121
85	311206	2702077	1352041	1350036	.392	.568	0.81	21111	1	1121	2	12121	21121	2	221121
86	314560	2715415	1352041	1363374	.398	.575	0.81	21121	1	1121	2	12121	21121	2	221121
87	315798	2804377	1425272	1379105	.403	.577	0.83	21121	2	1121	2	12121	21121	2	211121
88	315814	2858697	1438388	1420309	.399	.577	0.85	21121	1	1121	2	12121	21121	2	321121
89	317091	2860304	1438388	1421916	.400	.579	0.84	21121	1	2121	2	12121	21121	2	221121
90	318409	2863209	1438388	1424821	.402	.582	0.84	21121	1	1121	2	13121	21121	2	221121
91	318700	2938530	1509433	1429097	.424	.582	0.86	21121	2	1121	2	12121	21121	2	121121
92	319647	2952171	1511619	1440552	.407	.584	0.86	21121	2	1121	2	13121	21121	2	211121
93	319663	3006491	1524735	1481756	.403	.584	0.88	21121	1	1121	2	13121	21121	2	321121
94	320940	3008098	1524735	1483363	.404	.586	0.88	21121	1	2121	2	13121	21121	2	221121
95	321190	3076244	1595780	1480464	.423	.590	0.89	21111	2	1121	2	12121	21121	2	221121
96	326544	3089582	1595780	1493802	.429	.596	0.88	21121	2	1121	2	12121	21121	2	221121
97	326739	3159222	1652616	1506606	.433	.597	0.90	21121	3	1121	2	12121	21121	2	211121
98	327040	3224038	1682127	1541911	.427	.597	0.92	21111	2	1121	2	13121	21121	2	221121
99	327389	3232342	1682127	1550215	.430	.598	0.92	21121	2	1121	2	12121	31121	2	221121
100	327798	3232864	1682127	1550737	.430	.599	0.92	21121	2	1121	2	12121	21121	2	321121
101	329075	3234471	1682127	1552344	.431	.601	0.92	21121	2	2121	2	12121	21121	2	221121
102	330393	3237376	1682127	1555249	.433	.603	0.92	21121	2	1121	2	13121	21121	2	221121
103	330588	3307016	1748963	1568053	.437	.604	0.93	21121	3	1121	2	13121	21121	2	211121
104	331239	3310136	1748974	1611662	.434	.605	0.95	21121	2	1121	2	13121	31121	2	221121
105	331647	3310656	1748974	1612184	.434	.606	0.95	21121	2	1121	2	13121	21121	2	321121
106	332924	3312205	1748974	1613731	.435	.608	0.95	21121	2	2121	2	13121	21121	2	221121
107	333564	3328131	1812041	1606100	.452	.609	0.96	21221	1	1121	2	12121	21121	2	221121
108	335131	3331089	1812124	1607965	.451	.610	0.96	21111	3	1121	2	12121	21121	2	221121
109	337485	3444427	1823124	1621303	.459	.616	0.95	21121	3	1121	2	12121	21121	2	221121
110	337981	3448003	1909471	1669412	.457	.617	0.99	21111	3	1121	2	13121	21121	2	221121
								[illegible]	[illegible]	[illegible]	2	12121	21121	2	221121

TABLE VII-7
EASTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870432

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
112	338739	3587708	1909471	1678237	.460	.619	0.99	21121	3	1121	2	12121	21121	2	321121
113	340016	3589316	1909471	1679845	.461	.621	0.99	21121	3	2121	2	12121	21121	2	221121
114	341334	3592221	1909471	1682750	.463	.623	0.98	21121	3	1121	2	13121	21121	2	221121
115	342180	3734980	1995818	1739162	.464	.625	1.02	21121	3	1121	2	13121	31121	2	221121
116	342588	3735502	1995818	1739684	.464	.626	1.02	21121	3	1121	2	13121	21121	2	321121
117	343865	3737110	1995818	1741292	.465	.628	1.02	21121	3	2121	2	13121	21121	2	221121
118	345548	3802298	2065770	1736528	.483	.631	1.03	21221	2	1121	2	12121	21121	2	221121
119	345810	3844979	2110583	1734396	.482	.632	1.04	21121	4	1121	2	12121	21121	2	221121
120	346176	3939571	2152117	1787454	.482	.632	1.06	21211	2	2121	2	12121	21121	2	221121
121	347494	3942476	2152117	1790359	.484	.635	1.06	21211	2	1121	2	13121	21121	2	221121
122	348079	3947187	2152117	1795070	.485	.636	1.06	21221	2	2121	2	12121	21121	2	221121
123	349397	3950092	2152117	1797975	.487	.638	1.06	21221	2	1121	2	13121	21121	2	221121
124	349659	3992773	2196930	1795843	.486	.639	1.07	21121	4	1121	2	13121	21121	2	221121
125	350025	4087365	2238464	1848901	.486	.639	1.09	21211	2	2121	2	13121	21121	2	221121
126	350243	4092851	2238464	1854387	.488	.640	1.09	21221	2	1121	2	13121	31121	2	221121
127	350651	4093373	2238464	1854909	.488	.640	1.09	21221	2	1121	2	13121	21121	2	321121
128	351928	4094981	2238464	1856517	.489	.643	1.09	21221	2	2121	2	13121	21121	2	221121
129	352190	4137662	2283277	1854385	.488	.643	1.10	21121	4	2121	2	13121	21121	2	221121
130	354585	4149527	2293114	1856413	.509	.648	1.09	21211	3	1121	2	12121	21121	2	221121
131	356489	4157143	2293114	1864029	.512	.651	1.09	21221	3	1121	2	12121	21121	2	221121
132	357117	4294416	2379461	1914955	.512	.652	1.12	21211	3	2121	2	12121	21121	2	221121
133	358435	4297321	2379461	1917860	.513	.655	1.12	21211	3	1121	2	13121	21121	2	221121
134	359020	4302031	2379461	1922570	.515	.656	1.12	21221	3	2121	2	12121	21121	2	221121
135	360338	4304937	2379461	1925476	.516	.658	1.12	21221	3	1121	2	13121	21121	2	221121
136	360966	4442210	2465808	1976402	.516	.659	1.15	21211	3	2121	2	13121	21121	2	221121
137	361184	4447696	2465808	1981888	.517	.660	1.15	21221	3	1121	2	13121	31121	2	221121
138	361592	4448218	2465808	1982410	.518	.660	1.15	21221	3	1121	2	13121	21121	2	321121
139	362869	4449825	2465808	1984017	.519	.663	1.15	21221	3	2121	2	13121	21121	2	221121
140	362910	4550079	2580573	1969506	.533	.663	1.17	21211	4	1121	2	12121	21121	2	221121
141	364814	4557694	2580573	1977121	.536	.666	1.17	21221	4	1121	2	12121	21121	2	221121
142	365442	4694968	2666920	2028048	.535	.667	1.20	21211	4	2121	2	12121	21121	2	221121
143	366760	4697873	2666920	2030953	.537	.670	1.20	21211	4	1121	2	13121	21121	2	221121
144	367345	4702583	2666920	2035663	.538	.671	1.20	21221	4	2121	2	12121	21121	2	221121
145	368663	4705488	2666920	2038568	.540	.673	1.19	21221	4	1121	2	13121	21121	2	221121
146	369291	4842762	2753267	2089495	.539	.674	1.23	21211	4	2121	2	13121	21121	2	221121
147	369509	4848248	2753267	2094981	.541	.675	1.23	21221	4	1121	2	13121	31121	2	221121
148	369917	4848770	2753267	2095503	.541	.676	1.23	21221	4	1121	2	13121	21121	2	321121
149	371194	4850377	2753267	2097110	.542	.678	1.22	21221	4	2121	2	13121	21121	2	221121
150	372040	4993137	2839614	2153523	.543	.680	1.25	21221	4	2121	2	13121	31121	2	221121
151	372449	4993659	2839614	2154045	.543	.680	1.25	21221	4	2121	2	13121	21121	2	321121
152	372501	5113095	2908473	2204622	.543	.680	1.28	21221	4	2121	2	13121	41121	2	221121
153	373019	5115922	2925961	2209961	.544	.681	1.29	21221	4	2121	2	13121	21121	2	421121
154	373295	5136418	2925961	2210457	.544	.682	1.29	21221	4	2121	2	13121	31121	2	321121
155	373755	5256376	2994820	2261556	.544	.683	1.31	21221	4	2121	2	13121	41121	2	321121
156	374791	5275202	3134724	2140478	.554	.685	1.32	21221	4	1121	2	13121	22121	2	221121
157	375419	5412475	3221071	2191404	.553	.686	1.35	21211	4	2121	2	13121	22121	2	221121
158	375506	5417729	3221071	2196658	.555	.686	1.35	21221	4	1121	2	13121	32121	2	221121
159	376045	5418484	3221071	2197413	.556	.687	1.35	21221	4	1121	2	13121	22121	2	321121
160	377322	5420091	3221071	2199020	.556	.689	1.34	21221	4	2121	2	13121	22121	2	221121
161	378037	5562618	3307418	2255200	.557	.690	1.38	21221	4	2121	2	13121	32121	2	221121
162	378576	5563372	3307418	2255954	.558	.691	1.37	21221	4	2121	2	13121	22121	2	321121
163	379147	5705635	3393765	2311870	.558	.692	1.41	21221	4	2121	2	13121	22121	2	421121
164	379291	5705899	3393765	2312134	.558	.693	1.41	21221	4	2121	2	13121	32121	2	321121
165	379680	5825727	3462624	2363103	.559	.693	1.43	21221	4	2121	2	13121	42121	2	321121
166	379862	5848162	3480112	2368050	.559	.694	1.44	21221	4	2121	2	13121	32121	2	421121
167	380251	5967989	3548971	2419018	.559	.695	1.47	21221	4	2121	2	13121	42121	2	421121
168	381285	6272778	3944544	2329234	.556	.696	1.54	21221	3	2121	2	13121	21221	2	221121
169	381126	6373031	4058309	2314722	.570	.696	1.56	21211	4	1121	2	12121	21221	2	221121
170	383230	6380647	4058309	2322338	.573	.700	1.56	21221	4	1121	2	12121	21221	2	221121

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

958870433

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	DOLLAR BOD	PER LB	Tributary Area NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
171	383714	6482654	4223352	2259292	.571	.701	1.58	21221	3	1121	2	13121	11321	2	221121
172	383858	6517920	4144656	2373264	.572	.701	1.59	21211	4	2121	2	12121	21221	2	221121
173	385176	6520825	4144656	2376169	.574	.704	1.58	21211	4	1121	2	13121	21221	2	221121
174	385761	6525536	4144656	2380880	.575	.705	1.58	21221	4	2121	2	12121	21221	2	221121
175	387079	6528441	4144656	2383785	.577	.707	1.58	21221	4	1121	2	13121	21221	2	221121
176	387548	6655096	4330466	2324630	.575	.708	1.60	21221	3	1121	2	13121	21321	2	221121
177	387707	6665714	4231003	2434711	.576	.708	1.61	21211	4	2121	2	13121	21221	2	221121
178	388333	6671722	4231003	2440719	.578	.709	1.61	21221	4	1121	2	13121	21221	2	321121
179	389610	6673330	4231003	2442327	.579	.712	1.60	21221	4	2121	2	13121	21221	2	221121
180	390080	6799985	4416813	2383172	.577	.712	1.63	21221	3	2121	2	13121	21321	2	221121
181	390865	6816611	4317350	2499261	.580	.714	1.63	21221	4	2121	2	13121	21221	2	321121
182	392039	6863196	4510811	2372385	.594	.716	1.64	21221	4	1121	2	13121	11321	2	221121
183	392867	7020469	4597158	2423311	.594	.717	1.67	21211	4	2121	2	13121	11321	2	221121
184	393293	7026477	4597158	2429319	.596	.718	1.67	21221	4	1121	2	13121	11321	2	321121
185	394570	7028085	4597158	2430927	.597	.721	1.66	21221	4	2121	2	13121	11321	2	221121
186	395873	7055648	4617925	2437723	.598	.723	1.67	21221	4	1121	2	13121	21321	2	221121
187	396501	7192921	4704272	2488649	.597	.724	1.70	21211	4	2121	2	13121	21321	2	221121
188	397128	7198929	4704272	2494657	.599	.725	1.69	21221	4	1121	2	13121	21321	2	321121
189	398405	7200537	4704272	2496265	.600	.728	1.69	21221	4	2121	2	13121	21321	2	221121
190	398869	7342352	4790619	2551733	.600	.728	1.72	21221	4	2121	2	13121	31321	2	221121
191	399659	7343818	4790619	2553199	.601	.730	1.72	21221	4	2121	2	13121	21321	2	321121
192	400002	7408886	5048567	2420319	.614	.731	1.75	21211	4	1121	2	13121	11421	2	221121
193	400587	7473597	5048567	2425030	.615	.732	1.74	21221	4	2121	2	12121	11421	2	221121
194	401905	7476502	5048567	2427935	.617	.734	1.74	21221	4	1121	2	13121	11421	2	221121
195	402533	7613775	5134914	2478861	.616	.735	1.77	21211	4	2121	2	13121	11421	2	221121
196	403159	7619783	5134914	2484869	.618	.736	1.77	21221	4	1121	2	13121	11421	2	321121
197	404436	7621391	5134914	2486477	.619	.739	1.76	21221	4	2121	2	13121	11421	2	221121
198	405691	7764672	5221261	2543411	.620	.741	1.79	21221	4	2121	2	13121	11421	2	321121
199	405937	7790287	5242028	2548259	.620	.741	1.79	21221	4	2121	2	13121	21421	2	221121
200	406261	7906935	5307608	2599327	.621	.742	1.82	21221	4	2121	2	13121	11421	2	421121
201	407192	7913568	5328375	2605193	.621	.744	1.82	21221	4	2121	2	13121	21421	2	321121
202	407295	8075070	5414722	2660348	.621	.744	1.85	21221	4	2121	2	13121	31421	2	321121
203	407762	8075831	5414722	2661109	.622	.745	1.85	21221	4	2121	2	13121	21421	2	421121
204	407866	8217333	5501069	2716264	.622	.745	1.88	21221	4	2121	2	13121	31421	2	421121
205	407922	8336586	5569928	2766658	.622	.745	1.91	21221	4	2121	2	13121	41421	2	421121
206	407942	8482372	5796179	2686193	.623	.745	1.94	21221	4	2121	2	13121	22421	2	321121
207	408029	8623844	5882526	2741318	.623	.745	1.98	21221	4	2121	2	13121	32421	2	321121
208	408512	8624635	5882526	2742109	.624	.746	1.97	21221	4	2121	2	13121	22421	2	421121
209	408600	8766106	5968873	2797233	.624	.746	2.01	21221	4	2121	2	13121	32421	2	421121
210	408647	8805343	6037732	2847611	.624	.746	2.03	21221	4	2121	2	13121	42421	2	421121
211	409394	8904974	6133916	2771058	.630	.748	2.03	21221	4	1221	2	13121	11421	2	321121
212	409613	8905214	6133916	2771298	.630	.748	2.03	21221	4	2221	2	13121	11421	2	221121
213	409641	8930589	6154663	2775906	.630	.748	2.04	21221	4	1221	2	13121	21421	2	221121
214	409965	9047237	6220263	2826974	.630	.749	2.06	21221	4	1221	2	13121	11421	2	421121
215	410867	9048496	6220263	2828233	.631	.750	2.06	21221	4	2221	2	13121	11421	2	321121
216	410895	9073870	6241030	2832840	.631	.750	2.06	21221	4	1221	2	13121	21421	2	321121
217	411114	9074111	6241030	2833081	.631	.751	2.06	21221	4	2221	2	13121	21421	2	221121
218	411438	9190759	6306610	2884149	.632	.751	2.09	21221	4	2221	2	13121	11421	2	421121
219	411541	9205592	6174376	2831216	.703	.752	2.09	21221	4	2121	2	12321	32121	2	321121
220	412168	9211392	6127377	2890015	.632	.753	2.09	21221	4	2221	2	13121	21421	2	321121
221	413063	9262475	6501490	2780985	.634	.754	2.10	21221	4	2121	2	13121	11421	2	222121
222	413717	9404894	6501837	2837057	.635	.756	2.12	21221	4	2121	2	13121	11421	2	322121
223	414564	9431371	6508604	2842767	.635	.757	2.13	21221	4	2121	2	13121	21421	2	222121
224	414668	9572873	6674951	2897922	.635	.757	2.16	21221	4	2121	2	13121	31421	2	222121
225	415218	9573791	6674951	2898840	.636	.758	2.15	21221	4	2121	2	13121	21421	2	322121
226	415487	9630805	6844366	2786439	.635	.759	2.17	21221	4	2121	2	13121	21421	2	213121
227	415958	9657375	6195124	3462251	.645	.760	2.17	21212	4	2121	2	13121	11421	2	221121
228	416909	9662732	6195124	3467608	.646	.761	2.17	21222	4	2121	2	13121	11421	2	221121
229	417095	9718743	6907760	2810983	.642	.762	2.18	21221	4	2121	2	13121	11421	2	223121

TABLE VII-7
EASTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870434

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	DOLLAR BOD	PER LB	Tributary Areas NEN CS	NEN SS	NLS CS	NLS SS	SE CS	SSE CS	SSE SS	SSW CS
230	417212	9800656	6281471	3519185	.646	.762	2.20	21212	4	2121	2	13121	11421	2	321121
231	418164	9806013	6281471	3524542	.648	.764	2.19	21222	4	2121	2	13121	11421	2	321121
232	418410	9831628	6302238	3529390	.648	.764	2.20	21222	4	2121	2	13121	21421	2	221121
233	418596	9867639	7014874	2872765	.644	.765	2.21	21221	4	2121	2	13121	21421	2	223121
234	419279	9925286	7049850	2875436	.712	.766	2.21	21221	4	2121	2	12221	11321	2	221121
235	420582	9952849	7070617	2882232	.714	.768	2.21	21221	4	1121	2	12221	21321	2	221121
236	421107	10086370	7156964	2929406	.711	.769	2.24	21221	4	2121	2	12211	21321	2	221121
237	421210	10090122	7156964	2933158	.713	.769	2.24	21211	4	2121	2	12221	21321	2	221121
238	421844	10096022	7156964	2939058	.715	.770	2.24	21221	4	1121	2	13221	21321	2	221121
239	423113	10097738	7156964	2940774	.716	.773	2.23	21221	4	2121	2	12221	21321	2	221121
240	423378	10239553	7243311	2996242	.716	.773	2.26	21221	4	2121	2	12221	31321	2	221121
241	424375	10240911	7243311	2997600	.717	.775	2.26	21221	4	2121	2	13221	21321	2	221121
242	424608	10362335	7501259	2861076	.728	.776	2.28	21221	4	1121	2	12211	11421	2	221121
243	424710	10366088	7501259	2864829	.730	.776	2.28	21211	4	1121	2	12221	11421	2	221121
244	426614	10373703	7501259	2872444	.733	.779	2.27	21221	4	1121	2	12221	11421	2	221121
245	427139	10507224	7587606	2919618	.730	.780	2.30	21221	4	2121	2	12211	11421	2	221121
246	427242	10510976	7587606	2923370	.732	.780	2.30	21211	4	2121	2	12221	11421	2	221121
247	427875	10516876	7587606	2929270	.734	.781	2.30	21221	4	1121	2	13221	11421	2	221121
248	429145	10518592	7587606	2930986	.735	.784	2.29	21221	4	2121	2	12221	11421	2	221121
249	430407	10661765	7673953	2987812	.736	.786	2.32	21221	4	2121	2	13221	11421	2	221121
250	430646	10687488	7694720	2992768	.736	.787	2.32	21221	4	2121	2	12221	21421	2	221121
251	430655	10700230	7684883	3015347	.744	.787	2.32	21221	4	2121	2	12321	21321	2	221121
252	430970	10804136	7760300	3043836	.737	.787	2.34	21221	4	2121	2	12221	11421	2	421121
253	431661	10805047	7760300	3044747	.737	.788	2.34	21221	4	2121	2	13221	11421	2	321121
254	431908	10830661	7781067	3049594	.737	.789	2.34	21221	4	2121	2	13221	21421	2	221121
255	431909	10843511	7771230	3072281	.746	.789	2.35	21221	4	2121	2	12321	21321	2	321121
256	432232	10947309	7846647	3100662	.738	.789	2.37	21221	4	2121	2	13221	11421	2	421121
257	432252	10968579	8029178	2939401	.758	.789	2.37	21211	4	1121	2	12321	11421	2	221121
258	433236	10971075	8029178	2941897	.759	.791	2.37	21221	4	1121	2	12311	11421	2	221121
259	434155	10976195	8029178	2947017	.761	.793	2.36	21221	4	1121	2	12321	11421	2	221121
260	434783	11113468	8115525	2997943	.760	.794	2.39	21211	4	2121	2	12321	11421	2	221121
261	435767	11115964	8115525	3000439	.761	.796	2.38	21221	4	2121	2	12311	11421	2	221121
262	436687	11121084	8115525	3005559	.763	.798	2.38	21221	4	2121	2	12321	11421	2	221121
263	437021	11259245	8201872	3057373	.763	.798	2.41	21221	4	2121	2	12311	11421	2	321121
264	437265	11263133	8201872	3061261	.764	.799	2.41	21221	4	2121	2	13321	11421	2	221121
265	437941	11264365	8201872	3062493	.764	.800	2.40	21221	4	2121	2	12321	11421	2	321121
266	438188	11289980	8222639	3067341	.765	.800	2.41	21221	4	2121	2	12321	21421	2	221121
267	438519	11406415	8288219	3118196	.765	.801	2.43	21221	4	2121	2	13321	11421	2	321121
268	438522	11428142	8308986	3119156	.764	.801	2.44	21221	4	2121	2	12311	21421	2	321121
269	438766	11432030	8308986	3123044	.765	.801	2.44	21221	4	2121	2	13321	21421	2	221121
270	439442	11433261	8308986	3124275	.766	.803	2.43	21221	4	2121	2	12321	21421	2	321121
271	439545	11574763	8395333	3179430	.766	.803	2.46	21221	4	2121	2	12321	31421	2	321121
272	440020	11575311	8395333	3179978	.766	.804	2.46	21221	4	2121	2	13321	21421	2	321121
273	440124	11716813	8481680	3235133	.766	.804	2.49	21221	4	2121	2	13321	31421	2	321121
274	440591	11717574	8481680	3235894	.767	.805	2.49	21221	4	2121	2	13321	21421	2	421121
275	441045	11752613	8650002	3102611	.773	.806	2.49	21221	4	2121	2	12421	11421	2	321121
276	441291	11778228	8670769	3107459	.774	.806	2.49	21221	4	2121	2	12421	21421	2	221121
277	441342	11894286	8736349	3157937	.774	.806	2.52	21221	4	2121	2	13421	11421	2	321121
278	441615	11894876	8736349	3158527	.774	.807	2.52	21221	4	2121	2	12421	11421	2	421121
279	442073	11918715	8757116	3161599	.774	.807	2.52	21221	4	2121	2	12411	21421	2	321121
280	442546	11921509	8757116	3164393	.775	.808	2.52	21221	4	2121	2	12421	21421	2	321121
281	442644	12060977	8843463	3217514	.774	.808	2.55	21221	4	2121	2	12411	21421	2	421121
282	442649	12063011	8843463	3219548	.775	.808	2.55	21221	4	2121	2	12421	31421	2	321121
283	442843	12063183	8843463	3219720	.775	.809	2.55	21221	4	2121	2	13421	21421	2	321121
284	443116	12063772	8843463	3220309	.775	.809	2.54	21221	4	2121	2	12421	21421	2	421121
285	443220	12205274	8929810	3275464	.775	.810	2.57	21221	4	2121	2	12421	31421	2	421121
286	443413	12205445	8929810	3275635	.776	.810	2.57	21221	4	2121	2	13421	21421	2	421121
287	443517	12346947	9016157	3330790	.776	.810	2.60	21221	4	2121	2	13421	31421	2	421121
288	443573	12466200	9085016	3381184	.776	.810	2.63	21221	4	2121	2	13421	41421	2	421121
289	443593	12611986	9311267	3300719	.777	.810	2.66	21221	4	2121	2	13421	22421	2	321121
290	443866	12612576	9311267	3301309	.777	.811	2.66	21221	4	2121	2	12421	22421	2	421121

TABLE VII-7 continued **958870435**

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
291	443942	12715853	9307988	3407865	.776	.811	2.68	21221	4	2221	2	13321	21421	2	221121
292	444618	12717085	9307988	3409097	.777	.812	2.67	21221	4	2221	2	12321	21421	2	321121
293	445314	12762168	9462101	3300067	.779	.813	2.68	21221	4	2121	2	12321	11421	2	222121
294	445892	12904218	9548448	3355770	.779	.814	2.70	21221	4	2121	2	13321	11421	2	222121
295	445967	12904587	9548448	3356139	.779	.815	2.70	21221	4	2121	2	12321	11421	2	322121
296	446815	12931064	9569215	3361849	.780	.816	2.70	21221	4	2121	2	12321	21421	2	222121
297	446918	13072566	9655562	3417004	.780	.816	2.73	21221	4	2121	2	12321	31421	2	222121
298	447393	13073114	9655562	3417552	.780	.817	2.73	21221	4	2121	2	13321	21421	2	222121
299	447468	13073483	9655562	3417921	.780	.817	2.73	21221	4	2121	2	12321	21421	2	322121
300	447657	13130498	9824977	3305521	.779	.818	2.74	21221	4	2121	2	12321	21421	2	213121
301	448208	13157067	9175735	3981332	.789	.819	2.74	21212	4	2121	2	12321	11421	2	221121
302	448240	13157305	9175735	3981570	.789	.819	2.74	21222	4	2121	2	12311	11421	2	221121
303	449160	13162425	9175735	3986690	.791	.820	2.74	21222	4	2121	2	12321	11421	2	221121
304	449346	13218436	9888371	3330065	.787	.821	2.75	21221	4	2121	2	12321	11421	2	223121
305	449462	13300349	9262082	4038267	.791	.821	2.77	21212	4	2121	2	12321	11421	2	321121
306	449494	13300587	9262082	4038505	.790	.821	2.77	21222	4	2121	2	12311	11421	2	321121
307	449738	13304474	9262082	4042392	.791	.821	2.76	21222	4	2121	2	13321	11421	2	221121
308	450414	13305706	9262082	4043624	.792	.823	2.76	21222	4	2121	2	12321	11421	2	321121
309	450661	13331321	9282849	4048472	.792	.823	2.76	21222	4	2121	2	12321	21421	2	221121
310	450847	13387332	9995485	3391847	.788	.823	2.78	21221	4	2121	2	12321	21421	2	223121
311	450992	13447756	9348429	4099327	.792	.824	2.79	21222	4	2121	2	13321	11421	2	321121
312	451651	13468571	10184574	3283997	.791	.825	2.79	21221	4	2121	2	12321	11421	2	214121
313	451915	13474602	9369196	4105406	.793	.825	2.79	21222	4	2121	2	12321	21421	2	321121
314	451957	13573479	10268735	3304744	.794	.825	2.81	21221	4	2121	2	12321	11421	2	124121
315	452229	13610621	10270921	3339700	.792	.826	2.81	21221	4	2121	2	13321	11421	2	214121
316	452493	13616652	9455543	4161109	.794	.826	2.81	21222	4	2121	2	13321	21421	2	321121
317	453152	13637468	10291688	3345780	.793	.828	2.81	21221	4	2121	2	12321	21421	2	214121
318	453458	13742375	10375849	3366526	.795	.828	2.83	21221	4	2121	2	12321	21421	2	124121
319	453730	13779517	10378035	3401482	.793	.829	2.84	21221	4	2121	2	13321	21421	2	214121
320	453764	13819569	9730979	4088590	.801	.829	2.85	21222	4	2121	2	12421	21421	2	221121
321	453950	13875580	10443615	3431965	.797	.829	2.86	21221	4	2121	2	12421	21421	2	223121
322	454037	13884425	10462196	3422229	.796	.829	2.86	21221	4	2121	2	13321	21421	2	124121
323	454288	13884845	10462196	3422649	.796	.830	2.86	21221	4	2121	2	12321	21421	2	224121
324	454754	13956820	10632704	3324116	.800	.831	2.87	21221	4	2121	2	12421	11421	2	214121
325	455019	13962851	9817326	4145525	.802	.831	2.87	21222	4	2121	2	12421	21421	2	321121
326	455061	14061727	10716865	3344862	.803	.831	2.89	21221	4	2121	2	12421	11421	2	124121
327	455117	14102318	9903673	4198645	.802	.831	2.90	21222	4	2121	2	12411	21421	2	421121
328	455122	14104352	9903673	4200679	.802	.831	2.90	21222	4	2121	2	12421	31421	2	321121
329	455316	14104524	9903673	4200851	.803	.832	2.90	21222	4	2121	2	13421	21421	2	321121
330	455589	14105113	9903673	4201440	.803	.832	2.89	21222	4	2121	2	12421	21421	2	421121
331	455783	14122921	10739818	3383103	.801	.832	2.90	21221	4	2121	2	12411	21421	2	214121
332	456255	14125716	10739818	3385898	.802	.833	2.89	21221	4	2121	2	12421	21421	2	214121
333	456562	14230623	10823979	3406644	.804	.834	2.91	21221	4	2121	2	12421	21421	2	124121
334	456590	14369214	10910326	3458888	.803	.834	2.94	21221	4	2121	2	12421	21421	2	224111
335	456919	14370299	10910326	3459973	.804	.835	2.94	21221	4	2121	2	12411	21421	2	224121
336	457391	14373094	10910326	3462768	.805	.835	2.94	21221	4	2121	2	12421	21421	2	224121
337	457495	14514595	10996673	3517922	.805	.836	2.97	21221	4	2121	2	12421	31421	2	224121
338	457524	14514643	10996673	3517970	.805	.836	2.96	21221	4	2121	2	12421	21421	2	324121
339	457688	14514767	10996673	3518094	.805	.836	2.96	21221	4	2121	2	13421	21421	2	224121
340	457792	14656268	11083020	3573248	.805	.836	2.99	21221	4	2121	2	13421	31421	2	224121
341	457821	14656316	11083020	3573296	.805	.836	2.99	21221	4	2121	2	13421	21421	2	324121
342	457848	14775521	11151879	3623642	.805	.836	3.02	21221	4	2121	2	13421	41421	2	224121
343	457881	14797744	11169367	3628377	.805	.836	3.02	21221	4	2121	2	13421	21421	2	424121
344	457925	14797818	11169367	3628451	.805	.836	3.02	21221	4	2121	2	13421	31421	2	324121
345	457981	14917071	11238226	3678845	.805	.836	3.04	21221	4	2121	2	13421	41421	2	324121
346	458328	14921291	11290690	3630601	.804	.837	3.04	21221	4	2221	2	12321	21421	2	214121
347	458365	14945559	10608658	4336901	.807	.837	3.05	21222	4	2121	2	13321	11421	2	222121
348	458440	14945928	10608658	4337270	.807	.837	3.05	21222	4	2121	2	12321	11421	2	322121
349	459288	14972405	10629425	4342980	.807	.839	3.05	21222	4	2121	2	12321	21421	2	222121
350	459391	15113907	10715772	4398135	.807	.839	3.07	21222	4	2121	2	12321	31421	2	222121

TABLE VII-7
EASTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870436

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SSE CS	SSE SS	SSW CS
351	459866	15114455	10715772	4398683	.808	.840	3.07	21222	4	2121	2	13321	21421	2 222121
352	459941	15114824	10715772	4399052	.808	.840	3.07	21222	4	2121	2	12321	21421	2 322121
353	460130	15171839	10885187	4286652	.807	.840	3.08	21222	4	2121	2	12321	21421	2 213121
354	460268	15221758	11072090	4149668	.816	.841	3.09	21222	4	1121	2	12321	11421	2 114121
355	460867	15254420	10948581	4305839	.813	.842	3.09	21212	4	2121	2	12321	11421	2 223121
356	460899	15254657	10948581	4306076	.812	.842	3.09	21222	4	2121	2	12311	11421	2 223121
357	461819	15259777	10948581	4311196	.814	.843	3.09	21222	4	2121	2	12321	11421	2 223121
358	461848	15361290	11158437	4202853	.816	.844	3.11	21212	4	2121	2	12321	11421	2 114121
359	461880	15361528	11158437	4203091	.816	.844	3.11	21222	4	2121	2	12311	11421	2 114121
360	462800	15366647	11158437	4208210	.818	.845	3.10	21222	4	2121	2	12321	11421	2 114121
361	463420	15428673	11055695	4372978	.816	.846	3.11	21222	4	2121	2	12321	21421	2 223121
362	463378	15508697	11244784	4263913	.818	.846	3.13	21222	4	2121	2	13321	11421	2 114121
363	464124	15509912	11244784	4265128	.819	.848	3.12	21222	4	2121	2	12321	11421	2 214121
364	464301	15535543	11265551	4269992	.819	.848	3.13	21222	4	2121	2	12321	21421	2 114121
365	464430	15614820	11328945	4285875	.821	.848	3.14	21222	4	2121	2	12321	11421	2 124121
366	464702	15651962	11331131	4320831	.819	.849	3.15	21222	4	2121	2	13321	11421	2 214121
367	464705	15673689	11351898	4321791	.818	.849	3.15	21222	4	2121	2	12311	21421	2 214121
368	464879	15677593	11351898	4325695	.819	.849	3.15	21222	4	2121	2	13321	21421	2 114121
369	465625	15678809	11351898	4326911	.820	.850	3.15	21222	4	2121	2	12321	21421	2 214121
370	465931	15763716	11436059	4347657	.823	.851	3.17	21222	4	2121	2	12321	21421	2 124121
371	466203	15820858	11438245	4382613	.821	.851	3.17	21222	4	2121	2	13321	21421	2 214121
372	466423	15916921	11503825	4413096	.825	.852	3.19	21222	4	2121	2	12421	21421	2 223121
373	466510	15925766	11522406	4403360	.823	.852	3.19	21222	4	2121	2	13321	21421	2 124121
374	466761	15926186	11522406	4403780	.823	.853	3.19	21222	4	2121	2	12321	21421	2 224121
375	467227	15958161	11692914	4305247	.828	.853	3.20	21222	4	2121	2	12421	11421	2 214121
376	467404	16023792	11713681	4310111	.828	.854	3.20	21222	4	2121	2	12421	21421	2 114121
377	467534	16103068	11777075	4325993	.830	.854	3.22	21222	4	2121	2	12421	11421	2 124121
378	467777	16161700	11800028	4361672	.828	.854	3.23	21212	4	2121	2	12421	21421	2 214121
379	468256	16164262	11800028	4364234	.828	.855	3.23	21222	4	2121	2	12411	21421	2 214121
380	468728	16167057	11800028	4367029	.829	.856	3.22	21222	4	2121	2	12421	21421	2 214121
381	469035	16271965	11884189	4387776	.832	.857	3.24	21222	4	2121	2	12421	21421	2 124121
382	469063	16410555	11970536	4440019	.831	.857	3.27	21222	4	2121	2	12421	21421	2 224111
383	469392	16411640	11970536	4441104	.831	.857	3.27	21222	4	2121	2	12411	21421	2 224121
384	469864	16414435	11970536	4443899	.832	.858	3.26	21222	4	2121	2	12421	21421	2 224121
385	469968	16555936	12056883	4499053	.833	.858	3.29	21222	4	2121	2	12421	31421	2 224121
386	469997	16555984	12056883	4499101	.833	.858	3.29	21222	4	2121	2	12421	21421	2 324121
387	470161	16556108	12056883	4499225	.833	.859	3.29	21222	4	2121	2	13421	21421	2 224121
388	470265	16657609	12143230	4554379	.833	.859	3.32	21222	4	2121	2	13421	31421	2 224121
389	470294	16657657	12143230	4554427	.833	.859	3.32	21222	4	2121	2	13421	21421	2 324121
390	470321	16816863	12212089	4604774	.833	.859	3.34	21222	4	2121	2	13421	41421	2 224121
391	470354	16839085	12229577	4609508	.833	.859	3.35	21222	4	2121	2	13421	21421	2 424121
392	470398	16839159	12229577	4609582	.833	.859	3.35	21222	4	2121	2	13421	31421	2 324121
393	470454	16958412	12298436	4659976	.833	.859	3.37	21222	4	2121	2	13421	41421	2 324121
394	470801	16962632	12350900	4611732	.831	.860	3.37	21222	4	2221	2	12321	21421	2 214121
395	471108	17067540	12435061	4632479	.834	.860	3.39	21222	4	2221	2	12321	21421	2 124121
396	471380	17104682	12437247	4667435	.832	.861	3.39	21222	4	2221	2	13321	21421	2 214121
397	471600	17200745	12502827	4697918	.836	.861	3.41	21222	4	2221	2	12421	21421	2 223121
398	471686	17209590	12521408	4688182	.834	.862	3.41	21222	4	2221	2	13321	21421	2 124121
399	471937	17210010	12521408	4688602	.834	.862	3.41	21222	4	2221	2	12321	21421	2 224121
400	472087	17257354	12678800	4578554	.837	.862	3.42	21222	4	2321	2	12321	21421	2 114121
401	472471	17257885	12678800	4579085	.837	.863	3.41	21222	4	1321	2	12321	21421	2 214121
402	472581	17307615	12712683	4594932	.839	.863	3.42	21222	4	2221	2	12421	21421	2 114121
403	472778	17362792	12762961	4599831	.840	.864	3.43	21222	4	1321	2	12321	21421	2 124121
404	473050	17399935	12765147	4634788	.838	.864	3.44	21222	4	1321	2	13321	21421	2 214121
405	473411	17400619	12765147	4635472	.838	.865	3.44	21222	4	2321	2	12321	21421	2 214121
406	473433	17448086	12799030	4649056	.839	.865	3.44	21222	4	2221	2	12411	21421	2 214121
407	473905	17450880	12799030	4651850	.840	.866	3.44	21222	4	2221	2	12421	21421	2 214121
408	473989	17542069	12851494	4691175	.838	.866	3.46	21222	4	2321	2	13321	21421	2 214121
409	474212	17555788	12883191	4672597	.843	.866	3.46	21222	4	2221	2	12421	21421	2 124121

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

958870437

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
410	474251	17602868	13040583	4562285	.845	.866	3.47	21222	4	1321	2	12421	21421	2	114121
411	474296	17647577	12935655	4711922	.841	.866	3.48	21222	4	2321	2	13321	21421	2	124121
412	474547	17647997	12935655	4712342	.841	.867	3.48	21222	4	2321	2	12321	21421	2	224121
413	474568	17695463	12969538	4725925	.843	.867	3.48	21222	4	2221	2	12411	21421	2	224121
414	475041	17698258	12969538	4728720	.843	.868	3.48	21222	4	2221	2	12421	21421	2	224121
415	475103	17743338	13126930	4616408	.845	.868	3.49	21222	4	1321	2	12411	21421	2	214121
416	475191	17745602	13126930	4618672	.846	.868	3.49	21222	4	2321	2	12421	21421	2	114121
417	475575	17746133	13126930	4619203	.846	.869	3.49	21222	4	1321	2	12421	21421	2	214121
418	475882	17851041	13211091	4639950	.849	.869	3.51	21222	4	1321	2	12421	21421	2	124121
419	476042	17886073	13213277	4672796	.846	.869	3.51	21222	4	2321	2	12411	21421	2	214121
420	476515	17888868	13213277	4675591	.847	.870	3.51	21222	4	2321	2	12421	21421	2	214121
421	476711	17993511	13297438	4696073	.849	.871	3.53	21222	4	1321	2	12421	21421	2	224121
422	476821	17993775	13297438	4696337	.849	.871	3.53	21222	4	2321	2	12421	21421	2	124121
423	476950	18097764	13510573	4587191	.852	.871	3.55	21222	4	1421	2	12421	11421	2	214121
424	477127	18123394	13531340	4592054	.852	.871	3.55	21222	4	1421	2	12421	21421	2	114121
425	477178	18133450	13383785	4749665	.849	.872	3.55	21222	4	2321	2	12411	21421	2	224121
426	477651	18136245	13383785	4752460	.850	.872	3.55	21222	4	2321	2	12421	21421	2	224121
427	477979	18263865	13617687	4646178	.852	.873	3.57	21222	4	1421	2	12411	21421	2	214121
428	478451	18266660	13617687	4648973	.853	.874	3.57	21222	4	1421	2	12421	21421	2	214121
429	478758	18371567	13701848	4669719	.856	.874	3.59	21222	4	1421	2	12421	21421	2	124121
430	478903	18408606	13704034	4704572	.854	.875	3.59	21222	4	2421	2	12421	21421	2	214121
431	479115	18511243	13788195	4723048	.856	.875	3.61	21222	4	1421	2	12411	21421	2	224121
432	479209	18513514	13788195	4725319	.856	.875	3.61	21222	4	2421	2	12421	21421	2	124121
433	479587	18514038	13788195	4725843	.857	.876	3.61	21222	4	1421	2	12421	21421	2	224121
434	479690	18655539	13874542	4780997	.857	.876	3.63	21222	4	1421	2	12421	31421	2	224121
435	479719	18655587	13874542	4781045	.857	.876	3.63	21222	4	1421	2	12421	21421	2	324121
436	479884	18655711	13874542	4781169	.857	.876	3.63	21222	4	1421	2	13421	21421	2	224121
437	480038	18655984	13874542	4781442	.857	.877	3.63	21222	4	2421	2	12421	21421	2	224121
438	480142	18797486	13960889	4836597	.857	.877	3.66	21222	4	2421	2	12421	31421	2	224121
439	480171	18797533	13960889	4836644	.857	.877	3.66	21222	4	2421	2	12421	21421	2	324121
440	480336	18797657	13960889	4836768	.857	.877	3.66	21222	4	2421	2	13421	21421	2	224121
441	480439	18939159	14047236	4891923	.857	.877	3.68	21222	4	2421	2	13421	31421	2	224121
442	480468	18939207	14047236	4891971	.857	.878	3.68	21222	4	2421	2	13421	21421	2	324121
443	480495	19058412	14116095	4942317	.857	.878	3.71	21222	4	2421	2	13421	41421	2	224121
444	480528	19080634	14133583	4947051	.857	.878	3.71	21222	4	2421	2	13421	21421	2	424121
445	480572	19080708	14133583	4947125	.857	.878	3.71	21222	4	2421	2	13421	31421	2	324121
446	480628	19199961	14202442	4997519	.857	.878	3.73	21222	4	2421	2	13421	41421	2	324121
447	480634	19204515	14342346	4862169	.859	.878	3.73	21222	4	1421	2	13421	22421	2	224121
448	480788	19204788	14342346	4862442	.859	.878	3.73	21222	4	2421	2	12421	22421	2	224121
449	480876	19346259	14428693	4917566	.859	.878	3.76	21222	4	2421	2	12421	32421	2	224121
450	480921	19346337	14428693	4917644	.859	.878	3.76	21222	4	2421	2	12421	22421	2	324121
451	481086	19346461	14428693	4917768	.859	.879	3.76	21222	4	2421	2	13421	22421	2	224121
452	481173	19487932	14515040	4972892	.859	.879	3.79	21222	4	2421	2	13421	32421	2	224121
453	481218	19488010	14515040	4972970	.859	.879	3.78	21222	4	2421	2	13421	22421	2	324121
454	481221	19607168	14583899	5023269	.859	.879	3.81	21222	4	2421	2	13421	42421	2	224121
455	481278	19629438	14601387	5028051	.859	.879	3.81	21222	4	2421	2	13421	22421	2	424121
456	481306	19629482	14601387	5028095	.859	.879	3.81	21222	4	2421	2	13421	32421	2	324121
457	481353	19748718	14670246	5078472	.859	.879	3.83	21222	4	2421	2	13421	42421	2	324121
458	481366	19770910	14687734	5083176	.859	.879	3.84	21222	4	2421	2	13421	32421	2	424121
459	481414	19890146	14756593	5133553	.859	.879	3.86	21222	4	2421	2	13421	42421	2	424121
460	481440	20803151	15021099	5782052	.860	.879	4.04	21222	4	2422	2	13421	21421	2	224121
461	481450	20944577	15107446	5837131	.860	.879	4.07	21222	4	1422	2	13421	31421	2	324121
462	481543	20944652	15107446	5837206	.860	.880	4.06	21222	4	2422	2	13421	31421	2	224121
463	481572	20944700	15107446	5837254	.860	.880	4.06	21222	4	2422	2	13421	21421	2	324121
464	481600	21063905	15176305	5887600	.860	.880	4.09	21222	4	2422	2	13421	41421	2	224121
465	481667	21066056	15316209	5752447	.861	.880	4.09	21222	4	1422	2	12421	22421	2	224121
466	481676	21066202	15191793	5892409	.860	.880	4.09	21222	4	2422	2	13421	31421	2	324121
467	481732	21205455	15262652	5942803	.860	.880	4.11	21222	4	2422	2	13421	41421	2	324121
468	481754	21210128	15402556	5807572	.861	.880	4.11	21222	4	1422	2	12421	32421	2	224121

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

958870438

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	DOLLAR BOD	PER LB	Tributary Areas NEN CS	NEN SS	NWS CS	NWS SS	SE CS	SSE CS	SSE SS	SSW CS
469	481800	21210206	15402556	5807650	.862	.880	4.11	21222	4	1422	2	12421	22421	2	324121
470	481893	21210281	15402556	5807725	.862	.880	4.11	21222	4	2422	2	12421	22421	2	224121
471	481964	21210329	15402556	5807773	.862	.880	4.11	21222	4	1422	2	13421	22421	2	224121
472	481980	21351753	15488903	5862850	.862	.880	4.14	21222	4	2422	2	12421	32421	2	224121
473	482052	21351801	15488903	5862898	.862	.880	4.14	21222	4	1422	2	13421	32421	2	224121
474	482097	21351879	15488903	5862976	.862	.881	4.14	21222	4	1422	2	13421	22421	2	324121
475	482190	21351954	15488903	5863051	.862	.881	4.14	21222	4	2422	2	13421	22421	2	224121
476	482448	21360356	16048519	5311837	.861	.881	4.14	22222	4	2321	2	12421	21421	2	214121
477	482645	21484999	16132680	5352319	.863	.882	4.16	22222	4	1321	2	12421	21421	2	224121
478	482755	21485264	16132680	5352584	.864	.882	4.16	22222	4	2321	2	12421	21421	2	124121
479	482884	21569252	16165815	5243437	.866	.882	4.18	22222	4	1421	2	12421	11421	2	214121
480	483061	21614883	16366582	5248301	.866	.882	4.18	22222	4	1421	2	12421	21421	2	114121
481	483085	21624911	16219027	5405884	.864	.882	4.18	22212	4	2321	2	12421	21421	2	224121
482	483112	21624939	16219027	5405912	.863	.882	4.18	22222	4	2321	2	12411	21421	2	224121
483	483584	21627734	16219027	5408707	.864	.883	4.18	22222	4	2321	2	12421	21421	2	224121
484	483886	21755326	16452929	5302397	.867	.884	4.20	22212	4	1421	2	12421	21421	2	214121
485	483913	21755353	16452929	5302424	.867	.884	4.20	22222	4	1421	2	12411	21421	2	214121
486	484385	21758148	16452929	5305219	.868	.885	4.20	22222	4	1421	2	12421	21421	2	214121
487	484692	21863056	16537090	5325966	.870	.885	4.22	22222	4	1421	2	12421	21421	2	124121
488	484836	21900095	16539276	5360819	.868	.886	4.22	22222	4	2421	2	12421	21421	2	214121
489	485022	22002704	16623437	5379267	.870	.886	4.24	22212	4	1421	2	12421	21421	2	224121
490	485048	22002731	16623437	5379294	.870	.886	4.24	22222	4	1421	2	12411	21421	2	224121
491	485143	22005002	16623437	5381565	.870	.886	4.24	22222	4	2421	2	12421	21421	2	124121
492	485521	22005526	16623437	5382089	.871	.887	4.24	22222	4	1421	2	12421	21421	2	224121
493	485624	22147028	16709784	5437244	.871	.887	4.26	22222	4	1421	2	12421	31421	2	224121
494	485653	22147076	16709784	5437292	.871	.887	4.26	22222	4	1421	2	12421	21421	2	324121
495	485818	22147199	16709784	5437415	.871	.887	4.26	22222	4	1421	2	13421	21421	2	224121
496	485972	22147472	16709784	5437688	.871	.888	4.26	22222	4	2421	2	12421	21421	2	224121
497	486076	22268974	16796131	5492843	.871	.888	4.29	22222	4	2421	2	12421	31421	2	224121
498	486105	22269022	16796131	5492891	.871	.888	4.29	22222	4	2421	2	12421	21421	2	324121
499	486269	22269146	16796131	5493015	.871	.888	4.28	22222	4	2421	2	13421	21421	2	224121
500	486373	22430647	16882478	5548169	.871	.888	4.31	22222	4	2421	2	13421	31421	2	224121
501	486402	22430695	16882478	5548217	.871	.888	4.31	22222	4	2421	2	13421	21421	2	324121
502	486429	22549900	16951337	5598563	.872	.888	4.33	22222	4	2421	2	13421	41421	2	224121
503	486462	22572123	16968825	5603298	.872	.888	4.34	22222	4	2421	2	13421	21421	2	424121
504	486505	22572197	16968825	5603372	.872	.889	4.34	22222	4	2421	2	13421	31421	2	324121
505	486562	22691450	17037684	5653766	.872	.889	4.36	22222	4	2421	2	13421	41421	2	324121
506	486568	22696003	17177588	5518415	.873	.889	4.36	22222	4	1421	2	13421	22421	2	224121
507	486722	22696276	17177588	5518688	.873	.889	4.36	22222	4	2421	2	12421	22421	2	224121
508	486810	22837748	17263935	5573813	.873	.889	4.38	22222	4	2421	2	12421	32421	2	224121
509	486855	22837826	17263935	5573891	.873	.889	4.38	22222	4	2421	2	12421	22421	2	324121
510	487019	22837949	17263935	5574014	.873	.890	4.38	22222	4	2421	2	13421	22421	2	224121
511	487107	22979421	17350282	5629139	.873	.890	4.41	22222	4	2421	2	13421	32421	2	224121
512	487152	22979499	17350282	5629217	.873	.890	4.41	22222	4	2421	2	13421	22421	2	324121
513	487154	23098657	17419141	5679516	.873	.890	4.43	22222	4	2421	2	13421	42421	2	224121
514	487212	23120927	17436629	5684298	.873	.890	4.44	22222	4	2421	2	13421	22421	2	424121
515	487239	23120970	17436629	5684341	.874	.890	4.43	22222	4	2421	2	13421	32421	2	324121
516	487287	23240206	17505488	5734718	.874	.890	4.46	22222	4	2421	2	13421	42421	2	324121
517	487300	23262398	17522976	5739422	.874	.890	4.46	22222	4	2421	2	13421	32421	2	424121
518	487347	23381634	17591835	5789799	.874	.890	4.48	22222	4	2421	2	13421	42421	2	424121
519	487374	24294639	17856341	6438298	.874	.890	4.66	22222	4	2422	2	13421	21421	2	224121
520	487384	24436065	17942688	6493377	.874	.890	4.69	22222	4	1422	2	13421	31421	2	324121
521	487477	24436141	17942688	6493453	.874	.890	4.68	22222	4	2422	2	13421	31421	2	224121
522	487506	24436189	17942688	6493501	.874	.890	4.68	22222	4	2422	2	13421	21421	2	324121
523	487534	24555394	18011547	6543847	.874	.890	4.71	22222	4	2422	2	13421	41421	2	224121
524	487601	24560145	18151451	6408694	.876	.891	4.71	22222	4	1422	2	12421	22421	2	224121
525	487610	24577690	18029035	6548655	.874	.891	4.71	22222	4	2422	2	13421	31421	2	324121
526	487666	24696943	18097894	6599049	.874	.891	4.73	22222	4	2422	2	13421	41421	2	324121
527	487688	24701616	18237798	6463818	.876	.891	4.73	22222	4	1422	2	12421	32421	2	224121
528	487733	24701694	18237798	6463896	.876	.891	4.73	22222	4	1422	2	12421	22421	2	324121

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

958870439

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
529	487827	24701770	18237798	6463972	.876	.891	4.73	22222	4	2422	2	12421	22421	2	224121
530	487898	24701818	18237798	6464020	.876	.891	4.73	22222	4	1422	2	13421	22421	2	224121
531	487914	24853241	18324145	6519096	.876	.891	4.76	22222	4	2422	2	12421	32421	2	224121
532	487985	24853289	18324145	6519144	.876	.891	4.76	22222	4	1422	2	13421	32421	2	224121
533	488031	24853367	18324145	6519222	.876	.891	4.76	22222	4	1422	2	13421	22421	2	324121
534	488124	24853443	18324145	6519298	.876	.892	4.76	22222	4	2422	2	13421	22421	2	224121
535	488211	24984914	18410492	6574422	.876	.892	4.78	22222	4	2422	2	13421	32421	2	224121
536	488256	24984992	18410492	6574500	.876	.892	4.78	22222	4	2422	2	13421	22421	2	324121
537	488259	25104150	18479351	6624799	.876	.892	4.81	22222	4	2422	2	13421	42421	2	224121
538	488317	25126420	18496839	6629581	.876	.892	4.81	22222	4	2422	2	13421	22421	2	424121
539	488344	25126464	18496839	6629625	.876	.892	4.81	22222	4	2422	2	13421	32421	2	324121
540	488391	25245700	18565698	6688002	.876	.892	4.83	22222	4	2422	2	13421	42421	2	324121
541	488404	25267892	18581186	6684706	.876	.892	4.84	22222	4	2422	2	13421	32421	2	424121
542	488452	25387128	18652045	6735083	.876	.892	4.86	22222	4	2422	2	13421	42421	2	424121
543	488494	25729351	19785486	5943865	.877	.892	4.92	22222	4	2421	2	13421	32421	2	224221
544	488542	25848587	19854345	5994242	.877	.892	4.94	22222	4	2421	2	13421	42421	2	224221
545	488577	25969960	19940692	6049268	.877	.892	4.97	22222	4	2421	2	13421	42421	2	324221
546	488594	26131303	20027039	6104264	.877	.892	5.00	22222	4	2421	2	13421	42421	2	424221
547	488614	26569356	19829206	6740150	.878	.892	5.08	22222	4	1422	2	23421	22421	2	224121
548	488701	26710827	19915553	6795274	.878	.893	5.11	22222	4	1422	2	23421	32421	2	224121
549	488747	26710905	19915553	6795352	.878	.893	5.11	22222	4	1422	2	23421	22421	2	324121
550	488840	26710981	19915553	6795428	.878	.893	5.11	22222	4	2422	2	23421	22421	2	224121
551	488927	26852452	20001900	6850552	.878	.893	5.13	22222	4	2422	2	23421	32421	2	224121
552	488972	26852530	20001900	6850630	.878	.893	5.13	22222	4	2422	2	23421	22421	2	324121
553	488975	26971688	20070759	6900929	.878	.893	5.16	22222	4	2422	2	23421	42421	2	224121
554	489033	26993958	20088247	6905711	.878	.893	5.16	22222	4	2422	2	23421	22421	2	424121
555	489060	26994002	20088247	6905755	.879	.893	5.16	22222	4	2422	2	23421	32421	2	324121
556	489107	27113238	20157106	6956132	.879	.893	5.18	22222	4	2422	2	23421	42421	2	324121
557	489170	27135429	20174594	6960835	.879	.893	5.18	22222	4	2422	2	23421	32421	2	424121
558	489150	27150454	20336358	6814096	.879	.893	5.19	22222	4	2422	2	33421	22421	2	224121
559	489168	27254666	20243453	7011213	.879	.893	5.21	22222	4	2422	2	23421	42421	2	424121
560	489238	27291926	20422705	6869221	.879	.894	5.21	22222	4	2422	2	33421	32421	2	224121
561	489283	27292004	20422705	6869299	.879	.894	5.21	22222	4	2422	2	33421	22421	2	324121
562	489285	27411162	20491504	6919598	.879	.894	5.24	22222	4	2422	2	33421	42421	2	224121
563	489343	27433432	20509052	6924380	.879	.894	5.24	22222	4	2422	2	33421	22421	2	424121
564	489370	27433475	20509052	6924423	.880	.894	5.24	22222	4	2422	2	33421	32421	2	324121
565	489418	27552711	20577911	6974800	.880	.894	5.26	22222	4	2422	2	33421	42421	2	324121
566	489431	27574903	20595399	6979504	.880	.894	5.27	22222	4	2422	2	33421	32421	2	424121
567	489511	27593373	20759349	6834024	.879	.894	5.27	22222	4	2422	2	13421	22421	2	224221
568	489547	27734746	20845696	6889050	.879	.894	5.29	22222	4	2422	2	13421	22421	2	324221
569	489598	27734844	20845696	6889148	.879	.894	5.29	22222	4	2422	2	13421	32421	2	224221
570	489646	27854081	20914555	6939526	.879	.894	5.32	22222	4	2422	2	13421	42421	2	224221
571	489682	27995454	21000902	6994552	.879	.894	5.34	22222	4	2422	2	13421	42421	2	324221
572	489698	28136796	21087249	7049547	.879	.894	5.37	22222	4	2422	2	13421	42421	2	424221
573	489702	28810534	20194287	8416247	.880	.894	5.50	22222	4	2422	2	13422	32421	2	224121
574	489747	28810612	20194287	8416325	.880	.894	5.50	22222	4	2422	2	13422	22421	2	324121
575	489750	28929770	20461146	8466624	.880	.894	5.52	22222	4	2422	2	13422	42421	2	224121
576	489808	28952040	20480634	8471406	.880	.895	5.52	22222	4	2422	2	13422	22421	2	424121
577	489835	28952084	20480634	8471450	.880	.895	5.52	22222	4	2422	2	13422	32421	2	324121
578	489883	29071120	20549493	8521827	.880	.895	5.55	22222	4	2422	2	13422	42421	2	324121
579	489895	29093511	20566981	8526530	.880	.895	5.55	22222	4	2422	2	13422	32421	2	424121
580	489943	29212748	20635840	8576908	.880	.895	5.57	22222	4	2422	2	13422	42421	2	424121
581	490001	29119286	22266410	7054876	.881	.895	5.59	22222	4	1422	2	23421	22421	2	224221
582	490002	29119305	22266410	7054895	.881	.895	5.59	22222	4	2422	2	23421	22421	2	124221
583	490006	29360448	22266396	7093852	.881	.895	5.60	22222	4	2422	2	23421	32421	2	214221
584	490010	29460253	22350757	7109496	.881	.895	5.62	22222	4	2422	2	23421	22421	2	224211
585	490037	29460659	22350757	7109902	.881	.895	5.62	22222	4	1422	2	23421	22421	2	324221
586	490088	29460757	22350757	7110000	.882	.895	5.62	22222	4	1422	2	23421	32421	2	224221
587	490089	29460776	22350757	7110019	.882	.895	5.62	22222	4	2422	2	23421	32421	2	124221
588	490227	29460911	22350757	7110154	.882	.895	5.62	22222	4	2422	2	23421	22421	2	224221

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

958870440

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
707	493793	41593614	30390865	11202749	.890	.902	7.87	22222	4	2422	2	43422	42422	2	224221
708	493805	41615795	30408353	11207442	.890	.902	7.88	22222	4	2422	2	43422	32422	2	324221
709	493829	41714987	30477212	11257775	.891	.902	7.90	22222	4	2422	2	43422	42422	2	324221
710	493845	41876330	30563559	11312771	.891	.902	7.92	22222	4	2422	2	43422	42422	2	424221
711	493865	44065419	31221545	12843874	.891	.902	8.34	22222	4	2422	2	33422	32422	2	224222
712	493888	44184611	31290404	12894207	.891	.902	8.36	22222	4	2422	2	33422	42422	2	224222
713	493906	44325955	31376751	12949204	.891	.902	8.39	22222	4	2422	2	33422	42422	2	324222
714	493914	44467263	31463098	13004185	.891	.902	8.41	22222	4	2422	2	33422	42422	2	424222
715	493915	45708156	32551726	13156430	.891	.902	8.65	22222	4	2422	2	43422	32422	2	124222
716	493920	45708164	32551726	13156438	.891	.902	8.65	22222	4	2422	2	42422	22422	2	324222
717	493946	45708213	32551726	13156487	.891	.902	8.65	22222	4	2422	2	42422	32422	2	224222
718	493983	45708223	32551726	13156497	.891	.902	8.65	22222	4	2422	2	43422	22422	2	224222
719	494001	45849567	32638073	13211494	.891	.902	8.67	22222	4	2422	2	43422	22422	2	324222
720	494027	45849616	32638073	13211543	.891	.902	8.67	22222	4	2422	2	43422	32422	2	224222
721	494051	45968808	32706932	13261876	.891	.902	8.70	22222	4	2422	2	43422	42422	2	224222
722	494069	46110151	32793279	13316872	.891	.902	8.72	22222	4	2422	2	43422	42422	2	324222
723	494077	46251480	32879626	13371854	.891	.902	8.75	22222	4	2422	2	43422	42422	2	424222

TABLE VII-7
EASTERLY INTERCEPTOR
OPTION COMBINATIONS

continued

958870441

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NES CS	NES SS	SE CS	SSE CS	SSE SS	SSW CS
589	490263	29602284	22437104	7165180	.882	.895	5.64	22222	4	2422	2	23421	22421	2	324221
590	490314	29602382	22437104	7165278	.882	.896	5.64	22222	4	2422	2	23421	32421	2	224221
591	490362	29721619	22505963	7215656	.882	.896	5.66	22222	4	2422	2	23421	42421	2	224221
592	490398	29862992	22592310	7270682	.882	.896	5.69	22222	4	2422	2	23421	42421	2	324221
593	490399	29900231	22771562	7128669	.883	.896	5.70	22222	4	1422	2	33421	32421	2	224221
594	490400	29900249	22771562	7128687	.883	.896	5.70	22222	4	2422	2	33421	32421	2	124221
595	490430	29900323	22771562	7128761	.883	.896	5.70	22222	4	2422	2	32421	32421	2	224221
596	490537	29900384	22771562	7128822	.883	.896	5.70	22222	4	2422	2	33421	22421	2	224221
597	490573	30041758	22857909	7183849	.883	.896	5.72	22222	4	2422	2	33421	22421	2	324221
598	490625	30041856	22857909	7183947	.883	.896	5.72	22222	4	2422	2	33421	32421	2	224221
599	490672	30161092	22926768	7234324	.883	.896	5.74	22222	4	2422	2	33421	42421	2	224221
600	490708	30302465	23013115	7289350	.883	.896	5.77	22222	4	2422	2	33421	42421	2	324221
601	490725	30443808	23099462	7344346	.883	.896	5.80	22222	4	2422	2	33421	42421	2	424221
602	490776	31277368	22656797	8620571	.883	.896	5.96	22222	4	1422	2	13422	22421	2	224221
603	490777	31277387	22656797	8620590	.883	.896	5.96	22222	4	2422	2	13422	22421	2	124221
604	490853	31277499	22656797	8620702	.883	.897	5.96	22222	4	2422	2	12422	22421	2	224221
605	490864	31418839	22743144	8675695	.883	.897	5.98	22222	4	1422	2	13422	32421	2	224221
606	490865	31418858	22743144	8675714	.883	.897	5.98	22222	4	2422	2	13422	32421	2	124221
607	490889	31418873	22743144	8675729	.883	.897	5.98	22222	4	2422	2	12422	22421	2	324221
608	490941	31418971	22743144	8675827	.883	.897	5.98	22222	4	2422	2	12422	32421	2	224221
609	491002	31418993	22743144	8675849	.883	.897	5.98	22222	4	2422	2	13422	22421	2	224221
610	491038	31560366	22829491	8730875	.883	.897	6.01	22222	4	2422	2	13422	22421	2	324221
611	491089	31560464	22829491	8730973	.883	.897	6.01	22222	4	2422	2	13422	32421	2	224221
612	491137	31679701	22898350	8781351	.883	.897	6.03	22222	4	2422	2	13422	42421	2	224221
613	491173	31871074	22984697	8836377	.884	.897	6.05	22222	4	2422	2	13422	42421	2	324221
614	491189	31962416	23071044	8891372	.884	.897	6.08	22222	4	2422	2	13422	42421	2	424221
615	491198	32975584	24400132	8575452	.884	.897	6.27	22222	4	2422	2	33421	22422	2	224121
616	491219	33012441	24441666	8570775	.883	.897	6.28	22222	4	2422	2	13421	21422	2	324221
617	491235	33012476	24441666	8570810	.883	.897	6.28	22222	4	2422	2	13421	31422	2	224221
618	491242	33116976	24486479	8630497	.884	.897	6.30	22222	4	2422	2	33421	32422	2	224121
619	491330	33117133	24486479	8630654	.884	.897	6.30	22222	4	2422	2	33421	22422	2	324121
620	491374	33258526	24572826	8685700	.884	.897	6.33	22222	4	2422	2	33421	32422	2	324121
621	491391	33258561	24572826	8685735	.884	.897	6.33	22222	4	2422	2	33421	22422	2	424121
622	491398	33377718	24641685	8736033	.884	.898	6.35	22222	4	2422	2	33421	42422	2	324121
623	491435	33399954	24659173	8740781	.885	.898	6.35	22222	4	2422	2	33421	32422	2	424121
624	491558	33418502	24823173	8595179	.884	.898	6.35	22222	4	2422	2	13421	22422	2	224221
625	491594	33559876	24909470	8650406	.884	.898	6.38	22222	4	2422	2	13421	22422	2	324221
626	491602	33559895	24909470	8650425	.884	.898	6.38	22222	4	2422	2	13421	32422	2	224221
627	491626	33679087	24978329	8700758	.884	.898	6.40	22222	4	2422	2	13421	42422	2	224221
628	491638	33701268	24995817	8705451	.884	.898	6.41	22222	4	2422	2	13421	32422	2	324221
629	491662	33820460	25064676	8755784	.884	.898	6.43	22222	4	2422	2	13421	42422	2	324221
630	491678	33961803	25151023	8810780	.884	.898	6.46	22222	4	2422	2	13421	42422	2	424221
631	491686	34125784	24996910	9128874	.885	.898	6.49	22222	4	2422	2	33422	42421	2	324221
632	491703	34267127	25083257	9183870	.885	.898	6.51	22222	4	2422	2	33422	42421	2	424221
633	491706	34615585	24458061	10177524	.885	.898	6.58	22222	4	2422	2	13422	32422	2	224121
634	491707	34615676	24458061	10177615	.885	.898	6.58	22222	4	2422	2	12422	22422	2	424121
635	491795	34615742	24458061	10177681	.885	.898	6.58	22222	4	2422	2	13422	22422	2	324121
636	491899	34718606	25946727	8791879	.886	.898	6.60	22222	4	2422	2	23421	21422	2	224221
637	491935	34879979	26033074	8846905	.886	.898	6.63	22222	4	2422	2	23421	21422	2	324221
638	491951	34880014	26033074	8846940	.886	.899	6.63	22222	4	2422	2	23421	31422	2	224221
639	491979	34999214	26101933	8897281	.886	.899	6.65	22222	4	2422	2	23421	41422	2	224221
640	491987	35021387	26119421	8901466	.886	.899	6.65	22222	4	2422	2	23421	31422	2	324221
641	492015	35036547	26261185	8755162	.886	.899	6.66	22222	4	2422	2	32421	21422	2	224221
642	492015	35140588	26188280	8952408	.886	.899	6.67	22222	4	2422	2	23421	41422	2	324221
643	492049	35144415	26328184	8816231	.886	.899	6.68	22222	4	1422	2	23421	22422	2	224221
644	492050	35144434	26328184	8816250	.886	.899	6.68	22222	4	2422	2	23421	22422	2	124221
645	492051	35177920	26367532	8810388	.887	.899	6.68	22222	4	2422	2	32421	21422	2	324221
646	492067	35177955	26367532	8810423	.887	.899	6.68	22222	4	2422	2	32421	31422	2	224221
647	492210	35178079	26367532	8810547	.887	.899	6.68	22222	4	2422	2	33421	21422	2	224221

TABLE VII-7 continued

EASTERLY INTERCEPTOR

OPTION COMBINATIONS

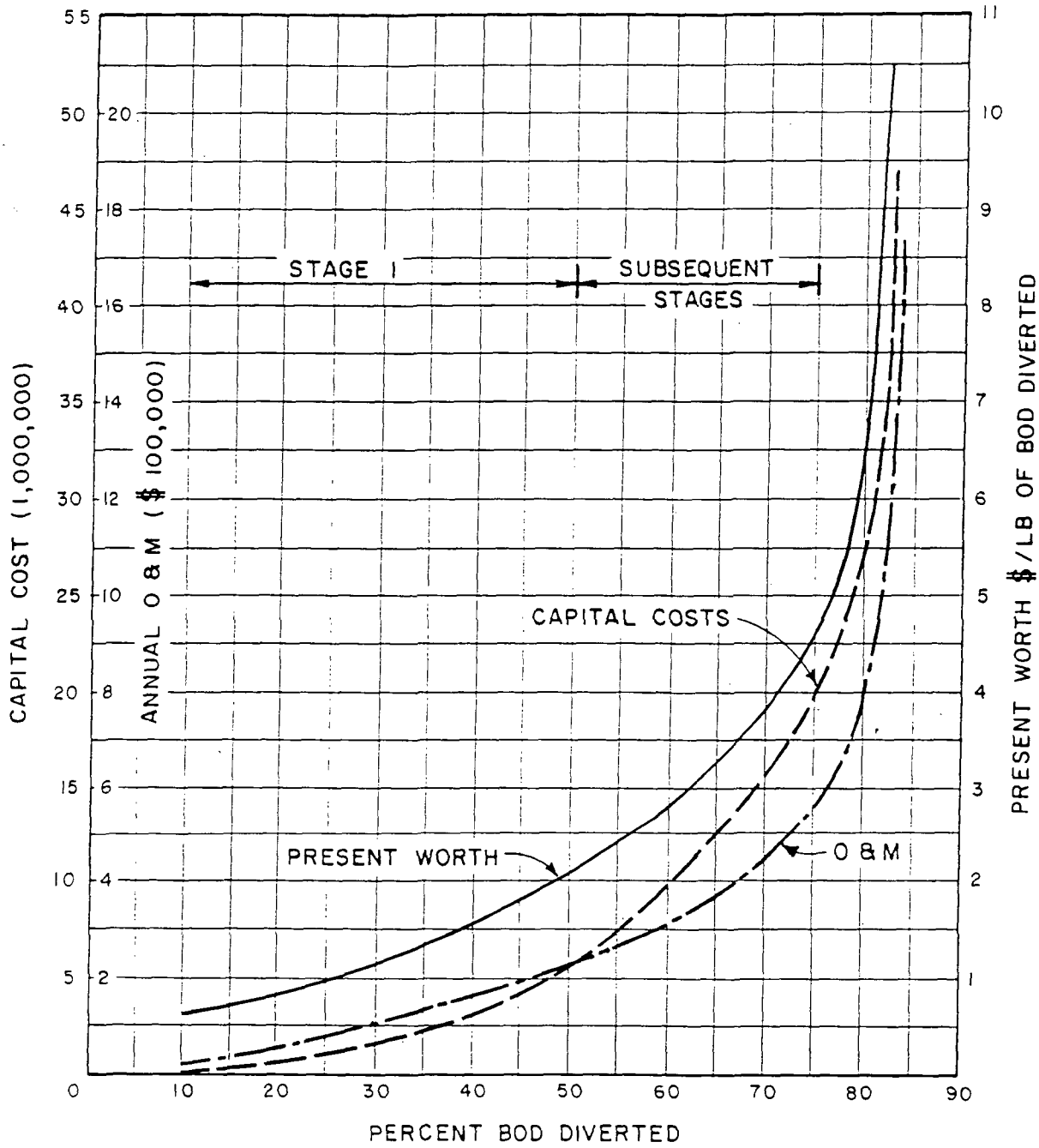
958870442

CASE NO.	BOD REMOVED	TOTAL COST	CAPITAL COST	O/M COST	FR.REMOV. SS	FR.REMOV. BOD	DOLLAR PER LB	Tributary Areas NEN CS	NEN SS	NLS CS	NLS SS	SE CS	SSE CS	SSE SS	SSW CS
648	492274	35286040	26414511	8871509	.887	.899	6.70	22222	4	2422	2	23421	22422	2	224221
649	492310	35427414	26500878	8926536	.887	.899	6.73	22222	4	2422	2	23421	22422	2	324221
650	492318	35427433	26500878	8926555	.887	.899	6.73	22222	4	2422	2	23421	32422	2	224221
651	492342	35546625	26569737	8976888	.887	.899	6.75	22222	4	2422	2	23421	42422	2	224221
652	492354	35568806	26587225	8981581	.887	.899	6.75	22222	4	2422	2	23421	32422	2	324221
653	492359	35583889	26748989	8834900	.887	.899	6.75	22222	4	1422	2	33421	22422	2	224221
654	492360	35583907	26748989	8834918	.887	.899	6.75	22222	4	2422	2	33421	22422	2	124221
655	492390	35583981	26748989	8834992	.887	.899	6.75	22222	4	2422	2	32421	22422	2	224221
656	492395	35725262	26835336	8889926	.887	.899	6.78	22222	4	1422	2	33421	22422	2	324221
657	492403	35725282	26835336	8889946	.887	.899	6.78	22222	4	1422	2	33421	32422	2	224221
658	492404	35725300	26835336	8889964	.887	.899	6.78	22222	4	2422	2	33421	32422	2	124221
659	492426	35725355	26835336	8890019	.887	.899	6.78	22222	4	2422	2	32421	22422	2	324221
660	492434	35725374	26835336	8890038	.887	.899	6.78	22222	4	2422	2	32421	32422	2	224221
661	492585	35725514	26835336	8890178	.888	.900	6.78	22222	4	2422	2	33421	22422	2	224221
662	492621	35866887	26921683	8945204	.888	.900	6.80	22222	4	2422	2	33421	22422	2	324221
663	492629	35866907	26921683	8945224	.888	.900	6.80	22222	4	2422	2	33421	32422	2	224221
664	492653	35986099	26990542	8995557	.888	.900	6.83	22222	4	2422	2	33421	42422	2	224221
665	492665	36008280	27008030	9000250	.888	.900	6.83	22222	4	2422	2	33421	32422	2	324221
666	492688	36127472	27076889	9050583	.888	.900	6.85	22222	4	2422	2	33421	42422	2	324221
667	492705	36268814	27163236	9105578	.888	.900	6.88	22222	4	2422	2	33421	42422	2	424221
668	492711	36838061	26425461	10412600	.887	.900	6.99	22222	4	2422	2	13422	21422	2	324221
669	492726	36838096	26425461	10412635	.887	.900	6.99	22222	4	2422	2	13422	31422	2	224221
670	492755	36957296	26494320	10462976	.887	.900	7.01	22222	4	2422	2	13422	41422	2	224221
671	492762	36979469	26511808	10467661	.887	.900	7.01	22222	4	2422	2	13422	31422	2	324221
672	492790	37098670	26580667	10518003	.887	.900	7.04	22222	4	2422	2	13422	41422	2	324221
673	492824	37102497	26720571	10381926	.888	.900	7.04	22222	4	1422	2	13422	22422	2	224221
674	492825	37102516	26720571	10381945	.888	.900	7.04	22222	4	2422	2	13422	22422	2	124221
675	492901	37102629	26720571	10382058	.888	.900	7.03	22222	4	2422	2	12422	22422	2	224221
676	492937	37244002	26806918	10437084	.888	.900	7.06	22222	4	2422	2	12422	22422	2	324221
677	492945	37244021	26806918	10437103	.888	.900	7.06	22222	4	2422	2	12422	32422	2	224221
678	493050	37244122	26806918	10437204	.888	.901	7.06	22222	4	2422	2	13422	22422	2	224221
679	493086	37385496	26893265	10492231	.888	.901	7.09	22222	4	2422	2	13422	22422	2	324221
680	493093	37385515	26893265	10492250	.888	.901	7.09	22222	4	2422	2	13422	32422	2	224221
681	493117	37504707	26962124	10542583	.888	.901	7.11	22222	4	2422	2	13422	42422	2	224221
682	493129	37526888	26979612	10547276	.888	.901	7.11	22222	4	2422	2	13422	32422	2	324221
683	493153	37646080	27048471	10597609	.888	.901	7.13	22222	4	2422	2	13422	42422	2	324221
684	493169	37787423	27134818	10652605	.888	.901	7.16	22222	4	2422	2	13422	42422	2	424221
685	493182	38968425	28311979	10656446	.889	.901	7.38	22222	4	1422	2	23422	22422	2	224221
686	493183	38968444	28311979	10656465	.889	.901	7.38	22222	4	2422	2	23422	22422	2	124221
687	493295	38968606	28311979	10656627	.889	.901	7.38	22222	4	2422	2	22422	22422	2	224221
688	493331	39109979	28398326	10711653	.889	.901	7.41	22222	4	2422	2	22422	22422	2	324221
689	493338	39109999	28398326	10711673	.889	.901	7.41	22222	4	2422	2	22422	32422	2	224221
690	493408	39110050	28398326	10711724	.889	.901	7.41	22222	4	2422	2	23422	22422	2	224221
691	493444	39251424	28484673	10766751	.889	.901	7.43	22222	4	2422	2	23422	22422	2	324221
692	493451	39251443	28484673	10766770	.889	.901	7.43	22222	4	2422	2	23422	32422	2	224221
693	493475	39370635	28553532	10817103	.890	.901	7.46	22222	4	2422	2	23422	42422	2	224221
694	493487	39392816	28571020	10821796	.890	.901	7.46	22222	4	2422	2	23422	32422	2	324221
695	493511	39512008	28639879	10872129	.890	.901	7.48	22222	4	2422	2	23422	42422	2	324221
696	493563	39548833	28819131	10729702	.890	.901	7.49	22222	4	2422	2	33422	22422	2	224221
697	493599	39690206	28905478	10784728	.890	.902	7.51	22222	4	2422	2	33422	22422	2	324221
698	493607	39690225	28905478	10784747	.890	.902	7.51	22222	4	2422	2	33422	32422	2	224221
699	493630	39809417	28974337	10835080	.890	.902	7.54	22222	4	2422	2	33422	42422	2	224221
700	493643	39831599	28991825	10839774	.890	.902	7.54	22222	4	2422	2	33422	32422	2	324221
701	493666	39950791	29060684	10890107	.890	.902	7.56	22222	4	2422	2	33422	42422	2	324221
702	493683	40092133	29147031	10945102	.890	.902	7.59	22222	4	2422	2	33422	42422	2	424221
703	493688	41333019	30235659	11097360	.890	.902	7.82	22222	4	2422	2	42422	32422	2	224221
704	493725	41333029	30235659	11097370	.890	.902	7.82	22222	4	2422	2	43422	22422	2	224221
705	493761	41474402	30322006	11152396	.890	.902	7.85	22222	4	2422	2	43422	22422	2	324221
706	493769	41474422	30322006	11152416	.890	.902	7.85	22222	4	2422	2	43422	32422	2	224221

Area	Facility Option	(Alternative)	Description
NNW (CS)	Upstream storage	(1)	No
	Upstream storage	(1)	No
	Sewer flushing	(2)	Flushing @ Junctions 711, 717, 720, 723
	In-line storage	(2)	Storage Module @ 842
	Off-line storage	(4)	3.27 MG tank
	Swirl Separator	(1)	No
NNW (SS)	In-line storage	(4)	Sayre St. & Westfield Ave.
NNE (CS)	Sewer flushing	(2)	Flushing Module @ Junctions 836 & 839
	In-line storage	(2)	0.26 MG; Storage Module @ Junction 842
	Off-line storage	(4)	3.27 MG tank
	Swirl separator	(1)	No
NNE (SS)	In-line storage	(2)	2.05 MG; Storage Module @ Junction 350
NCE (CS)	Sewer flushing	(1)	
	In-line storage	(2)	0.12 MG; Storage Module @ Junction 860
	Off-line storage	(3)	1.06 MG
	Swirl separator	(1)	No
NCE (SS)	In-line storage	(2)	0.46 MG; Storage Module @ Junction 660

NCW (CS)	Off-line storage	(5)	2.18 MG
	Swirl separator	(2)	Yes
CCN (CS)	Sewer flushing	(2)	At Junctions 185, 201, & 307
	Upstream storage	(1)	No
	In-line storage	(2)	0.14 MG; Storage Module @ Junction 225
	Off-line storage	(4)	2.53 MG
	Swirl separator	(1)	No
CCS (CS)	Sewer flushing	(3)	At Junctions 971 & 974
	Off-line tank	(3)	0.87 MG
	Swirl separator	(2)	Yes
WW (CS)	In-line storage	(2)	0.08 MG; Storage Module @ Junction 83
	Sewer flushing	(2)	At Junctions 19 & 231
	Off-line storage	(5)	3.98 MG
	Swirl separator	(1)	No
WW (SS)	In-line storage	(2)	0.25 MG @ Junction 760

For this case the total capital cost is estimated at $31,037,921 and the total present worth cost per pound of BOD diverted is estimated at $6.61. Plate VII-29 compares capital costs and present worth costs per pound of BOD diverted to treatment and operating and maintenance costs to percent of BOD diverted. As indicated by the increasing slopes of the curves, about 50 percent of the pollutants that now discharge untreated to the area served by the Westerly Interceptor can be diverted to treatment quite economically and an additional 25 percent, up to 75 percent, at a reasonable, but somewhat greater, incremental cost. Diversions above about 75 percent



WESTERLY INTERCEPTOR

appear prohibitively expensive. This lends itself to a program of staged construction, with the first stage planned to divert 50 percent of the wastes that now discharge to Elizabeth River and continuing with successive stages until 75 percent of the wastes are diverted to treatment. As this program proceeds, the effect of the work on the river water quality can be monitored to determine the benefit for continuing work.

The initial stage would consist of:

Area NNW

0.79 MG In-line storage, Module at Junction 842
2.69 MG Off-line storage at Crane & Union Streets
1.59 MG In-line storage in Sayre Street & Westfield Ave.

Area NNE

0.26 MG In-line storage, Module at Junction 842
2.05 MG In-line storage, Module at Junction 350

Area NCE

0.12 MG In-line storage, Module at Junction 860
0.46 MG In-line storage, Module at Junction 660

Area CCN

Sewer flushing, Modules at Junctions 185, 201 & 307

Area CCS

Sewer flushing, Modules at Junction 974

Area WW

0.08 MG In-line storage, Module at Junction 83
Sewer flushing, Modules at Junctions 19 & 231
0.25 MG In-line storage, Module at Junction 760

Future stages to increase the diversion to treatment of the present pollutant discharges to 75 percent would include:

Area NNW

Sewer flushing, Modules at Junctions 711, 717, 720 & 723

Area NNE

1.09 MG Off-line storage at Union Ave. & Prince St.

Area NCE

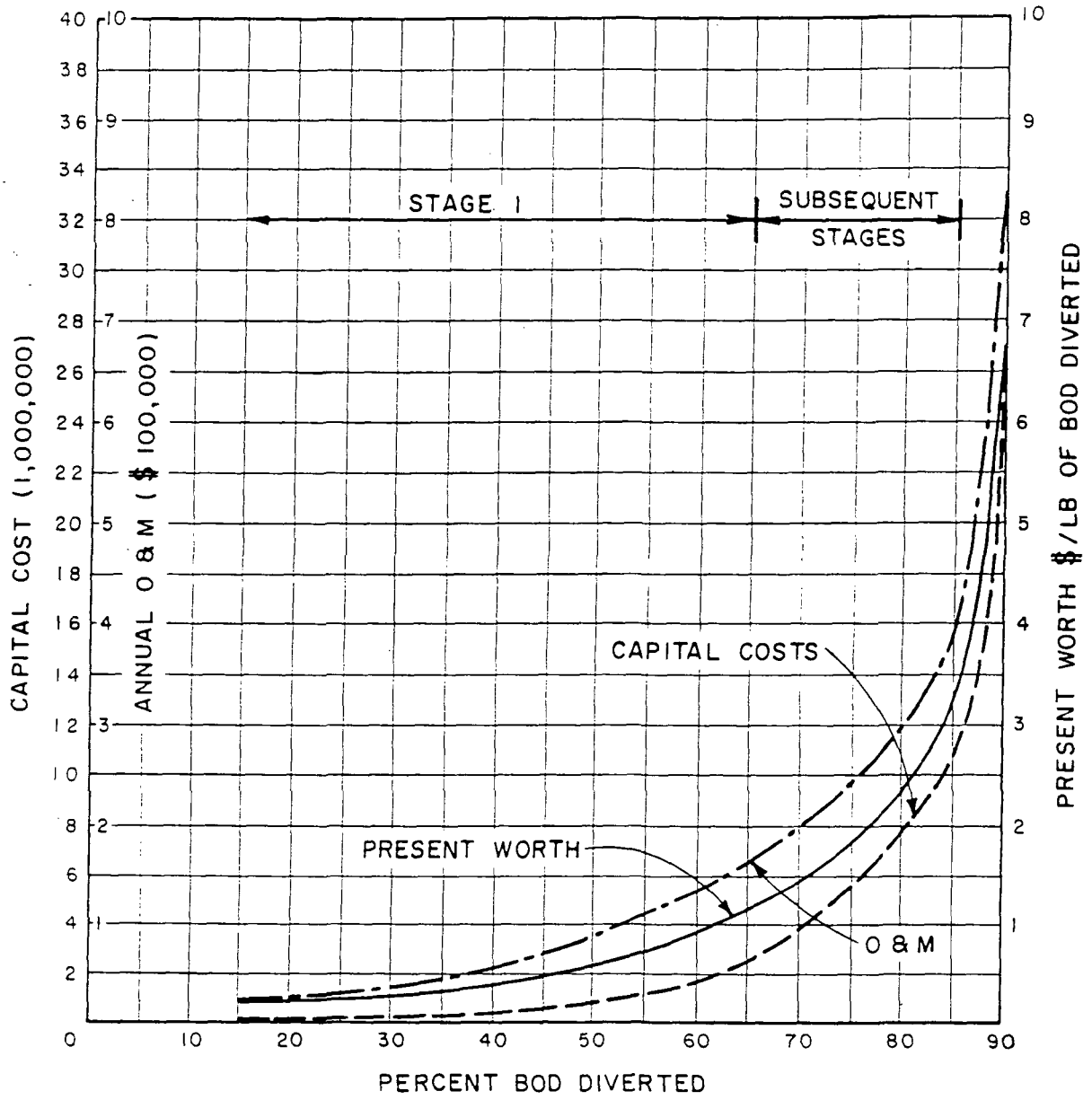
1.06 MG Off-line storage in Scott Park

Area NCW

1.46 MG Storage at Pearl St. & South Broad

Area CCN

0.14 MG In-line storage module at Junction 225
0.84 MG Off-line storage at Fourth Ave., bet. South & Center Sts.



EASTERLY INTERCEPTOR

Area CCS

0.87 MG Off-line storage on Fourth Ave., between Seventh & John Sts.

Area WW

3.00 MG Storage on Clarkson, between Summer & Garden

The initial stage and subsequent stages of this plan would be complementary and each stage would effectively contribute to the desired goal. Further, stages can be undertaken individually to suit the fiscal capability of the City.

Areas Served by Easterly Interceptor. Table VII-7 lists 723 alternatives for diverting to treatment the present wet weather pollutant discharges ranging from 0 to about 90 percent of the total. Case 1 represents present conditions and no use of storage existing in the oversized Easterly Interceptor. Case 20 assumes full use is made of that storage. Full use of available storage in the Easterly Interceptor which requires modification of the controls in the Trenton Avenue Pumping Station should result in diversion to treatment of about 15 percent of the pollutants. The alternatives present in Table VII-7 are combinations of the options presented in Table VII-5. Plate VII-30 compares capital and present worth costs per pound of BOD diverted and annual O&M costs to percent of BOD diverted to treatment. As indicated by the curves, about 65 percent of the pollutants can be diverted at low cost while the next 20 percent (up to 85 percent total) can be diverted at a reasonable cost. To increase diversions from 85 to 86 percent would increase capital costs by about one million dollars. As in the case of the areas draining to the Westerly Interceptor, the improvement program for areas draining to the Easterly Interceptor are adaptable to staging with the first

stage provided to divert about 65 percent of the wastes to treatment and further stages implemented until 85 percent of the wastes are so diverted. As the program proceeds, the effect upon the receiving waters would be monitored to determine the benefitis of continuing work.

The initial stage would consist of:

Area NEN

Sewer flushing, at Junction 807, 812 & 821
0.44 MG In-line storage, Modules at Junctions 812 & 820,
Easterly Interceptor storage, and
0.59 MG In-line storage, Modules at Junctions 377 & 401

Area NES

Easterly Interceptor storage, and
0.65 MG In-line storage, Module at Junction 27

Area SE

Sewer flushing at Junction 901
Easterly Interceptor storage

Area SSE

Sewer flushing at Junction 955
Easterly Interceptor storage
0.62 MG In-line storage, Module at Junction 869

Area SSW

Sewer flushing at Junctions 966
Easterly Interceptor Storage
0.21 MG In-line Storage Module @ Junction 970

Area SW

Flap Valve Operator

Future stages to increase the total diversion of the present pollutant discharges to 85 percent could include:

Area NEN

Provide swirl separator
0.14 MG In-line storage @ Junction 481

Area NES

Sewer flushing @ Junction 321

Area SE

2.96 MG Off-line storage at Trumbull Ave. & First St.

Area SSE

1.69 MG Off-line storage tank at Elizabeth Ave. & South Front St.

Area SSW

1.19 MG Off-line storage tank at Third Ave. & South First St.

Westerly Interceptor. As previously indicated, the Westerly Interceptor is overloaded and requires replacement from its origin at Westfield and Morris Avenue to its point of connection with the Diversion and Regulator Chambers in Clarkson Avenue. The various costs shown in Table VII-6 are based on the new Westerly Interceptor being sized to accommodate peak dry weather flows and that in-line storage in the interceptor would not be available. The cost of the interceptor replacement to increase capacity to be equivalent to 300 percent of the peak dry weather flow is compared to the cost of providing only for the peak dry weather flow as follows:

Capacity as % of Peak Dry Weather Flow	Estimated Cost ($1000)
100	3,870
300	7,873

To be economically viable, providing in-line storage in the interceptor, based on a capacity of 300 percent of dry weather peak flow would require a reduction in cost of the various upstream works by about $4.0 million. As shown in Table VII-6, costs for the various stages, assuming the interceptor is sized to convey the peak daily flow, would equal:

Stage	Percent Removal	Capital Cost
1	50	$ 6,227,914
Total including subsequent stages	75	$21,241,362

To permit interceptor capacity to be cost-effective in Stage 1, the costs of other improvements to achieve a 50 percent diversion to treatment of wet weather flows would have to be reduced to less than $2.2 million for Stage 1 and to less than $17.2 million for the total of future stages. This is not feasible considering the investigations made for the Easterly Interceptor.

The Easterly Interceptor is about 20,400 feet long, of which about 13,400 feet is now sized to pass about 250 percent, and about 7,000 feet to pass about 200 percent of the peak dry weather flow. The effect on capital costs of using this existing oversizing as storage was calculated as follows:

	Interceptor Capacity	
	100% Peak Dry Weather Flow	Existing
Stage 1 (65% Diversion)	$ 4,400,418	$ 2,293,114
Total Including Subsequent Stages	$12,741,101	$11,522,406

Using the excess capacity of the Easterly Interceptor saves about $2.1 million in the first stage and about $1.2 million in the total cost. To provide a new interceptor with a capacity for storage based on a flow equal to 300 percent of the peak dry weather rate is

estimated to cost about $6.6 million. This is (a) almost three times the cost of the first stage work using the storage available in the existing interceptor; (b) more than three times the difference in cost between the first stage work assuming an interceptor sized to handle peak dry weather flows only and the present interceptor, and (c) about 1.5 times the cost of the work of providing the necessary upstream improvements with an interceptor designed for peak dry weather flow only. Hence, by comparison, providing an enlarged Westerly Interceptor to provide in-line storage would not be cost-effective.

F. Modifications to Provide Relief of Street and Cellar Flooding

The above program is directed entirely toward reducing the discharge of untreated pollutants to the Elizabeth River and the waterways contiguous to Elizabeth. It does not address pollution resulting from street and cellar flooding with urban runoff and combined sewage. However, the program can be adapted, at an increase in cost, to serve both purposes. The modifications would be as follows:

1. Westerly Interceptor

a. Area NNW. Replace 2.69 MG off-line storage at Crane and Union Streets with:

(1) 3.50 MG off-line storage at Westfield Avenue, opposite Galloping Hill Road (Plate VII-9);

(2) 1.27 MG off-line storage at Baker Street, between Springfield Road and Elmora Avenue (Plate VII-22); and

(3) 1.69 MG off-line storage in Carteret Park (Plate VII-23).

b. Area NCW. Replace 1.46 MG off-line storage tank at Pearl and South Broad Streets with:

(1) 1.75 MG off-line storage tank in Caldwell Park (Plate VI-24).

c. Area CCN. Replace 0.84 MG off-line storage tank at Fourth Avenue betwen South and Center Streets with:

(1) 1.24 MG off-line storage tank at Catherine Street, between Grand Street and Central Railroad (Plate VII-25);

(2) 1.38 MG off-line tank at Fourth Avenue between South and Center Streets (Plate VII-14); and

(3) 780 feet of 30-inch sewer along Reid Street from East Jersey Street-Elizabeth Avenue; 1,180-feet of 84-inch sewer along Elizabeth Avenue and Spring Street with one storage module installed, and 510 feet of 39-inch sewer along South Street.

2. Easterly Interceptor

a. Area NEN. Add:

(1) 1.86 MG off-line storage in Kellogg Park (Plate VII-17).

b. Area SE. Replace 2.96 MG off-line storage tank at Trumbull Avenue and First Street with:

(1) 1.17 MG off-line storage tank in Brophy Field (Plate VII-27); and

(2) 2.14 MG off-line storage tank at Broadway and Seventh Avenue (Plate VII-28).

c. Area SSW. Replace 1.19 MG off-line tank at Third Avenue and South First Street with:

(1) 0.96 MG off-line tank at Butler Street near Second Avenue (Plate VII-26).

The flooding areas which would be relieved by the above modifications include:

Reference	Area Relieved
(1)(a)(1)	Park Avenue - Summit Road to Hillside Road
(1)(a)(2)	Bellwood Place and Livingston Road Elmora Avenue and Chilton Street
(1)(a)(3)	Elmora and Jersey Avenues Pershing Avenue and Vine Street Vine and Clover Streets
(1)(b)(1)	South Street at Penn-Central Railroad Pearl Street at Penn-Central Railroad
(1)(c)(1)	Reid Street at Central Railroad Spring Street at Central Railroad Catherine Street at Central Railroad
(1)(c)(2)	Reid and East Jersey Streets

(1)(c)(3)	South Street at Third Avenue
(2)(a)(1)	North Avenue at Pennsylvania Railroad North and Jackson Avenues
(2)(b)(1)	Dowd Avenue at Schiller Street Dowd Avenue at Central Railroad Trumbull Street at Central Railroad
(2)(b)(2)	Trumbull Street, west of Seventh Street Court and Seventh Streets Sixth and Court Streets Trumbull and Sixth Streets
(2)(c)(1)	Second Avenue and Caspian Street Second Avenue and Florida Street Second Avenue and Butler Street

The above referenced works would contribute to both pollution abatement and flood relief. They can be carried forward at any time and in any sequence. The following order of priorities is suggested for the indicated reasons:

Priority	Reference	Reason
1	(1)(c)(1) (1)(c)(2) (1)(c)(3)	Relief through railroad underpass and better hospital access
2	(1)(b)(1)	Relief of two railroad underpasses
3	(1)(a)(3)	Relief of the intersection of two major arteries

4	(2)(b)(2)	Improved access to developing industrial area
5	(2)(a)(1)	Relief of major artery at railraod underpass
6	(2)(b)(2)	Improve access to industrial area
7	(1)(a)(1)	Relief of major artery
8	(1)(a)(2)	Relief of major artery
9	(2)(c)(1)	Access to industrial area

Because of the small difference in annual costs (about $30,000) between the Caldwell Park Tank, (1)(b)(1) above, and the South Broad Street Tank, its alternative, the Caldwell Park Tank appears to be the appropriate choice for development.

G. Costs of Alternatives

The costs of a single-purpose program to abate pollution in the contiguous waterways and a dual-purpose program to be equally effective in abating pollution and also to relieve areas that are subject to frequent flooding have been determined. They are as follows:

Item	Capital Cost ($1,000,000) Single-Purpose	Dual-Purpose
Areas draining to Westerly Interceptor	21.73*	34.00
Areas draining to Easterly Interceptor	11.54	17.81
Control System	0.30	0.30
Westerly Interceptor	3.87	3.87
Total	37.44	55.98

*Includes Caldwell Park Tank

The cost for providing flood relief in addition to pollution abatement would be about $18,540,000 based on current prices.

The principal difference in costs result from the relocation of storage tanks and the substitution of a storage tank for a swirl concentrator as follows:

	Capital Cost ($1,000,000) Single-Purpose	Dual-Purpose
Area NNW		
2.69 MG Storage - Crane & William Streets	2.86	

3.50 MG Storage - Westfield Avenue		4.03
1.27 MG Storage - Public School 12		2.54
1.67 MG Storage @ Carteret Park		3.48
Area CCN		
1.24 MG Storage @ Catherine Street		2.87
Off-Line Storage @ Center Street	1.99	
Off-Line Storage @ Center Street plus relief sewer		4.20
Area NEN		
Swirl Separator	1.06	
1.86 MG Storage in Kellogg Park		3.37
Area SE		
1.96 MG Storage Tank @ Trumbull and First Streets	3.07	
1.17 MG Storage Tank @ Brophy Field		2.81

2.14 MG Storage Tank on Seventh Street		4.11
Area SSW		
1.19 MG Storage Tank on South First Street	2.24	
0.96 MG Storage Tank on Butler Street		2.36
Totals	11.22	29.77

The increase in cost to provide a dual-purpose system in Area SSW is nominal.

The amount of BOD diverted by the single- and dual-purpose plans is about the same, using BOD removed as a parameter:

	BOD Diverted (lbs/year)	
	Single-Purpose	Dual-Purpose
Areas Tributary to:		
Westerly Interceptor	531,471	540,831
Easterly Interceptor	466,761	460,275
Total	998,232	1,001,106

Under either option, single- or dual-purpose, the first stage work would be identical if the Crane Street Tank in Area NNW is deferred at least initially. Its cost would be:

Areas Draining to Westerly Interceptor	$ 3,371,000*
Areas Draining to Easterly Interceptor	2,293,000
Control System	300,000
Replacing Westerly Interceptor	3,870,000
	$ 9,834,000

*Excludes Crane Street Tank

H. Chlorination

Tables V-4, V-5 and V-7 have presented coliform measurements at various locations along the Elizabeth River in both wet and dry periods. The coliform determinations in Table V-5, a wet weather run, are not informative since the dilutions used resulted in "greater than" readings. Comparison of coliform readings in Tables V-4 and V-7 demonstrate the effects of a relatively small rainfall on the river. This comparison is set forth in Table VII-9.

Table VII-8
Coliforms (MPN/100 ml)

	Dry Weather Flow		Wet Weather Run 2	
Location	Low Tide	High Tide	Traverse 1	Traverse 2
Trenton Ave.	35 x 10	15 x 10	17 x 10	>24 x 10
Summer St.	4.9 x 10	35 x 10	54 x 10	35 x 10
South St.	>24 x 10	24 x 10	54 x 10	13 x 10
W. Jersey Ave.	4.9 x 10	4.6 x 10	79 x 10	33 x 10
Morris Ave.	1.7 x 10	1.7 x 10	7 x 10	79 x 10

Except in the relatively clean (dry weather) upstream reaches of the river, there appears to be no significant difference in the coliforms present in either dry or wet weather periods. With the diver-

sion of significant amounts of combined sewage and urban runoff to treatment and the stabilization of the present pollutant sink in the river, the wet weather flow impact with respect to bacteria could be more pronounced. Chlorination facilities, if justified, could be added at later stages in the program. The cost of such facilities are shown in Table VII-9 for the options considered in Area NNW. The costs for chlorination of 0 percent, 50 percent and 80 percent of the overflow volume are compared. The capital and operating costs for chlorination could be substantial and do not appear justified from present information.

TABLE VII-9

COST OF CHLORINATION FACILITIES

********* AREA NNW IN THE CITY OF ELIZABETH-CS AREA

AREA= 692.800 ACRES
SS OVERFLOWED UNDER EXISTING CONDITIONS= 966600.0 LBS/YR
BOD OVERFLOWED UNDER EXISTING CONDITIONS= 178796. LBS/YR
VOLUME OVERFLOW UNDER EXISTING CONDITIONS= 156.68 MGAL/YR

DESCRIPTION OF OPTIONS	****** OVERFLOW REMOVED ****** SS	BOD	VOL(MGAL)	COSTS ****** 0%(1) ****** CAPITAL	OM(2)	***** 50%(1) ***** CAPITAL	OM	***** 80%(1) ***** CAPITAL	OM
0.72 MGAL STORAGE AT 216	215503.	32208.	27.43	1774000.	47080.	2109000.	422650.	2347000.	647350.
1.34 MGAL STORAGE AT 216	256708.	39636.	36.86	3718000.	171200.	4070000.	564960.	4341000.	813200.
0.72 MGAL STORAGE AT 715	223515.	42416.	24.77	2252000.	192600.	2587000.	568170.	2825000.	792870.
1.34 MGAL STORAGE AT 715	260190.	50848.	32.41	2658000.	219350.	3010000.	613110.	3281000.	861350.
SEWER FLUSH.AT 711,717,720,723	158068.	68368.	0.00	353000.	209720.	661000.	555330.	942000.	823900.
0.79 MGAL INLINE STO. AT 842	411975.	67736.	39.57	164000.	82670.	496000.	417942.	740000.	649862.
1.34MGAL OFFLINE TANK	556669.	92434.	58.48	2658000.	219350.	3010000.	613110.	3281000.	861350.
2.69MGAL OFFLINE TANK	751326.	128719.	90.23	3172000.	246100.	3548000.	664470.	3795000.	888100.
5.38MGAL OFFLINE TANK	889118.	157198.	121.37	3909000.	326350.	4302000.	761840.	4529000.	966210.
8.07MGAL OFFLINE TANK	928361.	167554.	135.42	4850000.	379850.	5283000.	856000.	5443000.	997240.
SWIRL CONCENTRATOR	483300.	89398.	0.00	4416000.	3167200.	4724000.	3512810.	5005000.	3781380.

(1) % of Overflow Volume Chlorinated with a Dosage of 7 mg/l

(2) Operating and Maintenance

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VIII. ENVIRONMENTAL ASSESSMENT

A. Environmental Inventory of the Planning Area

1. Introduction. The City of Elizabeth, the county seat of Union County, is bounded by Newark Bay, Arthur Kill, the Cities of Newark and Linden, the boroughs of Roselle and Roselle Park, and the townships of Union and Hillsdale. The total area of the City is about 7,400 acres, of which about 4,100 acres are sewered, with about 3,100 acres draining to the Elizabeth River and the remainder to Arthur Kill or Newark Bay via meadowlands. The City is both an industrial and commercial center with excellent facilities for transportation by air, rail, sea and highway. It is adjacent to and contains parts of the Newark International Airport. The main lines of the Pennsylvania Railroad and the Central Railroad of New Jersey intersect in the commercial district of the City. Elizabeth is a port for ocean shipping. Two major highways, U.S. Route 1 and the New Jersey Turnpike, traverse the City. THe Garden State Parkway is less than two miles west of the City. Its population has remained quite stable since 1930 averaging about 110,000 persons, although showing a slight declining trend. It is one of the more economically viable large cities in the State. Although the City is heavily developed, potentials exist for industrial growth especially in the vicinity of Elizabethport.

The Elizabeth River, once a source of drinking water supply, is now polluted for the entire reach of the City from the surrounding development and by the Arthur Kill. Fish and wildlife resources are practically extinct.

2. Topography. The City's topography can be divided into three drainage zones. The southern zone drains to the Arthur Kill and Newark Bay with some drainage to the Elizabeth River and is gen-

erally bounded on the north by the New Jersey Turnpike. The ground varies in elevation from 30 feet above sea level at Elizabeth Avenue and at the Linden City line to below sea level at the Elizabeth River and at the meadow ditches. The eastern zone drains to the Peripheral and Great Ditches and is separated from the western zone by a ridge extending from the New Jersey Turnpike northward along Elizabeth Avenue to Seventh Street, and then northerly to the Hillsdale-Newark boundary. This ridge ranges in elevation from 25 feet above sea level at Sixth Street to over 45 feet at the Penn-Central Railroad. From this ridge, the ground slopes at about 1/2 percent, to the east for about one mile to reach partially reclaimed tidal marsh. No natural elevation more than five feet above mean sea level is located in the tidal marsh. The western drainage zone includes the remainder of the City and is drained by the Elizabeth River which splits the zone from north to south.

The River is tidal to about Rahway Avenue and the area adjacent to it is low lying and subject to tidal flooding. North of Route #1 the River rises slightly, but the drainage of tributary areas is complicated by the presence of transverse ridges. There are two such cross ridges on the eastern slope and four on the western. The ridges generally increase in elevation from south to north and from east to west, reaching an elevation of 90 feet above sea level in the northwestern corner of the City. The cross valleys do not drain uniformly to the River, but contain low points in which flooding occurs. Low points occur in other areas but they are most frequent in the northern part of the western drainage zone.

3. Geology and Soil. The geological formation of the western drainage area, the sloping part of the eastern area and the northwestern part of the southern area is glacial ground moraine composed of unstratified materials deposited during the Wisconsin Glaciation occurred some 80,000 to 18,000 year ago. Soil includes intermixed fractions ranging from clay to gravel, cobbles and boulders, however,

silts predominate with many areas characterized by intermingled deposits of silty sands. The water level can be high except at the ridges. The elevation of bedrock, known as the Brunswick Formation, increases rapidly from east to west. At the eastern edge the depth to bedrock is 100 feet. However, west of the Elizabeth River the depth to bedrock is found at less than 10 feet. Depth to bedrock is generally less under the cross ridges than under the lower lying areas. Bedrock generally consists of reddish brown layered shale which is often partially decomposed. It usually does not require blasting for removal.

In the remainder of the City, the land is underlain by a tidal marsh of marine origin composed of silty clays deposited in salt water during the recessional period of the Wisconsin Glaciation. This material has a low density and is highly compressible. Often this land was built up by landfill.

4. Climatology

a) General. The general climate of the City of Elizabeth is variable. Winter is characterized by frequent outbreak of cold, dry air masses originated in subpolar continental regions. Summer is characterized by warm and humid air masses from subtropical regions. During the seasonal transitional periods of spring and fall, maritime polar air masses become influential.

The U.S. National Weather Service has maintained, since 1894, a meteorological station at the Newark Airport, about four miles northeast from the center of the City. Because of its proximity to the City, the climatological conditions of the City are based on the data collected at the Newark Airport.

b) Local Climate. Tables VIII-1 and VIII-2, respectively present the normal and extreme precipitation and air temperature data at

the Newark Airport. The average annual precipitation is 41.45 inches with 24-hour maximum occurred in summer resulting from thunderstorm and tropical storm activities. The average annual temperature is 53.9 degrees F with the highest monthly mean occurred in July (76.4 degrees F) and the lowest in January (31.4 degrees F).

Relative humidity is a measure of the moisture content of the atmosphere. In Elizabeth area, the late summer months experience the highest mean relative humidity, with a maximum of 77 percent occurring in September. The lowest levels are experienced in the spring (46 percent).

The 30-year (1941-1970) average of monthly wind speed has a small range of variation with the highest monthly mean of 12.0 miles per hour occurring in March and the lowest of 8.7 occurring in August. The prevailing direction of air flow is northeasterly in January, northwesterly from February through April and southwesterly for the remaining months.

Elizabeth is located outside the generally recognized hurricane belt. Storms of tropical origin which reach the area are usually substantially reduced in intensity by their passage over land and cooler coastal waters. As a result, the destructive effect of these storms has been more due to rainfall caused flooding than wind damage. Tornados are an extremely uncommon weather phenomenon in Elizabeth.

5. Land Use and Population

a) Land Use. The characteristics of the primary land uses in Elizabeth can be summarized as follows:

(1) Residential Areas consisting of one family dwellings are located generally along the western and northern edges

TABLE VIII-1

NORMAL AND EXTREME PRECIPITATION TOTALS AT
NEWARK INTERNATIONAL AIRPORT*
(Inches)

Month	Normal	Maximum Monthly	Maximum in 24-Hour	Snow Maximum Monthly
January	2.91	10.10	3.59	27.4
February	2.95	4.94	2.45	26.1
March	3.93	9.13	2.66	26.0
April	3.44	7.28	2.96	4.1
May	3.60	8.12	4.22	Trace
June	2.99	6.40	2.31	0.0
July	4.03	8.02	3.40	0.0
August	4.27	11.84	7.84	0.0
September	3.44	10.28	5.27	0.0
October	2.82	8.20	3.04	0.3
November	3.61	11.53	7.22	3.1
December	3.46	7.24	2.14	29.1
	41.45			

*Based on record for the period of 1941-1970.

Source: U.S. Department of Commerce, National Climatic Center, 1980

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TABLE VIII-2

NORMAL AND EXTREME TEMPERATURES AT THE
NEWARK INTERNATIONAL AIRPORT*
(Fahrenheit)

Month	Daily Maximum	Daily Minimum	Monthly Average
January	38.5	24.31	31.4
February	40.2	24.9	32.6
March	48.8	32.4	40.6
April	61.2	42.2	51.7
May	71.6	52.1	61.9
June	81.1	61.6	71.4
July	85.6	67.2	76.4
August	83.7	65.5	74.6
September	77.0	58.6	67.8
October	66.9	48.1	57.5
November	54.2	38.2	46.2
December	41.5	27.4	34.5
			53.9

*Based on record for the period of 1941-1970.

Source: U.S. Department of Commerce, National Climatic Center, 1980.

of the City. Multi-family units of from 2-6 families each and generally radiating from the Central Business District to the City borders, are confined on the east by industries, Newark Airport and the Port Elizabeth Marine Terminal. It is anticipated that because of this pattern, further residential development will be restricted to change in density. Residential areas of all types within the 4,410 acre Study Area is about 65 percent.

(2) Industrial Areas. In relation to the residential areas described above, the industrial areas constitute an overwhelming presence when considering the City as a whole with 7,250 acres. The industrial area, comprising part of Newark Airport, the Port Elizabeth Marine Terminal and vacant lands within that complex, is approximately 2,800 acres or approximately 39 percent of the total land area. However, the industrial land use within the 4,410 acre Study Area is approximately 16 percent.

(3) Commercial Areas. The commerical areas which constitute the bulk of the Central Business District and areas along the main thorofares radiating from the center of that district make up approximately 16 percent of the 4,410 acre Study Area.

(4) Park and Open Areas. There are a number of small County-owned and City-owned neighborhood parks, playgrounds and public open spaces in Elizabeth for recreation. The total area is about 100 acres. Despite the heavily built-up character of the City, vacant land amounts to about 10 percent of the land in Elizabeth, mostly along Dowd Avenue and near Newark Airport and New Jersey Turnpike. These vacant lands are more suitable for industrial use than for residential development.

b) Population. The population of the City has been relatively stable at 110,000 since 1930 (Table VIII-3) with variations within ±4 percent. In comparison, the population of nearby mature cities have decreased substantially. The population in the City is affected by the number of housing units as well as the family size. Family size declined in the City as in the nation as a whole, from 3.7 persons per dwelling unit in 1940 to 3.5 in 1950 and to 3.1 in 1960. While almost 6,000 housing units were added in Elizabeth from 1940 to 1960, City population actually decreased by about 2,200 (Table VIII-3). The City population is in a mild decreasing trend because housing unit construction has been declining (Table VIII-4). In addition, old houses are deteriorating and are being demolished. The City population consists of about 35 percent hispanic, 25 percent black and 40 percent white.

6. Water Use and Wastewater. The City's potable water is supplied by outside sources through wholesale purchase from the City of Newark and Elizabethtown Water Company and is purveyed solely by the City Water Department. Though the City is interconnected to Newark the supply purchased from Newark is, in large part, water which Newark purchases from Elizabethtown Water Company. The Elizabethtown Water Company obtains its water supply from a number of sources which include surface water from Raritan Basin and several well fields.

Table VIII-5 presents the annual water use, excluding groundwater use, and the wastewater pumped at the Trenton Avenue Pump Station to the Joint Meeting Sewage Treatment Plant, which provides secondary treatment. Not all the water metered at the entrance of the City's water distribution system enters the City sewers. Water used outdoors is either infiltrated to the ground or evaporated. Infiltration into or exfiltration from sewers, depending on sewer joint conditions and groundwater levels would increase or decrease sewage

TABLE VIII-3

POPULATION OF ELIZABETH

Year	Population
1920	95,683
1930	114,589
1940	109,912
1950	112,817
1960	107,698
1970	112,654
1980	106,201

Source: U.S. Census of Population 1920, 1930, 1940, 1950, 1960, 1970, 1980.

TABLE VIII-4

BUILDING PERMITS ISSUED

Year	One-family	Two-family	Apartment
1977	0	9	1 (38 units)
1978	0	5	0
1979	0	4	0
1980	2	4	0
	1	2	1 (13 units) (as of 6/15/81)

Source: City of Elizabeth Building Inspector

flow at the pump station. It appears that water use increased somewhat in recent years except in 1980 when a severe drought forced water conservation for a good part of the year. Since the Elizabethtown Water Company has a surplus of supply to meet its current demand, the City should be able to purchase more water should water demand rise.

The agreement between the City and the Joint Meeting municipalities, dated January 16, 1930, allows the City to deliver for treatment an average of 18 mgd from the Trenton Avenue Pumping Station and a peak flow of 36 mgd. It also can deliver peak flow of four mgd to the Joint Meeting Trunk sewers.

7. Surface Water. The Elizabeth River flows in a generally southerly direction for approximately 20,000 feet through the City. It serves as the main drainage course for about 23 square miles of Essex and Union Counties, entering the City at Trotters Lane and discharging into Arthur Kill. It is navigable by barge to Trenton Avenue. The elevation of the top of the river bank drops rapidly from about elevation 19 at Trotters Lane to about elevation 5 at Summer Street and continues at that elevation to Arthur Kill. The valley floor for about one and one-half miles north from Arthur Kill has a width of one-half to three-quarters of a mile, all of which lies below elevation 10.

The Elizabeth River is a slow flowing stream which is tidal for a distance of approximately two miles in the lower reach and continues as fluvial flow in the upper reach. The analysis of the flow records at Westfield Avenue, about 18,000 feet upstream from its mouth, indicated the 7-day, 10-year return interval low flow to be 7.4 cubic feet per second. The upper or fluvial reach of the river is affected by pollution from the urban environment but is relatively of good quality in dry weather. The lower or tidal reach of the river is affected by pollution mainly from the surrounding develop-

TABLE VIII-5

WATER USE AND WASTEWATER

Year	Water Use* (mgd)	Wastewater**
1970	17.1	17.6
1971	16.6	20.1
1972	16.4	18.3
1973	16.6	17.1
1974	16.5	16.3
1975	15.5	17.6
1976	16.4	14.6
1977	16.6	14.1
1978	18.0	15.1
1979	17.9	16.5
1980	16.9	14.1

* Not including well water use.
** Metered at the Trenton Avenue Pump Station

Source: Mr. Bostel, Superintendent of Water and Sewer, City of Elizabeth

ment, combined sewer overflow and by the Arthur Kill. As a result of these conditions, fish and wildlife resources are practically non-existent.

Field observation as well as river samplings conducted during this study (Section V) indicate that the Elizabeth River quality within the City boundary in the tidal reach is bad during dry days and worse during wet days. Measurements during dry days show that dissolved oxygen (DO) concentration is zero below South Street. The river is polluted by every parameter measured. This results from the oscillating flow pattern observed in Elizabeth River, Arthur Kill, Newark and Raritan Bays. The flushing action is weak and pollutants which enter the Elizabeth River and Arthur Kill are trapped, making the lower reach of the Elizabeth River and Arthur Kill behave as pollution sinks. Zero DO levels measured in the River below South Street may indicate the existence of oxygen demanding bottom deposits in that stretch of the River.

One wet weather river sampling indicated that about one hour after the end of the rainfall the BOD load was about 1000 times greater in upstream reach than that measured in dry weather. About 2-1/2 hours after the end of rainfall the BOD load was still 150 to 200 times greater than that measured in dry weather. Similar comparisons apply to suspended solids and COD. Significant impact of storm sewer discharge and combined sewer overflow on the Elizabeth River water quality was evident in both wet weather sampling efforts described in Section V.

8. Groundwater. The major aquifer of the City is the bedrock, or the Brunswick Formation, which underlies the City. Water in this formation occurs in joints and fractures. Generally, moderate quantities of water can be stored or transmitted in these fractures.

Wells tapping the Brunswick Formation generally draw water from several water-bearing zones. In areas where the rocks are exposed or covered by a thin layer of unconsolidated sediments the shallow water bearing zones contain unconfined water to a depth of about 200 or 300 feet. If wells penetrate to depths between 200 and 600 feet, one or more confined zones of greater permeability are intercepted. The wells that are drilled between 200 to 600 feet in general have the greatest yields.

There are a number of low yield wells in the City which are used primarily by industry. Table VIII-6 lists the owner, year drilled, size, yield and depth of these wells. The total potential yield of these wells is about 3.4 million gallons per day. A majority of these wells, however, yield less than 100 gallons per minute. Over 50 percent of the wells penetrate a depth of 300 feet or greater.

The data of groundwater quality in the City is not available. However, analyses of water samples from 54 wells in the Brunswick Formation in Union County in most cases indicate water of good quality, though several samples contain iron, manganese, sulfate, dissolved solids and total hardness exceeding the maximum allowable limit recommended by the New Jersey Department of Health. Groundwater quality in the neighboring City of Newark was reported to be poor and the water would be suitable for industrial use and would not be potable.

9. Air Quality. The major generators of air pollution in the City include two highways (U.S. Route 1 and New Jersey Turnpike) and the Exxon Refinery in Linden, located in the south side of the City. Residential heating and local traffic also contribute pollutants to affect air quality in the City.

There are two continuous air quality monitoring stations in the City, one near New Jersey Turnpike Exit 13 and the other on Broad

TABLE VIII-6

GROUNDWATER USES AND WELL DATA

Well No.	Owner	Year Drilled	Diameter (In.)	Yield (gpm)	Depth (ft.)
1	Feldmen	1931	8	12	405
2	Van Heblen	1940	8	23	300
			6	50	402
3	Waverly Terminal		6	30	410
4	Waverly Terminal		6	16	400
5	Waverly Terminal		6	8	535
6	Waverly Terminal		6	18	520
7	Waverly Terminal		6	44	400
8	Waverly Terminal	1942	6	8-44	520
9	Waverly Terminal		6	100	400
10	Elizabeth Leather		6		400
11	American Type Foundary		6		125
12	American Type Foundary	1923	8	14	504
13	American Type Foundary		8	30	411
14	J. Brink	1949	6	10	125
15	Byrant	1950	8	30	411
16	Dry Ice	1928	8	55	602
17	Dry Ice	1928		71	601
			8	26	204
18	Jenkins Rubber	1923			100
19	Kessler	1950	6		
20	Kroup	1949	6		150
21	Kroup	1949	6		101
22	Kuehne		4	18	300
23	Heilich			10	220
24	Heilich			75	120
25	Heilich			40	300
26	Brown		6	50	175
27	Brown		8	40	120
28	Singer				600
29	Elizabeth Station		8		641
30	American Gas			20	600
31	Gas Co. 1	1921	8	25	
32	Gas Co. 2		8		300
33	Thomas & Bretts	1950	8	204	500
34	Jewish Ed. Center	3/72	6	50	170
35	Pappetti	9/60	8	150	265
36	Londit Aetz	1965	30		
37	St. Anthony	1966	6	5	200

TABLE VIII-6
(continued)

Well No.	Owner	Year Drilled	Diameter (In.)	Yield (gpm)	Depth (ft.)
38	Reichold	1967	10	415	400
39	General Chemical	1965	10	70	500
40	Exact Avodizing	1965			467
41	Perk Chemical	1965	6	120	285
42	Breidts 4	1923	8	50	500
43	Breidts 3	1923	8	70	650
44	Breidts 1		10	60	1200
45	Breidts 2		10		880
46	American Gas Co.	1912		12	164
47	Consumer Ice	1923	10	25	1200
48	Consumer Ice		10	75	535
49	Consumer Ice		8	50	535
50	Boller	1912		10	800
51	Boller	1912		15	130
52	Boller	1912	8	25&40	400
53	Morton Manun	1952	8		600

Street near the downtown area. Monitored data of sulfur dioxide and carbon monoxide for 1975, 1979 and 1980 are respectively summarized in Tables VIII-7 and VIII-8 and are compared with the New Jersey air quality standards. Table VIII-9 shows nitrogen dioxide concentration levels near Turnpike Exit 13 in 1976 and 1980. As these data show, sulfur dioxide concentration levels in the City are below the ambient air quality standard, indicating that the effect of the Exxon Refinery on the City's air quality may not be significant, perhaps due to prevailing southwesterly wind from May through December, northeasterly in January, northwesterly in February and March and west northwesterly in April. The auto-related pollutants, carbon monoxide and nitrogen dioxide, tend to exceed the permitted levels with the frequency of violation reduced or air quality improved in recent years. The improvement of air quality is further confirmed by the total suspended particulate data which shows that in 1980 the annual geometric mean is 57.3 micrograms per cubic meter of air (g/m) which is below the standard of 75 g/m , and the maximum of 24-hour average is 102 g/m which is also below the standard of 260 g/m .

10. Ecology. The Union County Watchung Reservation and the Essex County South and Eagle Rock Reservations, which are located within approximately 10 miles westerly to northwesterly from the heart of the City, are the remaining areas which have retained their natural habitat and characteristics.

The wetlands which are located in the southeastern part of Elizabeth and bordering on Newark Bay, have been modified by pollution and industrial development to such an extent that it has eliminated shell fish, flounder, striped bass and drum as a resource.

With the exception of a few small parks including county parks, the City of Elizabeth has little vegetation.

TABLE VIII-7

SULFUR DIOXIDE CONCENTRATION LEVELS IN ELIZABETH COMPARED WITH THE AIR QUALITY STANDARDS

Monitoring Site	Year	3-Hour Average Maximum (ppm)	3-Hour Average 2nd Highest (ppm)	Times Standard (1) Exceeded	24-Hour Average Maximum (ppm)	24-Hour Average 2nd Highest (ppm)	Times Primary Standard (2) Exceeded	Times Secondary Standard (3) Exceeded
Elizabeth Lab	1975	0.156	0.136	0	0.066	0.066	0	0
	1979	0.153	0.099	0	0.085	0.063	0	0
	1980	0.123	0.122	0	0.080	0.071	0	0
Elizabeth Station	1975	0.075	0.075	0	0.046	0.041	0	0
	1979	0.139	0.127	0	0.068	0.068	0	0
	1980	0.158	0.119	0	0.085	0.057	0	0

(1) Standard = 0.5 ppm
(2) Standard = 0.14 ppm
(3) Standard = 0.10 ppm

Source: N.J. Department of Environmental Protection, Bureau of Air Pollution Control

TABLE VIII-8

CARBON MONOXIDE CONCENTRATION LEVELS IN ELIZABETH COMPARED WITH THE AIR QUALITY STANDARDS

Monitoring Site	Year	1-Hour Average (ppm) Maximum	1-Hour Average (ppm) 2nd Highest	No. of Times 1-Hour Standard (1) Exceeded	8-Hour Average (ppm) Maximum	8-Hour Average (ppm) 2nd Highest	No. of Times 8-Hour Standard (2) Exceeded
Elizabeth Lab	1975	16.0	13.7	0	10.2	8.4	1
	1979	13.5	11.7	0	8.2	7.8	0
	1980	16.3	14.5	0	6.7	6.6	0
Elizabeth Station	1975	23.7	22.7	0	17.6	16.7	94
	1979	23.6	23.1	0	17.0	17.0	29
	1980	17.2	15.5	0	11.2	10.5	8

(1) Standard = 35 ppm
(2) Standard = 9 ppm

Source: N.J. Department of Environmental Protection, Bureau of Air Pollution Control

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TABLE VIII-9

NITROGEN DIOXIDE CONCENTRATION LEVELS
AT ELIZABETH LABORATORY

Year	Annual Average (ppm)	Violation of Standard*
1976	0.052	Yes
1980	0.039	No

*Standard = 0.05 ppm

Source: N.J. Department of Environmental Protection, Bureau of Air Pollution Control

11. Federal Projects. The Elizabeth Flood Control Project planned, designed and constructed by the U.S. Army Corps of Engineers is near completion. The project is located along the Elizabeth River within Union County in Hillside Township, Union Township and the City of Elizabeth. Figure VIII-1 shows the general plan of the project.

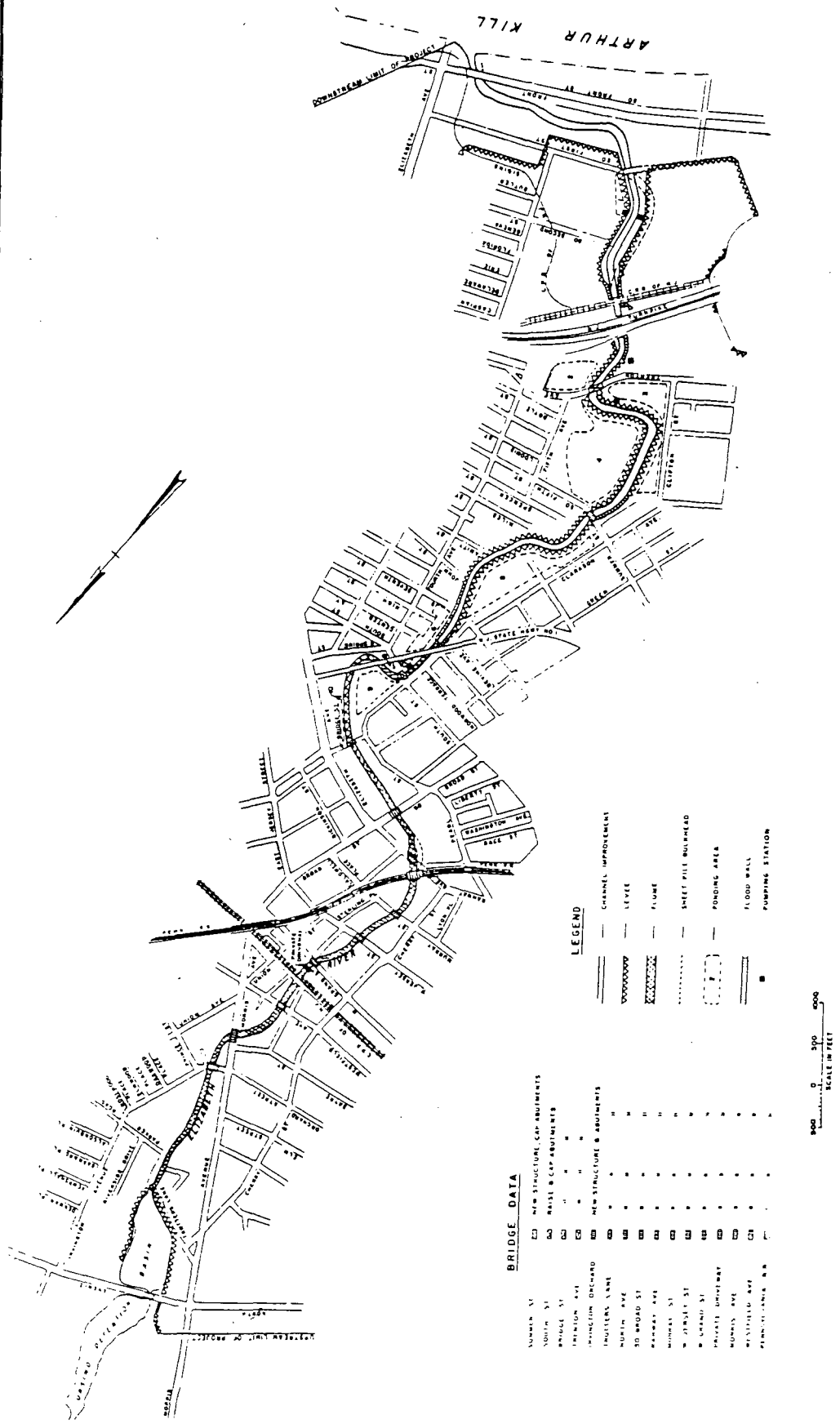
The project is designed to protect the above mentioned communities from flooding as a result of excessive fluvial discharges in the upstream reaches of the project and from inundation as a result of hurricane tidal conditions in the lower reaches of the project, or a combination of both conditions occurring simultaneously. The plan consists of the construction of levees, flood walls, flume, channel deeping, widening and realignment, bridge construction, pump stations, ponding areas and related interior drainage facilities, miscellaneous relocation of utilities and structures and maintenance of upstream detention areas. The flood control project has considerably altered the landscape along the Elizabeth River. It would prevent severe floods such as those in 1954, 1955 and 1960, each of which caused over a million dollars worth of damage. The following frequent flooding locations would be either fully or partially relieved by this project:

Trotters Lane at Ursino Lake (partially)
Parker Road at the Elizabeth River
West Jersey Street at the Elizabeth River
Sterling Place
Price Street
Third Avenue at South Street
South Street at the Elizabeth River
Second Avenue at Florida (partially)
Second Avenue at Butler Street (partially)

12. Archaeological and Historical Sites. The Elizabeth area is believed to have been inhibited by Aboriginal Indians before European

CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT
FACILITIES PLAN



ELIZABETH FLOOD CONTROL PROJECT

FROM REFERENCE 8

colonization, but artifacts to prove this have never been found. In 1964, a parcel of land containing the area of present day Elizabeth was purchased from the Indians and was settled soon afterwards by English Colonists. Because of its location on the Elizabeth River, Elizabeth developed into a center for industry, commerce and transportation. Elizabeth was the third established settlement in New Jersey and was the capital at one time.

An extensive cultural resource survey was conducted for the Corps of Engineers' Elizabeth River Flood Control Project to identify prehistoric and historic archaeological sites along the River. A number of reconnaissance level of surveys were made at specific locations around the City in connection with public and private construction activities. Table VIII-10 the cultural resource surveys that have been conducted in the City as compiled by the Office of Cultural and Environmental Services, New Jersey Department of Environmental Protection (NJDEP). Multiple resources were identified during Reference 1, 2, 9 and 10 studies and none in the remainder reference studies. Based on review of these studies, the Office of Environmental Review, NJDEP compiles a list of identified cultural resources and those in Elizabeth are tabulated in Table VIII-11.

These historical sites, with the exception of the West Jersey Street Bridge (#7) and St. John's Parsonage (#28), are not in the proximity of projected construction and should not be effected. The two sites mentioned above are located along streets which will receive new sewer lines, but because construction will be confined to the street there will be no impact to the sites.

B. Project Description

A preliminary screening of ten types of CSO pollution abatement measures has identified the following four types for further project

consideration: sewer flushing, in-line storage, off-line storage and swirl separator.

Cost-effectiveness evaluation of all possible combinations of these four CSO pollution abatement alternatives using a computer tool resulted in a program of staged construction, with the initial stage planned to divert about 40 percent of BOD pollutant that now discharged to Elizabeth River from areas tributary to the Westerly Interceptor and about 65 percent of BOD pollutant now discharged to Great Ditch and Arthur Kill from areas tributary to the Easterly Interceptor to the Joint Meeting Treatment Plant. The future stage would divert to treatment 75 percent of the present BOD discharges in areas tributary to the Westerly Interceptor and 85 percent in areas tributary to the Easterly Interceptor. Figure IX-1 shows the type and location of alternatives included in the initial and future stages of construction and street locations are stated, followed by alternative type.

1. Location of Sewer Flushing Module Installations

Initial Stage Construction

(A-1) Magnolia Avenue and Catherine Street (Junction 185, CCN)
(A-2) East Grand and Reid Street (Junction 201, CCN)
(A-3) East Jersey and Reid Streets (Junction 307, CCN)
(A-4) Third Avenue and Niles Street (Junction 974, CCS)
(A-5) South Elmora and Lidgerwood Avenues (Junction 19, WW)
(A-6) Summer and South Broad Streets (Junction 231, WW)
(A-7) Madison Avenue and Fanny Street (Junction 807, NEN)
(A-8) North and Adams Avenues (Junction 812, NEN)
(A-9) Van Buren Avenue between North Avenue and Fanny Street (Junction 821, NEN)

TABLE VIII-10

IDENTIFIED HISTORICAL SITES IN ELIZABETH

No.	Location
4	Rahway Ave. Bridge (SHPO)
5	Murray Ave. and Cherry Str.
6	Old First Presbyterian Church - Broad Str. & Caldwell Pl. (SR/NR)
7	West Jersey St. Bridge
8	West Grand St. Bridge
9	Station Roadway Bridge - Central R.R. & Penn. R.R. Intersection
10	Central R.R. of N.J. Bridge
11	Morris Ave. Bridge
12	Broad St. Bridge
13	Chestnut St. Bridge
14	Magnolia St. Bridge
15	Lane Tower - Penn R.R. and McClennan St.
27	John Cavallier Trotter House - 42 North Ave. (SHPO)
28	St. John's Pasonage - 633 Pearl St. (SHPO)
29	Broad St. Bridge (SHPO)
99	Boxwood Hall - 1073 East Jersey St. (SR/NR)
100	Governor Jonathan Belcher/Aaron Ogden House - 1046 East Jersey St. (SR/NR)
97	Liberty Hall - Morris & North Ave. (NR/NHL)
	Bender Building - 251-267 North Broad St.
	Tannery - 244-246 North Braod St.

Notes: NR - National Register of Historic Places
SR - New Jersey Register of Historic Places
SHPO - State Historic Preservation Officer

TABLE VIII-11

REFERENCES FOR CULTURAL RESOURCE SURVEY AT ELIZABETH

1. Leo, Ralph; Church, David; Githens, Herbert; and Rutsch, Edward (Historic Conservation and Interpretation), Cultural Resources Reconnaissance: Elizabeth River Flood Protection Project - Upstream Portion, Union County, N.J. (Dec. 1979)

2. Kraft, Herbert (Archaeological Research Center), Archaeological and Historical Survey of Proposed Flood Control Project, Elizabeth, N.J. (March 6, 1977)

3. Valantini, Patrick and Rothchild, Nan, Supplement to Phase I Reconnaissance Level Evaluation of Cultural Resources, Proposed Flood Control Project, Elizabeth, N.J. (July 1977)

4. Kraft, Herbert (Archaeological Research Center), Archaeological and Historical Cultural Resources Survey of Proposed Joint Meeting Sludge Management Facility Site in Elizabeth, Union County, N.J. (Sept. 1978)

5. Kraft, Herbert (Archaeological Research Center) Historic and Prehistoric Survey, Project No. M-6959[001], North Ave. and Kellogg Park, Elizabeth, N.J. (May 4, 1976)

6. Fittipaldi, Janet (NJDEP-Green Acres Program), Urban Park and Recreation Recovery Program 1980, City of Elizabeth, Union County, Dowd Playfield, and Arabell Miller/Mack Plaza (Oct. 1980)

7. Ashton, Charles; Greiff, Constance; and Porter, Richard (Heritage Studies) Cultural Resources Survey of a Portion of the Block Bounded by North Broad St., Westfield Ave., and Morris Ave., Elizabeth, N.J. (July 18, 1980)

8. Poensett, David (N.J. Housing Finance Agency) N.J. Housing Finance Agency, Pierce Manor Rehabilitation HFA#983, Parker Rd. and Irvington Ave., Elizabeth, Union County, N.J. (Sept. 23, 1980)

9. DeLew, Cather/Parsons, Cultural Resources Inventory and Evaluation of Effect, Historic Sites, N.J. (Apr. 1978)

10. Vogel, Robert and Delony, Eric, Aerial Reconnaissance of Historic Structures on the Northeast Corridor, 13-15 Apr. 1977 (July 1, 1977)

References:

1. Annotated Bibliography of Cultural Resource Survey Reports through Dec. 31, 1979.
2. Annotated Bibliography of Cultural Resources Survey Reports from Jan. 1980 through Feb. 1981.

Note: All published by Office of Cultural and Environmental Services, N. J. Department of Environmental Protection.

(A-10) Trumbull Street between Sixth and Schiller Streets (Junction 901, SE)

(A-11) Front and Fulton Streets (Junction 955, SSE)

(A-12) Third Avenue and Geneva Street (Junction 966, SSW)

Future Stage Construction

(A-13) Elmora Avenue and Murray Street (Junction 711, NNW)

(A-14) Grove and Pennington Streets (Junction 717, NNW)

(A-15) Orchard and Chilton Streets (JUnction 720, NNW)

(A-16) Morris Avenue and Orchard Street (Junction 723, NNW)

(A-17) Fairmount Avenue and Henry Street (Junction 321, NES)

2. Location of In-Line Storage Module Installations

Initial Stage Construction

(B-1) Morris and Union Avenues (Junction 842, NNW, NNE)

(B-2) Sayre Street near Morris Avenue and Elizabeth River (Junction 181, NNW)

(B-3) Westfield Avenue and Lowden Street (Junction 161, NNW)

(B-4) Union Avenue and Prince Street (Junction 353, NNE)

(B-5) East Jersey Street and Jefferson Avenue (Junction 860, NCE)

(B-6) Elizabeth Avenue and Bridge Street (Junction 661, NCE)

(B-7) Summer Street at Bayway Circle (Junction 83, WW)

(B-8) Summer Street near Clarkson Avenu (Junction 769, WW)

(B-9) North and Adams Avenues (Junction 812, NEN)

(B-10) Dowd Avenue near Alina Street (Junction 820, NEN-CS)

(B-11) Madison Avenue at Alina Street (Junction 37, NEN)

(B-12) Jackson Avenue at Alina Street (Junction 401, NEN)

(B-13) Division Street at Dowd Avenue (Junction 27, NES)

(B-14) Broadway Street south of Front Street (Junction 869, SSE)

(B-15) Third Avenue north of South Front Street (Junction 970, SSW)

Future Stage Construction

(B-16) South and South Spring Streets (Junction 225, CCN)
(B-17) Dowd Avenue near Alina Street (Junction 481, NEN-SS)

3. Location of Off-Line Underground Storage Tanks

Future Stage Construction

(C-1) Crane and Union Streets (NNW, Plate IX-11)
(C-2) Union Avenue and Prince Street (NNE, Plate IX-15)
(C-3) Scott Park (NCE, Plate IX-16)
(C-4) Pearl and South Broad Streets (NCW, Plate IX-17)
(C-5) Fourth Avenue between South and Center Streets (CCN, Plate IX-19)
(C-6) Seventh Street near the Elizabeth River (CCS, Plate IX-21)
(C-7) Clarkson Avenue between Summer and Garden Streets (WW, Plate IX-22)
(C-8) Trumbull Avenue and First Street (SE, Plate IX-24)
(C-9) Elizabeth Avenue and South Front Street (SSE, Plate IX-27)
(C-10) Third Avenue and South First Street (SSW, Plate IX-28)

Dual-Purpose Storage Tank

(C-11) Westfield Avenue opposite Galloping Hill Road (NNW, Plate IX-12)
(C-12) Public School at Baker Plate (NNW, Plate IX-13)
(C-13) Cartaret Park (NNW, Plate IX-14)
(C-14) Caldwell Park (NCW, Plate IX-18)

(C-15) Fourth Avenue between South and Center streets (CCN, Plate IX-19)

(C-16) Catherine Street between Grand Street and Central Railroad (CCN, Plate IX-20)

(C-17) Kellogg Park (NEN, Plate IX-23)

(C-18) Broply Field (SE, Plate IX-25)

(C-19) South of Seventh Street between Park Street and Central Railroad (SE, Plate IX-26)

(C-20) Butler Street between Second and Third Avenues (SSW, Plate IX-29)

D. Location of Swirl Separator

Future Stage Construction

(D-1) Overflow to Peripheral Ditch near Dowd Avenue and Alina Street (NEN)

5. Replacement of the Westerly Interceptor from its origin at Westfield and Morris Avenues to the diversion and regulator chambers in Clarkson Avenue.

C. Future Environmental Setting Without the Project

1. Introduction. Without the project, there would be continuing pollution of the Elizabeth River and Arthur Kill, making ineffective the water quality improvement gained by upgrading the Joint Meeting Sewage Treatment Plant from primary to secondary treatment. The use of recreational development in the form of parks and athletic fields along the Elizabeth River would be adversely affected, as would the Elizabeth River estuary which is used to a moderate extent for recreational boating. The potential development of undeveloped land along the River which was once subject to periodic flooding and now is protected by the flood control project would be hampered. The

continuing water pollution would adversely affect the efforts to revitalize the City's economic base. Those flooding areas, not adjacent to the river, will continue to be subject to frequent combined sewage flooding in the streets or basements, causing property damage, interrupting traffic and municipal services. Combined sewage flooding is a significant nuisance and factor affecting urban renewal.

2. Land Use and Population. Despite the intermediate-range and long-range plans adopted by the City's Planning Board in 1977 setting the target population in 1980 to equal 117,212 and maintaining that level through 1990, the population in the foreseeable future may continue in the downward trend. The actual population in 1980 census survey was 106,201, 11,011 less than the target number. The land use pattern would not be expected to have much change in the near future.

The long-range plan calls for concentration of high density development in a central core of the City with provision for a gradual density transition toward the outer edges. It features a mixed commercial, institutional and residential area in the central City serving the entire City with specialized concentration of land uses, five satellite shopping areas providing community level services and goods, and industrial areas located on the fringes of the City where their impact on other land uses can be minimized. This long-range plan requires enhancing the City's environment, in which the Elizabeth River plays an important role.

3. Water Use and Wastewater. The City's per capita water supply increased from about 152 gallons per day in 1970 to 168 gallons per day in 1979. Without the project, the City's water use would be in a slight upward trend. As a result, the wastewater pumped at the Trenton Pumping Station would also be expected to have a slight upward trend. Due to the age of the Westerly Interceptor system, the chance of malfunction of tide gates would be greater in the future

causing greater amounts of inflow from the river during high tide periods. Nevertheless, as previously discussed, the City would be able to purchase sufficient amount of water from the Elizabethtown Water Company to meet its demand, and the Joint Meeting Treatment Plant would have adequate capacity allocated to the City.

4. Surface Water. Without the project, there would be an estimated amount of 5,067,000 pounds of suspended solids (SS), 853,000 pounds of BOD and 797 million gallons of combined sewage and urban runoff discharged annually to the Elizabeth River untreated from the City during wet weather. Based on the estimated 70 overflow events per year and 0.2 pounds per capita per day of BOD in the raw sewage, the wet weather BOD discharged to the River during each overflow event is equivalent to the daily raw sewage generated by about 61,000 persons. The estimated annual wet weather discharge to Arthur Kill would be 1,410,2000 pounds of SS, 269,100 pounds of BOD and 152 million gallons of flows or an equivalent of raw sewage from about 20,000 persons per overflow event. About 1,372,2000 pounds of SS, 225,300 pounds of BOD and 232 million gallons of flow would be discharged annually to the Newark Bay by way of the Peripheral Ditch and the Great Ditch, or an equivalent of raw sewage produced by about 16,000 persons per overflow event.

In addition to the above wet weather pollutant discharges, dry weather overflows occur at Westfield Avenue since the original brick Westerly Interceptor has deteriorated and is overloaded. This dry weather overflow can be accentuated by partial clogging of the siphon crossing the Elizabeth River. As sewage flow increases and the interceptor sewer further deteriorates in the future, there would be a greater amount of dry weather overflow occurring at greater frequencies to the Elizabeth River. This would further degrade the River water quality. Field samplings in the River conducted before and after rainfall events have shown a significant impact of combined

sewer overflow and urban runoff on the River water quality (See Section V).

Future surface runoff into the Elizabeth River from the City will probably remain the same as present since the City is about saturated in its development and the amount of impervious cover would be expected to have little change in the future.

5. Groundwater. The overall groundwater hydrology in the Elizabeth area should remain relatively constant in the future. Groundwater quality should remain the same as present.

6. Air Quality. As previously described, air quality in the City seems to have improved in recent years with sulfur dioxide meeting concentration standard, and less violations of standards for auto-related pollutants, such as carbon monoxide and nitrogen dioxide. This may be resulted from tighter emission control for industries as well as automobiles. Because the future imposition of State and Federal air pollution controls is difficult to determine at this time, it might be fair to state that the air quality in the City would probably remain marginal as the traffic on the New Jersey Turnpike and U.S. Route 1 are expected to increase. The proposed pollution control project would have negligible impact on the air quality in the City.

7. Ecology. Because the Elizabeth River and Arthur Kill were subject to prolonged pollutional stress, fish and wildlife resources are practically nonexistent. Without the project, there would be a continuing degradation of water quality in the River and Arthur Kill. There is no reason to believe that natural resources once existed in the area would be returned.

D. Environmental Impacts of Alternatives

1. General. Evaluation of environmental impact of alternatives will be classified into two categories: construction impacts and long-term impacts. Construction impacts are, for the most part, considered to be short-term in nature, usually from the start of construction until the completion of the project. Because of their short-term nature, most construction impacts can be effectively mitigated.

Long-term impacts can be direct (primary) or indirect (secondary). Direct impacts result from the construction, location and/or operation of the facilities and generally remain in force for the life of the project or longer. Indirect impacts are induced changes in population, land use and economic growth resulting from implementation of the project on air, water and noise pollution and damages to ecosystems. Secondary effects are normally much more difficult to predict than primary effects.

The following will describe construction impact and long-term direct impacts of each alternative type. Environmental impacts of sewer flushing and in-line storage alternatives will be described together since their impacts are quite similar. Some impacts are independent of the site location and some are site specific. Also, some long-term effects will be described later considering the City as a whole since they have collective effects.

2. Sewer Flushing and In-Line Storage Alternatives. Sewer flushing during dry days and utilization of in-line storage in large combined and storm sewers during wet days are accomplished by the construction of flushing and storage modules, respectively at the junctions shown in Plate IX-1. Sewer flushing and in-line storage modules and their operation are described in Section IX.

All modules are installed in existing sewers under City streets. A construction pit is required to install the control gate and actuator unit underground. The size of the construction pit will vary with the size of the sewer to which the module is connected. For an installation of storage module in a 48-inch combined sewer, the average pit will be about 24 feet (along the sewer) by 26 feet. For storage module installation in a 48-inch storm sewer, the pit size will be greater, about 32 feet (along the sewer) by 26 feet. Larger sewers will require greater pit size. As compared in Table VIII-12, flushing modules are installed in smaller sewers and storage modules in larger sewers. Hence, smaller construction pit will generally be required for flushing modules than that for storage modules.

Construction Impact

The construction impact will be of a localized nature, limited to the immediate area of the excavation. The major impact will be the interruption of thorough or local traffic, especially in busy streets such as Elmora, Morris, North, Jefferson and Union Avenues, and Reid and Summer Streets. Depending upon the location of the sewer under the street and the width of the street and sidewalk, some streets may be completely blocked and some only partially during the construction and installation of modules which may take up to six months to complete. Appropriate mitigation measures can minimize traffic congestion and inconvenience to local residents.

There will also be some visual impacts, noise and dust during construction as well as, in some instances, impacts on surrounding commercial areas as a result of construction material being delivered to the site. Operation of construction equipment would be expected to contribute a small amount of air pollutants to the immediate vicinity of the construction site. The impacts are expected to be very minor.

Excavated material can be disposed of in an environmentally safe manner, acceptable to cognizant regulatory agencies. To summarize, construction acitvities will not have a significant impact on the environment around the construction sites throughout the City.

Long-Term Impacts

Water Quality

There will be a substantial reduction of pollutants discharged to the Elizabeth River, Arthur Kill and Newark Bay from combined sewer overflow and urban runoff as the result of sewer flushing in heavily deposited combined sewers and utilization of pipe storage in large combined and storm sewers. There will not be adverse water quality impact either to surface water or to groundwater. Instead, there will be beneficial impacts to water quality which will be discussed in the Summary section

Air Quality

Operation of flushing and in-line storage modules would not release odor, particulates or gases to the atmosphere, hence, there will be no long-term primary impacts.

Aesthetics and Noise

In-line storage modules will be entirely under the streets, hence there would be no impacts on the local aesthetics. So would be the flushing modules except that there will be a small sidewalk vault, like that used for traffic signal control, to house the electrical service and sluice gate control system for routine operation on a daily basis. This control unit is small and should not be an aesthetics hazard.

TABLE VIII-12

NUMBER OF MODULES VS. SEWER SIZE

Sewer Size, D	Sewer Flushing	In-Line Storage
D < 4 ft.	8	0
4 ft. < D < 6 ft.	6	9
6 ft. < D < 7-1/2 ft.	3	4
7-1/2 ft. < D	0	3
Total	17	16

Since all flushing and storage modules are under the streets and would be operated rather infrequently, noise impacts would be negligible.

Public Health

Since flushing modules are designed to backup a relatively small volume of sewage for downstream flushing, their operation would not cause interior flooding to houses connecting to it. Fail-safe operation would incorporated in the operation of the in-line storage module to avoid potential interior flooding. In the event of a major storm, the gate would be fully open and the sewer would function as "no action" alternative. No public health problems are anticipated.

Cultural Resources

All construction works will occur in and under the City's streets. No building will be affected and no taking of private land will be required. None of the cultural resources identified (Table VIII-11) will be affected. Practically all City streets have been disturbed in the past when the streets were built or when sewers or utility lines were laid. No cultural resources are anticipated to exist under the streets.

3. Off-Line Storage Alternatives. All off-line storage facilities for single purpose pollution abatement or for dual-purpose pollution abatement and flood relief, are sited in undeveloped land, mostly public, to minimize the potential environmental impacts. All are closed underground structures as shown in Plate VII-1. They can be designed such that the only part of the structure extending above ground would be the control building with an average size of about 20 feet by 40 feet and about 15 feet in height. Other structures associated with a storage facility include flow control modules and interconnecting sewers to divert combined sewage to the tank and to

empty the tank to a nearby sewer destined for the treatment plant. Off-line storage facilities and their operation are described in the next section.

In every case, flow control modules are installed under the streets to be connected to existing sewers. The size of the construction pit required will be generally greater than that required for flushing or storage modules and will be approximately 25 feet by 30 feet. Interconnecting sewers, except in several instances, are also to run under the street to minimize environmental impacts. The horizontal dimensions of storage facilities shown in Plates IX-11 to IX-29 are based on the assumption that the depth and the width are fixed at 20 feet and 75 feet, respectively. The length of the tank is varied according to the storage volume required. In final design, the tank depth and horizontal shapes would be adjusted to best suit the local conditions.

In the following, construction impacts and long-term primary impacts which are common to all storage facility sites will be described. It will be followed by site specific impacts, based on data gathered during field inspection and from other sources.

Construction Impacts

Construction impacts of a tank facility would be similar to those of a sewer flushing or an in-line storage alternative except that there would be a greater amount of traffic interruptions, noise and dust for a longer duration and more excavation would be required and more soils to be disposed of. Generally, it would take one year to complete the construction of a tank. Excavated soils would mostly consist of silty sand intermixed with gravel, cobbles and boulders. They would be properly disposed of at a spoil area where adverse environmental effects would be at a minimum or tolerable level. Dewatering operations may be required at the tank site. Water gener-

ated by dewatering would be desilted according to acceptable practices before discharge to sewers. Because of the anticipated short duration and low volume of discharge, no significant impact of this discharge to the sewage treatment plant operation is anticipated.

Long-Term Primary Impacts

Water Quality

All alternatives selected in the final plan are effective in removing pollutants discharged to the Elizabeth River, Arthur Kill and Newark Bay. They would result in immediate and long-term improvement of water quality in the three water bodies. There would be no adverse effect on water quality.

Air Quality

Storage tanks are intended for storing of combined sewage and will require up to two days to empty the storage to the treatment plant without exceeding the allocated treatment capacity for Elizabeth. Odor may be emitted from ventilation pipes which may be located in the control building. Should odor be a problem, it can be effectively mitigated by using odor control devices such as those used with activated carbon. No particulates will be released from the storage basin. Hence, no significant long-term primary impacts are anticipated.

Aesthetics and Noise

After the completion of a storage tank construction, the only structure extending above ground would be the control building, which can be architecturally designed to match the landscape of the site area. Some open space will be foregone, however, and the rest of the

area could be restored to its present use, usually as a park or parking lot with little, if any, detrimental effects.

Small pumps would be used to empty the stored combined sewage in the tank about 70 times a year and up to two days each time. Noise generated by pumps would be contained by the control building, hence no significant long-term effects are anticipated.

Public Health

Operation of the off-line tanks would not cause any sewer backup and no interior flooding will occur. The system is entirely underground. With the maximum tank flow line controlled, surface flooding of combined sewage would not occur from the tank operation. Dual-purpose tanks will relieve street floodings as well as cellar flooding with combined sewage and public health would be protected.

Since odor control, if necessary, would be provided, it should not cause any public health concern.

Cultural Resources

None of the storage tank sites and interconnected pipe routes would interfere with the historical and archaeological sites identified in the City (Table VIII-11). All excavations will occur at the streets and undeveloped land, no surface structures will be affected.

It is unlikely that cultural resources would exist underground at the storage sites since they have been disturbed one way or the other for their present use as park, parking lot, school playground, etc. During the excavation, a qualified professional would be available should anything be encountered which may be historically significant. If necessary, an alternate site adjacent to the original site can be chosen and alternate design prepared at that time.

Additional Site Specific Impacts

(1) Crane and Union Street (Plate IX-11)

The area is basically commercial, adjacent to a trucking company. The construction work will affect the operation of a small commercial parking garage. Since most of the excavation will occur on the side streets, traffic interruptions would be minimal.

(2) Union Avenue and Prince Street (Plate IX-15)

It is a paved school playground used by the Immaculate Conception School and is next to a high-rise commercial building. During the construction, school activities will be partially affected, after which the playground will be reduced by the area occupied by the control building. Security measures would be taken to insure the safety of the children during construction. The area around the site is half commercial and half residential and appears to be one of the better areas in the City. Because of the proximity of this site to the Crane Street site, it appears desirable to use the Crane Street site in place of the Union Avenue site.

(3) Scott Park (Plate IX-16)

It is a small, well kept park, located near the busy downtown commercial area. Because of the relatively large traffic volume in the area and rather limited, though adequate, space available for construction, there would be environmental effects typical to a construction activity in a busy downtown area. These effects should, however, be tolerable since they are temporary.

(4) Pearl and South Broad Street (Plate IX-17)

It is in the paved parking lot of the A&P Supermarket and some neighborhood stores. Temporary impacts will mostly occur from laying

sewers along Pearl Street and installation of flow control module at Pearl and Burnet Streets and from interfering with shopper parking during construction. The parking lot would be slightly reduced. No significant long-term impacts can be foreseen.

(5) Fourth Avenue Between South & Center Streets (Plate IX-19)

The area is owned by a haulage company having several brick buildings on the premises. To avoid potential impacts to the operation and property of this private company, the tank may be relocated to an unused space adjacent to the Elizabeth River between U.S. Route 1 overpass and Center Street. This site is only about 600 feet from (6), and providing a single tank for both sites may be preferable.

(6) Seventh Street Near the Elizabeth River (Plate IX-21)

The Corps of Engineers has built levees, concrete walls and ponding areas in the vicinity of the proposed site. There are adequate unused open space in the area to allow flexibility in the final layout of the storage tank and the connecting sewers. No long-term impacts are anticipated.

(7) Clarkson Avenue Between Summer & Garden Streets (Plate IX-22)

It is a stoned parking lot adjacent to the Elizabeth River and is across from an athletic field belonging to the Edison Vocation School. Despite some nearby multiple family houses, no significant impacts are anticipated.

(8) Trumbull Avenue and First Street (Plate IX-24)

The tank will be located in a large parking lot across First Street from the Singer Company. The area is completely industrial and no long-term impacts are anticipated.

(9) Elizabeth Avenue and South Front Street (Plate IX-27)

It is an unused space grown with weeds between a small industry and the Elizabeth River. The isolation of the site preclude any long-term environmental impacts.

(10) Third Avenue and South First Street (Plate IX-28)

The proposed site is a low lying area between South First Street, now used by an industry for storage of scrap metals. There is an earth dike between the River and First Street, apparently for protection of South First Street area from high water in the Elizabeth River. This dike may preclude the area from an underground tank construction. Should it be the case, an alternate site will be in a parking lot on First Street about 400 feet from Third Avenue, opposite Apex Chemical Company. Environmental impacts, if any, are minimal at the latter site.

(11) Westfield Avenue Opposite Galloping Hill Road (Plate IX-12)

Because of the size of tank volume to be installed, it will encroach the parking lots of Deka Plastics, Inc. in Elizabeth and of Krajack Tank Line, Inc., in Roselle Park. Drainage relief sewers would run under the street from flooding area on Park Avenue along the route shown on Plate IX-12 to the storage site. Traffic will be affected the most at Westfield Avenue, which is a busy inter-urban artery. After its completion, no long-term environmental impacts are anticipated.

An alternate storage site is located in a large stoned storage area on West Grand Street immediately west of American Type Founders. It will require jacking under a railroad for constructing sewers. It would, therefore, be more expensive than the original site.

(12) Public School at Baker Place (Plate IX-13)

The proposed site will be at the paved playground of the Public School No. 12, surrounded by predominantly single family houses. The playground is small and enclosed by the school buildings on two sides. In addition, Baker Place is narrow. As a result, there will be significant impacts on the school activities during construction. Mitigation measures to protect public health (mainly noise) and safety will be required. The storage tank can be under Baker Place to allow a greater distance from the school building so that construction effects can be reduced. Since the control building will take away some of the limited playground space, there will be some long-term effects to the school. There is no alternate storage site in the area for flood relief at Bellwood Place at Livingston and Elmora Avenue at Chilton Street.

(13) Carteret Park (Plate IX-14)

It is an ideal site for underground storage tank. The park is large and would not be subject to significant impacts during construction and no apparent long-term impact would exist after its completion. Sewer routes for drainage relief mostly follow side streets, no significant impacts on traffic are anticipated during construction.

(14) Caldwell Park (Plate IX-18)

It is a small park but has adequate space for the required tank volume. There are no particular environmental sensitive factors that preclude it from consideration.

(15) Fourth Avenue Between South & Center Streets (Plate IX-30)

The major difference between this dual purpose alternative and (5), a single purpose pollution abatement alternative is that this alternative includes storm sewers from the flooding areas near the Elizabeth General Hospital and Third Avenue at South Street. Construction impacts of 84-inch sewer along a short section of Elizabeth Avenue and along Spring Street can be mitigated by proper detouring and traffic control.

(16) Catherine Street Between Grand Street & Central Railroad (Plate IX-20)

The tank will be located in an undeveloped private land. Construction impacts would be less from the tank than from the sewers which would run under a portion of Reid, Spring, East Grand and Catherine Streets. No long-term impacts are anticipated.

(17) Kellog Park (Plate IX-23)

Kellog Park is large, over ten acres. Environmental impacts, if any, will be temporary. The control building which will be left standing in the park permanently would affect not significantly the aesthetics and usage of the park. Construction impacts would be felt along North Avenue during sewer construction.

(18) Brophy Field (Plate IX-25)

It is a public park with some recreation facilities and is not near residential housing. Construction impacts would be minimal and no long-term impacts are conceived.

(19) South of Seventh Street Between Park Street & Central Railroad (Plate IX-26)

This area is situated between the right-of-way of the Central Railroad of New Jersey and an industry. The railroad has been abandoned and rails were removed. It may require some encroachment of the railroad right-of-way. Since the residential housing is one street away, construction impacts would be small and no long-term primary impacts are anticipated.

(20) Butler Street Between Second & Third Avenues (Plate IX-29)

This area is situated in a storage area used by Thomas Betts Corporation. No structure would be affected and only some storage space would be foregone to make way for the control building. Construction impacts should be minimal since it is in an industrial area. No long-term negative impacts are anticipated.

4. Swirl Separator. The only swirl separator that is considered in the final plan is located at the existing overflow to Peripheral Ditch near Dowd Avenue and Alina Street. It is isolated from the existing industries and is considerable distance from residential housing. No appreciable construction impacts and long-term primary impacts are anticipated.

5. Westerly Interceptor. The existing brick Westerly Interceptor was built around 1912. Analyses show that the anticipated peak dry weather flow would be greater than the existing capacity from the origin of Westfield and Morris Avenue to the vicinity of Clarkson Avenue and Britton Street for a distance of about 9,120 feet. This overloaded sewer would be replaced with sewer sizes shown in Table VI-2. the route of the replaced sewers would start from Westfield and Morris Avenues and would be under the following streets: Union Street, West Jersey Street, South Union Street,

Elizabeth Avenue, Bridge Street, South Pearl Street, Grove Street and Clarkson Avenue. The interceptor crosses the Elizabeth River by a siphon at Bridge Street.

Construction Impacts

Like the construction of other alternatives, impacts are considered to be short-term in nature. Major impacts will be on traffic, especially along Elizabeth Avenue. Excavated trench will be in alignment with the existing sewers. The amount of traffic interruptions will generally depend upon the location of the existing sewers in a street. Traffic congestion will be minimized with appropriate detouring and traffic routing. Along the construction route, the usual construction related visual impacts, noise and dust are anticipated.

During construction, bypass pipelines would be located above ground along with all necessary electrical service lines and cables for pump station operation. Restricted access will be in the interest of public safety. In addition, excavated material will be properly disposed of. Dewatering operations would be expected since the interceptor is below and adjacent to the Elizabeth River. Water generated from the dewatering operations will be desilted before discharge to nearby sewers, preferably sewers leading the overflow to the River. No significant impact on the River is anticipated from discharge of these waters because of short duration and low volume of discharge.

Extensive cultural resources reconnaissance surveys were conducted along the general area of the proposed interceptor replacement route for the Elizabeth River Flood Control Project and the Amtrak Northeast Corridor Project. Multiple sites with significant cultural resources were identified as shown in Table VIII-11. The West Jersey Street Bridge is the only site which has a potential of being

affected by the construction. Special construction care should insure the integrity of this cultural resource site.

E. Environmental Assessment of the Project - Summary

1. Project Benefits. The selected cost-effective pollution abatement plan should reduce by about 3,400,000 pounds the SS and 590,000 pounds the BOD that now annually discharges untreated to the Elizabeth River or a reduction of 68 percent and 69 percent, respectively. The annual reduction of pollutants now entering Arthur Kill untreated will be about 1,310,000 pounds for SS and 260,000 pounds for BOD or 93 percent and 95 percent, respectively. For Newark Bay, the reduction of SS will be about 910,000 pounds and of BOD 155,000 pounds or 66 and 69 percent, respectively. These pollutant reductions would result in water quality improvements in and around Elizabeth. They will result in water quality improvement in the Elizabeth River and Arthur Kill in conjunction with the upgrading of the Joint Meeting Sewage Treatment Plant.

The alternatives in the project are selected from an objective evaluation of the cost-effectiveness of all feasible alternatives and are based on the state-of-the-art technology. Together, they require the least expenditure of public funds to achieve pollution abatement. The project includes a flexible, staged construction program to permit the City to proceed on a schedule suited to its ability to finance. The program will follow an optimal path in which maximal water quality improvement would be achieved for the amount of financial resources invested. As this program proceeds, the effect of the work on the River water quality can be monitored to determine the benefit for continuing work.

The alternatives to achieve the dual purpose of pollution abatement and flood relief would, in addition to providing about the same degree of water quality improvement described earlier, relieve street

flooding in the City from severe storms. This is consistent and complementary to the nearly completed Corps of Engineers' Elizabeth River Flood Control Project, which would practically eliminate flooding in areas along the River. It is anticipated that environmental improvement in land and waters would be a major factor in bringing about improvement of existing development and the redevelopment of older areas. These improvements would assist the City to remain economically viable.

Other project benefits include the following: (1) operation of sewer flushing, in-line storage, flow control modules would require periodic sewer inspection, allowing early detection and remedy of problem sewers; and (2) the project would increase employment opportunity in the City during the construction period and should continue to generate jobs thereafter, as the improved environment could induce further desirable development.

2. Primary Adverse Impacts of Project. The traffic disturbances, noise and dust associated with construction impacts should be relatively short-term. All construction of sewer flushing, in-line storage and flow control modules and sewers would occur in the streets. No structure will be affected. Construction work in the busy downtown commercial streets and the intercity arteries would contribute to traffic congestion and local degradation of air quality.

Construction of underground storage tanks for pollution abatement only and for dual purpose of pollution abatement and flood relief would require the taking of permanent and temporary easements on land, and would be disruptive to the property owner. Two storage sites are located in school playgrounds and construction work would affect school activities. The control building, which would be above ground, would permanently reduce the size of playgrounds available to

children. In several storage sites, removal of trees would be required.

The control building would change the aesthetics of the area around the storage sites. Odor which may be emitted from the storage tank can be effectively mitigated by filtering devices.

Excavated material from the storage tank sites and streets would probably be disposed of on land and this operation would change the environment of the disposal area. Water generated from dewatering operations would enter the City's sewers, preferably storm sewers and could temporarily increase the sewage flow to the treatment plant. Those entering storm sewers would enter a nearby water body and would result in an increase of turbidity. Considering the short-duration of dewatering operations and low volume of water, impact on the sewage treatment plant operation and receiving water quality would be minimal.

All alternatives in the project are aimed at diverting pollutants in wet weather flow to treatment. This results in two effects. One is that urban runoff that would normally enter the Elizabeth River, Arthur Kill and the Newark Bay from the existing outlets would be reduced. Instead, these flows would be discharged to the Arthur Kill after treatment at the treatment plant. The other effect is that more sludge would be generated at the plant. The total diverted flow would be about 860 million gallons a year, about 15 percent of total sewage flow now diverted to the plant from Elizabeth or about 3 percent of the total plant flow. Since there would be a controlled diversion from the City, increase in diverted flow should not cause hydraulic overloading to the plant. Also, slight increases in sludge generated at the plant would not be expected to cause disposal problems. Potential effects of changes in urban runoff discharge locations to the River ecology should be small since the amount of urban runoff redistributed is a small fraction of the river flow.

None of the historical sites and cultural resources identified would be affected by the project. Since fish and wildlife resources are practically non-existent in the Elizabeth River or on the land, the project will have no impact on fish and wildlife resources and the endangered species.

3. Secondary Adverse Impacts of Project. There will be no major adverse secondary impact of the project associated with long-term land use and population changes. The City is practically built-up. The project will directly improve environmental quality of the City and should encourage development of undeveloped land, mostly in industrial areas and redevelopment of older residential areas. The possible end result could be an increase in population. It has been estimated that the City's population at the saturation would be around 120,000, about 13 percent greater than the current population. The resulting water use increase would be within the City's ability to supply. The City also has sufficient treatment capacity at the present time to accommodate potential increases in wastewater. Air quality will probably not be changed since increases in traffic-related air pollution may be offset by more efficient emission controls as a result of technological achievement.

4. Measures to Mitigate Adverse Impacts. Mitigation measures judged to be of importance with regards to the environmental impacts of the project are:

(a) Traffic interruption can be mitigated by (1) clearly marked detours to expedite traffic flow, (2) scheduling construction and delivery of equipment and supplies during low traffic flow periods, and (3) controlling traffic by an officer during peak traffic periods.

(b) Noise from construction activities can be reduced by use of quieter equipment or noise control devices or by scheduling construction during normal working hours and working days.

(c) Dewatering equipment, which may be required to operate around the clock, would be carefully located and silencers used to minimize noise impact at nearby residential areas.

(d) Added stress to local air quality can be minimized by following measures to mitigate traffic impact. During periods of air pollution episodes/emergencies, work stoppage would be allowed. Additionally, covers would be required on all earth hauling vehicles.

(e) During construction, protection of all public utility services would be a main priority with appropriate techniques to maintain the highest level of public and worker safety.

(f) Excavated material can be disposed of in an environmentally safe, acceptable manner.

(g) Water generated from dewatering operations could be desilted prior to discharge to surface water.

(h) All areas cleared during construction will be restored to their former or improved state.

(i) The configuration and layout of each underground storage tank will be determined to minimize the disturbance to the property owners. The control building would be designed to match the landscape around the storage site.

5. Adverse Environmental Effects Which Cannot be Avoided for the Proposed Project. The following unavoidable adverse environ-

mental effects have previously been identified and their mitigation measures proposed to rectify these effects:

(a) Disposal of excavated material (predominantly silt and sand with gravel and cobbles), probably on land.

(b) Temporary social impacts such as noise, dust, aesthetics and traffic interruptions.

(c) Temporary loss of intended land use such as school playgrounds and parks during construction, and permanent loss of surface space occupied by the above ground structure such as a control building for the underground tank.

6. The Relationship Between Local Short-Term Uses of Man's Environment and the Maintenance and Enhancement of Long-Term Productivity. The effect of the project on local short-term uses of man's environment is largely temporary. Excavation may result in increased noise levels at intervals during work hours. Dust and dirt from exposed areas may also be a transient nuisance. Traffic patterns will be interrupted. All of these impacts are transient in nature and would disappear upon completion of construction.

The implementation of the project will improve the City's environment and maintain its urban characteristics. The abatement of pollution in the Elizabeth River and Arthur Kill would be a necessary step in converting the River to a non-polluted, visually attractive waterway, thus reducing risks to public health and widening the range of beneficial uses of the environment. On the basis of the foregoing, the project would maintain and enhance the long-term economic and environmental well-being of the City.

7. Irreversible and Irretrievable Commitments of Resources Involved in the Proposed Action as a Result of Implementation. The

proposed pollution abatement project will involve certain irreversible and irretrievable commitments of resources.

The lost resources associated with any public works project are the labor and materials required to construct the proposed improvements. This represents an economic commitment necessary to achieve clean waters.

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8. "Elizabeth Flood Control Project, Elizabeth, New Jersey, General Design Memorandum," New York Disrict Corps of Engineers, Department of the Army, June, 1969.

IX. PRELIMINARY DESIGN AND COST ESTIMATES

Various alternatives to achieve pollution abatement only and to achieve the dual purpose of pollution abatement and flooding relief have been screened in Chapter VII. A staged, flexible program has been developed to permit the City to proceed on a schedule suited to its ability to finance. Maximum use is made of the City's existing facilities and costs to achieve substantial benefits are reasonable. The location of the various facilities for pollution abatement are shown in Plate IX-1 and for the dual purpose facilities, in Plate IX-2.

A. Facilities and Their Costs

As indicated in Chapter VII, the proposed works require:

1. In-line storage in combined sewers obtained by the construction of storage modules in existing sewers. The general features are shown in Plate VII-4. They consist of an automatically controlled gate in the combined sewer channel and a bypass to permit passage of dry weather flow around the gate. In dry weather, the gate would be closed and the dry weather flow would be diverted around the bypass. In the event of a rainfall, the water level in the combined sewers would rise and the bypass would close, permitting combined sewage to be stored upstream of the gate. An auxiliary overflow weir is provided at the top of the gate to permit relatively small flows to overtop the gate. In the event of a storm requiring passage of more than can overtop the gate without flooding, the rising upstream water level would open the gate and permit the passage of such flows. As the water level in the combined sewer dropped to equal or less than the peak dry weather flow, the gate would close and the bypass open.

CITY OF ELIZABETH, NEW JERSEY
COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN

958870521

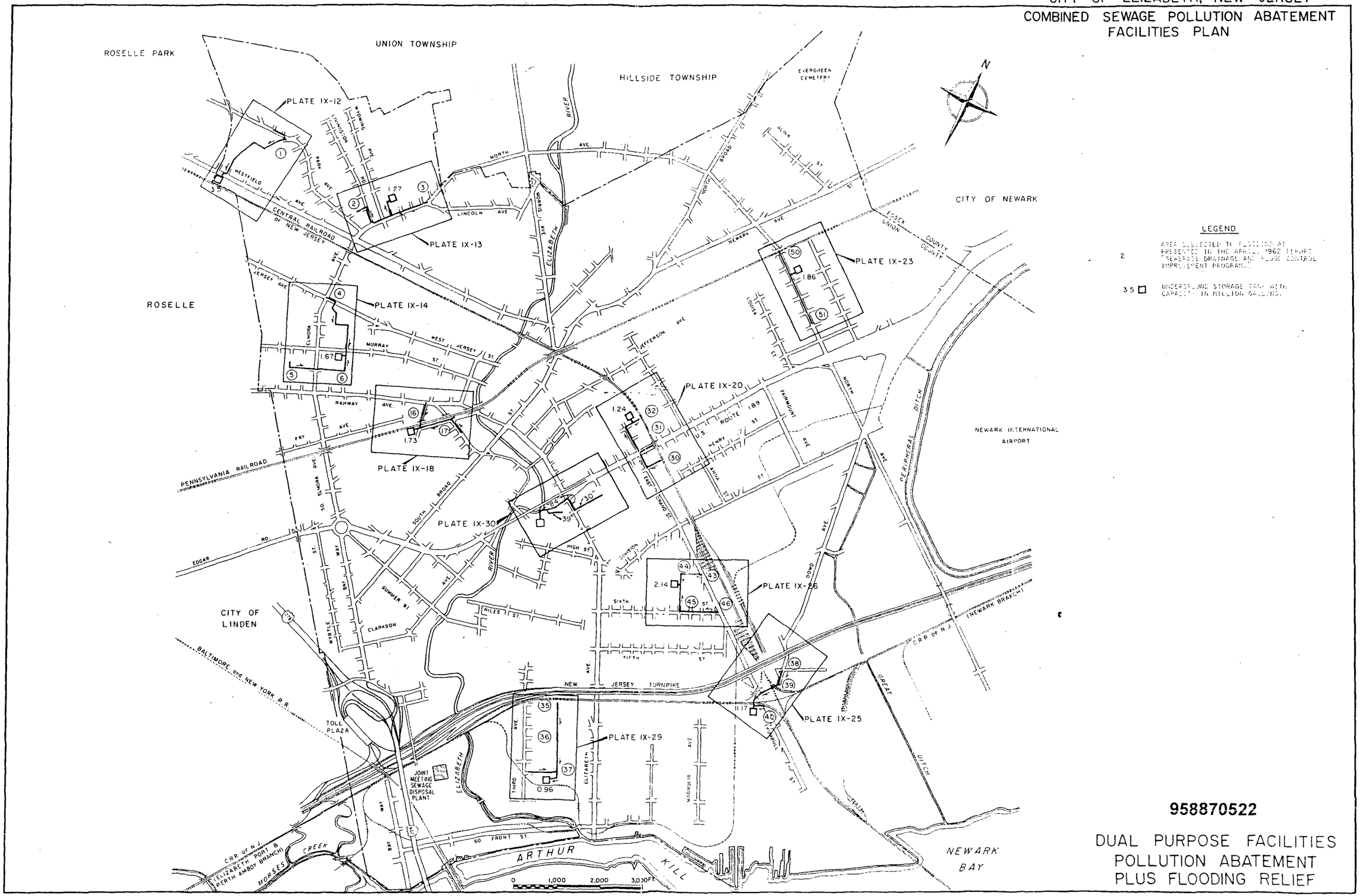
POLLUTION ABATEMENT FACILITIES

CLINTON BOGERT ASSOCIATES

PLATE IX-1

CITY OF ELIZABETH, NEW JERSEY

COMBINED SEWAGE POLLUTION ABATEMENT FACILITIES PLAN



958870522

DUAL PURPOSE FACILITIES
POLLUTION ABATEMENT
PLUS FLOODING RELIEF

CLINTON BOGERT ASSOCIATES

PLATE IX-2

November 29, 1983

City of Elizabeth
City Hall
Elizabeth, New Jersey 07201

Attention: Mr. Fred Bostel

Re: Sewer Problems

Dear Fred:

As per our telephone conversation this date, we feel that we have determined where the City's "Loading" has been going the last few months since, based upon [illegible] adjustment bill, it was not going through the [illegible] Avenue Pumping Station.

The City maintains a [illegible] along Trumbull Street in the vicinity of the Singer [illegible] the interceptor [illegible] gates and regulators have been installed which would allow diversion of sewage during "wet weather" flows to the Arthur Kill/Newark Bay. Our recent inspection has determined that some if not all the regulators in the aforementioned area are not functioning properly and therefore allowing raw sewage to be discharged to the receiving waters during "dry weather" flows.

Since this interceptor services an industrial section of the City and industries such as Jersey Price and Mountainside Butter and Egg to name a few are connected to this interceptor, the load from these industries would [illegible] handled by the Pumping Station and subsequently our treatment [illegible] since the City received a rebate on their third quarter [illegible] those industries tributary to the sewer in [illegible] receive a refund since thier waste [illegible].

In addition to the above we have determined that in various sections of the City sewage [illegible] the River and river water is being allowed back into the City system as a result of inoperative or non-existent [illegible].

DEC 01 1983

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Accordingly we have enclosed [illegible] prepared by our personnel [illegible] the City. [illegible] Victor Vinegra since [illegible] the Elizabeth River Flood [illegible].

These lists have been [illegible] the following [illegible] Sanitary Wastewater [illegible] Wastewater [illegible] Flow [illegible] [illegible] Lines.

Your cooperation is appreciated in helping to resolve these problems and should you have any questions please contact us.

Very truly yours,

[illegible]

[illegible]

[illegible]

Enclosure

cc: Robert H. Grasmere, Chairman
George J. Minich, Esq.
Allen Fornwald, JV
John Papenti
Victor Vinegra

958870525

[illegible]

[illegible]

1) [illegible]

[illegible]

2) [illegible]

[illegible]

[illegible]

[illegible]

[illegible]

3) West Jersey St: [illegible]

4) Murray St: [illegible]

[illegible]

5) Parkway Av: [illegible]

[illegible]

[illegible]

6) [illegible] St: [illegible]

[illegible]

7) South St: [illegible]

[illegible]

8) Trumbull St: [illegible]

[illegible]

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958870527

[illegible]

1) [illegible]

2) [illegible]

3) [illegible]

4) [illegible]

5) [illegible]

6) [illegible]

7) [illegible]

958870528

NEW JERSEY
DEPARTMENT OF ENVIRONMENTAL PROTECTION AND ENERGY
CN-029
TRENTON, NEW JERSEY 08625

FACT SHEET
FOR NJPDES PERMIT TO DISCHARGE
INTO THE WATERS OF THE STATE OF NEW JERSEY

I. NAMES AND ADDRESSES:

NJPDES APPLICATION NO: NJ0024741

NAME AND ADDRESS OF APPLICANT:

Joint Meeting of Essex and Union Counties
500 South First Street
Elizabeth, New Jersey 07202

City of Elizabeth
50 Winfield Scott Plaza
Elizabeth, New Jersey 07201

NAME AND ADDRESS OF FACILITY:

Joint Meeting Sewage Treatment Plant
500 South First Street
Elizabeth, New Jersey 07202

Please refer to Table III-CSO-1 for the locations and other related information regarding the Combined Sewer Overflow discharge points (CSOs).

Joint Meeting of Essex and Union Counties (Joint Meeting) currently discharges into the designated receiving waters under NJPDES Permit No. NJ0024741. The City of Elizabeth previously discharged from the CSOs under NJPDES Permit No. NJ0020684.

or 20640? Typo?

II. APPLICABLE STATUTES AND REGULATIONS

The applicable statutes and regulations related to (1) water quality based effluent limitations, (2) required data collection (3) anti-backsliding requirements, and (4) anti-degradation requirements include:

Section 101 of the Federal Clean Water Act prohibits the discharge of toxic pollutants in toxic amounts. The National Policy on toxicity related parameters (Federal Register, dated March 3, 1984) states that toxics control should be achieved

(JMC?)

through a combination of chemical specific and whole effluent limitations.

Section 301 of the Federal Clean Water Act requires that discharges from POTWs discharge in conformance with the more stringent of secondary treatment or water quality based effluent limitations. In the case of the Joint Meeting Sewage Treatment Plant, the more stringent limitations consist of a combination of secondary treatment, water quality based effluent limitations and performance based effluent limitations. Section 301 also specifically requires that ammonia-N be addressed in all permits. Please refer to Section IV of this Fact Sheet, entitled "Development of Effluent Limitations" for a more complete description of the basis for the effluent limitations. Federal regulations at 40 CFR Part 122.44 require that appropriate effluent limitations be developed for all conventional, non-conventional, and toxic pollutants which cause, have reasonable potential to cause, or contribute to any exceedance or potential exceedance of any applicable water quality criteria or standard. Federal regulations at 40 CFR Part 130.7 require the State to utilize Total Maximum Daily Loads (TMDLs) and Waste Load Allocations (WLAs) in setting water quality based effluent limitations.

Section 303 of the Federal Clean Water Act establishes requirements for water quality standards, including the definitions of those waterbodies that are attaining water quality standards and requirements related to water quality based effluent limitations. Section 303(d) contains requirements related to antibacksliding and antidegradation for water quality based effluent limitations. The requirements related to anti-degradation are detailed at 40 CFR Part 131.12. The State policies concerning the implementation of antidegradation requirements is at N.J.A.C. 7:9-4.5(d). N.J.A.C. 7:14A-3.13(a)12 requires that effluent limitations at least as stringent as those in the previous permit be included in a reissued permit. In accordance with N.J.A.C. 7:15-3.4(i) effluent limitations established as NJPDES permit conditions are considered to be a part of the water quality management plan.

Section 304(l) requires that effluent limitations for dischargers identified on the "short list" be developed for all parameters and that compliance with those final limitations be achieved within three (3) years, but no later than June 4, 1992. However, the United States Environmental Protection Agency (USEPA) has determined that this date may be extended for a period not to exceed three (3) years from the effective date of the final permit issued by the permitting agency containing the Individual Control Strategy (ICS) incorporated as final effluent limitations. For this facility the effective date of the final permit is anticipated to be no later than March 15, 1993. Therefore, the final compliance date has been estimated to be no later than March 15, 1996. The actual effective date of the

within a range of quality that shall protect existing/designated uses. The court also stated that before water quality can be diminished in waters whose quality exceeds levels necessary to support designated uses, the Department must make findings that allowing lower water quality is necessary to accommodate important economic or social development. In the Ciba-Geigy matter, existing water quality was determined by reference to the permittee's actual discharge.

Available guidance related to antibacksliding and anti-degradation includes:

USEPA Draft Interim Guidance on Section 402(o), dated 9/29/89

USEPA Region I Antidegradation Guidance, dated 3/23/87

USEPA Region V Antidegradation Guidance, dated 11/10/86 (adopted as National Standard, 11/21/86)

USEPA Region IX Antidegradation Guidance, dated 6/3/87

USEPA Questions and Answers on Antidegradation, dated 8/85 (written prior to 1987 Clean Water Act amendments, so that some information does not apply to the stricter standards of the 1987 amendments)

USEPA Antidegradation, EPA 440/5-88/028, dated 9/88

USEPA Introduction to Water Quality Standards, EPA 440/5-88-089, dated 9/88

USEPA Reference Guide to Water Quality Standards for Indian Tribes, EPA 440/5-90-002, dated 1/90

The Clean Water Enforcement Act (CWEA) requires that effluent limitations be developed for all pollutant parameters discharged in detectable concentration by a POTW which have been established for a permittee discharging into that POTW with an approved pretreatment program. This facility has an approved pretreatment program and some effluent limitations have been determined based on the CWEA.

N.J.A.C. 7:14A-3.14(k) sets the procedures for calculating New Jersey Pollutant Discharge Elimination System (NJPDES) Discharge to Surface Water (DSW) permit conditions in accordance with N.J.A.C. 7:9-5 (Wastewater Discharge Requirements) and/or N.J.A.C. 7:9-4 (Surface Water Quality Standards).

This permit has been prepared in accordance with the National Combined Sewer Overflow Control Strategy (the "National Strategy"). The National Strategy established a uniform, nationally-consistent approach to developing and issuing Nation Pollutant Discharge Elimination System (NPDES) permits for combined sewer overflows (CSOs). The National Strategy applies

to EPA and approved NPDES states. CSOs have been shown to have severe adverse impacts on water quality, aquatic biota, and human health under certain conditions. Therefore, the National Strategy specifies that permits for CSOs are to be developed expeditiously to minimize the potential impacts by establishing technology-based and water quality-based requirements of the federal CWA.

CSOs are point source discharges subject to NPDES permit requirements including both technology-based and water quality-based requirements of the federal CWA. Compliance dates for technology-based and water quality-based limitations are governed by the statutory deadlines in Section 301 of the CWA. CSOs that discharge toxic pollutants into water bodies listed under paragraph (B) of Section 304(l) of the CWA are additionally regulated under Section 304(l).

Technology-based permit limits are to be established for best practicable control technology currently available (BPT), best conventional pollutant control technology (BCT), and best available technology economically achievable (BAT) based of best professional judgement (BPJ). The CWA of 1977 mandates compliance with BPT on or before July 1, 1977. The Water Quality Act Amendments of 1987 (WQA) mandates compliance with BCT/BAT on or before March 31, 1989.

The New Jersey Legislature in the enactment of the Sewage Infrastructure Improvement Act (the "Act") (N.J.S.A. 58:25-23 et seq.) declared that combined stormwater and sanitary sewer overflows (CSOs) are a major source of ocean and other surface water pollution, that such sources of pollution are a danger to the public and health and safety of the residents of the State. The Act requires within thirty (30) months after enactment of the Act, any public entity operating a combined stormwater sewer and sanitary sewage system shall provide abatement measures approved by the Department at any CSO point for which a permit is required. Any public entity that fails to provide, in accordance with standards established therefore by the Department, appropriate abatement measures approved by the Department after the expiration of the 30 month period shall be subject to the penalty provisions of P.L. 1977, c. 74 (c.58:10A-1 et seq.). The SIIA was approved and effective on August 3, 1988. The 30 month period expired on February 3, 1991.

The Department has determined that serious problems are associated with dry weather overflows and the discharge of solids/floatables from CSO points. The elimination of dry weather overflows and the control of solids/floatables are correction measures that may be implemented prior to the development of a long-term water quality-based control strategy. This permit includes a performance criteria for the control of solids/floatables and includes language that reaffirms the Department's position on the prohibition of dry weather overflows.

Dry weather overflows from CSO points occur not as a result of any events of precipitation but rather as the result of malfunctioning facilities, illegal connections, etc. Dry weather overflows are raw sewage discharges and are prohibited since they are in direct violation of the Surface Water Quality Standards as specified in N.J.A.C. 7:9-4.1 et seq.

The reduction of solids/floatables from CSOs are a Departmental priority at CSO points. Solids/floatables are presently being discharged directly into the surface waters of the State. The presence of solids/floatables is a violation of State water quality standards in all classifications of surface waters in the State pursuant to N.J.A.C. 7:9-4.1 et seq. "Surface Water Quality Standards"

As previously stated, the National Strategy requires permit strategies bring CSO discharge points into compliance with technology-based requirements of the CWA and applicable State water quality-based standards as expeditiously as possible. This permit has been structured in accordance with a stratagem deemed appropriate to control CSO discharges. Best Management Practices (BMPs) are identified and required to be implemented. A comprehensive monitoring and modeling study is specified to characterize the relationship between CSO discharges and the applicable receiving water's responses for events of precipitation.

In accordance with the National Strategy, this permit has been written as a "system-wide" permit. The CSO discharge points owned and/or operated by the City of Elizabeth, which were previously contained in a separate permit as indicated on page 1 of this Fact Sheet, are proposed to be contained within this permit. A subsequent permit actions will terminate the above referenced permit for the CSO discharges after this permit is issued final.

The use of a system-wide permit does not affect liability. It merely provides a single administrative mechanism for managing all water quality related planning, design and construction activities associated with bringing the CSO discharges into compliance with technology-based requirements of the federal Clean Water Act and state water quality standards. Paragraph I, C of Part III-CSO provides the permittees with an opportunity to delineate their responsibilities with respect to the entire collection, conveyance and treatment facilities.

With respect to the water quality planning, design and construction as well as the operation and maintenance responsibilies associated with the combined sewer systems and the CSOs, as specified in Part III-CSO of this permit, the City of Elizabeth and Joint Meeting are identified as joint permittees. The owners and/or operators of the individual CSO discharge points, and their appurtenances, are responsible for the operation and maintenance requirements and the monitoring

and reporting provisions specified in the permit for those discharge points.

A reopener clause is included to facilitate establishment of limitations and the incorporation of existing CSO discharge points appurtenant to the combined sewer system identified during the duration of the permit, after due notice. It is the position of the Department that such a strategy will ensure a consistent, comprehensive, and cost effective mechanism to appropriately control the discharges from CSOs.

III. DESCRIPTION OF FACILITY AND DISCHARGE:

1. Facility Description:

Treatment consists of coarse bar screening, fine screening, grit settlement/removal, primary settling, aeration of activated sludge, secondary clarification and chlorination. Primary and secondary sludges are combined in gravity thickeners, supplemented by centrifuge thickeners, followed by anaerobic digestion and centrifuge dewatering. The dewatered sludge is shipped, under an interim management contract, for out of state management until a long term sludge management alternative is implemented pursuant to the conditions of JMEUC's Judicial Consent Decree. Sludge is also managed pursuant to permit conditions pertaining to residuals management in Part I-A and Part IV-A of this permit action.

2. Discharge Description:

a) The treatment plant's effluent is discharged through outfall No. 001 into the Arthur Kill classified as SE-3 waters.

Latitude: 40° 38' 17"
Longitude: 74° 11' 51"

The Permit Summary Table and Limits Derivation Table at the end of this Fact Sheet includes a summary of Joint Meetings DMR data for a time period chosen as representative of Joint Meetings current wastewater treatment operations.

b) Information concerning the owners, the locations and the descriptions of the CSOs has been included at the end of this Fact Sheet as Table III-CSO-1.

IV. DEVELOPMENT OF EFFLUENT LIMITATIONS:

1. General Methods:

Effluent limitations are developed by three (3) methods:

a. water quality considerations;

b. miscellaneous effluent requirements, such as effluent standards and/or minimum treatment standards;

c. performance based;

Water quality based effluent limits (WQBELs) are used in a permit when it has been determined that more stringent limitations than minimum secondary treatment effluent limitations are required to protect the designated uses of the receiving stream. WQBELs are developed to assure compliance with the New Jersey Surface Water Quality Standards (N.J.A.C. 7:9-4.1 et seq.). In accordance with 40 CFR 122.44, "reasonable potential to cause an excursion above the applicable water quality criteria" has been determined as appropriate from existing effluent data according to the procedures outlined in the USEPA "Technical Support Document for Water Quality Based Toxics Control" (hereinafter the TSD). The 99% confidence interval and 99% probability basis was utilized in this determination. The policies used to develop WQBELs are contained in the standards. Specific procedures and equations are contained in the USEPA documents, "Technical Support Document for Water Quality Based Toxics Control" (EPA-505/2-90-001), and "Permit Writer's Guide to Water Quality Based Permitting for Toxic Pollutants" (EPA-440/4-87-005).

In accordance with N.J.A.C. 7:9-4.6(c)2, water quality based effluent limitations for toxic or toxicity related parameters are developed through a simple mass balance. Effluent limitations for parameters related to dissolved oxygen are developed through a model submitted by the permittee to the Department for evaluation. The Department is aware that limitations for parameters other than those related to dissolved oxygen may be developed through the calibration and verification of a stream/plume model. In accordance with N.J.A.C. 7:9-4.6(c)3, it is the responsibility of the permittee to supply all information necessary to develop water quality based effluent limitations, including a calibrated and verified stream/dilution model as appropriate. Any water quality analysis program to be undertaken by the permittee in support of the calibration and verification of a stream/dilution model must be in accordance with N.J.A.C. 7:9-4.6(c)3 and must be approved by the Department prior to the initiation of any water quality sampling.

In general, the procedure used to develop a WQBEL is to calculate Wasteload Allocations (WLA) that will comply with applicable numeric water quality criteria, determine the effluent quality in terms of Long Term Averages (LTA) that

will meet the WLA, and, finally, using the most stringent LTA and treatment system coefficient of variation (CV), calculate average monthly, average weekly, and maximum daily permit limits. For human health criteria, the WLA was set equal to the average monthly limitation and the maximum daily limitation was calculated in accordance with the Technical Support Document. For calculation of the LTA from the WLA, the 99% probability was used (Z = 2.326). For calculation of the average monthly limitation (AML) from the LTA, the 95% probability was used (Z = 1.645). For calculation of the maximum daily limitation (MDL) from the LTA, the 99% probability was used (Z = 2.326). The Technical Support Document previously referenced recommends inclusion of average monthly and daily maximum limitations for all parameters. The Permit Summary and Limit Derivation Table at the end of this Fact Sheet present the appropriate criteria, wasteload allocations, long term averages, and permit limits. The equations used to calculate long term averages and permit limits are listed at the end of this Fact Sheet. The equations are taken from the USEPA documents previously cited.

For discharges into tidal waters, the mixing zone concept is used to develop WLAs. The Department's mixing zone policies are given at N.J.A.C. 7:9-4.5(c)4. The chronic mixing zone specified in the implementation procedures conforms with the definition of the mixing zone given in the Ocean Discharge Criteria (40 CFR Part 125.121(c)). Procedures to implement the mixing zone policies are based on USEPA Technical Support Document previously cited.

The report entitled, "AN EFFLUENT PLUME STUDY TO DETERMINE THE CRITICAL INSTREAM WASTE CONCENTRATION", dated October 1989, and prepared on behalf of Joint Meeting by Lawler, Matusky and Skelly Engineers was used in order to simulate the movement of the effluent discharge. Based on the data projected in the report effluent limitations for applicable pollutants have been calculated in part using an instream waste concentration (IWC) factor of .2 (dilution factor = 5) for the criteria continuous concentration (CCC) of the chronic mixing zone and .67 (dilution factor = 1.5) for the criteria maximum concentration (CMC) of the acute mixing zone.

These values are used to calculate chemical specific limits to comply with water quality criteria for aquatic life protection against acute and chronic toxicity effects. This value is also used to determine the critical Instream Waste Concentration used to calculate the whole effluent toxicity limitations in accordance with N.J.A.C. 7:9-4.6(c)5. The USEPA Technical Support Document recommends that acute criteria be met within 10% of the distance from the edge of the outfall structure to the edge of the regulatory mixing zone.

In accordance with N.J.A.C. 7:9-4.6(c)iii, in the absence of formally promulgated NJDEPE criteria, best available scientific information was used to develop work quality based effluent limits.

In accordance with N.J.A.C. 7:9-4.5(e)7, where water quality based limitations have been determined that are lower than the level of detectability, a reporting level has been included in the permit limitations table. The reporting level is equal to the Minimum Detection Level (MDL) reported at 40 CFR 136 and/or the 1991 USEPA document "Methods for the Chemical Analysis of Water and Wastes".

Miscellaneous effluent limitations are any specific limits or conditions required by federal, state, or local statute or regulation.

Effluent data, taken from the facility's Discharge Monitoring Reports (DMRs), was used in the development of effluent limitations. Individual data points were entered into a computer spreadsheet program for analysis. All data points expressed as "less than" were entered as the numerical equivalent of the detection level indicated in the laboratory report. Data analysis was completed using a log-normal distribution of the data set.

The analysis of the effluent data resulted in one of three possible conditions being proposed in the draft permit:

(1) "MONITOR ONLY" requirements,

(2) water quality based effluent limitations, or

(3) performance based effluent limitations.

The CWEA while requiring the Department to impose limitations, leaves it to the Department's discretion to determine what type of limit to impose. The Department has determined that water quality based limits (WQBEL), since they are related to water quality protection, are preferable limits to impose. However, in certain cases where WQBELS would result in unreasonably large limits, performance based limits are then imposed.

The decision making process for when to propose toxic pollutant effluent limitations for each specific toxic pollutant involved the following procedure when the local agency, such as Joint Meeting, has a delegated industrial pretreatment program:

A. Is there any effluent data for the pollutant?
   - NO: "MONITOR ONLY" requirement proposed. Stop.
   - YES: Go to B.

B. Is the pollutant discharged in detectable concentrations as defined herein?
- NO: "MONITOR ONLY" requirement proposed. Stop.
- YES: Go to C.

C. Has the pollutant been identified as being limited by the local agency?
- NO: Go to D.
- YES: Go to F.

D. Is there a water quality standard?
- NO: "MONITOR ONLY" requirement proposed. Stop.
- YES: Go to E.

E. Do reasonable potential analysis. Is the result of the reasonable potential analysis defined herein positive?
- NO: "MONITOR ONLY" requirement proposed. Stop.
- YES: Water quality based effluent limitation (WQBEL) proposed. Stop.

F. Is there a water quality standard?
- NO: Performance based effluent limitation calculated as described herein, proposed. Stop.
- YES: Calculated performance based limitation, do reasonable potential analysis and calculated WQBE; go to G.

G. Is the calculated WQBEL less than 20 times the performance based effluent limitation?
- NO: Performance based effluent limitation, calculated as described herein, proposed even if reasonable potential finding is negative. Stop.
- YES: WQBEL proposed even if reasonable potential analysis finding is negative. Stop.

REASONABLE POTENTIAL:
Reasonable potential was determined in accordance with the TSD for all toxic pollutants for which water quality criteria is either being proposed or already exists. The numerically greatest of all the reported detected values for the toxic pollutant or the least stringent reported detection level (whichever was numerically greater) was used in the calculations. If the determination of reasonable potential was inconclusive, then additional effluent monitoring, rather than a WQBEL is proposed.

Due to the requirements of the Clean Water Enforcement Act (CWEA), a positive finding of a reasonable potential analysis is a basis for proposing an effluent limitation. However, a negative finding is not a basis for not proposing an effluent limitation if a pollutant detected in the effluent is limited under the USEPA's Categorical Pretreatment Standards, adopted pursuant to 33 U.S.C. Section 1317, or it was a pollutant for which effluent

limitations have been established for a permittee discharging into a municipal treatment works of the delegated local agency.

DETECTABLE CONCENTRATION: A determination of whether a parameter was discharged in detectable concentrations was completed as follows:

a. If the maximum reported value was equal to the average reported value, it was assumed that the parameter has not been detected in any sample.

b. If the maximum reported value was less than five times the method detection level (MDL) specified by the Department in 40 CFR 136 and the 1991 USEPA document "Methods for the Chemical Analysis of Water and Wastes" for the analytical methodology, it was assumed that any variation in reported values was due to variability in reported detection levels and therefore not detected.

c. If the maximum reported value or least stringent reported detection level was greater than five times the detection level specified by the Department in 40 CFR 136 and the 1991 USEPA document "Methods for the Chemical Analysis of Water and Wastes," or no MDL was specified, it was assumed that the parameter was discharged in detectable concentrations subject to item a. above.

PERFORMANCE BASED EFFLUENT LIMITATIONS: The performance based limitations were calculated for each pollutant using the following procedure:

1. Priority pollutant data from the permittee's Discharge Monitoring Reports was examined to determine if the facility is discharging detectable concentrations of any of the priority pollutants.

2. Means, standard deviations, and 95% confidence intervals for individual data points for all parameters where one or more data points indicated that the facility discharges the pollutant in detectable concentrations, were calculated using a lognormal distribution.

3. The upper 95% confidence interval value was used as the monthly effluent mean limitation. Where more than ten data points were available, the upper 95% confidence interval for the Z statistic was used (1.645).

IDENTIFICATION OF POLLUTANTS FOR WHICH LIMITATIONS ARE REQUIRED: The Department sent a letter to the permittee

which required identification of all categorical standards appropriate to the permittee's industrial users, local limitations currently contained in the permittee's rules and regulations, as well as any additional pollutants for which the permittee has developed limitations for it's indirect users based upon best professional judgement or any other basis. Based on this information, the list of parameters to be evaluated for CWEA based limitations was developed. The list, along with a copy of the Department's March 10, 1992 letter and a copy of the Joint Meeting's March 26, 1992 response, is attached to the Fact Sheet.

Also, according to the CWEA, the Department is required to place effluent monitoring requirements on those parameters mentioned above for which effluent limitations are not being proposed in this permit.

The permittee was also required to identify those parameters which its treatment facility discharges in detectable concentrations and those parameters which were not discharged in detectable concentrations. As stated in the March 10, 1992 letter, the CWEA allows the Department to exclude those pollutants, if the POTW demonstrates to the Department that the pollutant is not discharged above detectable levels by the POTW. Joint Meeting's response letter, dated March 26, 1992, provided an analysis of which parameters were or were not discharged above detectable levels. Since Joint Meeting's analysis was only based on a single sample, the Department referred to Joint Meeting's effluent data included in the past DMR's reports for a more extensive data set to make a final determination of whether a pollutant was discharged above detectable levels. The variability and lack of sensitivity of the detection levels reported for the available data necessitated the use of the procedure discussed above to determine the detectable concentration.

2. Specific Limitations:

a. BOD_5, TSS, pH, Oil & Grease, Fecal Coliform, % Removal:

BOD_5 and Total Suspended Solids (TSS) limitations for concentration and percent removal are based on the federal definition of secondary treatment. The concentration limitations for BOD_5 and Suspended solids are also consistent with the Interstate Sanitation Commission's (ISC) regulations. The BOD_5 % removal limit is also consistent with N.J.A.C. 7:9-5.8.

pH limitations are based on the Federal definition of secondary treatment found in 40 CFR 133.102(c).

Oil and Grease limitations are based on N.J.A.C. 7:14A-14.

The monthly average and the" 10% of all monthly samples" limitations for fecal coliform are based on N.J.A.C. 7:9-4.14(c)(1)ii(2). These limits as well as the 6 hr. and instantaneous maximum limits are consistent with ISC regulations. The Department will not apply any dilution factor to limitations for indicator parameters related to disease producing organisms. This is due to the potential public health effects of failure to disinfect properly and the fact that bacteria tend to multiply in a receiving waterbody.

Dissolved oxygen is based on N.J.A.C. 7:9-4.14(c).

Effluent loading limitations for BOD_5 and TSS were calculated using a flow of 75 MGD and the appropriate concentration limitations.

b. Toxic Pollutants:

Effluent concentration limitations have been developed in accordance with the Clean Water Enforcement Act and reasonable potential analysis, as described in the previously referenced General Methods section. The criteria for deciding whether or not a limit is imposed for each individual pollutant is summarized in the table entitled "Limits Determination for Delegated Facilities." The specific limitations, along with the appropriate criteria (acute, chronic or human health) have been given in the Limit Derivation and Permit Summary Table of the Fact Sheet. Effluent loading limitations have been calculated using the methods cited above.

c. Chlorine Produced Oxidants:

The effluent limitations for CPO were calculated using an Instream Waste Concentration of .2 for the chronic mixing zone and .67 for the acute mixing zone, based on the dilution study completed by the permittee.

d. Ammonia-N:

Final ammonia-N limitations are performance based limitations. Calculated as previously described in the Fact Sheet, however, the following has been included for your information.

Ammonia-N in Water

Ammonia-N in water exists in two forms: NH_3 and NH_4^+. As NH_3, ammonia-N is called "un-ionized"; as NH_4^+, ammonia-N is called "ionized". Generally, the un-ionized fraction is usually considered more toxic than the ionized fraction. The relative proportion that is found in each fraction is primarily dependent on the temperature and the pH of the solution. At a higher temperature and/or a higher pH, more ammonia-N exists in the un-ionized form as compared to a lower temperature and/or a lower pH. Ammonia-N is usually measured as total ammonia-N, which includes both the ionized and the un-ionized fractions.

The current State water quality standard sets an instream limit on the concentration of un-ionized ammonia that may be allowed in freshwater streams. The water quality criteria can be found at N.J.A.C. 7:9-4.14. However, there is no specific numeric criteria for SE-3 waters. The Department is currently evaluating updated toxicity based criteria for ammonia-N for both saline and tresh waters. This permit may be reopened if necessary to incorporate water quality based limitations after adoption of the updated criteria.

e. Toxicity:

Water quality based acute and chronic whole effluent toxicity limitations were calculated in accordance with the methods at N.J.A.C. 7:9-4.6(c)5. Specifically, the acute toxicity limit was calculated in accordance with N.J.A.C. 7:9-4.6(c)5i and the chronic limit was calculated in accordance with N.J.A.C. 7:9-4.6(c)5iii. Both the acute and chronic limitations were calculated using the Critical Instream Waste Concentration of .2 for the mixing zone determined from the plume model in accordance with N.J.A.C. 7:9-4.6(c)5ii(2).

In calculation of the acute toxicity limitations, N.J.A.C. 7:9-4.6(c)5i allows the use of two application factors. The application factor of 0.05 is used where the toxicity is due to non-persistent substances and the more stringent (i.e. more protective) application factor of 0.01 is used where toxicity is known or suspected to be due to persistent substances. In the calculation of the acute toxicity limit, the Department has conservatively assumed that substances found in the effluent are persistent. Therefore the more stringent application factor of 0.01 was used in the calculation of the acute toxicity limitation.

The calculation of these water quality based toxicity limitations, using the methods cited above, resulted in an acute toxicity limitation of No Measurable Acute Toxicity (NMAT) effluent and a chronic toxicity limitation of an NOEC of 20% effluent (5 TU_c).

The USEPA Technical Support Document previously cited states that "Generally only the more stringent of the acute and chronic toxicity limitation needs to be included in the permit as the final limit since the more stringent limit alone will be fully protective of water quality".

Therefore, the acute and chronic toxicity limitations listed above were compared to determine which one of the two limitations is more protective (i.e. more stringent).

The Department's policy "Interim Policy on Permittees Receiving Chronic Limits" (dated October 4, 1989) outlines the procedures for comparing these limits. Those procedures involve the conversion of both the acute and chronic toxicity limitations to toxic units (TUs) to determine which is more stringent.

As a result of that comparison, it was determined that the chronic toxicity limitation of 20% effluent or 5 TU_c is the more stringent of the calculated acute and chronic water quality based toxicity limitations.

Species selection for chronic testing is based on Best Professional Judgement. Species utilized are those for which an approved USEPA methodology has been developed. Species selection for acute testing is based on N.J.A.C. 7:18-6.6 which requires that the test organism be approved under the regulations governing laboratory certification.

The "Acute Toxicity Biomonitoring Requirements" section has been updated to reflect present standard language and current mailing addresses.

The requirements for the Toxicity Reduction Evaluation are in accordance with N.J.A.C. 7:14A-2.5(a)6 and are included to ensure that immediate action is begun in the event that permit violations were to occur at some future date.

V. ANTIBACKSLIDING / ANTIDEGRADATION ANALYSIS:

In the case of Joint Meeting Sewage Treatment Plant the backsliding and antidegradation issues do not apply. Since the proposed limitations are as stringent as the limitations in the existing permit, the water quality of the receiving stream will

be maintained, therefore, there will be no backsliding and an antidegradation analysis is not necessary.

VI. PROCEDURES FOR REQUESTING MODIFICATION OF A WATER QUALITY BASED EFFLUENT LIMITATION:

In accordance with N.J.A.C. 7:14A-9.6(d), application for a modification to water quality based effluent limitations must be made prior to the close of the public comment period. Procedures for requesting a modification to a water quality based effluent limit are found in N.J.A.C. 7:9-4.9 (New Jersey Surface Water Quality Standards). For guidance and/or additional information, please contact the Bureau of Water Quality Analysis, CN-029, Trenton, New Jersey 08625, (609) 633-7020.

VII. PROCEDURES FOR REACHING A FINAL DECISION ON THE DRAFT PERMIT:

These procedures are described in the public notice of preparation of this permit. Included in the public notice are requirements for the submission of comments by a specified date, procedures for requesting a hearing and the nature of the hearing, and other procedures for participation in the final decision.

VIII. DEPE CONTACT:

Additional information concerning the permit may be obtained between the hours of 8:00 A.M. and 4:30 P.M., Monday through Friday from: Mr. John O'Connor at (609) 633-3869.

BASE/NEUTRALS

PARAMETER	LIMIT IMPOSED ON INDUSTRIAL USER	DATA AVAILABLE	DETECTABLE CONCENTRATION	WQ STANDARD	REASONABLE POTENTIAL	WQ LIMIT< 20X PERFORMANCE LIMIT	FINAL * DECISION
Acenaphthene	YES	NO	NO	NO	N/A	N/A	NL
Acenaphthylene	YES	YES	NO	YES	YES	N/A	NL
Anthracene	YES	YES	NO	YES	NO	N/A	NL
Benzidine	YES	YES	NO	YES	YES	N/A	NL
Benzo(a)Anthracene	YES	YES	NO	YES	YES	N/A	NL
Benzo(a)Pyrene	YES	YES	NO	YES	YES	N/A	NL
Benzofluoranthene	YES	YES	NO	YES	YES	N/A	NL
Benzo(ghi)Perylene	YES	YES	NO	YES	YES	N/A	NL
Benzo(k) Fluoranthene	YES	YES	NO	YES	YES	N/A	NL
Bis(2-Chloroethoxy) Methane	YES	YES	NO	NO	N/A	N/A	NL
Bis(2-Chloroethyl) Ether	YES	YES	NO	YES	YES	N/A	NL
Bis(2-Chloroisopropyl) Ether	YES	YES	NO	YES	NO	N/A	NL
Bis(2-Ethylhexyl) Phthalate	YES	YES	YES	YES	YES	YES	WQ
4-Bromophenyl Phenyl Ether	YES	YES	NO	NO	N/A	N/A	NL
Butyl Benzyl Phthalate	YES	YES	NO	YES	NO	N/A	NL
2-Chloronaphthalene	YES	YES	NO	NO	N/A	N/A	NL
4-Chlorophenyl Phenyl Ether	YES	YES	NO	NO	N/A	N/A	NL
Chrysene	YES	YES	NO	YES	YES	N/A	NL
Dibenzo(a,h) Anthracene	YES	YES	NO	YES	YES	N/A	NL
1,2 Dichlorobenzene	YES	YES	NO	YES	NO	N/A	NL
1,3 Dichlorobenzene	YES	YES	NO	YES	NO	N/A	NL
1,4 Dichlorobenzene	YES	YES	NO	YES	NO	N/A	NL
3,3'-Dichlorobenzidine	YES	YES	NO	YES	YES	N/A	NL
Diethyl Phthalate	YES	YES	NO	YES	NO	N/A	NL
Dimethylphthalate	YES	YES	NO	YES	NO	N/A	NL
Di-N-Butylphthalate	YES	YES	YES	YES	NO	NO	PF
2,4 Dinitrotoluene	YES	YES	NO	YES	NO	N/A	NL
2,6 Dinitrotoluene	YES	YES	NO	NO	N/A	N/A	NL
Di-N-Octylphthalate	YES	YES	NO	NO	N/A	N/A	NL
1,2Diphenylhydrazine-as Azobenzene	YES	NO	NO	YES	N/A	N/A	NL
Fluoranthene	YES	YES	NO	YES	NO	N/A	NL
Fluorene	YES	YES	YES	YES	NO	NO	PF
Hexachlorobenzene	YES	YES	NO	YES	YES	N/A	NL
Hexachlorobutadiene	YES	YES	NO	YES	NO	N/A	NL
Hexachlorocyclopentadiene	YES	YES	NO	YES	NO	N/A	NL
Hexachloroethane	YES	YES	NO	YES	NO	N/A	NL
Indeno(1,2,3-cd) Pyrene	YES	YES	NO	YES	YES	N/A	NL
Isophorone	YES	YES	NO	YES	NO	N/A	NL
Naphthalene	YES	YES	NO	NO	N/A	N/A	NL
Nitrobenzene	YES	YES	NO	YES	NO	N/A	NL
N-Nitrosodimethylamine	YES	YES	NO	YES	NO	N/A	NL
N-Nitrosodi-N-Propylamine	YES	YES	NO	NO	N/A	N/A	NL
N-Nitrosodi-N-Butylamine	NO	NO	NO	NO	N/A	N/A	NL
N-Nitrosodiethylamine	NO	NO	NO	NO	N/A	N/A	NL
N-Nitroso-pyrrolindine	NO	NO	NO	NO	N/A	N/A	NL
N-Nitrosodiphenylamine	YES	YES	YES	YES	NO	YES	WQ
Phenanthrene	YES	YES	NO	YES	YES	N/A	NL
Pyrene	YES	YES	NO	YES	NO	N/A	NL
1,2,4-Trichlorobenzene	YES	YES	NO	YES	NO	N/A	NL
1,2,4,5-Tetrachlorobenzene	NO	NO	NO	YES	N/A	N/A	NL
Pentachlorobenzene	NO	NO	NO	YES	N/A	N/A	NL
Polynuclear Aromatic Hydrocarbons	NO	NO	NO	NO	N/A	N/A	NL

* WQ is the water quality based limit, the PF is the performance based limit, and NL is no limit.

PESTICIDES

PARAMETER	LIMIT IMPOSED ON INDUSTRIAL USER	DATA AVAILABLE	DETECTABLE CONCENTRATION	WQ STANDARD	REASONABLE POTENTIAL	WQ LIMIT< 20X PERFORMANCE LIMIT	FINAL * DECISION
Aldrin	YES	YES	NO	YES	YES	N/A	NL
Alpha-BHC	YES	YES	NO	YES	YES	N/A	NL
Beta-BHC	YES	YES	YES	YES	NO	YES	WQ
Gamma-BHC	YES	YES	NO	YES	YES	N/A	NL
Delta-BHC	YES	YES	NO	NO	N/A	N/A	NL
Chlordane	YES	YES	NO	YES	YES	N/A	NL
4,4'-DDT	YES	YES	NO	YES	YES	N/A	NL
4,4'-DDE	YES	YES	NO	YES	YES	N/A	NL
4,4'-DDD	YES	YES	NO	YES	YES	N/A	NL
Dieldrin	YES	YES	NO	YES	YES	N/A	NL
Endosulfan, Total	NO	NO	NO	YES	N/A	N/A	NL
Alpha-Endosulfan	YES	YES	NO	YES	YES	N/A	NL
Beta-Endosulfan	YES	YES	NO	YES	YES	N/A	NL
Endosulfan-Sulfate	YES	YES	NO	YES	NO	N/A	NL
Endrin	YES	YES	NO	YES	YES	N/A	NL
Endrin Aldehyde	YES	NO	NO	YES	N/A	N/A	NL
Heptachlor	YES	YES	NO	YES	YES	N/A	NL
Heptachlor Epoxide	YES	YES	NO	YES	YES	N/A	NL
PCB-1016	YES	YES	NO	NO	N/A	N/A	NL
PCB-1242	YES	YES	NO	NO	N/A	N/A	NL
PCB-1254	YES	YES	NO	NO	N/A	N/A	NL
PCB-1221	YES	YES	NO	NO	N/A	N/A	NL
PCB-1232	YES	YES	NO	NO	N/A	N/A	NL
PCB-1248	YES	YES	NO	NO	N/A	N/A	NL
PCB-1260	YES	YES	NO	NO	N/A	N/A	NL
PCB-Total	NO	NO	NO	NO	N/A	N/A	NL
2,3,7,8Tetrachlorodibenzo-p-dioxin	YES	NO	NO	YES	N/A	N/A	NL
Toxaphene	YES	YES	NO	YES	YES	N/A	NL
Chlorpyrifos	NO	NO	NO	YES	N/A	N/A	NL
Demeton	NO	NO	NO	YES	N/A	N/A	NL
Guthion	NO	NO	NO	YES	N/A	N/A	NL
Malathion	NO	NO	NO	YES	N/A	N/A	NL
Methoxychlor	NO	NO	NO	YES	N/A	N/A	NL
Mirex	NO	NO	NO	YES	N/A	N/A	NL
Parathion	NO	NO	NO	NO	N/A	N/A	NL

METALS

PARAMETER	LIMIT IMPOSED ON INDUSTRIAL USER	DATA AVAILABLE	DETECTABLE CONCENTRATION	WQ STANDARD	REASONABLE POTENTIAL	WQ LIMIT< 20X PERFORMANCE LIMIT	FINAL * DECISION
Aluminum, Total	NO	NO	NO	NO	N/A	N/A	NL
Antimony, Total	YES	YES	NO	YES	NO	N/A	NL
Arsenic, Total	YES	YES	YES	YES	YES	YES	WQ
Barium, Total	NO	NO	NO	NO	N/A	N/A	NL
Beryllium, Total	NO	YES	YES	YES	NO	YES	WQ
Cadmium, Total Recoverable	YES	YES	YES	YES	N/A	YES	WQ
Chromium, Total Recoverable	YES	YES	YES	YES	NO	NO	PF
Cobalt	YES	NO	NO	NO	N/A	N/A	NL
Copper, Total Recoverable	YES	YES	YES	YES	YES	YES	WQ
Cyanide, Total	YES	YES	YES	YES	YES	YES	WQ
Lead, Total Recoverable	YES	YES	YES	YES	YES	YES	WQ

* WQ is the water quality based limit, PF is the performance based limit, and NL is no limit.

ACIDS

PARAMETER	LIMIT IMPOSED ON INDUSTRIAL USER	DATA AVAILABLE	DETECTABLE CONCENTRATION	WQ STANDARD	REASONABLE POTENTIAL	WQ LIMIT< 20X PERFORMANCE LIMIT	FINAL * DECISION
2,4-Dinitrophenol	YES	YES	NO	YES	NO	N/A	NL
2-Nitrophenol	YES	YES	NO	NO	N/A	N/A	NL
4-Nitrophenol	YES	YES	NO	NO	N/A	N/A	NL
Pentachlorophenol	YES	YES	NO	YES	YES	N/A	NL
Phenol	YES	YES	NO	YES	NO	N/A	NL
2,4,6-Trichlorophenol	YES	YES	NO	YES	NO	N/A	NL
2,4,5-Trichlorophenol	NO	NO	NO	YES	N/A	N/A	NL
Parachlormeta Cresol	YES	NO	NO	NO	N/A	N/A	NL

* WQ is the water quality based limit, PF is the performance based limit, and NL is no limit.

NON CONVENTIONALS

PARAMETER	LIMIT IMPOSED ON INDUSTRIAL USER	DATA AVAILABLE	DETECTABLE CONCENTRATION	WQ STANDARD	REASONABLE POTENTIAL	WQ LIMIT< 20X PERFORMANCE LIMIT	FINAL * DECISION
Chlorine Produced Oxidants	NO	YES	YES	YES	YES	YES	WQ
Ammonia (Total as N)	YES	YES	YES	NO	N/A	N/A	PF
Phosphorus (yellow)	NO	NO	NO	YES	N/A	N/A	NL
Sulfide (hydrogen sulfide)	NO	NO	NO	YES	N/A	N/A	NL

* WQ is the water quality based limit, PF is the performance based limit, and NL is no limit.

The basis for the Proposed Permit Limitations are detailed in the "Development of Effluent Limitations" section of the Fact Sheet.
The effective dates for the Interim and Final Limitations are detailed in Part III-A.

SALINE

LIMITATION DERIVATION and PERMIT SUMMARY TABLE

CONVENTIONALS

All limitations are expressed as maximums unless otherwise noted.

WATER QUALITY LIMITATION DERIVATION								PERMIT SUMMARY			
PARAMETER	CV	WATER QUALITY CRITERIA	WASTE LOAD ALLOC.	LONG TERM AVERAGE		WATER QUALITY LIMITS	WATER QUALITY BASIS	WASTEWATER DATA 05/31/91 through 04/30/92	EXISTING PERMIT LIMITATIONS	PROPOSED PERMIT LIMITATIONS INTERIM	PROPOSED PERMIT LIMITATIONS FINAL
Flow		--	--	--	MONTH AV	--	---	61.2	85	85	85
(MGD)		--	--	--	MAXIMUM	--	---	...	...	...	...
5-Day Biochem. Ox.		--	--	--	MONTH AV	--	---	5273	8519	8516	8516
Demand (kg/d)		--	--	--	WEEKLY AV	--	---	7645	11355	12774	12774
5-Day Biochem. Ox.		--	--	--	MONTH AV	--	---	25	30	30	30
Demand (mg/l)		--	--	--	WEEKLY AV	--	---	32	40(a,b,c)	45(a)	45(a)
Influent 5-Day Bio.		--	--	--	MONTH AV	--	---	MONITOR	MONITOR	MONITOR	MONITOR
Ox. Demand (mg/l)		--	--	--	WEEKLY AV	--	---	ONLY	ONLY	ONLY	ONLY
5-Day Biochem. Ox.		--	--	--	MONTH AV	--	---	87	85	85	85
Demand (min % rem)		--	--	--	FOUR HOUR	--	---	...	85	...	...
Total Suspended		--	--	--	MONTH AV	--	---	3766	8519	8516	8516
Solids (kg/d)		--	--	--	WEEKLY AV	--	---	5291	12779	12774	12774
Total Suspended		--	--	--	MONTH AV	--	---	16	30	30	30
Solids (mg/l)		--	--	--	WEEKLY AV	--	---	22	45(a)	45(a)	45(a)
Influent Total		--	--	--	MONTH AV	--	---	MONITOR	MONITOR	MONITOR	MONITOR
Susp. Sol.(mg/l)		--	--	--	WEEKLY AV	--	---	ONLY	ONLY	ONLY	ONLY
Total Suspended		--	--	--	MONTH AV	--	---	89	85	85	85
Solids (min. % rem)		--	--	--	-------	--	---	...	....	...	...

(a) A maximum concentration of 50 mg/l for BOD_5 & Suspended Solids shall not be exceeded during any (6) hour period.

(b) Maximum average for any four hour period.

(c) Maximum concentration of 45 mg/l for any (7) consecutive days.

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE

CONVENTIONALS (CONT'D)

All Limitations are Expressed as Maximums Unless Otherwise Noted.

WATER QUALITY LIMITATION DERIVATION								PERMIT SUMMARY			
PARAMETER	CV	WATER QUALITY CRITERIA	WASTE LOAD ALLOC.	LONG TERM AVERAGE		WATER QUALITY LIMITS	WATER QUALITY BASIS	WASTEWATER DATA 05/31/91 through 04/30/92	EXISTING PERMIT LIMITATIONS	PROPOSED PERMIT LIMITATIONS INTERIM	PROPOSED PERMIT LIMITATIONS FINAL
Fecal Coliform		--	--	--	MONTH AV	--	---	32	200	200	200
(Geo Mean)(#/100mL)		--	--	--	(d)	--	---	86	400	400	400
Dissolved Oxygen		--	--	--	WEEKLY	--	---	7.3	...	MONITOR	MONITOR
(minimum conc.)		--	--	--	MINIMUM	--	---	6.4	4	4	4
Oil and Grease		--	--	--	MONTH AV	--	---	4.3	10	10	10
(mg/l)		--	--	--	MAXIMUM	--	---	8.4	15	15	15
Temperature		--	--	--	MINIMUM	--	---	...	MONITOR	MONITOR	MONITOR
		--	--	--	30 DAY AV	--	---	19.8			
(°C)		--	--	--	MAXIMUM	--	---	...	ONLY	ONLY	ONLY
pH		--	--	--	MINIMUM	--	---	6.6	6	6	6
(su)		--	--	--	MAXIMUM	--	---	7.3	9	9	9

(d) 800 Fecal Coliforms per 100 ml shall not be exceeded as a geometric average during any 6 hour period. No sample may contain more than 2400 Fecal Coliforms per 100 ml.

NON-CONVENTIONALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

WATER QUALITY LIMITATION DERIVATION									PERMIT SUMMARY			
PARAMETER	CV	WATER QUALITY CRITERIA ACUTE AQUATIC	WATER QUALITY CRITERIA CHRONIC AQUATIC	WASTE LOAD ALLOC.	LONG TERM AVERAGE		WATER QUALITY LIMITS	WATER QUALITY BASIS	WASTEWATER DATA / through /	EXISTING PERMIT LIMITATIONS	PROPOSED PERMIT LIMITATIONS INTERIM	PROPOSED PERMIT LIMITATIONS FINAL
Chlorine Produced	0.6	--	--	--	--	MONTH AV	--	---	(1)	...	MONITOR	2.1 (e)
(Oxidants) (kg/d)		--	--		--	MAXIMUM	--	---	(1)	...	ONLY	5.5 (e)
Chlorine Produced	0.6	13	7.5	--	--	MONTH AV	--	---	(1)	...	MONITOR ONLY	.0074 (e)
(Oxidants)(e)(mg/l)		--	--		--	MAXIMUM	--	---	(1)	2	2	.0195 (e)

(e) The current detection limitation, using an approved test method, is 0.1 mg/l. Therefore, the permittee shall comply with the reporting level of 0.1 mg/l as a daily maximum concentration and 28.4 kg/d as a daily maximum loading until due notice from the Department. Also, the analysis for Chlorine Produced Oxidants should be analyzed by those methods available for Total Residual Chlorine.

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE

NON-CONVENTIONALS (CONT'D)

All Limitations are Expressed as Maximums Unless Otherwise Noted.

WATER QUALITY LIMITATION DERIVATION									PERMIT SUMMARY			
PARAMETER	CV	WATER QUALITY CRITERIA		WASTE LOAD ALLOC.	LONG TERM AVERAGE		WATER QUALITY		WASTEWATER DATA 06/01/91 through 05/31/92	EXISTING PERMIT LIMITATIONS	PROPOSED PERMIT LIMITATIONS	
		ACUTE AQUATIC	CHRONIC AQUATIC				LIMITS	BASIS			INTERIM	FINAL
Ammonia (Total as N) (kg/d)	0.6	--	--	--	--	MONTH AV	--	---	3407	MONITOR ONLY	MONITOR ONLY	2782
		--	--	--	--	DAILY MAX	--	---	3066			7374
Ammonia (Total as N) (mg/l)	0.6	--	--	--	--	MONTH AV	--	---	12	MONITOR ONLY	MONITOR ONLY	9.8
		--	--	--	--	DAILY MAX	--	---	10.8			25.8
Phosphorus (yellow) (g/d)	0.6	--	--	--	--	MONTH AV	--	---	(1)	...	MONITOR ONLY	MONITOR ONLY
		--	--	--	--	DAILY MAX	--	---	(1)	...		
Phosphorus (yellow) (ug/l)	0.6	--	.1	.5	.3	MONTH AV	--	---	(1)	...	MONITOR ONLY	MONITOR ONLY
		--	--	--	--	DAILY MAX	--	---	(1)	...		
Sulfide (hydrogen-sulfide) (g/d)	0.6	--	2	10	5.3	MONTH AV	--	---	(1)	...	MONITOR ONLY	MONITOR ONLY
		--	--	--	--	DAILY MAX	--	---	(1)	...		
Sulfide (hydrogen-sulfide) (ug/l)	0.6	--	--	--	--	MONTH AV	--	---	(1)	...	MONITOR ONLY	MONITOR ONLY
		--	--	--	--	DAILY MAX	--	---	(1)	...		

BIOMONITORING REQUIREMENTS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

PERMIT SUMMARY				
PARAMETER	WASTEWATER DATA 05/31/91 through 04/30/92	EXISTING PERMIT LIMITATIONS	PROPOSED PERMIT LIMITATIONS	
			INTERIM	FINAL
ACUTE BIOMONITORING (LC_{50}) *Mysidopsis bahia*	96 %	50 %	50 %	...
CHRONIC BIOMONITORING (NOEC) *Mysidopsis bahia*	23 %	MONITOR ONLY	MONITOR ONLY	20 %

mg/l: milligrams per liter (parts per million)

(1) There is no effluent data for this parameter.

(2) Discharge of this parameter is not authorized by the existing permit.

(3) To be determined.

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

BASE/NEUTRALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
			AQUATIC LIFE PROTECTION												LIMITATION		
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	BASIS (3)
Acenaphthene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Anthracene	0.6	108000	--	--	540000	347843	540000	1083342	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Acenaphthylene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Benzidine	0.6	0.1	--	--	0.5	0.3221	0.5	1.0031	Hum Hlth Cr	DAILY MAX	(1)	80	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	80	(2)	(2)	--	--	
Benzo (a) Anthracene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Benzo (a) Pyrene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Benzo fluoranthene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Benzo (ghi) Perylene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Benzo (k) Fluoranthene	0.6	0.033	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Bis (2-Chloroethoxy) Methane	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Bis (2-Chloroethyl) Ether	0.6	1.4	--	--	7	4.509	7	14.043	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Bis (2-Chloroisopropyl) Ether	0.6	170000	--	--	850000	547530	850000	1705260	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Bis (2-Ethlyhexyl) Phthalate	0.6	5.92	--	--	29.6	19.067	29.6	59.383	Hum Hlth Cr	DAILY MAX	(1)	180	(2)	(2)	16857	59.383	Hum Hlth Criter
										MONTH AV	(1)	12.8798	(2)	(2)	8402	29.6	
4-Bromophenyl Phenyl Ether	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Butyl Benzyl Phthalate	0.6	416	--	--	2080	1339.84	2080	4172.873	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2-Chloronaphthalene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	

LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

BASE/NEUTRALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
															LIMITATION		BASIS (3)
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	
4-Chlorophenyl Phenyl Ether	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Chrysene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Dibenzo (a,h) Anthracene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
1,2-Dichloro-benzene	0.6	16500	--	--	82500	53142	82500	165510	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
1,3-Dichloro-benzene	0.6	22200	--	--	111000	71501	111000	222687	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
1,4-Dichloro-benzene	0.6	3159	--	--	15795	10174	15795	31687.75	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
3,3'Dichloro-benzidine	0.6	0.0767	--	--	0.384	0.247	0.384	0.769	Hum Hlth Cr	DAILY MAX	(1)	20	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	20	(2)	(2)	--	--	
Diethyl Phthalate	0.6	111000	--	--	555000	357505	555000	1113435	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Dimethyl Phthalate	0.6	2900000	--	--	1.5×10^7	9340228	14500000	29089742	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Di-N-Butyl-phthalate	0.6	15700	--	--	78500	50566	78500	157485.8	Hum Hlth Cr	DAILY MAX	(1)	55	(2)	(2)	12490	44.0	Performanced
										MONTH AV	(1)	16.4571	(2)	(2)	6245	22.0	Based
2,4-Dinitro-toluene	0.6	9.1	--	--	45.5	29.309	45.5	91.282	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2,6-Dinitro-toluene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Di-N-Octyl Phthalate	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
1,2-Diphenylhydra-zine(as Azobenzene)	0.6	0.541	--	--	2.705	1.742	2.705	5.427	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Fluoranthene	0.6	393	--	--	1965	1265.7	1965	3942.162	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Fluorene	0.6	15100	--	--	75500	48633.6	75500	151467.2	Hum Hlth Cr	DAILY MAX	(1)	101	(2)	(2)	6200	21.84	Performanced
										MONTH AV	(1)	10.4832	(2)	(2)	3085	10.87	Based

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

BASE/NEUTRALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
															LIMITATION		BASIS (3)
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	
Hexachlorobenzene	0.6	0.000775	--	--	0.0039	0.0025	0.0039	0.0078	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Hexachlorobutadiene	0.6	50	--	--	250	161.038	250	501.547	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Hexachlorocyclopentadiene	0.6	17000	--	--	85000	54753	85000	170526	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Hexachloroethane	0.6	12.4	--	--	62	39.938	62	124.384	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Indeno (1,2,3-cd) Pyrene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Isophorone	0.6	600	--	--	3000	1932.46	3000	6018.567	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Napthalene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Nitrobenzene	0.6	1900	--	--	9500	6119.46	9500	19058.79	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
N-Nitrosodimethylamine	0.6	8.1	--	--	40.5	26.088	40.5	81.251	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
N-Nitrosodi-N-Propylamine	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
N-Nitrosodi-N-butylamine	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
N-Nitrosodiethylamine	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
N-Nitrosopyrrolidine	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
N-Nitrosodiphenylamine	0.6	16.2	--	--	81	52.176	81	162.501	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	46130	162.5	Hum Hlth Criter
										MONTH AV	(1)	9.33032	(2)	(2)	22993	81	
Phenanthrene	0.6	0.031	--	--	0.155	0.1	0.155	0.311	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
Pyrene	0.6	8970	--	--	44850	28890.2	44850	89977.58	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	

LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

BASE/NEUTRALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
			AQUATIC LIFE PROTECTION												LIMITATION		
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	BASIS (3)
1,2,4-Trichlorobenzene	0.6	113	--	--	565	363.947	565	1133.497	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
1,2,4,5-Tetrachlorobenzene	0.6	3.25	--	--	16.25	10.467	16.25	32.601	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Pentachlorobenzene	0.6	4.21	--	--	21.05	13.559	21.05	42.23	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Polynuclear Arom. Hydrocarbons (PAHs)			--	--						DAILY MAX	(1)	--	(2)	(2)	--	--	
										MONTH AV	(1)	--	(2)	(2)	--	--	

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE
SALINE

PESTICIDES

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
			AQUATIC LIFE PROTECTION												LIMITATION		
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	BASIS (3)
Aldrin	0.6	0.000144	1.3	--	0.00072	0.00046	0.00072	0.00144	Hum Hlth Cr	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Alpha-BHC	0.6	0.0131	--	--	0.066	0.042	0.066	0.131	Hum Hlth Cr	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Beta-BHC	0.6	0.46	--	--	2.3	1.482	2.3	4.614	Hum Hlth Cr	DAILY MAX	(1)	0.06	(2)	(2)	1306	4.6	HUMAN HEALTH
										MONTH AV	(1)	0.05091	(2)	(2)	653	2.3	
Gamma-BHC	0.6	0.0625	0.16	0.004	0.02	0.011	0.016	0.033	Chronic Cri	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Delta-BHC	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Chlordane	0.6	0.000283	0.09	0.004	0.00142	0.00091	0.00142	0.00284	Hum Hlth Cr	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
4,4'-DDT	0.6	0.000591	0.13	0.001	0.00296	0.0019	0.00296	0.00593	Hum Hlth Cr	DAILY MAX	(1)	0.1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)	--	--	
4,4'-DDE	0.6	0.000591	--	--	0.00296	0.0019	0.00296	0.00593	Hum Hlth Cr	DAILY MAX	(1)	0.1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)	--	--	
4,4'-DDD	0.6	0.000837	--	--	0.00418	0.0027	0.00418	0.0084	Hum Hlth Cr	DAILY MAX	(1)	0.1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)	--	--	
Dieldrin	0.6	0.000144	0.71	0.0019	0.00072	0.00046	0.00072	0.00144	Hum Hlth Cr	DAILY MAX	(1)	0.1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)	--	--	
Endosulfan, Total	0.6	1.99	0.034	0.0087	0.17	0.016	0.025	0.051	Acute Crit	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Alpha-Endosulfan	0.6	--	0.034	0.0087	0.17	0.016	0.025	0.051	Acute Crit	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Beta-Endosulfan	0.6	--	0.034	0.0087	0.17	0.016	0.025	0.051	Acute Crit	DAILY MAX	(1)	0.1	(2)	(2)	—	—	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)			
Endosulfan Sulfate	0.6	2	--	--	10	6.442	10	20.062	Hum Hlth Cr	DAILY MAX	(1)	0.1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)	--	--	
Endrin	0.6	0.678	0.037	0.0023	0.012	0.006	0.009	0.019	Chronic Cri	DAILY MAX	(1)	0.1	(2)	(2)	—	—	MONITOR ONLY
										MONTH AV	(1)	0.1	(2)	(2)			
Endrin Aldehyde	0.6	0.81	--	--	4.05	2.609	4.05	8.125	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE
SALINE

PESTICIDES

All Limitations are Expressed as Maximums Unless Otherwise Noted.

PARAMETER	CV	WATER QUALITY CRITERIA: HUMAN HEALTH PROT. µg/L	WATER QUALITY CRITERIA: AQUATIC LIFE PROTECTION: Acute µg/L	WATER QUALITY CRITERIA: AQUATIC LIFE PROTECTION: Chronic µg/L	WASTE LOAD ALLOC. µg/L	LONG TERM AVG. µg/L	LIMITS: Monthly Average µg/L	LIMITS: Daily Maximum µg/L	BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91: Load g/day	EFFLUENT DATA: Concentration µg/L	EXISTING PERMIT LIMITATIONS: Load g/day	EXISTING PERMIT LIMITATIONS: Concentration µg/L	DRAFT PERMIT LIMITATIONS: LIMITATION: Load g/day	DRAFT PERMIT LIMITATIONS: LIMITATION: Concentration µg/L	BASIS (3)
Heptachlor	0.6	0.000214	0.053	0.0036	0.00107	0.00069	0.00107	0.00215	Hum Hlth Cr	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
Heptachlor Epoxide	0.6	0.000106	0.053	0.0036	0.001	0.0006	0.001	0.001	Hum Hlth Cr	DAILY MAX	(1)	0.05	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.05	(2)	(2)	--	--	
PCB-1016	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
PCB-1242	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
PCB-1254	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	1	(2)	(2)	—	—	MONITOR ONLY
										MONTH AV	(1)	1	(2)	(2)			
PCB-1221	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
PCB-1232	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
PCB-1248	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	0.5	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	0.5	(2)	(2)	--	--	
PCB-1260	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	1	(2)	(2)	—	—	MONITOR ONLY
										MONTH AV	(1)	1	(2)	(2)			
PCB-Total	0.6	0.000247	--	0.03	0.00124	0.0008	0.00124	0.00248	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Toxaphene	0.6	0.000747	0.21	0.005	0.00374	0.00241	0.00374	0.00749	Hum Hlth Cr	DAILY MAX	(1)	1	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	1	(2)	(2)	--	--	
2,3,7,8-Tetrachloro-dibenzo-p-dioxin	0.6	1.4×10^{-8}	--	--	7×10^{-8}	5×10^{-8}	7×10^{-8}	1.4×10^{-7}	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Chlorpyrifos	0.6	--	0.011	0.0056	0.017	0.005	0.008	0.017	Acute Crit	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Demeton	0.6	--	--	0.1	0.5	0.264	0.409	0.821	Chronic Cri	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Guthion	0.6	--	--	0.01	0.05	0.026	0.041	0.082	Chronic Cri	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Malathion	0.6	--	--	0.1	0.5	0.264	0.409	0.821	Chronic Cri	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	

LIMITATION DERIVATION and PERMIT SUMMARY TABLE
SALINE

PESTICIDES

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)								
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
															LIMITATION		BASIS (3)
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concen-tration µg/L	Load g/day	Concen-tration µg/L	Load g/day	Concen-tration µg/L	
Methoxychlor	0.6	--	--	0.03	0.15	0.079	0.123	0.246	Chronic Cri	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Mirex	0.6	--	--	0.001	0.005	0.003	0.004	0.008	Chronic Cri	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Parathion	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	

LIMITATION DERIVATION and PERMIT SUMMARY TABLE
SALINE

METALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)								
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
															LIMITATION		BASIS (3)
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concen-tration µg/L	Load g/day	Concen-tration µg/L	Load g/day	Concen-tration µg/L	
Aluminum, Total Recoverable	0.6	--	--	--	---	--	---	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Antimony, Total	0.6	4300	--	---	21500	13849	21500	43133.1	Hum Hlth Cr	DAILY MAX	(1)	50	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	50	(2)	(2)	--	--	
Arsenic, Total Recoverable	0.6	0.136	69	36	0.7	0.4	0.7	1.4	Hum Hlth Cr	DAILY MAX	(1)	15	(2)	(2)	397	1.4	Hum Hlth Criter
										MONTH AV	(1)	9.9948	(2)	(2)	198	0.7	

958870558

LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE-METALS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
			AQUATIC LIFE PROTECTION												LIMITATION		
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	BASIS (3)
Barium, Total	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Beryllium, Total	0.6	0.132	--	--	0.7	0.4	0.7	1.3	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	369	1.3	Hum Hlth Criter
										MONTH AV	(1)	9.43874	(2)	(2)	198	0.7	
Cadmium, Total Recoverable	0.6	169	43	9.3	64.5	20.7	32.2	64.5	Acute Crit	DAILY MAX	(1)	10	(2)	(2)	18310	64.5	Acute Criteria
										MONTH AV	(1)	3.43058	(2)	(2)	9140	32.2	
Chromium, Total Recoverable	0.6	3230	1100	50	250	131.9	204.7	410.7	Chronic Cri	DAILY MAX	(1)	22	(2)	(2)	4542	16.0	Performanced
										MONTH AV	(1)	3.12450	(2)	(2)	2271	8.0	Based
Cobalt	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Copper, Total Recoverable	0.6	--	2.9	2.9	4.4	1.4	2.2	4.4	Acute Crit	DAILY MAX	(1)	34	(2)	(2)	1249	4.4	Acute Criteria
										MONTH AV	(1)	18.3483	(2)	(2)	624	2.2	
Cyanide, Total	0.6	220000	1	1	1.5	0.5	0.7	1.5	Acute Crit	DAILY MAX	(1)	93	(2)	(2)	425	1.5	Acute Criteria
										MONTH AV	(1)	26.3761	(2)	(2)	198	0.7	
Lead, Total Recoverable	0.6	--	220	8.5	42.5	22.4	34.8	69.8	Chronic Cri	DAILY MAX	(1)	66	(2)	(2)	19814	69.8	Chronic Criter.
										MONTH AV	(1)	26.8041	(2)	(2)	9878	34.8	
Manganese	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Mercury, Total Recoverable	0.6	0.146	2.1	0.025	0.125	0.066	0.102	0.205	Chronic Cri	DAILY MAX	(1)	4	(2)	(2)	58.19	0.205	Chronic Criter.
										MONTH AV	(1)	0.25958	(2)	(2)	28.96	0.102	
Molydenum	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Nickel, Total Recoverable	0.6	3900	75	8.3	41.5	21.9	34	68.2	Chronic Cri	DAILY MAX	(1)	59	(2)	(2)	19360	68.2	Chronic Criter.
										MONTH AV	(1)	15.9915	(2)	(2)	9651	34	
Selenium, Total Recoverable	0.6	6800	300	71	355	144.5	224.3	450	Acute Crit	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Silver, Total Recoverable	0.6	65000	2.3	--	3.4	1.1	1.7	3.5	Acute Crit	DAILY MAX	(1)	17	(2)	(2)	993	3.5	Acute Criteria
										MONTH AV	(1)	4.96646	(2)	(2)	482	1.7	
Thallium, Total	0.6	6.22	--	--	31.1	20	31.1	62.4	Hum Hlth Cr	DAILY MAX	(1)	50	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Zinc, Total Recoverable	0.6	--	95	86	142.5	45.8	71	142.5	Acute Crit	DAILY MAX	(1)	210	(2)	(2)	40452	142.5	Acute Criteria
										MONTH AV	(1)	45.0646	(2)	(2)	20155	71	

958870559

LIMITATION DERIVATION and PERMIT SUMMARY TABLE
SALINE

VOLATILES

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)								
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
															LIMITATION		BASIS (3)
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	
Acrolein	0.6	780	--	--	3900	2512.2	3900	7824.1	Hum Hlth Cr	DAILY MAX	(1)	12500	(2)	(2)	102195	360.0	Performanced
										MONTH AV	(1)	170.997	(2)	(2)	51097	180.0	Based
Acrylonitrile	0.6	0.665	--	--	3.3	2.1	3.3	6.7	Hum Hlth Cr	DAILY MAX	(1)	12500	(2)	(2)	1901	6.7	Hum Hlth Criter
										MONTH AV	(1)	170.997	(2)	(2)	936	3.3	
Benzene	0.6	71	--	--	355	228.7	355	712.2	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Bromoform	0.6	360	--	--	1800	1159.5	1800	3611.1	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Carbon Tetrachloride	0.6	6.31	--	--	31.5	20.3	31.5	63.3	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	17969	63.3	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	8942	31.5	
Chlorobenzene	0.6	21000	--	--	105000	67636.1	105000	210649.9	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Chlorodibromo-methane	0.6	34	--	--	170	109.5	170	341.1	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	96829	341.1	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	48258	170	
Chloroethane	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	1250	(2)	(2)	14194	50.0	Performanced
										MONTH AV	(1)	16.2065	(2)	(2)	7097	25.0	Based
2-Chloroethyl-vinyl Ether	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	1250	(2)	(2)	14194	50.0	Performanced
										MONTH AV	(1)	16.2065	(2)	(2)	7097	25.0	Based
Chloroform	0.6	470	--	--	2350	1513.8	2350	4714.5	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	8516	30.0	Performanced
										MONTH AV	(1)	5.28109	(2)	(2)	4258	15.0	Based
Dichlorobromo-methane	0.6	22	--	--	110	70.9	110	220.7	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	62651	220.7	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	31226	110	
1,1-Dichloroethane	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
1,2-Dichloroethane	0.6	99	--	--	495	318.9	495	993.1	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.25237	(2)	(2)	4542	16.0	Based
1,1-Dichloro-ethene	0.6	3.2	--	--	16	10.3	16	32.1	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9112	32.1	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16	
1,2-Dichlor-propene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Cis 1,3-Dichlor-propene	0.6	1700	--	--	8500	5475.3	8500	17052.6	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based

958870560

LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

VOLATILES

All Limitations are Expressed as Maximums Unless Otherwise Noted.

(WATER QUALITY LIMITATION DERIVATION)										(PERMIT SUMMARY)							
		WATER QUALITY CRITERIA			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS		DRAFT PERMIT LIMITATIONS		
			AQUATIC LIFE PROTECTION												LIMITATION		
PARAMETER	CV	HUMAN HEALTH PROT. µg/L	Acute µg/L	Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	BASIS (3)
trans-1,3-Dichloropropene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Ethylbenzene	0.6	27900	--	--	139500	89859.4	139500	279863.4	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Bromomethane	0.6	4000	--	--	20000	12883.1	20000	40123.8	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Chloromethane	0.6	470	--	--	2350	1513.8	2350	4714.5	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Methylene Chloride	0.6	1600	--	--	8000	5153.2	8000	16049.5	Hum Hlth Cr	DAILY MAX	(1)	70	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	10.4233	(2)	(2)	4542	16.0	Based
1,1,2,2-Tetrachloroethane	0.6	11	--	--	55	35.4	55	110.3	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	31311	110.3	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	15613	55	
Tetrachloroethene	0.6	4.29	--	--	21.5	13.8	21.5	43	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	12206	43	Hum Hlth Criter
										MONTH AV	(1)	6.41044	(2)	(2)	6103	21.5	
Toluene	0.6	200000	--	--	1000000	644153	1000000	2006189.2	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
1,2-Trans-Dichloroethene	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
1,1,1-Trichloroethane	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
1,1,2-Trichloroethane	0.6	42	--	--	210	135.3	210	421.3	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	119596	421.3	Hum Hlth Criter
										MONTH AV	(1)	8.10328	(2)	(2)	59613	210	
Trichloroethene	0.6	81	--	--	405	260.9	405	812.5	Hum Hlth Cr	DAILY MAX	(1)	625	(2)	(2)	9084	32.0	Performanced
										MONTH AV	(1)	8.10328	(2)	(2)	4542	16.0	Based
Vinyl Chloride	0.6	525	--	--	2625	1690.9	2625	5266.2	Hum Hlth Cr	DAILY MAX	(1)	1250	(2)	(2)	14194	50.0	Performanced
										MONTH AV	(1)	16.2065	(2)	(2)	7097	25.0	Based

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LIMITATION DERIVATION and PERMIT SUMMARY TABLE

SALINE

ACIDS

All Limitations are Expressed as Maximums Unless Otherwise Noted.

PARAMETER	CV	WATER QUALITY CRITERIA (WATER QUALITY LIMITATION DERIVATION)			WASTE LOAD ALLOC.	LONG TERM AVG.	LIMITS		BASIS		EFFLUENT DATA 08 / 30 / 89 through 01 / 31 / 91		EXISTING PERMIT LIMITATIONS (PERMIT SUMMARY)		DRAFT PERMIT LIMITATIONS		BASIS (3)
		HUMAN HEALTH PROT. µg/L	AQUATIC LIFE PROTECTION Acute µg/L	AQUATIC LIFE PROTECTION Chronic µg/L	µg/L	µg/L	Monthly Average µg/L	Daily Maximum µg/L			Load g/day	Concentration µg/L	Load g/day	Concentration µg/L	LIMITATION Load g/day	LIMITATION Concentration µg/L	
2-Chlorophenol	0.6	402	--	--	2010	1294.7	2010	4032.4	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
4-Chloro-3-methyl-phenol	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2,4-Dichlorophenol	0.6	794	--	--	3970	2557.3	3970	7964.6	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2,4-Dimethylphenol	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	5564	19.8	Performanced
										MONTH AV	(1)	8.86568	(2)	(2)	2776	9.78	Based
4,6-Dinitro-O-Cresol	0.6	765	--	--	3825	2463.9	3825	7673.7	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	1	(2)	(2)	--	--	
2,4-Dinitrophenol	0.6	14000	--	--	70000	45090.8	70000	140433.2	Hum Hlth Cr	DAILY MAX	(1)	50	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	50	(2)	(2)	--	--	
2-Nitrophenol	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
4-Nitrophenol	0.6	--	--	--	--	--	--	--	NO CRITERIA	DAILY MAX	(1)	50	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	50	(2)	(2)	--	--	
Pentachlorophenol	0.6	8.2	13	7.9	19.5	6.3	9.7	19.5	Acute Crit	DAILY MAX	(1)	50	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	50	(2)	(2)	--	--	
Phenol	0.6	4.6×10^{6}	--	--	2.3×10^{7}	1.5×10^{7}	2.3×10^{7}	4.6×10^{7}	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2,4,6-Trichloro-phenol	0.6	6.53	--	--	32.7	21	32.7	65.5	Hum Hlth Cr	DAILY MAX	(1)	10	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	10	(2)	(2)	--	--	
2,4,5-Trichloro-phenol	0.6	9790	--	--	48950	31531.3	48950	98203	Hum Hlth Cr	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	
Parachlorometa cresol	0.6	--	--	--	----	-----	-----	-----	NO CRITERIA	DAILY MAX	(1)	--	(2)	(2)	--	--	MONITOR ONLY
										MONTH AV	(1)	--	(2)	(2)	--	--	

mg/L: milligrams per liter (parts per million) µg/L: micrograms per liter (parts per billion)

(1) There is no effluent data for this parameter.
(2) Discharge of this parameter is not authorized by the existing permit.
(3) See pages 7 through 16 of the Fact Sheet for a detailed discussion of these parameters.

958870562

CALCULATION OF LONG TERM AVERAGE

$$LTA = WLA \cdot e^{[(0.5 \cdot \sigma_n^2) - (z \sigma_n)]}$$

$$\sigma_n^2 = \ln [(CV^2/n) + 1]$$

n = 1 (acute criteria)

n = 4 (chronic criteria)

z = 2.326 (99% probability)

CALCULATION OF PERMIT LIMITS

$$\text{Permit Limit} = LTA \cdot e^{[(z \sigma_n) - (0.5 \sigma_n^2)]}$$

$$\sigma_n^2 = \ln [(CV^2/n) + 1]$$

n = number of samples per permit limit averaging period

z = 2.326 for daily maximum limit

z = 1.645 for monthly average limit

State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Wastewater Facilities Regulation Element
CN 029
Trenton, NJ 08625-0029

Scott A. Weiner
Commissioner

Dennis Hart
Administrator

Certified Mail - Return Receipt Requested

Mr. Michael J. Brinker, Executive Director
Joint Meeting of Essex and Union Counties
500 South First Street
Elizabeth, New Jersey 07202

MAR 10 1992

Re: Request for Information NJPDES/DSW No.NJ0024741

Dear Mr. Brinker:

As you are aware, the New Jersey Water Pollution Control Act, (N.J.S.A. 58:10A-7b(3)) directs the Department to include in NJPDES permits issued to POTW's with an approved pretreatment program effluent limits for all pollutants listed under the United States Environmental Protection Agency's Categorical Pretreatment Standards, adopted pursuant to 33 U.S.C., Section 1317, and such other pollutants for which effluent limits have been established for a permittee discharging into said treatment works. The Act further allows the Department to exclude those pollutants identified above if the POTW demonstrates to the Department that the pollutant is not discharged above detectable levels by the POTW.

The Department is currently evaluating the need for toxics limitations for your facility and is therefore requesting that you submit a current list of all categorical standards appropriate to your industrial users, a copy of the local limitations currently contained in your rules and regulations as well as a listing of any additional pollutants for which your facility has developed limitations for indirect user permits based upon best professional judgement or any other basis.

Additionally, your submission should clearly identify and include a rationale with supporting information, for those pollutant parameters that you feel should be excluded from limitation, because you can demonstrate that they are not discharged above detectable levels from your facility. The supporting information should include a comparison of the detection levels used for any chemical specific analyses with the method detection levels listed at 40CFR 136 for the most sensitive appropriate methodology for each parameter.

It is requested that this information be submitted within twenty (20) days of receipt of this letter.

If you have any questions, please contact Nancy Jones of my staff at (609) 633-3869.

Very truly yours,

Jeffrey Reading

Jeffrey Reading, Chief
Bureau of Municipal Discharge Permits
Wastewater Facilities Regulation Program

cc: Pete Lynch, Metro Region
James Murphy, BPR

Joint Meeting of Essex & Union Counties
500 South First Street = Elizabeth = NJ 07202
1-201-353-1313 = FAX: 1-201-353-7925

CM RRR
P 621 387 757

March 26, 1992

RECEIVED
MAR 31 10 53 AM '92
BUREAU OF MUNICIPAL DISCHARGE PERMITS

Mr. Jeffrey Reading
State of New Jersey
Department of Environmental Protection and Energy
Environmental Regulation
Wastewater Facilities Regulation Element
Bureau of Municipal Discharge Permits
CN 029
Trenton, N.J. 08625-0029

Re: NJDEPE's Request for Information

Dear Mr. Reading:

We are in receipt of your letter dated March 10, 1992 requesting information on categorical industrial users, local limitations, and supporting documentation should we desire exclusions for parameters that are not discharged above detectable levels from the treatment plant.

Attached to this letter are the following items:

1) Form AR-4 from the 1992 Annual Pretreatment Report. This form lists the categories in which the Joint Meeting has categorically regulated industrial users. It is our understanding that the Pretreatment element will provide your staff with the regulated parameters for each of the categorical classifications.

2) Data printouts (by month) for the calender year 1991 of the Chemical Specific Parameters for the JMEUC effluent.

Due to the voluminous nature of the printouts, we have included only the data for 1991. Should you require any further back data, please contact us as the data is available.

<u>Parameters To Be Excluded from Limitations</u>

The Joint Meeting is requesting that the following parameters be excluded from requiring effluent limitations due to the data indicating that virtually all samples resulted in "non-detectable"

958870566

Joint Meeting of Essex & Union Counties
500 South First Street ▫ Elizabeth ▫ NJ 07202
1-201-353-1313 ▫ FAX: 1-201-353-7925

Parameter	Detection Limit (ug/l)
Arsenic	10
Mercury	2
Antimony	50
Beryllium	10
Selenium	10
Thallium	50
Phenanthrene	10
Pyrene	10
Fluorene	10
Trichlorofluoromethane	10
Methylene Chloride	*
Total Volatiles	5-10
Total Base Neutrals	10
Total Acids	10
Total Pesticides	0.05-0.10

* Please see the information below pertaining to methylene chloride exclusion.

The detection limits for the "Total" organics segments are typical of the majority of the compounds found within that segment. Attached is a copy of the January 1992 report for your perusal of the detection limits.

Please note that we have included Total Volatiles on this list, since the only volatile that has shown up has been methylene chloride (in very minor concentrations). Therefore, should NJDEPE feel the need to monitor volatile organics, it is requested that it be limited to methylene chloride.

In fact, we request that the NJDEPE consider whether there is even a need to work up limits for methylene chloride as many of the samples were either non-detectable, present in "detected but not quantified" concentrations (i.e. below detectable limits), or present in quantities in trace concentrations (very close to the detectable limits).

Should you have any questions or require any further information regarding this matter, please contact Cathy Pullizzi of my staff.

Sincerely,

Michael J. Brinker, Jr.
Executive Director

cc: Cathy Pullizzi, Pretreatment Coordinator
Raymond Papperman, Esq.

958870567

1A-PMW

NYTEST ENVIRONMENTAL INC.

VOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER
CONC. LEVEL: LOW
ANALYSIS DATE: 1/13/92

SAMPLE ID: 7616
LAB ID: 1090601
DIL FACTOR: 1.00
% MOISTURE: NA

CMPD #	CAS Number	VOLATILE COMPOUNDS	UG/L	
1	74-87-3	Chloromethane	10.0 U.	
2	74-83-9	Bromomethane	10.0 U.	
3	75-01-4	Vinyl Chloride	10.0 U.	NME
4	75-00-3	Chloroethane	10.0 U.	blank
5	75-09-2	Methylene Chloride	1.0 JB	10 - 1.0 = 0
6	67-64-1	2-Propanone	7.0 JB	7-22 = 0
7	75-15-0	Carbon disulfide	5.0 U.	
8	75-35-4	1,1-Dichloroethene	5.0 U.	
9	75-34-3	1,1-Dichloroethane	5.0 U.	
10	540-59-0	1,2-Dichloroethene (trans)	5.0 U.	
11	67-66-3	Chloroform	2.0 J.	
12	107-06-2	1,2-Dichloroethane	5.0 U.	
13	78-93-3	2-Butanone	10.0 U.	
14	71-55-6	1,1,1-Trichloroethane	5.0 U.	
15	56-23-5	Carbon Tetrachloride	5.0 U.	
16	108-05-4	Vinyl Acetate	10.0 U.	
17	75-27-4	Bromodichloromethane	5.0 U.	
18	78-87-5	1,2-Dichloropropane	5.0 U.	
19	10061-01-5	cis-1,3-Dichloropropene	5.0 U.	
20	79-01-6	Trichloroethene	5.0 U.	
21	124-48-1	Dibromochloromethane	5.0 U.	
22	79-00-5	1,1,2-Trichloroethane	5.0 U.	5.0
23	71-43-2	Benzene	5.0 U.	
24	10061-02-6	Trans-1,3-Dichloropropene	5.0 U.	
25	75-25-2	Bromoform	5.0 U.	
26	108-10-1	4-Methyl-2-Pentanone	10.0 U.	
27	591-78-6	2-Hexanone	10.0 U.	
28	127-18-4	Tetrachloroethene	5.0 U.	
29	79-34-5	1,1,2,2-Tetrachloroethane	5.0 U.	
30	108-88-3	Toluene	5.0 U.	For Total
31	108-90-7	Chlorobenzene	5.0 U.	0.5 ug/L
32	100-41-4	Ethylbenzene	5.0 U.	
33	100-42-5	Styrene	5.0 U.	
34	1330-20-7	Xylene (total)	5.0 U.	
35	107-02-8	Acrolein	100.0 U.	
36	107-13-1	Acrylonitrile	100.0 U.	
37	110-75-8	2-Chloroethylvinylether	10.0 U.	
38		Dichlorodifluoromethane	10.0 U.	
39		Dichlorobenzene (total)	30.0 U.	
40		Trichlorofluoromethane	10.0 U.	
41				

1B-PMW

NYTEST ENVIRONMENTAL INC.

SEMIVOLATILE ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX: WATER
CONC. LEVEL: LOW
EXTRACTION DATE: 1/6/92
ANALYSIS DATE: 1/23/92

SAMPLE ID: 7616
LAB ID: 1090601
DIL FACTOR: 1.00
% MOISTURE: NA

CMPD #	CAS Number	BASE NEUTRAL COMPOUNDS	UG/L
1	111-44-4	bis(2-Chloroethyl)ether	10.0 U.
2	541-73-1	1,3-Dichlorobenzene	10.0 U.
3	106-46-7	1,4-Dichlorobenzene	10.0 U.
4	95-50-1	1,2-Dichlorobenzene	10.0 U.
5	108-60-1	bis(2-chloroisopropyl)ether	10.0 U.
6	621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U.
7	67-72-1	Hexachloroethane	10.0 U.
8	98-95-3	Nitrobenzene	10.0 U.
9	78-59-1	Isophorone	10.0 U.
10	111-91-1	bis(2-chloroethoxy)Methane	10.0 U.
11	120-82-1	1,2,4-Trichlorobenzene	10.0 U.
12	106-47-8	4-Chloroaniline	10.0 U.
13	87-68-3	Hexachlorobutadiene	10.0 U.
14	91-57-6	2-Methylnaphthalene	10.0 U.
15	77-47-4	Hexachlorocyclopentadiene	10.0 U.
16	91-58-7	2-Chloronaphthalene	10.0 U.
17	88-74-4	2-Nitroaniline	50.0 U.
18	131-11-3	Dimethyl Phthalate	10.0 U.
19	99-09-2	3-Nitroaniline	50.0 U.
20	132-64-9	Dibenzofuran	10.0 U.
21	121-14-2	2,4-Dinitrotoluene	10.0 U.
22	606-20-2	2,6-Dinitrotoluene	10.0 U.
23	84-66-2	Diethylphthalate	10.0 U.
24	7005-72-3	4-Chlorophenyl-phenylether	10.0 U.
25	100-01-6	4-Nitroaniline	50.0 U.
26	86-30-6	N-Nitrosodiphenylamine	10.0 U.
27	101-55-3	4-Bromophenyl-phenylether	10.0 U.
28	118-74-1	Hexachlorobenzene	10.0 U.
29	84-74-2	Di-n-Butylphthalate	10.0 U.
30	85-68-7	Butylbenzylphthalate	10.0 U.
31	91-94-1	3,3'-Dichlorobenzidine	20.0 U.
32	117-81-7	bis(2-Ethylhexyl)Phthalate	1.0 J.
33	117-84-0	Di-n-Octyl Phthalate	10.0 U.
34	62-75-9	N-Nitrosodimethylamine	10.0 U.
35	62-53-3	Aniline	10.0 U.
36	92-87-5	Benzidine	80.0 U.
37		Dioxin (Screen)	ND
38		1,2-Diphenylhydrazine	10.0 U.
39			
40			
41			

CMPD #	CAS Number	BASE NEUTRAL/PAH COMPOUNDS	UG/L
42	91-20-3	Naphthalene	10.0 U.
43	208-96-8	Acenaphthylene	10.0 U.
44	83-32-9	Acenaphthene	10.0 U.
45	86-73-7	Fluorene	10.0 U.
46	85-01-8	Phenanthrene	10.0 U.
47	120-12-7	Anthracene	10.0 U.
48	206-44-0	Fluoranthene	10.0 U.
49	129-00-0	Pyrene	10.0 U.
50	56-55-3	Benzo(a)Anthracene	10.0 U.
51	218-01-9	Chrysene	10.0 U.
52	205-99-2	Benzo(b)Fluoranthene	10.0 U.
53	207-08-9	Benzo(k)Fluoranthene	10.0 U.
54	50-32-8	Benzo(a)Pyrene	10.0 U.
55	193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U.
56	53-70-3	Dibenz(a,h)Anthracene	10.0 U.
57	191-24-2	Benzo(g,h,i)Perylene	10.0 U.
58			
59			
60			
		ACID COMPOUNDS	
61	108-95-2	Phenol	10.0 U.
62	95-57-8	2-Chlorophenol	10.0 U.
63	100-51-6	Benzyl Alcohol	10.0 U.
64	95-48-7	2-Methylphenol	10.0 U.
65	106-44-5	4-Methylphenol	10.0 U.
66	88-75-5	2-Nitrophenol	10.0 U.
67	105-67-9	2,4-Dimethylphenol	10.0 U.
68	65-85-0	Benzoic Acid	3.0 J.
69	120-83-2	2,4-Dichlorophenol	10.0 U.
70	59-50-7	4-Chloro-3-Methylphenol	10.0 U.
71	88-06-2	2,4,6-Trichlorophenol	10.0 U.
72	95-95-4	2,4,5-Trichlorophenol	50.0 U.
73	51-28-5	2,4-Dinitrophenol	50.0 U.
74	100-02-7	4-Nitrophenol	50.0 U.
75	534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U.
76	87-86-5	Pentachlorophenol	50.0 U.
77			
78			
79			
80			

Total BN = <80

Total Acid = 1.5

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00013

1 D-T

NYTEST ENVIRONMENTAL INC.

TCL PESTICIDE/PCB ORGANICS ANALYSIS DATA SHEET

SAMPLE MATRIX:	WATER	SAMPLE ID:	7616
CONC. LEVEL:	LOW	LAB SAMPLE ID:	1090601
EXTRACTION DATE:	1/7/92	DIL FACTOR:	1.00
ANALYSIS DATE:	1/29/92	% MOISTURE:	NA

CMPD #	CAS Number	PESTICIDE/PCB COMPOUND	UG/L
1	319-84-6	Alpha-BHC	0.050 U.
2	319-85-7	Beta-BHC	0.050 U.
3	319-86-8	Delta-BHC	0.050 U.
4	58-89-9	Gamma-BHC(Lindane)	0.050 U.
5	76-44-8	Heptachlor	0.050 U.
6	309-00-2	Aldrin	0.050 U.
7	1024-57-3	Heptachlor Epoxide	0.050 U.
8	959-98-8	Endosulfan I	0.050 U.
9	60-57-1	Dieldrin	0.100 U.
10	72-55-9	4,4'-DDE	0.100 U.
11	70-20-8	Endrin	0.100 U.
12	33213-65-9	Endosulfan II	0.100 U.
13	72-54-8	4,4-DDD	0.100 U.
14	1031-07-8	Endosulfan Sulfate	0.100 U.
15	50-29-3	4,4'-DDT	0.100 U.
16	53494-70-5	Endrin Ketone	0.100 U.
17	72-43-5	Methoxychlor	0.500 U.
18	57-74-9	Chlordane	0.500 U.
19	8001-35-2	Toxaphene	1.000 U.
20	12674-11-2	Aroclor-1016	NA
21	11104-28-2	Aroclor-1221	NA
22	11141-16-5	Aroclor-1232	NA
23	53469-21-9	Aroclor-1242	NA
24	12672-29-6	Aroclor-1248	NA
25	11097-69-1	Aroclor-1254	NA
26	11096-82-5	Aroclor-1260	NA

Total Pest = <1.0

40 CFR 414, OCPSF Pollutants

Pollutant	Sample Type	Test Results (Dec)	(Jan)	(Feb)	Federal Limits Daily / Mtly Max / Avg	
Acenaphthene	C				47/19	*
Benzene	G				134/57	
Carbon Tetrachloride	G				380/142	
Chlorobenzene	G				380/142	
1,2,4-Trichlorobenzene	C				794/196	
Hexachlorobenzene	C				794/196	
1,2-Dichloroethane	G				574/180	
1,1,1-Trichloroethane	G				59/22	
Hexachloroethane	C				794/196	
1,1-Dichloroethane	G				59/22	
1,1,2-Trichloroethane	G				127/32	
Chloroethane	G				295/110	
Chloroform	G				325/111	
1,2-Dichlorobenzene	G				794/196	
1,3-Dichlorobenzene	G				380/142	
1,4-Dichlorobenzene	G				380/142	
1,1-Dichloroethylene	G				60/22	
1,2-Trans-dichloroethylene	G				66/25	
1,2-Dichloropropane	G				794/196	
1,3-Dichloropropylene	G				794/196	
2,4-Dimethylphenol	C				47/19	*
Ethylbenzene	G				380/142	
Fluoranthene	C				54/22	*
Methylene Chloride	G				170/36	
Methyl Chloride	G				295/110	
Hexachlorobutadiene	C				380/142	
Naphthalene	C				47/19	*
Nitrobenzene	C				6,402/2,237	
2-Nitrophenol	C				231/65	
4-Nitrophenol	C				576/162	
4,6-Dinitro-o-cresol	C				277/78	
Phenol	C				47/19	*
Bis(2-ethylhexyl) phthalate	C				258/95	*
Di-n-butyl phthalate	C				43/20	*
Diethyl phthalate	C				113/46	*
Dimethyl phthalate	C				47/19	*
Anthracene	C				47/19	*
Fluorene	C				47/19	*
Phenanthrene	C				47/19	*
Pyrene	C				48/20	*
Tetrachloroethylene	G				164/52	
Toluene	G				74/28	
Trichloroethylene	G				69/26	
Vinyl Chloride	G				172/97	
Total Cyanide	G				1,200/420	
Total Lead	C				690/320	
Total Zinc	C				2,610/1,050	
pH	G				5.0 S.U. Minimum	

G = Grab Sample C = Composite Sample * = Remanded

7a. Based on the above, the wastewater discharge:
_____ is in compliance. _____ is not in compliance.

958870571

40 CFR 413 and 433

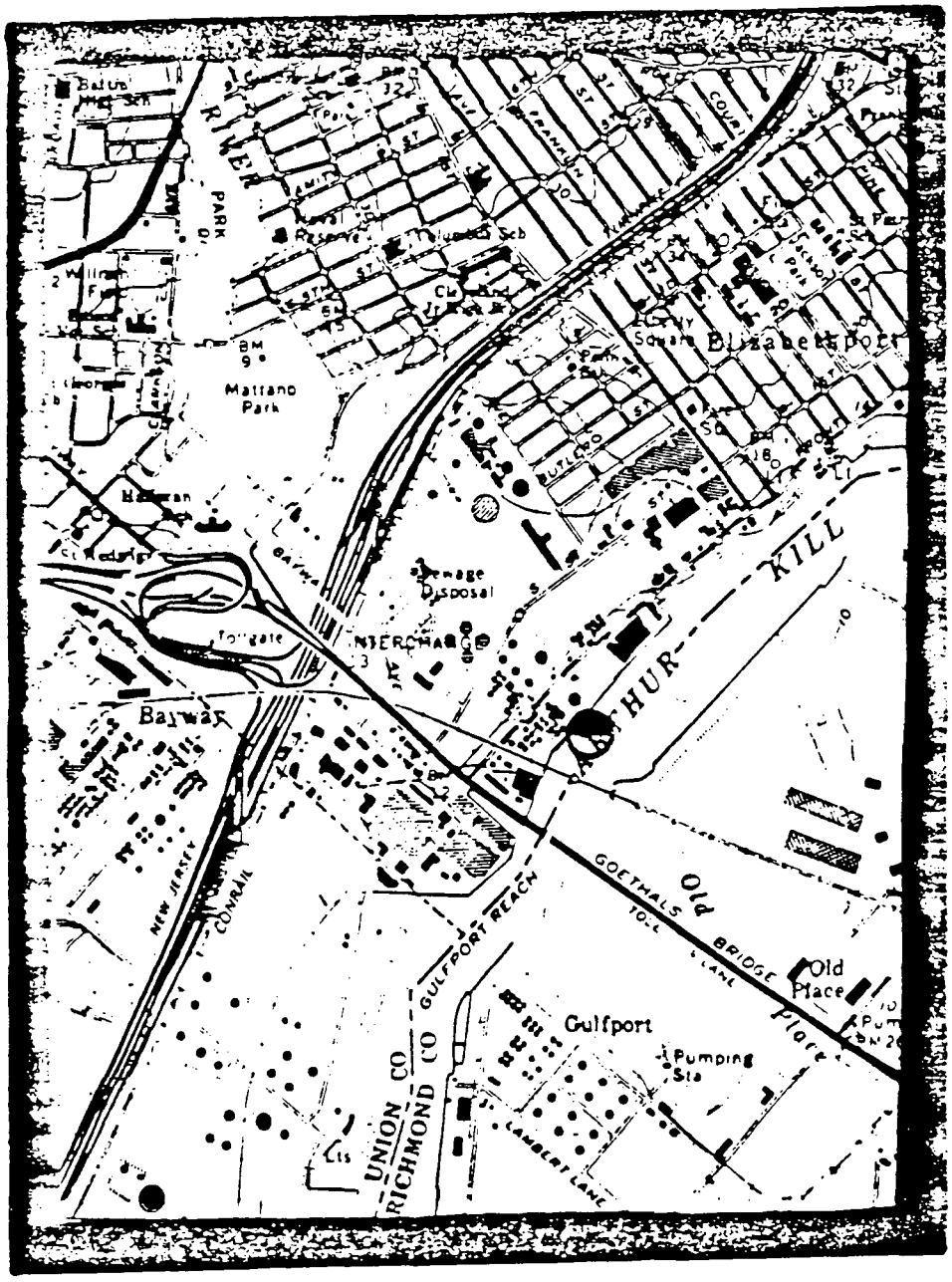
The term "TTO" shall mean total toxic organics, which is the summation of all quantifiable values greater than .01 milligrams per liter for the following toxic organics:

Acenaphthene
Acrolein
Acrylonitrile
Benzene
Benzidine
Carbon Tetrachloride (tetrachloromethane)
Chlorobenzene
1,2,4-trichlorobenzene
Hexachlorobenzene
1,2,-dichloroethane
1,1,1-trichloroethane
Hexachloroethane
1,1-dichloroethane
1,1,2-trichloroethane
1,1,2,2-tetrachloroethane
Chloroethane
Bis (2-chloroethyl) ether
2-chloroethyl vinyl ether (mixed)
2-chloronaphthalene
2,4,6-trichlorophenol
Parachlorometa cresol
Isophorone
Chloroform (trichloromethane)
2-chlorophenol
1,2-dichlorobenzene
1,3-dichlorobenzene
1,4-dichlorobenzene
3,3-dichlorobenzidine
1,1-dichloroethylene
1,2-trans-dichloroethylene
2,4-dichlorophenol
1,2-dichloropropane (1,3-dichloropropene)
2,4-dimethylphenol
2,4,-dinitrotoluene
2,6-dinitrotoluene
1,2-diphenylhydrazine
Ethylbenzene
Fluoranthene
4-Chlorophenyl phenyl ether
4-Bromophenyl phenyl ether
Bis (2-chloroisopropyl) ether
Bis (2-chloroethoxy) methane
Methylene Chloride (dichloromethane)
Methyl Chloride (chloromethane)
Methyl Bromide (bromomethane)
Bromoform (tribromomethane)
Dichlorobromomethane
Chlorodibromomethane

Napthalene
Nitrobenzene
2-nitrophenol
4-nitrophenol
2,4-dinitrophenol
4,6-dinitro-o-cresol
N-nitrosodimethylamine
N-nitrosodiphenylamine
N-nitrosodi-n-propylamine
Pentachlorophenol
Phenol
Bis (2-ethylhexyl) phthalate
Butyl benzyl phthalate
Di-n-butyl phthalate
Di-n-octyl phthalate
Diethyl phthalate
Dimethyl phthalate
1,2-benzanthracene
(benzo (a)anthracene)
Benzo(a)pyrene (3,4-benzopyrene)
3,4-Benzofluoranthene (benzo(b)fluoranthene)
11,12-Benzofluoranthene (Benzo(k)fluoranthene)
Chrysene
Acenapthylene
Anthracene
1,12-Benzoperylene (Benzo(ghi)perlene)
Fluorene
Phenanthrene
1,2,5,6-Dibenzanthracene (Dibenzo(a,h)anthracene)
Indeno(1,2,3-cd) pyrene (2,3-o-phenlene pyrene)
Pyrene
Tetrachloroethylene
Toluene
Trichloroethylene
Vinyl chloride (chloroethylene)

Aldrin
Dieldrin
Chlordane (technical mixture and metabolites)
4,4-DDT
4,4-DDE (p,p-DDX)
4,4-DDD (p,p-TDE)
Alpha-endosulfan
Beta-endosulfan
Endosulfan sulfate
Endrin
Endrin aldehyde
Heptachlor
Heptachlor epoxide
(BHC-hexachlorocyclohexane)
Alpha-BHC
Beta-BHC
Gamma-BHC
Delta-BHC

(PCB-polychlorinated biphenyls)
PCB-1242 (Arochlor 1242)
PCB-1254 (Arochlor 1254)
PCB-1221 (Arochlor 1221)
PCB-1232 (Arochlor 1232)
PCB-1248 (Arochlor 1248)
PCB-1260 (Arochlor 1260)
PCB 1016 (Arochlor 1216)
Toxaphene
2,3,7,8-Tetrachlorodibenzo-p-dioxin (TCDD)



- Outfall 001

N

FIGURE 1

Location of Discharge
Joint Meeting of Essex and Union Counties
Wastewater Treatment Plant

NJ0024711

SCALE 1:24 000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

CONTOUR INTERVAL 10 FEET
NATIONAL GEODETIC VERTICAL DATUM OF 1929
DEPTH CURVES AND SOUNDINGS IN FEET—DATUM IS MEAN LOW WATER
THE RELATIONSHIP BETWEEN THE TWO DATUMS IS VARIABLE
SHORELINE SHOWN REPRESENTS THE APPROXIMATE LINE OF MEAN HIGH WATER

TABLE III-CSO-1

OWNER/OPERATOR	CSO #	CSO LOCATION	C O O R D	WATERBODY NAME	S-CL
Elizabeth	019	Bridge St, S Bank	40 39 38 74 12 44	Elizabeth River	SE3
Elizabeth	020	Bridge St, N Bank	40 39 39 74 12 43	Elizabeth River	SE3
Elizabeth	021	State Highway 25	40 39 32 74 12 33	Elizabeth River	SE3
Elizabeth	022	South St, E Bank	40 39 28 74 12 39	Elizabeth River	SE3
Elizabeth	023	South St, W Bank	40 39 28 74 12 40	Elizabeth River	SE3
Elizabeth	024	Norwood Terr.	40 39 25 74 12 40	Elizabeth River	SE3
Elizabeth	025	Montgomery St	40 39 22 74 12 40	Elizabeth River	SE3
Elizabeth	026	John Street	40 39 15 74 12 33	Elizabeth River	SE3
Elizabeth	027	Summer Street	40 38 59 74 12 37	Elizabeth River	SE3
Elizabeth	028	Summer Street	40 38 59 74 12 37	Elizabeth River	SE3
Elizabeth	029	Elizabeth Avenue	40 38 39 74 11 22	Arthur Kill	SE3
Elizabeth	030	E Jersey St	40 38 47 74 11 12	Arthur Kill	SE3
Elizabeth	031	Livingston Street	40 38 48 74 11 9	Arthur Kill	SE3
Elizabeth	032	Magnolia Avenue	40 38 51 74 10 53	Arthur Kill	SE3
Elizabeth	034	Trumbull St	40 39 7 74 10 15	Newark Bay	SE3
Elizabeth	035	Third Avenue	40 38 33 74 11 43	Elizabeth River	SE3
Elizabeth	001	Alina St. No. 1	40 40 49 74 11 30	Peripheral Ditch	FW2-NT
Elizabeth	002	Dowd Ave. No. 2	40 40 19 74 11 36	Great Ditch	FW2-NT
Elizabeth	003	Westfield Ave No 3	40 40 4 74 13 15	Elizabeth River	FW2-NT
Elizabeth	005	Westfield Ave. No. 5	40 40 4 74 13 11	Elizabeth River	FW2-NT
Elizabeth	006	Crane St. No. 6	40 40 1 74 13 9	Elizabeth River	FW2-NT
Elizabeth	007	W. Grant, E. Bank	40 39 58 74 13 9	Elizabeth River	FW2-NT
Elizabeth	008	W. Grand, W. Creek	40 39 58 74 13 8	Elizabeth River	FW2-NT
Elizabeth	009	Murray St., E. Bank	40 39 47 74 13 9	Elizabeth River	FW2-NT
Elizabeth	010	Murray St., W. Bank	40 39 47 74 13 10	Elizabeth River	FW2-NT
Elizabeth	011	Rahway Ave., W. Bank	40 39 41 74 13 6	Elizabeth River	FW2-NT
Elizabeth	012	Rahway Ave., E. Bank	40 39 41 74 13 4	Elizabeth River	FW2-NT
Elizabeth	013	S. of Rahway Ave.	40 39 39 74 13 4	Elizabeth River	FW2-NT
Elizabeth	014	Broad St., N. Bank	40 39 39 74 12 57	Elizabeth River	SE3
Elizabeth	015	Broad St., N. Bank	40 39 39 74 12 56	Elizabeth River	SE3
Elizabeth	016	Broad St., S. Bank	40 39 38 74 12 57	Elizabeth River	SE3
Elizabeth	017	Broad St., S. Bank	40 39 38 74 12 56	Elizabeth River	SE3
Elizabeth	036	Irvington Ave.Dod Ct	40 40 15 74 13 12	Elizabeth River	SE3
Elizabeth	037	Bayway	40 38 6 74 11 57	Arthur Kill	SE3
Elizabeth	038	Trenton Ave, E Bank	40 38 50 74 12 18	Elizabeth River	SE3
Elizabeth	039	Schiller St.	40 39 47 74 12 52	Great Ditch	FW2-NT
Elizabeth	040	Pulaski St.	40 38 47 74 12 32	Elizabeth River	SE3
Elizabeth	041	Morris Ave.	40 40 10 74 13 11	Elizabeth River	FW2-NT
Elizabeth	042	Bridge St.	40 39 32 74 12 43	Elizabeth River	SE3

STATEMENT OF BASIS/FACT SHEET
Addendum for Residuals Conditions For NJPDES Permit to Discharge Into the Waters of the State of New Jersey

I. NAMES AND ADDRESSES:

NJPDES Permit No: NJ0024741

FACILITY TYPE: Wastewater Treatment Plant

FACILITY LOCATION:

Joint Meeting of Essex and Union Counties
500 South First Street
Elizabeth, New Jersey 07202

NAME AND ADDRESS OF PERMITTEE:

Joint Meeting of Essex and Union Counties
500 South First Street
Elizabeth, New Jersey 07202

The following shall constitute an addendum to the fact sheet and statement of basis regarding issuance of the residuals conditions in the Revoke and Reissue Permit to the permittee above.

II. DESCRIPTION:

The facility currently generates approximately 73,000 dry lbs/day of sludge at a flow very close to the design flow of the sewage treatment plant. As defined in the Statewide Sludge Management Plan, sludge is "the solid residue and associated liquid resulting from physical, chemical or biological treatment of wastewater in a domestic treatment works." All sludge produced by the above named permittee is transported to Pennsylvania for landfill disposal until a long-term sludge management plan is implemented pursuant to the terms of a Judicial Consent Decree (JCD - Civil Action No. 89-3339 xx-HAA).

Major components of the sludge treatment and dewatering operation prior to its management consist of the following:

a) Coarse bar and fine screening.

b) Grit settlement and removal.

c) Primary settling.

d) Aeration of activated sludge.

e) Secondary clarification and chlorination.

f) Gravity and centrifuge thickening of primary and secondary sludges.

g) Anaerobic digestion.

h) Centrifuge dewatering.

The sludge dewatering facility also consists of storage capabilities, lime stabilization processes, filtrate return systems, compressed air systems and controls and instrumentation.

III. BASIS FOR PERMIT CONDITIONS

All Residuals Management Conditions have been incorporated into the draft Revoke and Reissue Permit in accordance with the requirements of the NJPDES Regulations, N.J.A.C. 7:14A-1 et seq., promulgated pursuant to the authority of the following applicable acts:

(a) New Jersey "Water Pollution Control Act" and amendments N.J.S.A. 58:10A-1 et seq.

(b) New Jersey "Solid Waste Management Act" and amendments N.J.S.A. 13:1E-1 et seq.

In addition, pursuant to the Water Quality Planning Act (N.J.S.A. 58:11A-1 et seq.), the Statewide Sludge Management Plan and N.J.A.C. 7:14A-3.13 (a)15, the JMEUC submitted a plan for management of the residuals projected to be produced at the treatment plant. The Department found said plan to meet the requirements of the Statewide Sludge Management Plan on July 12, 1989. Accordingly, the conditions of the Generator Sludge Management Plan have been incorporated into the draft Revoke and Reissue Permit. Any subsequent modification to the JCD may necessitate the appropriate modification(s) to the sludge management plan.

IV. PROCEDURES OF REACHING A FINAL DECISION ON THE PERMIT

The appearance of the public notice in the newspapers marks the commencement of the mandatory 30 day comment period required by Section 8.1 of the New Jersey Pollutant Discharge Elimination System Regulations, N.J.A.C. 7:14A-1 et seq. During this time frame, both the permittee and concerned citizens may offer comments concerning the terms and conditions of this draft permit or may request that a non-adversarial public hearing be conducted whenever the NJDEPE

determines that there is significant public interest in the permit decision. All comments must be submitted within the appropriate time frame and in writing to:

Administrator
New Jersey Department of Environmental Protection and Energy
Wastewater Facilities Regulation Program
CN-029
Trenton, New Jersey 08625

V. DEPE CONTACT

Additional information concerning the residuals conditions of this permit may be obtained between the hours of 8:30 A.M. and 4:00 P.M., Monday through Friday from: Marc Kerachsky at (609) 633-3823.

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JOINT MEETING
of
ESSEX AND UNION COUNTIES

INDUSTRIAL PRETREATMENT PROGRAM

STATUS REPORT

April 1989

I. GENERAL INFORMATION

958870582

AR-1

INDUSTRIAL PRETREATMENT PROGRAM ANNUAL REPORT

NJPDES Permit Holder or Sewer Authority Name: Joint Meeting of Essex & Union Counties

Report Date: April 1, 1989

Period Covered by This Report: from March 01, 1988 to February 28, 1989

Period Covered by Previous Report: from March 01, 1987 to February 28, 1988

Name of Wastewater Treatment Plant(s)	NJPDES Permit Number
Joint Meeting	NJ 0027741

Person to contact concerning information contained in this report:

Name: Cathy L. Pullizzi

Title: Program Coordinator

Mailing Address: 500 South First Street

Elizabeth, New Jersey 07202

Telephone No.: (201) 353-1313

I have personally examined and am familiar with the information submitted in this document and attachments. Based upon my inquiry of those individuals immediately responsible for obtaining the information reported herein, I believe that the submitted information is true, accurate and complete.

3/30/89
Date

Michael J. Bombi Jr.
Signature of Official

Executive Director
Title

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II. REPORT SUMMARY

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ABSTRACT SUMMARY

This Joint Meeting Industrial Pretreatment Program status report concerns our activities regarding the operation of our pretreatment program from March 1, 1988-February 28, 1989.

The salient points discussed in this report include changes to our inventory of industrial users, our industrial monitoring activities, our activities relating to enforcement and a program evaluation.

This year our efforts were geared towards ensuring that our industries remain in consistent compliance with the Categorical Standards and the Joint Meeting Rules and Regulations. Any categorical industry that was a victim of "backsliding" was placed under a compliance schedule.

Our activities included review of the Baseline Monitioring Reports for the Organic Chemicals category, receipt and evaluation of various industrial reports, industrial monitoring and inspections, and the start-up of Phase I of the Toxicity Reduction Evaluation study.

958870585

III. TABLE OF CONTENTS

958870586

TABLE OF CONTENTS

		Page
Section I	General Information	I.1
	Form AR-1	I.2
Section II	Report Summary	II.1
Section III	Table of Contents	III.1
Section IV	Industrial Inventory	IV.1
Section V	Compliance With Categorical Standards By Industrial Users	V.1
	Form AR-4 Compliance with Categorical Standards	V.6
	Form AR-3 BMR Data	V.7
	Table 1 Non-Categorical Permitted Industries	V.15
	Table 2 Non-Categorical Non-Permitted Industries	V.17
Section VI	Monitoring Program	VI.1
	Form AR-5a Summary of Monitoring Program	VI.6
	Form AR-5b Analytical Data Summary	VI.7
	Form AR-5c Analytical Data Summary	VI.8
	Form AR-5c.1 Analytical Data Summary	VI.9
	Form AR-6 Upset, Interfence, Pass-Throughs	VI.10
Section VII	Compliance/Enforcement Activities	VII.1
	Form AR-7 Summary of Violations	VII.16
	Form AR-8 Summary of POTW Compliance Actions	VII.17
	Violator Publication	VII.18
Section VIII	Program Evaluation	VIII.1
Appendix A	TRE Quarterly Reports	
Appendix B	Priority Pollutant Monitoring	

958870587

IV. INDUSTRIAL INVENTORY

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IV. INDUSTRIAL INVENTORY

This past reporting year the Joint Meeting monitored eighty-five (85) industries. These industries are classified as follows:

	3/1/88-2/28/89	Projected
Categorical Industries	38	37
Non-Categorical Permitted	37	31
Non-Categorical Non-Permitted	10	9
Total Industries	85	77

A. 1988 vs. 1989 Classification Tally

Note that last year's Annual Report listed forty-one (41) categorical industries versus thirty-eight (38) catagorical industries this year. One of our industries, Tessler & Weiss, was regulated under three categories: 433 Metal Finishing; 471 Nonferrous Metals Forming and Metal Powder; and 421 Nonferrous Metals Manufacturing. Last year's tally indicated the number of industries totalled in each category. This year, to avoid confusion, the above tally is based on the total number of categorical industries, regardless of the number of categories they're regulated for.

The following is a breakdown of the changes in classification of our industries that occured during this reporting period.

1. Categorical

   +3 Organics (Nuodex, Reichhold, Apex)
   -2 Tessler & Weiss now tallied as one industry
   -1 Textile Category (Fablock Mills)
   -3 Plastics Molding & Forming Category (Hoechst Celanese, Alpha Wire, Westfield Products)

2. Non-Categorical Permitted

   -2 Organics (Nuodex, Reichhold)
   +1 Textile (Fablock Mills)
   +2 Plastics Molding and Forming (Alpha Wire, Hoechst Celanese)
   +2 Colgate Palmolive Company
   +1 Sutton Laboratories

3. Non-Categorical Non-Permitted

   -1 Apex (became a categorical industry)

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B. Projected Changes in Status:

The table showing changes in status reflects changes that occured late in this reporting period and/or changes that are expected in the near future.

1. Categorical

-1 Silsonix (will become a non-categorical permitted industry)

2. Non-Categorical Permitted

+1 Allied Processing
+1 Silsonix (no longer categorical)
-1 Photica (not considered SIU)
-1 Sutton (rescinded)
-6 Ceased operations (Accurate Bushing, Griffith Labs, MacMillan Bloedel, Union Steel, both Colgate Palmolive facilities)

3. Non-Categorical Non-Permitted
-1 Allied Processing (expect to issue Permit)

C. Industrial Listing

The industries per category are tallied on Form AR-4 and are listed within their categorical standards on Form AR-3.

A listing of all the non-categorical permitted industries is outlined in Table I. The table lists the facility name, address and reason for requiring a permit. In addition, the non-categorical non-permitted industries are similarly outlined in Table 2.

D. Dry Industries

The following industries, as of the 3/1/89 reporting period, will be classified as "dry industry" for the reasons indicated:

NAME	MUNICIPALITY	REASON FOR "DRY"
Accurate Bushing	Union	Ceased Operations
Griffith Laboratories	Union	Ceased Operations
MacMillan Bloedel	Union	Ceased Operations
Turbo Braze	Union	Evaporation of regulated waste
Union Steel	Union	Ceased Operations

Turbo Braze is a categorical industry regulated under 40 CFR Part 471 Non-ferrous Metals Forming and Metal Powder. Due to an extremely low flow, Turbo Braze decided to meet the categorical standards through evaporation, thereby attaining zero discharge of the regulated waste. This is discussed in detail in Section V C.5.

958870590

E. New Industries

The following industrial users were added to our inventory this year:

NAME	MUNICIPALITY	DESCRIPTION
Colgate Palmolive Co.	Hillside	Clean-up of warehouse spill
Colgate Palmolive Co.	Union	Clean-up of warehouse spill
Sutton Laboratories	Chatham	Cosmetic waste trucked to Joint Meeting

958870591

TABLE 1

NON-CATEGORICAL PERMITTED INDUSTRIES
REASON FOR PERMIT ISSUANCE

CODE	FACILITY NAME	FACILITY ADDRESS	FLOW ≥25,000 GPD	MASS EQUIV. ≥25,000 GPD	OTHER
5010	AT&T Bell Laboratories	600 Mountain Ave., M.H.	X	X	
7005	Accurate Bushing Company	800 Jefferson Ave., Un			X - pH, Oil & Grease
0005	Alpha Wire Corporation	711 Lidgerwood Ave., Eliz	X	X	
7035	American Products Company	610 Rahway Ave., Un		X	
1010	Ariston, Inc.	485 Bloy Street, Hill			X - Solvents (Toluene)
7040	Best Foods Research Center	1120 Commerce Ave., Un		X	
0030	C&C Cola, Inc.	535 Dowd Ave., Eliz	X	X	
1025	Certified Processing	Route 22, Hill	X	X	
1500	Colgate Palmolive Company	704 Ramsey Ave., Hill			X - Clean-up of warehouse sp
7500	Colgate Palmolive Company	2395 Springfield Ave., Un			X - Clean-up of warehouse sp
0037	Deb-El Foods Corporation	2 Papetti Plaza, Eliz		X	
3005	Durkee Foods	200 Rutgers St., Map		X	
1035	E.C.D. Inc.	171 Central Ave., Mill			X - pH, Metals
0055	Emkay Chemical Company	319-325 Second St., Eliz		X	
5020	Fablok Mills, Inc.	140 Spring St., M.H.	X	X	X - Oil and Grease
0025	General Biscuit Brand	891 Newark Ave., Eliz	X	X	
7085	~~Griffith Laboratories~~	855 Rahway Ave., ~~Eliz~~ Union	X	X	
5505	Hoechst Celanese	86 Morris Ave., Sum	X	X	
7090	Ivex Corporation	555 N. Michigan Ave., Kenil			X - Metals
0105	Jersey Pride Foods	1 Papetti Plaza, Eliz	X	X	X - pH
7110	King Manufacturing Company	1 Milltown Court, Un			X - Metals
6008	Krajack Tank Lines, Inc.	480 E. Westfield Ave., R.P.			X - pH, Oil and Grease
4015	Lasky Company	67 East Willow St., Mill		X	X - Volatile Organics

Municipality Abbreviations:

Eliz = Elizabeth
Hill = Hillside
Irv = Irvington
Map = Maplewood
Mill = Millburn
M.H. = Murray Hill
R.P. = Roselle Park
Sum = Summit
Un = Union

958870592

V.15

TABLE 1

NON-CATEGORICAL PERMITTED INDUSTRIES
REASON FOR PERMIT ISSUANCE

CODE	FACILITY NAME	FACILITY ADDRESS	FLOW ≥25,000 GPD	MASS EQUIV. ≥25,000 GPD	OTHER
7115	MacMillan Bloedel Containers	601 Lehigh Ave., Un			X - pH, Color, Metals
2050	Max Marx Color Corporation	192 Coit St., Irv	X	X	X - pH
1032	McCain Citrus	445-463 Hillside Ave., Hill	X	X	
0095	OK Towel	61-69 Cherry St., Eliz	X	X	X - pH, Oil and Grease
0100	Papetti's Hygrade Eggs	847 North Ave., Eliz	X	X	X - pH
2052	Photica, Inc.	491 Lyons Ave., Irv			X - pH, Metals
5030	Pix Manufacturing Company	675 Central Ave., M.H.			X - Metals
2025	Sketchley Health Care	1108 Grove St., Irv	X	X	
7150	SS Studios	1023 Commerce Ave., Un			X - Metals
2060	Standard Uniform Service	56 Woolsey St., Irv	X	X	X - pH, Oil and Grease
5560	Sutton Laboratories	116 Summit Ave., Chatham			X - Trucked in waste
7170	Tuscan Dairy Farms, Inc.	750 Union Ave., Un	X	X	
7180	Union Steel Corporation	2150 Stanley Terr., Un			X - pH, Metals
3045	Universal Chain Company	92 Burnett Ave., Map			X - pH, Metals

Municipality Abbreviations:

Eliz = Elizabeth
Hill = Hillside
Irv = Irvington
Map = Maplewood
Mill = Millburn
M.H. = Murray Hill
R.P. = Roselle Park
Sum = Summit
Un = Union

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VI. MONITORING PROGRAM

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VI. MONITORING PROGRAM

A. Industrial Monitoring

In addition to compliance monitoring for categorical and Joint Meeting discharge limitations, samples are routinely taken to determine annual user charges for our industries. The annual user charge is our method for equitable billing of our industrial contributors and consists of charges apportioned by flow (in million gallons per year), and BOD and TSS (in tons per year). Sampling for user charge and compliance (unannounced visits) is conducted a minimum of three to four times annually for each of our industrial users. The sampling frequency and intensity is increased for those industries which (1) have problems with attaining compliance, (2) show inconsistent compliance or (3) have significant user charges.

The purpose of the announced inspections is to verify information provided by the industrial user in its Baseline Monitoring Report, compliance reports, self-monitoring reports, and compliance schedule reports. The announced annual inspection consists of sampling for all categorically regulated pollutants, in-depth interviews with plant officials, a comprehensive survey of plant operations, review of all permits, and a review of the Material Safety Data Sheets. We also request a photocopy of the latest Hazardous Waste Generators Report and review all manifests for the current year. As indicated last year, the most frequent deficient area is related to the storage and handling of raw and waste organics and/or waste process materials. There appears to be some neglect on the industries' part to properly label and segregate the various drums in question. Our main concern is that these materials be stored in such a manner that no threat is posed to the sanitary or storm sewer systems should leaks, spills or accidents occur. During this past year, we have seen significant improvement in this area.

Another area of concern that we have stressed this year has been indentifying industrial contribution of extraneous flows. The Joint Meeting is performing a massive sewer rehabilitation project that is expected to be completed by the end of 1989. The project entails identifying and remedying inflow and infiltration. Reducing the amount of inflow is achieved by cement-coating manhole interiors and resetting collars and frames. Reducing the amount of infiltration through cracked pipes is achieved by cleaning the sewer lines and sealing joints with chemical grout. This should effectively reduce the extraneous flow resulting from rainwater and subterranean water. Another area of extraneous flows is from non-contact cooling water and any catch basins that may be connected to sanitary sewer lines. During our

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annual inspections we have identified several industries discharging non-contact cooling water to the sanitary sewer and/or having catch basins that are tied in to us. One of these industries, Alcan Powders and Pigments, had been placed under a compliance schedule to remove these extraneous flows. This is discussed in detail in Section VII C.1.

Form AR-5A indicates that sixty-five (65) of the seventy-five (75) permitted industries had Annual Inspections of their facilities during this reporting period. This tally does not include follow-up inspections or miscellaneous inspections.

In 1986, the Joint Meeting instituted a system of Non-Domestic Wastewater Discharge Permits for its major industries. At the end of this reporting period seventy-five (75) permits are in operation. Of this number, thirty-eight (38) are categorical industries and thirty-seven (37) are non-categorical industries. The Joint Meeting classifies an industry as "major" if it meets any of the following criteria:

1) Process is regulated by a Federal Categorical Pretreatment Standard

2) Process discharge is equal to or exceeds 25,000 gallons per day

3) Process discharge exceeds the mass equivalent of 25,000 gallons per day of normal domestic sewage

4) Other (i.e. violations of Joint Meeting Regulations)

Table I outlines those industries that are the non-categorical permitted industries and includes the reason that a permit was deemed necessary. Each of the permits contains a provision for self-monitoring on the part of the industry. The frequency and nature of the self-monitoring are determined on a case-by-case basis, with the minimum reporting frequency being semi-annually. The "problem" industries must monitor and/or report at more frequent intervals. Data provided by the industry theoretically adds to our data base and serves as an additional monitor of industrial activity. As indicated in last year's Annual Report, a few of the industries were notorious for submitting data that consistently showed compliance with all Standards, when, in fact, our sampling normally revealed higher concentrations of certain parameters. In addition, we have seen laboratories exceeding holding times and analyzing composite samples for cyanide and/or oil and grease. We have

958870596

been rejecting data for these reasons and requiring that re-sampling be performed. We have seen a sharp decrease in these problems in the past year. Apparently the laboratories realize that we're serious about requiring that all submitted data meet their laboratory certification requirements. In addition, the laboratories have been contacting us in advance of sampling to verify what's required of the particular industry. Since the Joint Meeting performs the required sampling and analysis for approximatly 70-75% of the permitted industries, and most of the remaining industries are reputable industries, the problem of questionable data remains a minor annoyance. Hopefully, with the laboratories adhering to their certification requirements, data rejection will become almost nil.

Table 2 outlines those industries that are the non-categorical non-permitted industries. These industries have been deemed not significant as far as permits are concerned, but do show a need for monitoring. The reasons for monitoring these non-categorical non-permitted industries is outlined in Table 2.

B. Other Monitoring

1. Monitoring at the Treatment Plant: Samples of our treatment plant influent and effluent are routinely analyzed every other day for heavy metals analyses. In addition, oil and grease analysis is performed bi-monthly on the treatment plant influent and effluent. The results of our treatment plant monitoring is outlined in Forms AR-5B, AR-5C, and AR-5C.1.

Pursuant to the New Jersey Department of Environmental Protection requirements, we performed the annual sampling of our treatment plant influent and effluent for priority pollutants. This sampling was performed in June, 1988. The results of these samples are enclosed as Appendix B at the end of this Report.

2. Key Manhole Monitoring: As part of our routine monitoring program, samples are taken daily from the City of Elizabeth's Pumping Station. The pumping station is a convenient point for monitoring as it receives virtually all of the industrial flow from the City of Elizabeth. The conventional pollutants are monitored daily. Heavy metals are monitored every other day. Oil and grease, cyanide, and volatile organics are monitored as the need warrants.

Due to time constraints and the complexity of the Joint Meeting system, key manhole sampling is performed only in response to unusual occurences at our treatment plant, or by complaints regarding unusual odors or illegal discharges.

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This year we received three major complaints regarding odors. All three were in Elizabeth. The Joint Meeting investigated these complaints. The sources were tracked down to Carco, Inc., Nuodex, Inc. and Reichhold Chemicals. These complaints are discussed in detail in Sections VII C.2 (Carco), VII C.5 (Nuodex) and VII C.7 (Reichhold).

A summary of our monitoring program is enclosed on Forms AR-5A, AR-5B, AR-5C, AR-5C.1 and AR-6 on the following pages. Forms AR-5B and AR-5C contain the required treatment plant monitoring parameters and the Monthly Sludge Quality Assurance data. Form AR-5C.1 contains the monthly metals averages of the treatment plant influent and effluent samples. Samples are analyzed every other day for cadmium, chromium, copper, nickel, lead, and zinc. Oil and grease is monitored twice per month.

958870598

AR-5a

SUMMARY OF POTW MONITORING PROGRAM

POTW: Joint Meeting of Essex and Union Counties

	This Reporting Period	Last Reporting Period
1. Number of industrial users (IU) included in POTW monitoring program.	85 *	85
2. Number of IU's added to POTW monitoring program.	3	2
3. Number of IU's eliminated from POTW monitoring program.	1	6
4. Total number of POTW inspections of IU's.	65 **	35
5. Total number of POTW sampling visits of IU's.	451	460

COMMENTS: * Total number of Industrial Users, not all are "major" industries.

** Total number of annual inspections. Does not include follow-up inspections and miscellaneous inspections.

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ANALYTICAL DATA SUMMARY POTW: Joint Meeting of Essex & Union Counties NJPDES No.: 0024741

	Parameter	March 1988	April 1988	May 1988	June 1988	July 1988	August 1988	Sept. 1988	October 1988	Nov. 1988	Dec. 1988	Jan. 1989	Feb. 1989	Yearly Average: This Report Period	Yearly Average: Last Report Period
		MONTHLY AVERAGE VALUES													
REQUIRED	POTW Flow (MGD)	67.12	62.47	74.13	62.76	69.95	62.90	59.48	58.40	69.64	60.48	61.16	64.18	64.39	66.51
	BOD_5 (influent)	165.2	179.1	145.4	184.5	162.6	175.1	189.0	195.7	174.0	176.1	198.4	181.0	177.2	161.1
	BOD_5 (effluent)	16.4	18.1	17.4	24.0	22.1	22.3	22.6	31.1	33.4	21.6	13.4	14.4	21.4	25.3
	TSS (influent)	134.0	131.0	128.0	139.6	128.0	128.0	136.8	141.4	133.1	130.6	138.5	131.5	133.4	128.8
	TSS (effluent)	12.1	13.3	11.0	10.2	14.0	13.2	20.5	24.3	22.7	18.0	15.2	19.4	16.2	26.8
	pH (influent-Max)	7.59	7.28	7.38	7.41	7.32	7.23	7.32	7.36	7.55	7.45	7.37	7.43	7.39	7.51
	pH (influent-Min)	6.93	7.02	6.78	6.86	6.83	6.87	6.81	6.83	6.68	6.93	7.01	6.90	6.87	6.87
	Oil & Grease (inf)	NA	NA	42.5	34.2	61.0	44.2	46.8	45.2	38.2	30.2	53.2	34.2	43.0	NR
	Oil & Grease (eff)	1.0	3.4	0.9	0.8	6.5	1.7	10.6	6.4	5.3	3.6	2.6	4.2	3.9	1.3
	COD (influent)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	COD (effluent)	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR	NR
	Dissolved O_2 (eff)	8.1	7.9	7.7	7.4	7.4	6.8	6.7	7.0	7.5	7.8	8.3	8.3	7.6	7.7
		Feb. 1988	March 1988	April 1988	May 1988	June 1988	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988	Dec. 1988	Jan. 1989		
SQAR	Arsenic	4.4	12.1	7.4	7.7	0.3	2.7	1.0	1.9	1.8	2.6	1.4	1.8	3.8	4.0
	Cadmium	47.6	101.0	50.7	46.3	15.0	20.0	25.0	23.0	15.0	21.0	16.0	20.5	33.4	44.1
	Chromium	539.4	808.5	379.4	873.4	478.0	127.0	140.0	171.0	162.0	236.0	125.0	146.0	348.8	425.1
	Copper	1652.7	3620.0	1503.9	1741.3	542.0	1150.0	982.0	1440.0	1050.0	1220.0	821.0	1080.0	1400.2	1269.5
	Lead	449.5	1135.0	423.7	487.4	170.0	307.0	388.0	323.0	225.0	260.0	177.0	234.0	381.8	367.2
	Mercury	6.3	< 0.3	5.8	9.0	1.75	4.0	< 0.01	< 0.002	< 0.002	< 0.002	< 0.02	< 0.05	2.3	3.3
	Nickel	259.1	371.6	188.3	375.1	132.0	167.0	142.0	146.0	100.0	124.0	73.0	96.5	181.2	263.3
	Zinc	2342.8	4355.9	3035.5	3998.0	750.0	1270.0	1550.0	1550.0	2300.0	1760.0	1130.0	1230.0	2106.0	2069.2
	Total Nitrogen	52,726	107213.[illegible]	83199.5	62233.0	72500.0	60600.0	86100.0	79200.0	66300.0	66800.0	75400.0	36600.0	74906.0	36413.0

1. Insert the monthly headings at the top of the columns for the 12 months covered by the Annual Report.
2. Unless otherwise indicated, report liquid analyses in mg/l, sludge analyses in mg/kg, and pH in Standard Units.
3. Insert N.R. in the table for any parameter you are not required to analyze for and do not ob[illegible]

VI.7

ANALYTICAL DATA SUMMARY POTW: Joint Meeting of Essex & Union County NJPDES No.: 0024741

Parameter	MONTHLY AVERAGE VALUES												Yearly Average	
	Feb. 1988	March 1988	April 1988	May 1988	June 1988	July 1988	Aug. 1988	Sept. 1988	Oct. 1988	Nov. 1988	Dec. 1988	Jan. 1989	This Report Period	Last Report Period
Ammonia Nitrogen	22,509	36,746	30402.0	29601.0	31000.0	43700.0	27400.0	64600.0	35100.0	18500.0	22800.0	65300.	35638	16324.0
Nitrate Nitrogen	93.3	35.7	33.2	112.8	< 1.0	< 1.3	5.0	15.0	5.2	< 0.4	< 0.4	83.9	32.1	158.9
Oil and Grease	103,549	69,760	94749.0	21438.0	54,500	84700.0	74900.0	52200.0	74900.0	78200.0	38300.0	167000	76183	65669.0
Phenols	17.5	514.1	8.0	56.1	12.2	0.07	2.2	<0.002	4.7	5.8	2.5	18.9	53.5	7.1
Phosphorous	9,063	31,018	26768.0	11118.0	20800.0	19100.0	18400.0	14800.0	259.0	37600.0	21900.0	29900.	20060	13145.0
Calcium	19,409	44,153	23514.0	10960.0	10300.0	10000.0	31000.0	25400.0	21200.0	23000.0	13500.0	25400.	21486	22608.0
Magnesium	7,483	11,484	6664.0	4381.0	2050.0	6230.0	4230.0	5000.0	3550.0	3910.0	2200.0	4010	5099	4267.0
Potassium	8,760	8,524	3130.0	3124.0	15000.0	2700.0	2010.0	3190.0	1720.0	1710.0	1060.0	2160.	4424	1619.0
Cyanide	5.3	17.8	10.0	8.5	<0.25	2.0	1.25	16.9	4.4	4.0	17.8	< 0.2	7.3	17.2
Aldrin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Chlordone	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Dieldrin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
DDT	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Endrin	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Heptachlor Epox.	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Lindane	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Methoxychlor	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Mirex	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PCB'S	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PP'-DDE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
PP'-TDE	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
Toxaphene	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

SQAR

	Parameter	March 1988	April 1988	May 1988	June 1988	July 1988	Aug. 1988	Sept 1988	Oct 1988	Nov 1988	Dec 1988	Jan 1989	Feb 1989	Yearly Average This Report Period	Yearly Average Last Report Period
		MONTHLY AVERAGE VALUES													
INFLUENT	Cadmium total	0.004	0.005	0.006	0.003	0.005	0.006	0.005	0.005	0.006	0.005	0.004	0.006	0.005	0.011
	Chromium total	0.050	0.014	0.019	0.041	0.017	0.019	0.039	0.021	0.025	0.015	0.024	0.008	0.024	0.049
	Copper total	0.016	0.107	0.116	0.111	0.120	0.130	0.164	0.133	0.113	0.100	0.111	0.185	0.126	0.117
	Nickel total	0.046	0.033	0.026	0.047	0.015	0.047	0.040	0.033	0.039	0.029	0.020	0.044	0.035	0.061
	Lead total	0.064	0.030	0.049	0.057	0.041	0.062	0.057	0.045	0.053	0.039	0.054	0.045	0.050	0.071
	Zinc total	0.195	0.176	0.144	0.142	0.133	0.149	0.204	0.161	0.139	0.116	0.144	0.178	0.157	0.193
EFFLUENT	Cadmium total	0.002	0.002	0.003	0.002	0.004	0.006	0.004	0.005	0.004	0.003	0.002	0.003	0.003	0.007
	Chromium total	0.037	0.006	0.011	0.033	0.017	0.013	0.021	0.015	0.018	0.011	0.018	<0.001	0.016	0.025
	Copper total	0.019	0.016	0.021	0.009	0.019	0.018	0.033	0.030	0.020	0.023	0.027	0.031	0.023	0.026
	Nickel total	0.028	0.018	0.019	0.034	0.008	0.034	0.030	0.022	0.025	0.032	0.017	0.026	0.024	0.035
	Lead total	0.042	0.005	0.034	0.035	0.025	0.055	0.047	0.045	0.028	0.020	0.030	0.030	0.033	0.046
	Zinc total	0.066	0.057	0.042	0.031	0.025	0.037	0.089	0.056	0.034	0.046	0.053	0.072	0.051	0.057

958870602

UPSET, INTERFERENCE, AND PASS-THROUGH INCIDENTS

POTW Treatment Plant: Joint Meeting of Essex and Union Counties

Type of Incident	Frequency	Explanation/Reason for Incident(s)	Corrective Action(s) Taken
None			

VII. COMPLIANCE/ENFORCEMENT ACTIVITIES

958870604

VII. COMPLIANCE/ENFORCEMENT ACTIVITY

A. Summary

Our Compliance/Enforcement activities this year continued to emphasize those industries that repeatedly violate the Categorical Standards and/or the Joint Meeting discharge limitations. To document consistent compliance, we still continue to sample problem industries for a minimum of an entire work week. In addition, industries that have only recently achieved consistent compliance are sampled on a frequent basis also, with the Joint Meeting normally sampling for three-four days at a time. We've found this to be a useful tool in classifying an industry as a consistent violator. It's a bit tougher for an industry to "hold back" flow or scale down their process if we stay for the better part of a work week. In addition, it is felt that the more frequent sampling yields more representative data on which to base a decision of compliance vs. non-compliance.

Summary sheet AR-7 indicates that a total of forty-six (46) industries were in violation of local limits and thirteen (13) industries were in violation of state/federal limits. The tabular breakdown indicates that the majority of the 247 local violations were for pH (114 violations) and metals (74 violations). The majority of the 46 state/federal violations were for metals (23) and cyanide (13). It bears nothing that the metals violations are tallied as sampling excursion visits, i.e. an industry may exceed the standards for three metals during one sampling visit but the violations are tallied as one violation.

The oil & grease violations increased this year, 48 during this reporting period versus 19 during the previous period. This is a direct reflection of our having increased the sampling frequency at our "problem" oil/grease industries. As discussed previously, two of the industries (Carco and Nuodex) are now in compliance for oil/grease and we expect to be requesting compliance schedules from the others (Krajack, OK Towel, and Standard Uniform). Please refer to the following Sections for detailed discussions of the five industries:

Carco - VII C.2	OK Towel - VII E.3
Nuodex - VII C.5	Standard Uniform - VII E.4
Krajack - VII E.2	

Violations of reporting requirements has decreased. By now, the industries are quite familiar with our requirements and have been submitting reports in a timely and complete fashion.

The compliance/enforcement activities for our pretreatment program are summarized on forms AR-7 and AR-8 which are enclosed at the end of this section of the report.

958870605

B. Show Cause Hearing

This year, one hearing was held for non-compliance. The industry involved was Silsonix, Inc. (a.k.a. Siltex), located in Irvington. Silsonix is an industry that will finally "clean up its act" when threatened with termination of sewer services and remain in compliance for a short while.

1. Silsonix, Inc. (Irvington) (40 CFR Part 421, PhaseI): Silsonix (a.k.a Siltex) is regulated under the Nonferrous Metals Manufacturing Category. Silsonix has been a continual violator of the Joint Meeting Regulations for pH, cadmium, and silver. A show-cause hearing was held on September 29, 1988. Silsonix is an industry that will take no action until threatened with termination of their sewer services. Silsonix performed some minor corrective measures. They were planning to move the operations to Pennsylvania and did not want to invest significant sums of money into the Irvington facility. During the summer of 1988, the Joint Meeting was contacted by the Pennsylvania Department of Environmental Resources (PA DER) and a citizens group that is located in the area of Silsonix's Pennsylvania site. The PA DER and the citizens group requested background information on Silsonix. The information was forwarded to both groups. In addition, two Pennsylvania newspapers called the Joint Meeting regarding Silsonix. The PA DER was informed of all violations incurred by Silsonix and given a tabulation of all data on Silsonix. It was our understanding that Silsonix would be discharging to a Pennsylvania trout stream following an on-site pretreatment system. We were told that the PA DER could not reject Silsonix based on historical data and information. We certainly hope that Silsonix does a better job of operating their pretreatment system considering the point of discharge is now a trout stream. We have been informed that all silver recovery operations are now performed in Pennsylvania. The only operation taking place at the Irvington facility is the warehousing of the recycled plastic material prior to selling the plastic overseas. We have sampled Silsonix's current discharge. The results are pending. An inspection will be performed in the near future to verify that no processing operations are being performed at the Irvington facility.

C. Issuance of Compliance Schedule

This year, eight compliance schedules were issued. A discussion of each of these follows:

1. Alcan Powders and Pigments (Union) (40 CFR Part 471): Alcan had been under a compliance schedule for meeting the limitations of the Nonferrous Metals Forming and Metal Powder Category. Compliance status was granted on September 16, 1988. Please refer to Section V C.1 for a discussion of this schedule.

958870606

This reporting period Alcan was issued another compliance schedule to remove extraneous flows from the sanitary sewer system. Alcan was discharging non-contact cooling water and surface runoff to the sanitary sewer. Alcan's compliance date for accomplishing the removal of the extraneous flows is July 31, 1989.

2. Carco, Inc. During March of 1988, the City of Elizabeth informed us of a kerosene odor at their Kapkowski Road pumping station. Samples taken for oil and grease analysis indicated high concentrations of oil and grease. The discharge was tracked to Carco, Inc. Carco is a facility that cleans automobiles that have been shipped from overseas. The vehicles are coated with cosmoline to prevent corrosion during the overseas transport. Carco removes the cosmoline by washing the vehicles with a mixture of kerosene and detergent. Carco has a recycling system for the recovery of kerosene. Carco performed an overhaul of the system and retrained their operators. Since March, 1988 the Joint Meeting has sampled Carco a minimum of once per week. Since July 5, 1988 Carco has been in compliance with the Joint Meeting Regulations. Although the recovery system is suppose to be 100% effective when operated properly, which Carco has proven able to do, we feel that they should be regulated with a Non-Domestic Wastewater Discharge Permit. We expect to issue the Permit during our next reporting period.

3. Electrical Industries Corporation (Murray Hill) (40 CFR Part 433): Electrical Industries was placed under a compliance schedule in June 1988 for violations of the Categorical Standards for nickel and cyanide. Electrical Industries was granted compliance status on December 22, 1988. Please refer to Section V C.2 for a discussion of Electrical Industries.

4. Fresco Silver Company (Maplewood) (40 CFR Part 413, <10,000 gpd): Fresco Silver was placed under a Compliance Schedule in October, 1988 for the completion of a sampling manhole. The sampling manhole was completed on January 3, 1989. Please refer to Section V C.3 for a discussion of this matter.

5. Nuodex, Inc. (Elizabeth) (40 CFR Part 414): Nuodex, Inc., a wholly owned subsidiary of Huls America, processes and blends chemicals listed under 40 CFR Part 414 Subpart F (Commodity Organic Chemicals), Subpart G (Bulk Organic Chemicals) and Subpart H (Specialty Organic Chemicals). Nuodex manufactures metal soaps used in the paint industry. The principle reaction is a heavy metal salt reacting with an organic solvent. The principal raw materials are mineral spirits, formaldehyde and various heavy metal salts. The principal products are paint driers (i.e. metal soaps). Per the Baseline Monitoring Report, Nuodex is not in compliance with the Categorical Standards for the

958870607

following parameters:

Benzene -	Daily and Average
Chloroform -	Average
Toluene -	Daily and Average
2,4-Dimethylphenol -	Daily and Average
Phenol -	Daily and Average
Zinc -	Daily and Average

Nuodex has submitted a Compliance Schedule with November 1990 indicated as the date for compliance. A revised compliance schedule has been requested and is to be submitted this May.

Section VI B.2 indicated that Nuodex was the source of odors at the Trenton Avenue Pumping Station. We investigated a complaint from the Pumping Station and found the odor to be indicative of Nuodex. An inspection of Nuodex was performed. The solvent separator was not operating properly. Nuodex was notified that if the situation was not remedied, enforcement action would be initiated. Nuodex corrected the situation.

6. Phelps Dodge Magnet Wire Company (Elizabeth): (40 CFR Part 468). Phelps Dodge is regulated under the Copper Forming Category. As discussed in last year's Annual Report, Phelps Dodge had achieved compliance in the past but had difficulty maintaining consistent compliance. This year we placed Phelps Dodge under a Compliance Schedule with November 30, 1988 as the final date for achieving compliance. Due to numerous problems and delays, Phelps Dodge did not meet the November deadline. After numerous phone calls and meetings with Phelps Dodge (Bayway and Corporate) it was decided to set up a new compliance schedule with March 1, 1989 being the final compliance date. Phelps Dodge hired a new consultant that performed extensive dye tracing of the facility to locate all possible sources of copper, oil/grease, and pH. In addition, Phelps Dodge contracted to have their entire sewers cleaned and vaccumed. This cleaning resulted in the removal of approximately twenty-five (25) 55-gallon drums containing copper laden sludge material. This sludge material ("copper mud") contained 20%-88% copper. The material will be sent out for recovery and recycling. Phelps Dodge installed a filter press on their pretreatment system, performed major housecleaning, sealed sewers, and will be installing new pumps and heat exchanger for their pickle tanks. The Joint Meeting performed sampling March 14-17, 1989. The metals results are pending.

7. Reichhold Chemicals, Inc. (Elizabeth) (40 CFR Part 414): Reichhold is regulated under the Organic Chemicals, Plastics, and Synthetic Fibers Category. Reichhold manufacturers chemicals listed under Subpart D (Thermoplastic Resins), Subpart E (Thermosetting Resins), Subpart F (Commodity Organic Chemicals), Subpart G (Bulk Organic Chemicals) and Subpart H (Specialty Organic Chemicals).

958870608

the present time, Reichhold's Beckamine plant is the only plant in operation at the facility. Beckamines (urea-formaldehyde resins) are the main product with melamine-formaldehyde and benzoguanamine-formaldehyde resins produced in smaller quantities. In addition, Lustralite (ortho-para-toluene sulfonamide resin), Lustrasol (a high-solids, acrylic-modified alkyd resin), and Styresols (monomer-modified alkyd resin) are also produced. The principal raw materials are too numerous to mention here. The BMR is not considered to be "complete" as numerous deficiencies and re-sampling are required. Samples taken for organics were diluted to such an extent that the method detection limit exceeded daily and average limitations. However, based on the original submittal, Reichhold is not in compliance with the Categorical Standards for the following parameters:

Toluene -	Daily and Average
Ethyl Benzene -	Daily and Average
bis (2-ethylhexyl) Pthalate -	Daily and Average
2,4-Dimethyl phenol -	Daily

A revised Compliance Schedule has been requested and is expected shortly.

Section VI B.2 indicated that Reichhold was the source of an odor complaint this year. During the month of January 1989, Reichhold experienced two spills. A description of these two spills follows:

1) Styrene - 1/12/89

On January 12, 1989 at 11:50 a.m., approximately 150 gallons of styrene was discharged to Reichhold's equalization basin. The spill was due to numerous operator errors and equipment malfunction. Reichhold estimates that approximately 75 gallons (566 pounds) of styrene was ultimately discharged to the sewer. At no time did Reichhold contact the Joint Meeting regarding this spill. The Joint Meeting tracked the spill to Reichhold by way of residential and industrial complaints of odors and identification of odor in Joint Meeting influent samples taken during the early morning hours of January 13, 1989. The Joint Meeting contacted Reichhold in the afternoon of January 13, 1989 at which time Reichhold admitted to the spill. A meeting with Reichhold personnel and their consultants was conducted on January 18, 1989. Reichhold explained their actions and discussed measures taken to prevent future spills. Reichhold was sent official notification of the failure to notify Joint Meeting of the spill and instructed that should this occur again, Reichhold's permit would be revoked and sewer services terminated.

2) Methanol - 1/24/89

On January 24, 1989 between 9:00 a.m. and 9:15

a.m., approximately 279 gallons (2055 pounds) of methanol was discharged to the equalization basin. The equalization basin contained approximately 120,000 gallons of wastewater. The spill occured when a "wet" methanol storage tank overflowed during filling operations. Reichhold immediately notified Joint Meeting, at which time Reichhold was instructed not to allow any discharge from the equalization basin to the sewer. The Joint Meeting sealed the discharge valves to ensure that no discharge was possible. Joint Meeting reviewed the data and determined that, since extremely high concentrations of methanol may inhibit sludge digestion, Reichhold would not be allowed to discharge the contents of the basin. Reichhold was informed of this and instructed to pursue alternate means of disposal for the 120,000 gallons. Reichhold contracted to have the wastewater hauled off-site. This was accomplished January 27-28, 1989. An inspection on January 28, 1989 verified that the equalization basin was virtually empty. Reichhold provided copies of the bills of lading to verify that the waste was hauled off-site.

8. Tessler & Weiss, Inc. (Union) (40 CFR Parts 421 and 471): Tessler & Weiss is a jewelry manufacturer that also performs gold refining. Tessler & Weiss has been in violation of the Nonferrous Metals Manufacturing Standards for copper, zinc and cyanide, and in violation of the Nonferrous Metals Forming Standards for copper and silver. As last year's Annual Report noted, Tessler & Weiss was to achieve a compliance date of June 15, 1988. Due to numerous difficulties, Tessler & Weiss has not achieved compliance. Tessler & Weiss' consultant, Fellows, Read & Associates, had recommended the use of a co-precipitation system by Andco Environmental Processes, Inc. It was originally determined that the cost was to be $40,000. However, after costs escalated to $100,000 (plus maintenance), Tessler & Weiss insisted that a more cost effective method be used. The next recommendation was for a metal precipitation system from Drew Chemical. Original estimates of between $4,000 and $15,000 proved to be in error as actual cost was $77,000. In addition, the system could not be installed until April, 1989. At this point, Tessler & Weiss called in another consultant, Elson T. Killam Associates, for a second opinion and subsequently switched consultants. Killam Associates has performed an extensive review of the facility and is in the process of making recommendations. We granted an extension to Tessler & Weiss with the understanding that compliance would be achieved in an expeditious manner. Currently, re-piping is being performed to allow the isolation of all regulated process wastewater. We are awaiting a report from Killam Associates which will include a new compliance schedule.

D. Violation of Approved Compliance Schedules

This year, six industries were found to violate their approved compliance schedules. We consider a violation to be late submittal of progress reports, not meeting

958870610

deadlines, extension requests, etc. Five of the six industries did achieve compliance during this reporting period.

1. Alcan Powders and Pigments (Union) (40 CFR Part 471): Alcan did achieve compliance on September 16, 1988. Please refer to Section V C.1 for a detailed discussion of Alcan's having achieved compliance status.

2. Electrical Industries Corp. (Murray Hill) (40 CFR Part 433): Electrical Industries was granted compliance status on December 22, 1988. Please refer to Section V C.2 for a discussion of Electrical Industries having achieved compliance status.

3. Harvard Industries, Inc./ESNA Division: (Union) (40 CFR Part 433): Harvard was granted compliance status on July 1, 1988. Please refer to Section V C.3 for a detailed discussion of Harvard's having achieved compliance.

4. Phelps Dodge Copper Products Co. (Elizabeth) (40 CFR Part 468): The compliance status of Phelps Dodge is pending. Please refer to Section VII C.6 for a detailed discussion of Phelps Dodge.

5. Tessler & Weiss, Inc. (Union) (40 CFR Parts 421 and 471): Tessler & Weiss has not achieved compliance. Please refer to Section VII C.8 for a detailed discussion.

6. Turbo Braze Corp. (Union) (40 CFR Part 471): Turbo Braze was granted compliance status on December 21, 1988. Please refer to Section V C.~~4~~5 for a detailed discussion of Turbo Braze's having achieved compliance status.

E. Compliance Schedules to be Requested

At the close of this reporting period we were performing extensive reviews of our problematical industries. At the present time we foresee requesting compliance schedules from four additional industries. A brief description of these four industries follows:

1. Allied Processing Corporation, Union - Allied Processing performs photographic processing. They have a silver recovery unit in place but they do have problems with consistently meeting the Joint Meeting silver limitation of 1.0 mg/l. Eastman Kodak has been involved with Allied Processing in trying to attain our silver limitation. Although Kodak claims that silver from photoprocessing is in a non-toxic form, they do agree that our limitation is achievable with conventional silver recovery techniques. We are considering putting Allied Processing on a compliance schedule during the upcoming reporting year.

958870611

2. Krajack Tank Lines, Roselle Park - Krajack is a trucking company that performs cleaning of its tankers. We have had problems with Krajack meeting the Joint Meeting Regulations for oil/grease and pH. We have performed a tabulation and review of the data and have determined the need to place them on a compliance schedule. It is expected that the request for the compliance schedule will be issued in April with the schedule due sometime in June 1989.

3. OK Towel & Uniform Supply Company, Elizabeth - OK Towel is a commercial laundry specializing in the cleaning of linens and uniforms. OK Towel has been a continual violator of oil & grease and pH. We have performed a tabulation and review of their discharge data and have determined the need to place them under a compliance schedule for both oil & grease and pH. It is expected that OK Towel will be notified of this in April with the compliance schedule due by the end of May, 1989.

4. Standard Uniform Service, Irvington - Standard Uniform is an industrial laundry. The cleaning of shop towels accounts for 20%-25% of their business. Standard Uniform has been a consistent violator of the Joint Meeting Regulations for oil and grease. We have performed a tabulation and review of their discharge data and have determined the need to place them under a compliance schedule for both oil/grease and pH. It is expected that Standard Uniform will be notified of this in April with the compliance schedule due by the end of May 1989.

958870612

F. Continuing Cases/Initiated Cases/Resolved Cases

Summary sheet AR-8 indicates that twenty-nine (29) cases were continued this year. "Continuing cases" has been interpreted to mean those industries which have exhibited frequent problems in meeting their discharge limitations and/or reporting requirements. As AR-8 indicates eighteen cases were resolved during this reporting period.

The following is a breakdown of the continuing cases. A code system is used to identify Continued (C), Initiated (I), and Resolved (R) cases.

1. Continuing and/or Initiated Cases

a. Violations of 40 CFR Part 413, >10,000 gpd

1. Atlantic Metal Products, Hillside (I) - Minor violations for zinc.

b. Violations of 40 CFR Part 414

1. Nuodex, Inc. Elizabeth (I) - Various organics. Under a compliance schedule. Please refer to Section VII C.5 for a detailed discussion of Nuodex.

2. Reichhold Chemicals, Inc., Elizabeth (I) - Various organics. Under a compliance schedule. Please refer to Section VII C.7 for a detailed discussion of Reichhold Chemicals.

c. Violation of 40 CFR Part 421

1. Tessler & Weiss, Inc. Union (C) Copper, Zinc and cyanide. Under a compliance schedule. Refer to Section VII C.8 for a detailed discussion of Tessler & Weiss.

d. Violations of 40 CFR Part 433

1. Electrical Industries Corporation, Murray Hill (CR) - Nickel and cyanide. Compliance status was granted on December 22, 1988. Please refer to Section V C.2 for a detailed discussion of Electrical Industries.

2. Harvard Industries, Inc. ESNA Division, Union (CR) - Cadmium, total cyanide and cyanide amenable to chlorination. Compliance status was granted on July 1, 1988. Please refer to Section V C.3 for a detailed discussion of Harvard Industries.

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e. Violations of 40 CFR Part 468

1. Phelps Dodge Magnet Wire Company (Elizabeth) (C) - Copper and oil/grease. Under a compliance schedule. Please refer to Section VII C.6 for a detailed discussion of Phelps Dodge.

f. Violations of 40 CFR Part 471

1. Alcan Powders & Pigments, Union (IR) - Copper. Granted compliance status on September 16, 1988. Please refer to Section V C.1 for a detailed discussion of Alcan.

2. Tessler & Weiss, Inc. Union (C) - Copper and silver. Under a compliance schedule. Please refer to Section VII C.8 for a detailed discussion of Tessler & Weiss.

3. Turbo Braze Corp., Union (IR) - Cadmium, copper and zinc. Compliance status granted December 21, 1988. Please refer to Section V C.4 for a detailed discussion of Turbo Braze.

g. Violations of Local Limits

1. Allied Processing, Union (C) - Silver. Compliance schedule is expected to be issued. Please refer to Section VII E.1 for a detailed discussion of Allied Processing.
2. Atlantic Metal Products, Hillside (I) - Copper, zinc and pH.
3. Carco, Inc., Elizabeth (IR) - Oil/Grease. Was placed under a compliance schedule this year. Compliance achieved July 5, 1988. Please refer to Section VII C.2 for a detailed discussion of Carco.
4. Culligan Water Conditioning, Union (C)-pH.
5. Exact Anodizing Company, Elizabeth (C)-pH.
6. Fablok Mills, Murray Hill (C)-Oil/Grease.
7. Garcia Laundry, Elizabeth (C) - pH.
8. Jersey Pride Foods, Elizabeth (C) - pH.
9. Kalipharma, Inc. (C) - Copper, oil/grease.
10. Krajack Tank Lines, Roselle Park (C) - oil/grease, pH. Compliance schedule is expected to be issued. Please refer to Section VII E.2 for a detailed discussion of Krajack.
11. MSB Industries (a.k.a. Diamonique) (I) - Copper, pH. Considering relocating to Pennsylvania.

958870614

12. Nuodex, Inc. (IR) - Oil/grease. Has been in compliance since September, 1988.
13. OK Towel & Uniform Supply Company (C) - Oil/grease, pH. Compliance schedule is expected to be requested. Please refer to Section VII E.3 for a detailed discussion of OK Towel.
14. Papetti's Hygrade Egg Company, Elizabeth (C) - pH.
15. Pharmacaps, Elizabeth (C) - pH.
16. Phelps Dodge Magnet Wire Company, Elizabeth (I) - Copper. Under a compliance schedule. Please refer to Section VII C.6 for a detailed discussion of Phelps Dodge.
17. Reichhold Chemicals, Inc. (I) - Spills. Please refer to Section VII C.7 for a detailed discussion of Reichhold Chemicals
18. Silsonix, Inc., Irvington (C) - Cadmium, silver, pH. Has relocated to Pennsylvania. Laboratory results of effluent samples is pending. Please refer to Section VII B for a detailed discussion of Silsonix.
19. Sketchley Health Care, Irvington (I) - Oil/grease.
20. Standard Uniform Services, Irvington (C) - Oil/grease, pH. Compliance schedule is expected to be requested. Please refer to Section VII E.4 for a detailed discussion of Standard Uniform.
21. Tuscan Dairy, Union (C) - pH.

2. Resolved Cases

The following twelve industries were listed as continuing cases in last year's Annual Report. The cases were resolved during the early part of this reporting period.

a. AT&T Bell Labs, Murray Hill
b. E.C.D., Hillside
c. Ferro Corporation, Union
d. Gleason Cleaners, Maplewood
e. Max Marx Color Company, Irvington
f. McCain Citrus, Hillside
g. Photica Corporation, Irvington
h. SS Studios, Union
i. Teledyne Adams, Union
j. Transtechnology Corporation Breeze Eastern, Union
k. Union Steel, Union
l. Universal Chain, Maplewood

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G. Public Notice of Violators

A list of significant violators of the applicable pretreatment standards is scheduled for three days of publication in the Star Ledger and Daily Journal. This list is enclosed at the end of this report section (Figure 1).

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SUMMARY OF VIOLATIONS OF LOCAL, STATE, AND FEDERAL PRETREATMENT REGULATIONS

POTW Treatment Plant: Joint Meeting of Essex and Union Counties

TYPE OF VIOLATION	Number of Users with Violations	
	This Reporting Period	Last Reporting Period
Limit Violation		
- Local	46	47
- State/Federal	13	22
Reporting Violation	6	23
Compliance Schedule Violation	6	4
Spill/Emergency	1	0

COMMENTS: Tabular Breakdown of number of violations by parameter

Parameter	Local This Year	Local Last Year	Federal/State This Year	Federal/State Last Year
pH	114	164	5	29
Oil & Grease	48	19	4	1
Cyanide	10	13	13	24
Metals	74	101	23	29
Other	1	2	1	4
	247	299	46	87

AR-8

SUMMARY OF POTW COMPLIANCE ACTIONS

POTW Treatment Plant: Joint Meeting of Essex & Union Counties

TYPE OF ACTION	Number of POTW Actions to Obtain Compliance			
	This Reporting Period		Last Reporting Period	
1. Administrative				
a. Notice of Violation (or equivalent)	114 99	Verbal Written	135 133	Written Verbal
b. Issuance of Compliance Schedule	8		3	
c. IU Permit/Agreement Modification	5		41	
d. IU Permit/Agreement Revocation	1		0	
e. Other (describe)	0		2	
2. Legal/Judicial				
a. Show Cause Hearing (includes Orders issued)	1		1	
b. Fines	0		0	
c. Injunction	0		0	
d. Civil Penalty	0		0 2	JM NJPIRG
e. Other (describe) Reichhold (See Text)	1		0	

a. Total Cases Continued:		29
b. Total Cases Initiated:		11
c. Total Cases This Period:	(a+b)	40
d. Total Cases Resolved:		18
e. Total Cases Outstanding:	(c-d)	22

Note: A case may involve several of the above actions.

COMMENTS: See narrative for discussion of continuing and initiated cases.

958870618

Figure 1

PUBLIC NOTICE

The Joint Meeting of Essex and Union Counties (Joint Meeting) Industrial Pretreatment Program was approved by the New Jersey Department of Environmental Protection on February 4, 1985. That program is intended to (1) prevent the discharge of pollutants that will pass through the treatment plant or will interfere with the treatment process (2) prevent contamination of the treatment plant sludge and (3) encourage reuse and recycling of industrial materials. The Joint Meeting Industrial Pretreatment Program oversees and regulates the discharges of eighty-five (85) industrial users, thirty-seven (37) of which are subject to Federal Categorical Discharge Standards.

Pursuant to Federal Regulation 40 CFR 403.8(f) (2) (vii), Joint Meeting is required to keep the public informed of all cases of significant violation as defined in that regulation. During the twelve month period ending February 28, 1988, the following users significantly violated applicable Pretreatment Standards, other Pretreatment Requirements or Joint Meeting Discharge Standards:

CITY OF ELIZABETH

Exact Anodizing:	pH
OK Towel & Uniform Supply Co:	Oil & Grease
Phelps Dodge Magnet Wire Co:	Copper
Reichhold Chemicals, Inc.:	Spills

TOWNSHIP OF IRVINGTON

Silsonix, Inc. (aka Siltex):	Silver
Standard Uniform Service:	Oil & Grease

MURRAY HILL

Fablock Mills, Inc.:	Oil & Grease

BORO OF ROSELLE PARK

Krajack Tank Lines, Inc.:	Oil & Grease

TOWNSHIP OF UNION

Allied Processing Corp.:	Silver
T & W Setting Co.:	Copper

VIII. PROGRAM EVALUATION

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VIII. PROGRAM EVALUATION

This year the industrial pretreatment program has continued making strides towards ensuring that industries were either in compliance or making genuine efforts towards achieving compliance. This effort was rewarded by having five industries achieve compliance this year.

A. Program Components

1. Legal Authority: The adoption of the Joint Meeting Rules and Regulations by three member towns (Newark, Hillside, and Roselle Park) and the City of Elizabeth, a customer, is still pending.

2. Finance: The pretreatment program is financed from the operation and maintenance of the Joint Meeting treatment works. There is no specific line item in the budget allocated for the pretreatment program.

The monies generated from the Non-Domestic Wastewater Discharge administration fees and the commercial sampling and analysis program have been deposited in a special bank account. This revenue is to be used for the purchase of capital equipment for the program.

The Joint Meeting has not experienced any problems in financing the pretreatment program.

B. Problems

The Joint Meeting initiated an industrial pretreatment program in 1979. As such, the industries have been acquainted with our procedures and requirements for a number of years. Previous reports have indicated that problems existed with the submittal of timely and complete reports. This problem has greatly diminished. The Joint Meeting has a policy of notifying industries approximately one month in advance of when a report is due, effective dates, etc. This notification procedure, coupled with the industries having become very familiar with our reporting regulations, may be responsible for this decrease in reporting violations.

The previously reported problem of questionable data has also diminished. In the past, data submitted by several commercial laboratories was being rejected for exceedance of holding times, improper sample documentation, etc. However, it's been gratifying to see that two of the commercial laboratories (Townley Research and Consulting, and Garden State Laboratories) have been submitting data that is fully documented.

There have been no outstanding problems encountered this year.

958870621

C. Program Modifications

This reporting year saw numerous changes in our Pretreatment Department. We made personnel changes and additions, purchased two new vehicles, and also purchased a software package designed specifically for Pretreatment. A discussion of each of these changes follows:

1. Personnel: During this reporting year several personnel changes occurred in the administrative area of our Department. The Industrial Laboratory is now directly supervised by the Laboratory Manager, Ms. Michelle Vodopia. In the past the Program Coordinator, Ms. Cathy Pullizzi, supervised the Industrial Laboratory. This change has allowed for more flexibility in laboratory personnel assignments and has enabled Ms. Pullizzi to attend solely to administrative matters. We have hired an additional staff member to assist in the administrative area of the Pretreatment Department. This position, Pretreatment Officer, has been filled by Mr. Jeff Javadi. Mr. Javadi will be responsible for performing inspections and reviewing self-monitoring reports.

2. Vehicles: The Pretreatment Department purchased two new vehicles this past year. A full-size van was obtained in May and is used exclusively by our sampling personnel. A 1989 Plymouth Caravan was purchased in March of 1989 for the administrative section of the Pretreatment Department.

3. Software: In November, 1988, we purchased "Pretreatment Program Manager". This software was developed by MicroScope Software Services. We had reviewed several pretreatment software packages including the USEPA's PCME and Macola's Operator 10. We found that MicroScope's package was intensive yet user-friendly and could be customized to fit our specific needs.

D. Toxicity Reduction Evaluation Plan

Attached as Appendix A of this Report are the Toxicity Reduction Evaluation Quarterly Reports (Nos. 1-4). A summary of the important items of the quarterly reports follows:

1. Background

The effluent from the Joint Meeting treatment plant has exhibited evidence of toxicity to certain aquatic organisms. Due to this toxicity, the NJ DEP mandated that a Toxicity Reduction Evaluation Plan (TRE) be implemented. The purpose of this TRE is to determine the cause of our effluent toxicity, to identify the source(s) responsible for this toxicity, and finally, to reduce the toxic substance(s) to levels where the bioassays exhibit nominal toxicity.

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2. Awarding of TRE Phase I Contract

On June 16, 1988 the contract to perform Phase I Toxicity Characterization Studies was awarded to EA Engineering, Science and Technology, Inc. of Sparks, Maryland.

3. Fractionation Studies

We expanded our original sampling proposal so that a full 12-month study would be performed. Sampling for the fractionation studies commenced in September 1988. Sampling is performed twice per month at two week intervals. The Joint Meeting effluent samples are fractionated using the toxics identification method developed by Mount and Anderson-Carnahan.

4. Species Correlation Study

A species correlation study was performed on effluent samples taken during a three week period in July 1988. The study consisted of three sets of side-by-side static-renewal acute toxicity tests using *Ceriodaphnia dubis* (water flea) and *Mysidopsis bahia* (opossum shrimp) as the test species. The objective of the study was to determine if there was a correlation in the sensitivities of *C. dubia* and *M. bahia* to our effluent. EA determined that the two species exhibited very similar sensitivity to the Joint Meeting effluent. *C. dubia* was selected as the test organism for the effluent fractionation studies since the use of this species does not require modification of the effluent prior to testing.

5. Fractionation Results

a. The results of samples taken August 1988 through December 1988 indicate that the Joint Meeting effluent is not extremely variable nor highly toxic. The effluent toxicity to *C. dubia* was consistently low with 10 of 15 of the 48-hour screening test LC50 valves >70 percent effluent. The LC50's ranged from 61.2% effluent (12/8/88) to nontoxic (9/24/88). The 48-hour LC50's averaged 73.0% with a standard deviation of only 8.9%.

b. The fractionation treatment most effective in reducing effluent toxicity has been ammonia stripping.

c. A certain amount of the overall whole effluent toxicity is short-lived and is lost during short-term refrigerated storage.

d. Aeration is not effective in reducing the toxicity of the Joint Meeting effluent.

958870623

e. Filtration removed a portion of whole effluent toxicity for three of the fifteen days.

f. Toxicity was removed prior to C18 column treatment for twelve of th fifteen samples.

6. Remedial Action

The Joint Meeting had one known contributor of ammonia-based waste (Sutton Laboratories). Sutton trucked in one 5,000 gallon load per week of cosmetic waste. The Joint Meeting notified Sutton that the waste was unacceptable. Sutton's Non-Domestic Wastewater Discharge Permit was rescinded on February 28, 1989.

7. Continuation of Phase I, TRE

Although it seems fairly certain that ammonia is the cause of effluent toxicity, the bi-weekly sampling will be continued in order to cover the one-year time span to allow for seasonal variations.

E. Accomplishments

As previous Annual Reports have discussed, the non-conventional pollutant loadings to our treatment plant have been significantly reduced since the inception of our pretreatment program in 1979. These metals are still showing slight decreases.

This year we saw seven industries achieve compliance via their compliance schedules. To date, our efforts have been geared towards getting the Categorical industries in compliance with their Standards and/or the Joint Meeting Regulations. We feel that we have achieved that goal and are now directing our efforts towards other areas. We have performed intensive oil/grease sampling at numerous industries in order to identify oil/grease contributors. As discussed in this Report, two major contributors of oil/grease (Carco and Nuodex) have drastically reduced the oil/grease in their effluents and have demonstrated consistent compliance with the Joint Meeting Regulations for oil/grease. We plan to issue compliance schedules to three oil/grease contributors (Krajack Tank Lines, OK Towel, and Standard Uniform) during the months of May and June 1989. In addition, we plan to issue a Compliance Schedule to Allied Processing. Allied Processing has had consistent problems meeting the Joint Meeting Regulations for silver. The proposed compliance schedule was discussed in Section VII E.

This year we were successful in tracking down the source of various odors and spills. The culprits (Carco, Nuodex and Reichhold), were discussed in Sections VII C.2 (Carco), VII C.5 (Nuodex) and VII C.7 (Reichhold).

958870624

The Toxicity Reduction Evaluation study was undertaken this year. Through intensive fractionation sampling, ammonia has been identified as the major cause of effluent toxicity. This study was discussed in detail in Section VIII D.

As previously discussed, our Pretreatment Department added a staff member in the administration area and purchased two new vehicles for the Department's use. In addition, a software package was purchased to aid in data management and tracking.

We feel that this has been a successful and productive (albeit hectic) year and hope that the next year follows suit.

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APPENDIX B

PRIORITY POLLUTANT
ANALYSIS

1988/1989

REPORTING YEAR

958870626

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT
nytest environmental inc.

Project No.: 88-14295 (A)

P.O. No.: Pending

Date: July 12, 1988

ANALYTICAL DATA REPORT PACKAGE
FOR

Joint Meeting - Essex/Union County

500 South First Street

Elizabeth, NJ 07202

Attn: Mr. M Brinker
Ref: Elizabeth

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
EFF 6/21	N8-7992	Water	6/21/88
INF 6/21	N8-7993	Water	6/21/88

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

DOUGLAS SHEELEY
LABARATORY DIRECTOR

ms

WE CERTIFY THAT THIS REPORT IS A TRUE REPORT OF RESULTS OBTAINED FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

REMO GIGANTE
EXECUTIVE V.P.

NJ CERT #73469

ak

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

958870627

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: EFF 6/21

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N8-7992
Sample Matrix: Water
Data Release Authorized By:

QC Report No:
Project No: 88-14295
Date Sample Received: 6/22/88

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/27/88
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	19.0 B
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	4.0 J
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	5.0 U
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	5.0 U
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	10.0 U
127-18-4	Tetrachloroethene	5.0 U
108-88-3	Toluene	5.0 U
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	5.0 U
100-42-5	Styrene	5.0 U
—	Total Xylenes	5.0 U
	Total Dichlorobenzene	30.0 U

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

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958870628

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: EFF 6/21

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 88-14295

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 6/30/88
Date Analyzed: 7/06/88
Conc/Dil Factor: 1
Percent Moisture (decented):

GPC Cleanup__Yes _x_ No
Separatory Funnel Extraction _x_ Yes
Continuous Liquid-liquid Extraction __Yes

CAS Number		ug/l or ug/Kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3.00

958870629 000010

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: INF 6/21

Contractor: NYTEST ENVIRONMENTAL INC.
Lab Sample ID No: N8-7993
Sample Matrix: Water
Data Release Authorized By:

QC Report No:
Project No: 88-14295
Date Sample Received: 6/22/88

VOLATILE COMPOUNDS

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: NA
Date Analyzed: 6/27/88
Conc/Dil Factor: 1 pH:
Percent Moisture: NA
Percent Moisture (Decanted): NA

CAS Number		ug/l or ug/Kg (Circle One)
74-87-3	Chloromethane	10.0 U
74-83-9	Bromomethane	10.0 U
75-01-4	Vinyl Chloride	10.0 U
75-00-3	Chloroethane	10.0 U
75-09-2	Methylene Chloride	100.0 B
67-64-1	Acetone	10.0 U
75-15-0	Carbon Disulfide	5.0 U
75-35-4	1,1-Dichloroethene	5.0 U
75-34-3	1,1-Dichloroethane	5.0 U
156-60-5	Trans-1,2-Dichloroethene	5.0 U
67-66-3	Chloroform	15.0
107-06-2	1,2-Dichloroethane	5.0 U
78-93-3	2-Butanone	10.0 U
71-55-6	1,1,1-Trichloroethane	2.0 J
56-23-5	Carbon Tetrachloride	5.0 U
108-05-4	Vinyl Acetate	10.0 U
75-27-4	Bromodichloromethane	5.0 U

CAS Number		ug/l or ug/Kg (Circle One)
79-34-5	1,1,2,2-Tetrachloroethane	5.0 U
78-87-5	1,2-Dichloropropane	5.0 U
10061-02-6	Trans-1,3-Dichloropropene	5.0 U
79-01-6	Trichloroethene	6.0
124-48-1	Dibromochloromethane	5.0 U
79-00-5	1,1,2-Trichloroethane	5.0 U
71-43-2	Benzene	5.0 U
10061-01-5	cis-1,3-Dichloropropene	5.0 U
110-75-8	2-Chloroethylvinylether	10.0 U
75-25-2	Bromoform	5.0 U
591-78-6	2-Hexanone	10.0 U
108-10-1	4-Methyl-2-Pentanone	110.0
127-18-4	Tetrachloroethene	10.0
108-88-3	Toluene	45.0
108-90-7	Chlorobenzene	5.0 U
100-41-4	Ethylbenzene	3.0 J
100-42-5	Styrene	5.0 U
—	Total Xylenes	10.0
	Total Dichlorobenzene	30.0 U

For reporting results to EPA, the following results qualifiers are used. Additional flags or footnotes explaining results are encouraged. However, the definition of each flag must be explicit.

VALUE If the result is a value greater than or equal to the detection limit, report the value.

U Indicates compound was analyzed for but not detected. Report the minimum detection limit for the sample with the U (e.g. 10U B based on necessary concentration dilution actions. (This is not necessarily the instrument detection limit.) The footnote should read U-Compound was analyzed for but not detected. The number is the minimum attainable detection limit for the sample.

J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1 1 response is assumed or when the mass spectral data indicates the presence of a compound that meets the identification criteria but the result is less than the specified detection limit but greater than zero (e.g. 10J).

C This flag applies to pesticide parameters where the identification has been confirmed by GC/MS Single component pesticides greater than or equal to 10 ng/ul in the final extract should be confirmed by GC/MS.

B This flag is used when the analyte is found in the blank as well as a sample. It indicates possible/probable blank contamination and warns the data user to take appropriate action.

OTHOther specific flags and footnotes may be required to properly define the results. If used, they must be fully described and such description attached to the data summary report.

ORGANIC ANALYSIS DATA SHEET

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 88-14295

SAMPLE NO: INF 5/21

SEMIVOLATILE COMPOUNDS

Concentration: (Low) Medium (Circle One)
Date Extracted/Prepared: 6/27/88
Date Analysed: 7/08/88
Conc/Dil Factor: 1
Percent Moisture(Decented): NA

GPC Cleanup: __ Yes _x_ No
Separatory Funnel Extraction: _x_ Yes
Continuous Liquid-Liquid Extraction: __ Yes

CAS Number		(ug/l) or ug/Kg (Circle One)
62-75-9	N-Nitrosodimethylamine	10.0 U
108-95-2	Phenol	29.0
62-53-3	Aniline	10.0 U
111-44-4	bis(-2-Chloroethyl)Ether	10.0 U
95-57-8	2-Chlorophenol	10.0 U
541-73-1	1,3-Dichlorobenzene	3.0 J
106-46-7	1,4-Dichlorobenzene	10.0 U
100-51-6	Benzyl Alcohol	19.0
95-50-1	1,2-Dichlorobenzene	8.0 J
95-48-7	2-Methylphenol	10.0 U
39638-32-9	bis(2-chloroisopropyl)Ether	10.0 U
106-44-5	4-Methylphenol	21.0
621-64-7	N-Nitroso-Di-n-Propylamine	10.0 U
67-72-1	Hexachloroethane	10.0 U
98-95-3	Nitrobenzene	10.0 U
78-59-1	Isophorone	10.0 U
88-75-5	2-Nitrophenol	10.0 U
105-67-9	2,4-Dimethylphenol	10.0 U
65-85-0	Benzoic Acid	50.0 U
111-91-1	bis(-2-Chloroethoxy)Methane	10.0 U
120-83-2	2,4-Dichlorophenol	10.0 U
120-82-1	1,2,4-Trichlorobenzene	10.0 U
91-20-3	Naphthalene	4.0 J
106-47-8	4-Chloroaniline	10.0 U
87-68-3	Hexachlorobutadiene	10.0 U
59-50-7	4-Chloro-3-Methylphenol	1.0 J
91-57-6	2-Methylnaphthalene	5.0 J
77-47-4	Hexachlorocyclopentadiene	10.0 U
88-06-2	2,4,6-Trichlorophenol	10.0 U
95-95-4	2,4,5-Trichlorophenol	50.0 U
91-58-7	2-Chloronaphthalene	10.0 U
88-74-4	2-Nitroaniline	50.0 U
131-11-3	Dimethyl Phthalate	10.0 U
208-96-8	Acenaphthylene	10.0 U
99-09-2	3-Nitroaniline	50.0 U

CAS Number		(ug/l) or ug/Kg (Circle One)
83-32-9	Acenaphthene	10.0 U
51-28-5	2,4-Dinitrophenol	50.0 U
100-02-7	4-Nitrophenol	50.0 U
132-64-9	Dibenzofuran	10.0 U
121-14-2	2,4-Dinitrotoluene	10.0 U
606-20-2	2,6-Dinitrotoluene	10.0 U
84-66-2	Diethylphthalate	17.0 B
7005-72-3	4-Chlorophenyl-phenylether	10.0 U
86-73-7	Fluorene	10.0 U
100-01-6	4-Nitroaniline	50.0 U
534-52-1	4,6-Dinitro-2-Methylphenol	50.0 U
86-30-6	N-Nitrosodiphenylamine (1)	10.0 U
101-55-3	4-Bromophenyl-phenylether	10.0 U
118-74-1	Hexachlorobenzene	10.0 U
87-86-5	Pentachlorophenol	50.0 U
85-01-8	Phenanthrene	2.0 J
120-12-7	Anthracene	10.0 U
84-74-2	Di-n-Butylphthalate	10.0 U
206-44-0	Fluoranthene	10.0 U
92-87-5	Benzidine	80.0 U
129-00-0	Pyrene	10.0 U
85-68-7	Butylbenzylphthalate	4.0 J
91-94-1	3,3'-Dichlorobenzidine	20.0 U
56-55-3	Benzo(a)Anthracene	10.0 U
117-81-7	bis(2-Ethylhexyl)Phthalate	34.0 B
218-01-9	Chrysene	10.0 U
117-84-0	Di-n-Octyl Phthalate	10.0 U
205-99-2	Benzo(b)Fluoranthene	10.0 U
207-08-9	Benzo(k)Fluoranthene	10.0 U
50-32-8	Benzo(a)Pyrene	10.0 U
193-39-5	Indeno(1,2,3-cd)Pyrene	10.0 U
53-70-3	Dibenz(a,h)Anthracene	10.0 U
191-24-2	Benzo(g,h,i)Perylene	10.0 U
	Dioxin	ND

(1) - Cannot be seperated from diphenylamine

958870631

ORGANICS ANALYSIS DATA SHEET

SAMPLE NUMBER: INF 6/21

Contractor: NYTEST ENVIRONMENTAL INC.
Project No: 88-14295

PESTICIDE/PCBs

Concentration: Low Medium (Circle One)
Date Extracted/Prepared: 6/30/88
Date Analyzed: 7/06/88
Conc/Dil Factor: 1
Percent Moisture (decanted):

GPC Cleanup__Yes _x_ No
Separatory Funnel Extraction _x_ Yes
Continuous Liquid-liquid Extraction __Yes

CAS Number		ug/l or ug/kg (Circle One)
319-84-6	Alpha-BHC	0.05 U
319-85-7	Beta-BHC	0.05 U
319-86-8	Delta-BHC	0.05 U
58-89-9	Gamma-BHC (Lindane)	0.05 U
76-44-8	Heptachlor	0.05 U
309-00-2	Aldrin	0.05 U
1024-57-3	Heptachlor Epoxide	0.05 U
959-98-8	Endosulfan I	0.05 U
60-57-1	Dieldrin	0.10 U
72-55-9	4,4'-DDE	0.10 U
72-20-8	Endrin	0.10 U
33213-65-9	Endosulfan II	0.10 U
72-54-8	4,4'-DDD	0.10 U
1031-07-8	Endosulfan Sulphate	0.10 U
50-29-3	4,4'-DDT	0.10 U
53494-70-5	Endrin Ketone	0.10 U
72-43-5	Methoxychlor	0.50 U
57-74-9	Chlordane	0.50 U
8001-35-2	Toxaphene	1.00 U
12674-11-2	Aroclor-1016	0.50 U
11104-28-2	Aroclor-1221	0.50 U
11141-16-5	Aroclor-1232	0.50 U
53469-21-9	Aroclor-1242	0.50 U
12672-29-6	Aroclor-1248	0.50 U
11097-69-1	Aroclor-1254	1.00 U
11096-82-5	Aroclor-1260	1.00 U

Vi = Volume of extract injected (ul)

Vs = Volume of water extracted (ml)

Ws = Weight of sample extracted (g)

Vt = Volume of total extract (ul)

Vs 1000 or Ws _____ Vt 10000 Vi 3.00

958870632

SURROGATE PERCENT RECOVERY SUMMARY

Contract Laboratory:NYTEST ENVIRONMENTAL INC.
Low: Medium:

Project No: 88-14295

	[VOLATILE			][SEMI-VOLATILE								][PESTICIDES
SMO TRAFFIC NO.	TOLUENE-D8 (75-130)	BFB (75-130)	1,2 DICHLORO-ETHANE-D4 (75-130)	NITRO-BENZENE-D5 (10-150)	2-FLUORO-BIPHENYL (10-150)	TERPHENYL-D14 (10-150)			PHENOL-D5 (10-150)	2-FLUORO-PHENOL (10-150)	2,4,6 TRIBROMO-PHENOL (10-150)	** DIBUTYL-CHLORENDATE (10-160)
Method Blank	85	91	83	44	51	74			23	32	85	14
EFF 6/21	98	88	101	42	57	65			28	36	84	15
INF 6/21	91	83	86	62	76	57			21	41	127	60

000017

* VALUES ARE OUTSIDE OF CONTRACT REQUIRED QC LIMITS
** ADVISORY LIMITS ONLY

Volatiles:	0 out of 12	; outside of QC limits
Semi-Volatiles	0 out of 18	; outside of QC limits
Pesticides:	0 out of 3	; outside of QC limits

958870633

Comments:

METHOD BLANK SUMMARY

Contractor:NYTEST ENVIRONMENTAL INC.

Project No: 88-14295

FILE ID	DATE OF ANALYSIS	FRACTION	MATRIX	CONC. LEVEL	INST. ID	CAS NUMBER	COMPOUND (HSL.TIC OR UNKNOWN)	CONC.	UNITS	CRDL
D4533	6/27/88	VOA	Water	Low	D	67-64-1	Acetone	6	ug/l	10
						75-09-2	Methylene Chloride	1	ug/l	5
B4536	7/08/88	BNA	Water	Low	B	84-66-2	Diethylphthalate	2	ug/l	10
						117-81-7	Bis (2 Ethylhexyl) Phthalate	18	ug/l	10
Method Blank	7/06/88	PEST	Water	Low	550-2		No Compounds Found			

Comments:

958870634

TOTAL ANALYTICAL SERVICES FOR A SAFE ENVIRONMENT
nytest environmental inc.

Project No.: 88-14295 (A)

P.O. No.: Pending

Date: July 12, 1988

INORGANICS

ANALYTICAL DATA REPORT PACKAGE
FOR

Joint Meeting - Essex/Union County

500 South First Street

Elizabeth, NJ 07202

Attn: Mr. M Brinker
Ref: Elizabeth

SAMPLE IDENTIFICATION	LABORATORY NUMBER	TYPE OF SAMPLE	DATE AND TIME OF SAMPLE COLLECTION
EFF 6/21	N8-7992	Water	6/21/88
INF 6/21	N8-7993	Water	6/21/88

REPORT PREPARED BY:
PARAG K. SHAH, Ph. D.
ORGANIC LAB. MANAGER

DOUGLAS SHEELEY D. Sheely
LABARATORY DIRECTOR

WE CERTIFY THAT THIS REPORT IS A TRUE REPORT OF RESULTS OBTAINED FROM OUR TESTS OF THIS MATERIAL.

RESPECTFULLY SUBMITTED,
NYTEST ENVIRONMENTAL INC.

Remo Gigante

REMO GIGANTE
EXECUTIVE V.P.

NJ Cert # 73469

gh

Report on sample(s) furnished by client applies to sample(s). Report on sample(s) obtained by us applies only to lot sampled. Information contained herein is not to be used for reproduction except by special permission. Sample(s) will be retained for thirty days maximum after date of report unless specifically requested otherwise by client. In the event that there are portions or parts of sample(s) remaining after Nytest has completed the required tests, Nytest shall have the option of returning such sample(s) to the client at the client's expense.

box 1518 □ 60 seaview blvd., port washington, ny 11050 □ (516) 625-5500

Project No: 88-14295

SAMPLE NO: EFF 6/21

METALS AND PHYSICAL CHEMISTRY

PARAMETERS (MG/L)	METHOD NO.	CAS NO.	REPORTING LIMITS	FOUND
CYANIDE, TOTAL	335.2	57-12-5	0.010	0.01
PHENOLS, TOTAL	420.1	—	0.002	0.008
ANTIMONY	204.1	7440-36-0	0.050	ND
ARSENIC	206.2	7440-38-2	0.005	ND
BERYLLIUM	210.1	7440-41-7	0.005	ND
CADMIUM	213.1	7440-43-9	0.002	0.03
CHROMIUM	218.1	7440-47-3	0.010	ND
COPPER	220.1	7550-50-8	0.010	ND
LEAD	239.1	7439-92-1	0.020	ND
MERCURY	245.1	7439-97-6	0.0002	ND
NICKEL	249.1	7440-02-0	0.020	0.03
SELENIUM	270.2	7782-49-2	0.005	ND
SILVER	272.1	7440-22-4	0.010	ND
THALLIUM	279.1	7440-28-0	0.050	ND
ZINC	289.1	7440-66-6	0.005	0.064

ND = NONE DETECTED
BRL = BELOW REPORTING LIMIT

Project No: 88-14295

SAMPLE NO: INF 6/21

METALS AND PHYSICAL CHEMISTRY

PARAMETERS (MG/L)	METHOD NO.	CAS NO.	REPORTING LIMITS	FOUND
CYANIDE, TOTAL	335.2	57-12-5	0.010	0.01
PHENOLS, TOTAL	420.1	—	0.002	0.009
ANTIMONY	204.1	7440-36-0	0.050	ND
ARSENIC	206.2	7440-38-2	0.005	ND
BERYLLIUM	210.1	7440-41-7	0.005	ND
CADMIUM	213.1	7440-43-9	0.002	0.01
CHROMIUM	218.1	7440-47-3	0.010	ND
COPPER	220.1	7550-50-8	0.010	0.050
LEAD	239.1	7439-92-1	0.020	ND
MERCURY	245.1	7439-97-6	0.0002	ND
NICKEL	249.1	7440-02-0	0.020	0.03
SELENIUM	270.2	7782-49-2	0.005	0.007
SILVER	272.1	7440-22-4	0.010	ND
THALLIUM	279.1	7440-28-0	0.050	ND
ZINC	289.1	7440-66-6	0.005	0.254

ND = NONE DETECTED
BRL = BELOW REPORTING LIMIT

Project No: 88-14295

SAMPLE NO: Method Blank

METALS AND PHYSICAL CHEMISTRY

PARAMETERS (MG/L)	METHOD NO.	CAS NO.	REPORTING LIMITS	FOUND
CYANIDE, TOTAL	335.2	57-12-5	0.010	ND
PHENOLS, TOTAL	420.1	—	0.002	ND
ANTIMONY	204.1	7440-36-0	0.050	ND
ARSENIC	206.2	7440-38-2	0.005	ND
BERYLLIUM	210.1	7440-41-7	0.005	ND
CADMIUM	213.1	7440-43-9	0.002	ND
CHROMIUM	218.1	7440-47-3	0.010	ND
COPPER	220.1	7550-50-8	0.010	ND
LEAD	239.1	7439-92-1	0.020	ND
MERCURY	245.1	7439-97-6	0.0002	ND
NICKEL	249.1	7440-02-0	0.020	ND
SELENIUM	270.2	7782-49-2	0.005	ND
SILVER	272.1	7440-22-4	0.010	ND
THALLIUM	279.1	7440-28-0	0.050	ND
ZINC	289.1	7440-66-6	0.005	ND

ND = NONE DETECTED
BRL = BELOW REPORTING LIMIT

APPENDIX B

PRIORITY POLLUTANT
ANALYSIS

1988/1989

REPORTING YEAR

958870639

958870640

THE INTERSTATE SANITATION COMMISSION AND THE CITY OF ELIZABETH

A CASE STUDY IN INTERGOVERNMENTAL ENFORCEMENT

by

John F. Malloy, Jr.

A thesis presented to the faculty of the
Graduate School of Public Administration,
New York University in partial fulfillment
of the requirements for the degree of
Master of Public Administration.

Graduate School of Public Administration
New York University
4 Washington Square
New York 3, New York

June, 1965

BAB000162
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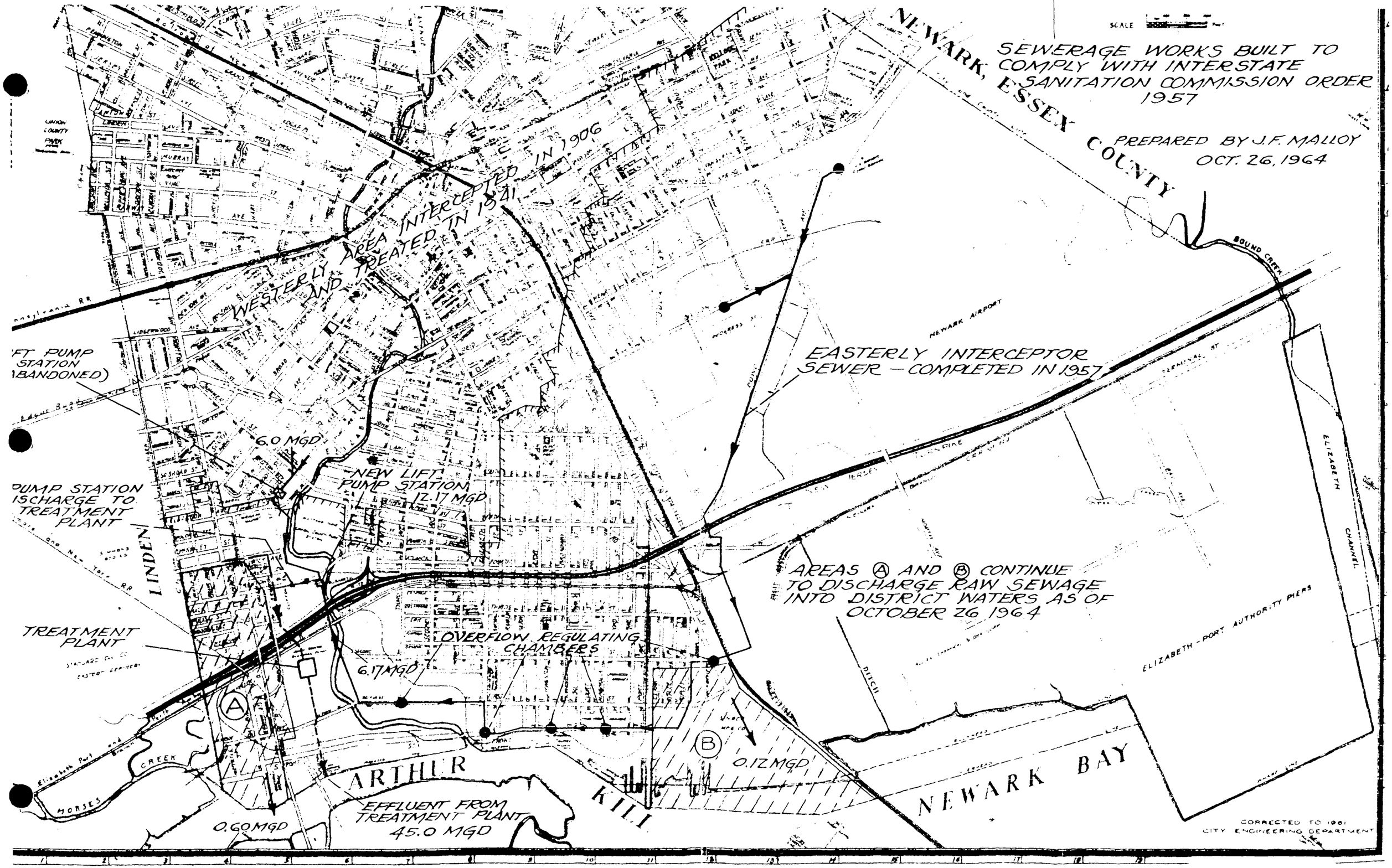
SEWERAGE WORKS BUILT TO COMPLY WITH INTERSTATE SANITATION COMMISSION ORDER 1957
PREPARED BY J.F. MALLOY OCT. 26, 1964
SCALE
NEWARK, ESSEX COUNTY
WESTERLY AREA INTERCEPTED IN 1906 AND TREATED IN 1941
EASTERLY INTERCEPTOR SEWER — COMPLETED IN 1957
NEW LIFT PUMP STATION 12.17 MGD
6.0 MGD
PUMP STATION DISCHARGE TO TREATMENT PLANT
TREATMENT PLANT
OVERFLOW REGULATING CHAMBERS
6.17 MGD
0.12 MGD
0.60 MGD
EFFLUENT FROM TREATMENT PLANT 45.0 MGD
AREAS (A) AND (B) CONTINUE TO DISCHARGE RAW SEWAGE INTO DISTRICT WATERS AS OF OCTOBER 26 1964
LINDEN
ARTHUR KILL
NEWARK BAY
MORSES CREEK
BOUND CREEK
ELIZABETH CHANNEL
ELIZABETH-PORT AUTHORITY PIERS
NEWARK AIRPORT
CORRECTED TO 1961
CITY ENGINEERING DEPARTMENT

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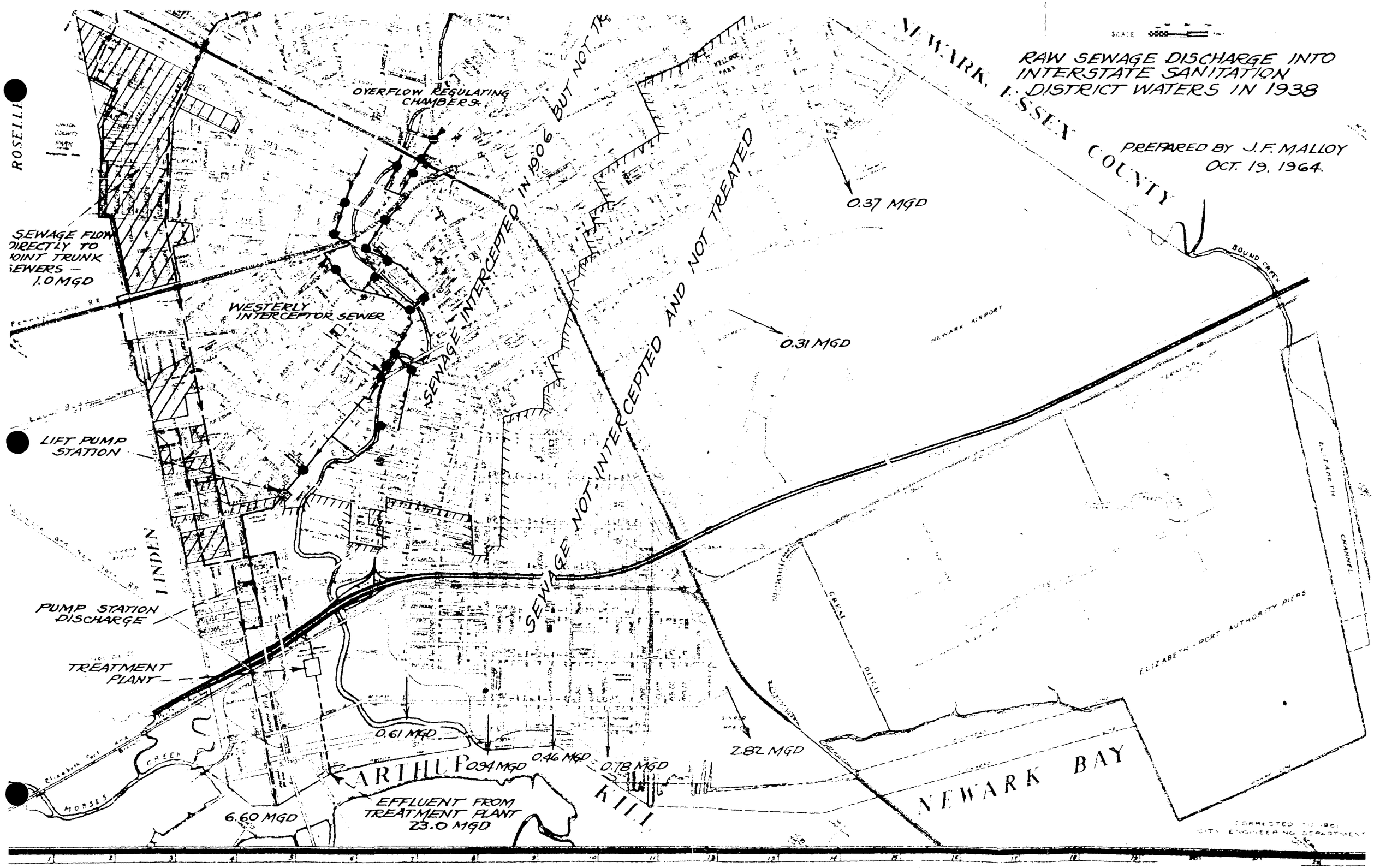
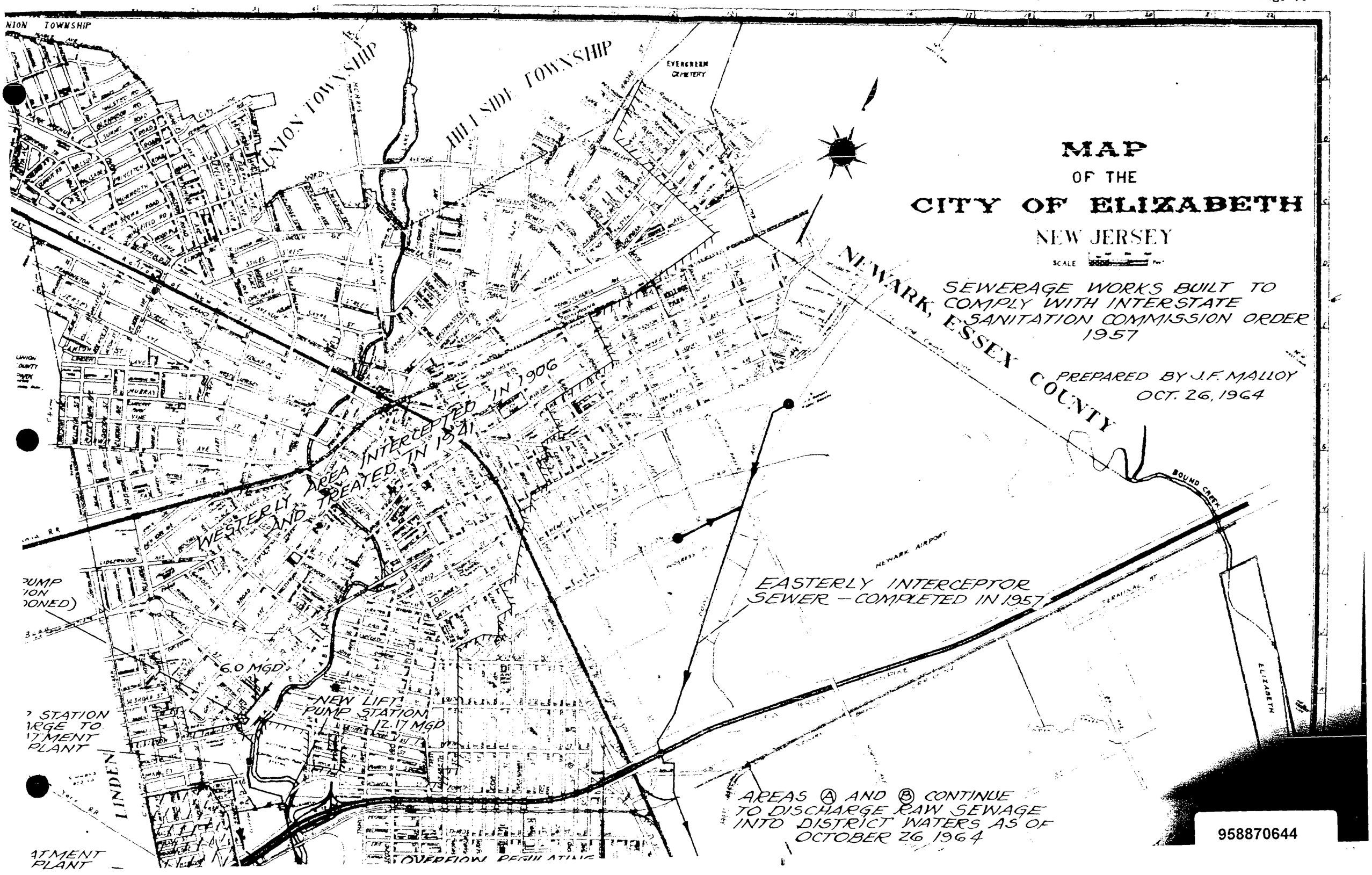

RAW SEWAGE DISCHARGE INTO INTERSTATE SANITATION DISTRICT WATERS IN 1938
PREPARED BY J.F. MALLOY
OCT. 19, 1964.
SCALE
NEWARK, ESSEX COUNTY
ROSELLE
OVERFLOW REGULATING CHAMBERS
SEWAGE INTERCEPTED IN 1906 BUT NOT TREATED
SEWAGE NOT INTERCEPTED AND NOT TREATED
0.37 MGD
0.31 MGD
SEWAGE FLOW DIRECTLY TO JOINT TRUNK SEWERS — 1.0 MGD
WESTERLY INTERCEPTOR SEWER
LIFT PUMP STATION
LINDEN
PUMP STATION DISCHARGE
TREATMENT PLANT
BOUND CREEK
NEWARK AIRPORT
ELIZABETH CHANNEL
GREAT DITCH
ELIZABETH PORT AUTHORITY PIERS
0.61 MGD
0.46 MGD
0.78 MGD
2.82 MGD
ARTHUR KILL
0.94 MGD
EFFLUENT FROM TREATMENT PLANT 23.0 MGD
6.60 MGD
MORSES CREEK
NEWARK BAY
CORRECTED TO 1966
CITY ENGINEER NJ DEPARTMENT

958870643

Fig. 7.



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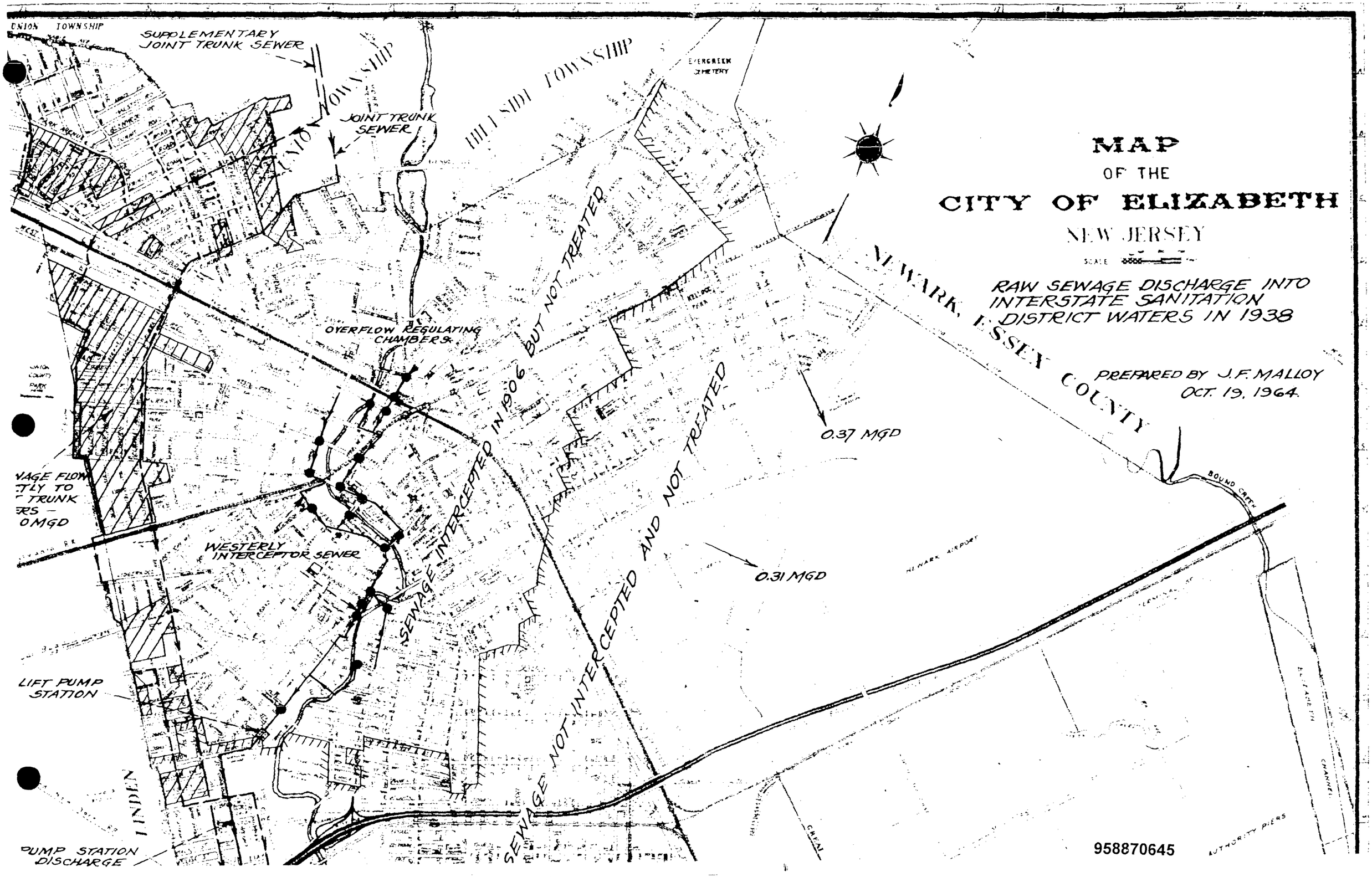
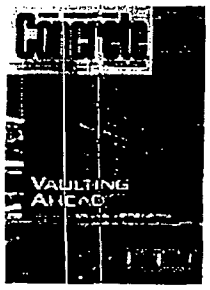

MAP
OF THE
CITY OF ELIZABETH
NEW JERSEY
SCALE
RAW SEWAGE DISCHARGE INTO INTERSTATE SANITATION DISTRICT WATERS IN 1938
PREPARED BY J.F. MALLOY
OCT. 19, 1964.
UNION TOWNSHIP
SUPPLEMENTARY JOINT TRUNK SEWER
JOINT TRUNK SEWER
HILLSIDE TOWNSHIP
EVERGREEN CEMETERY
NEWARK, ESSEX COUNTY
OVERFLOW REGULATING CHAMBERS
SEWAGE INTERCEPTED IN 1906 BUT NOT TREATED
SEWAGE NOT INTERCEPTED AND NOT TREATED
0.37 MGD
0.31 MGD
WESTERLY INTERCEPTOR SEWER
LIFT PUMP STATION
PUMP STATION DISCHARGE
LINDEN
BOUND CREEK
NEWARK AIRPORT
AUTHORITY PIERS
958870645

Concrete PRODUCTS

LIFE'S UNCERTAIN.
STERLING TRUCKS



Manufacturers

Mar 1, 1998 12:00 PM

Chattanooga, Tenn.-based Synthetic Industries recently appointed Charles Ragland as marketing manager, focused on the company's new business program. This program pursues new product developments to create demand and expand industry leadership.

"As new business marketing manager, Mr. Ragland will be charged with supporting the commercialization of these new business opportunities," notes Synthetic Industries' Rick Hingson, vice president of technical services. "He will implement systems to evaluate potential new products and market opportunities for future development."

Ragland was previously employed with Allied Signal Plastics as manager of market development. He earned a bachelor of science degree from the University of North Carolina as well as a master's degree from Case Western Reserve University.

Also at Synthetic Industries, the Fibermesh Division announces the promotion of five new regional managers: Robert Matske, Larry Ianni, Jim Purdy, Ron Manley and James Patterson. Matske is now responsible for the western portion of New York, West Virginia, Pennsylvania and Maryland. Ianni manages Michigan, Ohio, and central and eastern Kentucky. Purdy is now responsible for the northeastern portion of Colorado, parts of Wyoming, Kansas and Missouri, southwestern Dakota, Montana and Nebraska. Manley manages Oklahoma, Arkansas and portions of Kansas and Missouri. Patterson is responsible for Las Vegas, Nevada, Arizona, Texas and western Louisiana.

Additionally, Todd Whitfield has been appointed to a sales position with responsibilities for fiber reinforced concrete products for the Central and Northwest Illinois territory. He will maintain the Fibermesh's current customer bases, as well as expand the market in his territory, by calling on ready-mix operations, architects and engineers.

Synthetic Industries' Construction/Civil Engineering Products Group, which encompasses Fibermesh and geotextile divisions, recently promoted three customer service representatives. Deborah Johnson was promoted to international customer service supervisor for the geosynthetic market; Charissa Cook was promoted to North American customer service supervisor for the geosynthetic market; and Stephanie Elliott was promoted to customer service coordinator for the concrete reinforcement market.

"These promotions are part of the company's integration and expansion of what was formerly two separate customer service groups," notes Janet Anderson, manager of CCE's customer service group. "Now, SI has streamlined service to its customers and is able to provide accurate information on a 'real time' basis."

SI's CCE Group sells a broad line of innovative construction materials, including Fibermesh fibers for concrete reinforcement, Geotex engineered fabrics for separation and stabilization on major earthmoving projects (roadway, landfill and commercial building sites), and Landlok erosion control materials. CCE represents SI's fastest growing business unit.

Compaction America, manufacturer of Bomag and Hypac soil and asphalt

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Industry Experts answer your Questions
Click here to submit a question

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plus equipment business ops and more!

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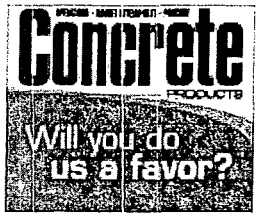

compactors, announces the formation of a new light equipment division with the acquisition of Stow Manufacturing. The new division will be headquartered in Binghamton, N.Y., the present location of Stow Manufacturing. Compaction America will market the light equipment of both Bomag and Stow in North and South America with distribution through its light equipment division.

"The addition of Stow enables United Dominion's Compaction Segment to broaden its product offerings and increase its presence in the light equipment industry," said William R. Holland, chairman and chief executive officer for United Dominion Industries, Compaction America's Charlotte, N.C.-based parent company. Bomag manufactures vibratory tampers, single-direction and reversible plate compactors, trench compactors, single- and double-drum walk-behind vibratory rollers and single-drum and tandem ride-on vibratory rollers. Stow offers a broad line of light equipment for concrete mixing, surface preparation, finishing and cutting, as well as construction pumps and soil and asphalt compactors.

Lafarge Corp., one of North America's leading construction materials companies, is currently discussing plans with Holnam Inc., Dundee, Mich. to acquire its cement plant in Seattle, plus related assets. The plant has an annual production capacity of approximately 420,000 tons of clinker, an intermediary product in the portland cement manufacturing process. Related assets include a limestone quarry on Texada Island, British Columbia, and two cement terminals.

The acquisition would be subject to the execution of a definitive asset purchase agreement as well as due diligence and appropriate regulatory approvals, including a Hart-Scott-Rodino filing with the U.S. Federal Trade Commission.

Allentown Cement has received the Pennsylvania Governor's 1997 Award for Environmental Excellence for its role in recycling 15,000 tons of old tires a year and converting them to clean energy. Governor Tom Ridge presented the award to recognize the pollution prevention and energy efficiency achievements of Pennsylvania companies that have gone beyond simple mandated compliance requirements.

Since Allentown Cement instituted its innovative use of advanced whole-tire technology, the $2-million program has helped to reduce kiln stack emissions, rid the landscape of unsightly stacks and enhance the local business position by saving $360,000 annually in alternative fuel costs, officials report. The program has become a scrap tire energy recycling model for other cement plants around the world.

Following a natural progression in a major name change, Rockwell Wabco Vehicle Control Systems has officially changed its name to Meritor Wabco Vehicle Control Systems. Last fall, Rockwell Automotive became Meritor Automotive, Inc., an independent, standalone company that supplies components and systems to the trucking industry.

Meritor Wabco is the leading North American supplier of anti-lock braking systems (ABS) for heavy-duty trucks, tractors, trailers and buses. The company provides ABS and other vehicle control systems and components to commercial original equipment manufacturers in North America and serves aftermarket customers through its Aftermarket Parts and Services business. In addition to ABS, Meritor Wabco supplies a comprehensive line of vehicle control system products including air compressors, air dryers, control valves, suspension and cab leveling valves and electronic braking systems.

"Changing the name was the right thing for us to do as a company in order to support the launch of Meritor Automotive," said Leonard Buckman, president and general manager. "Even though our name will be different, we will continue to serve the same markets with products that incorporate the latest technology and are backed by the superior customer service and support our customers have come to expect. In addition, we will continue to introduce new advanced systems for the industry, including pioneering the next generation of stopping systems - electronic braking systems."

Meritor Wabco tractor ABS is currently standard equipment at Freightliner, Kenworth, Mack, Peterbilt and Volvo. In addition, it is available as optional equipment at all other major truck/tractor OEMs and at most coach and specialty

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vehicle OEMs. In total, more than 3,500 large, medium and small fleets have specified Meritor Wabco ABS, officials note. Meritor Wabco is a joint venture of Meritor Automotive and the Wabco Automotive Products Group of American Standard Companies.

Also at Meritor, Prakash R. Mulchandani was appointed to the position of president, Heavy Vehicle Systems, reporting directly to Meritor Chairman Larry Y ost. In addition to his new duties, Mulchandani will retain his responsibilities for the HVS Worldwide Truck and Trailer Systems business.

Huls America has changed its name to Creanova Inc. The name change is part of a Global Fitness program whereby Huls AG, headquartered in Germany, will be transformed into a strategic holding company with 12 global operating subsidiaries.

Also at Huls America, the company's silanes and silicones business group, including construction products, will be established as a separate company under the name Sivento Inc. Joseph Fuhrman, currently vice president of the Specialty Chemicals Division at Huls America, has been appointed president and chief executive officer of the new company. The move coincides with the parent company's Global Fitness program creating, along with 11 other subsidiaries, Sivento Chemie GmbH, based in Dusseldorf, Germany, and headed by Dr. Jurgen Olbrich. Sivento Chemie GmbH will have worldwide responsibilities for Huls silicones and silanes businesses. Sivento Inc. will operate these businesses in North America.

Additionally, Huls America has appointed Tom Wickett as marketing manager for the newly created Construction Products business group. He will oversee all the marketing activities that support the sale of Rohalith Mma-based floor coatings and Chem-trete penetrating water repellents.

A.S. Griffin has been named director of sales and marketing by Rafco Products, manufacturer of concrete texturizing and color products. Responsibilities will include overseeing all sales and marketing functions, with emphasis on development and training of an outside sales force.

Separately, Rocco Minichiello has been named California sales representative. Minichiello has been in sales for more than 15 years in southern California, representing Transit-Mixed Concrete, L.J. Davis, Shaw & Company, L.M. Scofield and more recently Q.C. Construction Products.

Rick Thompson has been appointed sales agent for Carson, Calif.-based Multiquip Inc., covering British Columbia.

Daewoo Machinery has merged with Daewoo Equipment to form a new, $350 million organization named Daewoo Heavy Industries America. This new company is responsible for North American sales, service and technical support of all Daewoo machine tools, construction equipment, lift trucks, skid steer loaders and mini excavators. Heung Yun Lee, former president of Daewoo Machinery, has been appointed president and CEO of the new entity. The company's principal shareholder is Daewoo Heavy Industries Ltd., South Korea's largest manufacturing company, with worldwide revenues of $6 billion. Daewoo Heavy Industries is, in turn, a member of the Daewoo Group, a highly diversified conglomerate that is presently ranked 24th on the Fortune 500 list of international industrial organizations.

The new company will be headquartered in Carlstadt, N.J., and maintain offices and technical service centers throughout North America. Its products are sold exclusively through a network of independent North American distributors. Domestic manufacturing facilities will be expanded, allowing production of a greater number and broader variety of heavy industry products.

Frederick Werkmeister has joined Construction Forms, Inc. to develop business in the Caribbean, Mexico, South and Central America for the entire Construction Forms umbrella, including the ConForms, CF Ultra Tech and CF Gilco product lines. As Latin American economies develop their infrastructure, state-of-the-art methods and equipment are needed to effectively position them in the global market, the company notes. With 17 years' experience in managing channels of distribution worldwide, Werkmeister is positioned to maximize sales opportunities for Construction Forms throughout Latin America.

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The Motor & Equipment Manufacturers Association, Japan Auto Parts Industries Association, Automotive Parts Manufacturers' Association of Canada and the American State Offices Association of Japan will host the third U.S.-Japan-Canada Automotive Parts Business Conference (USJAC '98) at the Hy att Regency Hotel in Dearborn, Mich., June 15-17. USJAC '98 will be structured around a series of individually pre-scheduled, company-to-company meetings among as many as 40 second- and third-tier U.S. and Canadian suppliers of automotive original equipment products and 25 to 35 primary Japanese motor vehicle component manufacturers and their North American affiliates.

North American second-tier suppliers are companies that supply parts, tooling/molds/dies, or other intermediate products to manufacturers of component assemblies or modules which, in turn, directly supply motor vehicle assembly plants. Third-tier suppliers are those that supply raw materials, semi-processed materials or parts to second-tier suppliers. First-tier suppliers that also act as second- or third-tier suppliers for some of the products they sell are encouraged to attend this international OE business development event as well.

In a move to combine the benefits of European crane technology with IMT's distributor organization and market application knowledge, IMT has formed an alliance with AutoGru PM Cranes of Modena, Italy.

The new alliance creates the IMT/PM Material Handling crane line that now includes five new models of articulating cranes with capacities from 115,500 to 306,000 ft-lbs. This brings IMT's complete line of articulating cranes to 16 models with ratings from 30,000 to 320,000 ft-lbs.

IMT Vice President Sales and Marketing Mark Whaley notes, "It's important to understand that we will continue to produce and support our existing line of figure-four articulating cranes. We view this alliance as our first step in developing a line of IMT Material Handling Systems."

Adds Richard Long, president and CEO, "After an extensive search throughout Europe for an appropriate alliance partner, we have selected AutoGru PM due in part to their long-term leadership in world markets - supported by competitive lift-to-weight ratios and strong after-sale service.

"The value IMT brings is our application expertise, value-added capabilities, service and our worldwide distributor network focused on providing quality sales. The PM cranes will be integrated into our product line as though they were designed and manufactured by IMT. This manufacturing mindset not only gives us a sense of ownership, but provides customers with an exceptional level of support and commitment to the new line," he concludes.

Many International and Eagle truck customers will receive their new vehicles up to six weeks faster, thanks in part of a comprehensive business process improvement program now being implemented by Navistar International Transportation Corp.

Best known in concrete and construction for its Paystar 5000 vehicles, the Chicago-based company has restructured the entire building process and associated computer systems, from ordering and manufacturing to delivery and aftermarket support. This includes, for the first time, providing on-screen labor, cost and quality information to engineers and shop floor personnel as they build trucks. Known as the Product Structure Project, the program reduces the complexity of the truck-building process by slashing the number of documents required to build vehicles by more than 96 percent. For example, the old system required more than 7.2 million bills of material, which listed all the components required for each truck. The new system uses only 250,000. It also reduces the number of order coding records, which provide engineering details for validating orders for accuracy, from 300,000 to 40,000.

Depending on style and configuration of the truck, this reduction in paperwork and the resulting simplification of the process saves from one day to six weeks between initial order and delivery. The project began more than six years ago as an effort to improve customer service by refining and simplifying business processes. All medium and heavy trucks andall buses are now built under this system.

"Product Structure differs from other systems initiatives because it changes the

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basic information that drives our business," notes Art Data, vice president of the Navistar Information Organization. "We rebuilt the entire process from the ground up, while continuing to build trucks."

The project was implemented in phases, beginning in fall 1994 with the design of all new trucks at the company's Ft. Wayne, Ind., engineering facility. In Spring 1996, the company's heavy truck assembly plant in Chatham, Ont., brought the new computer systems and process online. Changeover for medium trucks was completed in the summer of 1997 when a portion of the Springfield, Ohio, truck facilities implemented the systems. Heavy truck plants went online when the remainder of the Springfield plant completed the changeover in January 1998.

"Navistar is moving in the right direction to better meet customer demands for shorter delivery cycles and quality products," adds Data. "By simplifying our processes and reducing the complexity in our product design, we're able to help our dealers be more responsive to customer needs."

"This system makes our engineering departments accountable for changes to our product documentation, streamlining our continuous improvement process," explains Bob Atkinson, Product Structure program manager. "This, and the fact that we now include labor data as an element of shop floor scheduling, allows us for the first time to give assembly personnel the exact on-screen information they need to build the highest quality truck possible. Not only can we build trucks faster and better, we also have more opportunities for continuous improvement of our processes and our trucks."

The backbone of the system consists of reusable software modules designed by Digital Equipment Corp. and Enterprise Knowledge Systems. Pittsburgh-based H.B. Maynard, a productivity solutions provider, constructed the labor systems to support the new business process. Navistar Information Organization resources were used to interface, modify and replace 55 percent of all the business systems used by the truck business.

Los Angeles-based Davis Colors, a division of Rockwood Industries (a Laporte company), recently celebrated the opening of its new 20,000-sq.-ft. color granules plant at its existing manufacturing site in Beltsville, Md. The new facility is the only plant in North America dedicated solely to the manufacture of color granules for concrete. Opening ceremonies were held on-site and were attended by key customers, company executives, suppliers and Maryland government officials.

"This new facility is distinguished by its uniqueness, capacity and environmental profile," said Ronald Rapaport, president of Rockwood Industries. "We have invested significant resources to ensure that it meets the needs of our customers with adequate supply and that it demonstrates the highest levels of environmental responsibility."

Rockwood Industries invested $7.5 million in the new facility, which will manufacture Granufin free-flowing pigments for use in concrete pavers and block applications. Granufin is the only pigment granule with a binding ingredient that stays intact during transportation and metering and enhances color development when mixed into concrete. The new plant features a 500-cubic-meter spray tower and has an annual capacity of 15,000 tons per year. It employs an advanced, multi-stage emission control system and produces no liquid effluent. After a gradual start-up phase, the facility is expected to be on-line during the first quarter of 1998. At full capacity, the facility will provide 16 new permanent jobs. The company currently employs 150 workers.

The Beltsville manufacturing site dates back to the Colonial period when iron ore was converted to pig iron for use in cannons and cannon balls. In 1938, Mineral Pigments Corp. began manufacturing pigments for paints at the site. The facility was acquired by Rockwood Industries in 1972 and was upgraded and expanded over the years to manufacture color pigments for Davis Colors, Rockwood's construction division.

The new European production plant built to help satisfy growing worldwide demand for Alcoa aluminum truck wheels is now fully operational. Alcoa built the facility in Szekesfehervar, near the Hungarian capital of Budapest.

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The new European plant will free up capacity in the U.S. that is now being used to support overseas markets. Among the advantages the new facility offers European markets are closer wheel production, reduced import and freight charges, more flexible response to customer requirements and shorter delivery time. Wheel distribution for Europe will continue to be handled through the Alcoa logistic center in Belgium. According to Alcoa Wheel Products Europe, delivery in Europe can be assured within two days.

The Hungarian production facility represents an investment of $40 million. Alcoa recently invested $10 million to upgrade the existing forging facility in Cleveland. Also in Cleveland, the company built new light truck wheel automated facilities to take advantage of sophisticated new industrial robotics.

To meet increased foreign and domestic demand, Shuttlelift, a manufacturer of industrial mobile hoists and cranes, recently completed a two-phase expansion project at its Sturgeon Bay, Wis., plant and headquarters. The first phase of the expansion was a factory addition constructed by Keller Structures of Kaukauna, Wis. The building bridged a former parking lot between the company's existing offices and a parts center.

The factory expansion includes three 60- (y) 225-ft. shop bays with six heavy-duty overhead cranes to assemble its 15- to 400-ton capacity mobile hoists and 3300 and 5500 Series Carrydeck industrial cranes. "The new building will help us be more efficient in our operation and provide for additional growth," notes Shuttlelift President Gerald Lamer. The facility will also allow for the assembly of the company's line of Marine Travelift mobile boat hoists and Marine forklifts.

Phase II of the project incorporated space vacated by the previous manufacturing facility. The renovated building nearly doubled available office space and now includes a new Design Engineering area, canteen lunch area, employee and customer training room, along with offices and work stations for general office staff.

Schwing America's newly designed web page at www.schwing.com provides up-to-date information on concrete pumps. Users can find out "what's new" from the manufacturer, click on the "project" area where each Spotlight highlights a concrete pumping job, or find out why contractors around the country attribute their success to Schwing concrete pumps. The site is also a resource for researching the entire Schwing truck and trailer-mounted pump line. Whether users are in the market for a new pump or are looking for specs on a particular machine, the site can provide you with the information. Current Schwing equipment owners can appreciate the service and support area that will answer their questions or direct them to a person who can, the company notes.

Euclid Chemical Co. has opened a new powder mixing facility, nearly tripling its capacity to produce dry concrete and masonry products, the company announced.

"The market has been very strong and we were nearly at our production capacity with the old facility," said Kenneth Korach, president. "There were a lot of factors that went into our decision to build a new plant, but the primary reason was to allow us to better serve our customers with a quality product in a timely manner."

The new plant was a multimillion dollar venture for Euco and its parent companies, RPM Inc. in Medina, Ohio and Holderbank Ltd. in Zurich, Switzerland. The plant has three production lines with capacity for a fourth. It is adjacent to Euco's Redwood Road headquarters complex in Cleveland, where the company houses corporate offices, a research and development facility, warehousing and a liquid additives manufacturing facility.

The plant is fully-automated and computer-controlled, which will reduce labor costs, according to Korach. It has increased bulk storage capacity, allowing for quicker product turnaround and the capability to package products in bulk up to 3,300 pounds.

Twelve silos containing different varieties of sand, fly ash and cement double previous bulk storage capacity. Coupled with automatic bag openers for micro-ingredients, switching production from one item to another is easier, which is particularly important for non-stock items, Korach claims.

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New Diamond Back surge bins, which hold product after it is mixed, are specially designed to maintain mass flow and eliminate segregation, which is a common problem in the industry because of the variety of sizes and densities of raw materials. "This increases product quality and consistency and ensures our customers that we are committed to giving them the highest quality and commitment available in the industry, which has been our number one objective since the company started in the early 1900s," Korach contends.

According to Dave Hudak, director of manufacturing operations, the ability to provide bulk packaging is a valuable service to customers who require products in large quantities, typically for larger repair jobs, because it reduces customer labor. The new plant is equipped to produce bulk bags the same way it packages any other quantity of product, through automation. The plant replaces a Painesville, Ohio, operation. The company has not yet determined how the Painesville facility will be used. "Having the new plant next to our warehouse facility will have a direct impact on our customers," said Korach. "Raw materials and finished products will no longer have to be shipped across town, which will increase operating efficiencies."

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Back to Top

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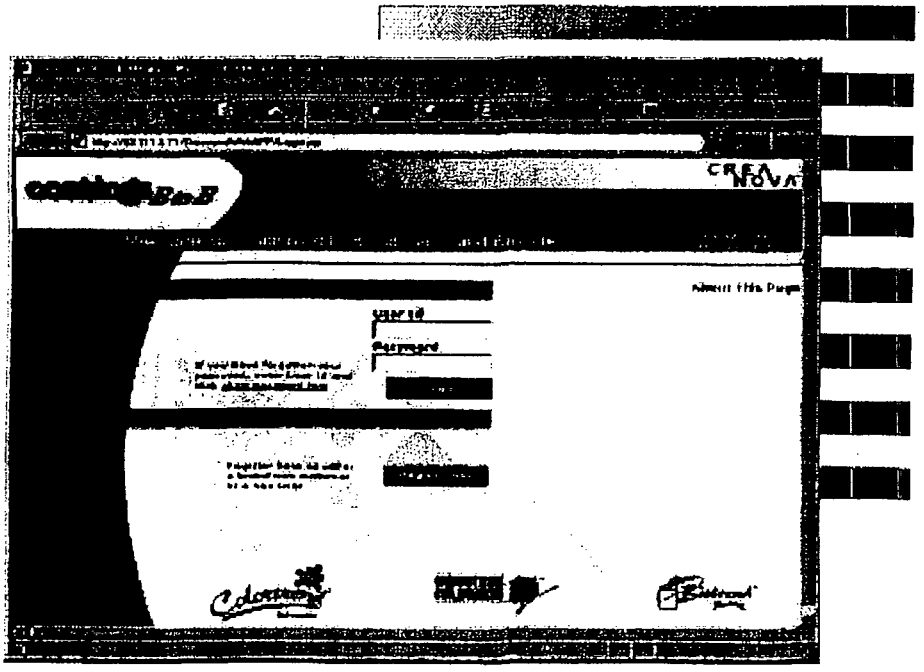
Degussa-Hüls divisions go to market with IBM e-business solutions.

Application	Web-based front end for legacy order entry and fulfillment systems
Business Benefits	Reduces workload and increases customer satisfaction by making it easier to perform common transactions
Software	IBM DB2® Universal Database™, IBM MQSeries®, IBM WebSphere™ Application Server, Microsoft® Windows NT®, Java™, IBM Patterns for e-business
Hardware	IBM AS/400®, Compaq

A chemical manufacturer with offices located on five continents, Degussa-Hüls AG challenged its divisions around the world to use the Internet to increase product sales and customer satisfaction. Based in Germany, Degussa-Hüls and its subsidiaries produce bulk and specialty chemicals used in a wide variety of applications, including coatings, sealants, dental fillings and equipment, to name a few.

To increase customer satisfaction, decrease support costs and satisfy the corporate e-business initiative, CREANOVA, Inc., a U.S. subsidiary of Degussa-Hüls, turned to IBM to develop and deploy an e-commerce solution that would leverage its investment in legacy systems and make it easier for customers to place and track orders. CREANOVA makes colorants and additives for the paint industry, which are typically purchased in bulk. Web-enabling its business-to-business (B2B) order entry and fulfillment systems helps automate these processes for both the company and its customers.



e-business

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"IBM stepped in with their rapid development cycle and delivered the system much faster than even we anticipated."

Marvin Mohler, Manager of Information Technology Architecture, Degussa-Hüls

For more information

To learn more about IBM patterns for e-business, contact your local IBM representative or Business Partner, or visit:

ibm.com/framework/patterns

Extending legacy systems to the Internet

One of the key factors driving development of the CREANOVA Web integration project was speed to market. A third-party analysis of the e-business strategy project indicated that it would take several months to design, develop and implement a Web-based front end for these legacy systems. IBM delivered a fully functional solution in only four months.

By using established Patterns for e-business, IBM was able to develop and deliver the Web-enabled CREANOVA order management system in just 120 days. These Patterns—a group of proven, reusable assets that can help speed the application-development process—enabled IBM developers to focus on the system's business logic, allowing them to use previously developed code to address connectivity issues. By using Patterns, which are part of the IBM Application Framework for e-business, the development team was able to concentrate on writing Java applications rather than configuration and runtime routines. Extending existing technology to the Internet is often more challenging than building Web applications from scratch. The Patterns were essential for releasing the system to production in a reasonable timeframe and on budget.

The CREANOVA order management solution uses IBM WebSphere Application Server running on Microsoft Windows NT to access Java servlets. The Java code builds XML messages and sends them to the back-end server using IBM MQSeries. Java objects are passed to JavaServer Pages™, which WebSphere then converts into HTML for display to the user.

A prototype of the system was demonstrated at an internal trade show, where other Degussa-Hüls divisions first saw the capabilities of the application. As a result of our work with CREANOVA, three other Degussa-Hüls subsidiaries—Degussa-Ney Dental, Feed Additives and Industrial Chemicals—have contacted IBM to develop e-business applications for their use.

Why IBM?

By using Patterns for e-business, IBM helped CREANOVA develop a B2B e-business solution that extends its investment in existing technology. As a result, companies that do business with CREANOVA can order and track shipments online, around the clock, without having to make repeated, time-consuming calls to customer service representatives. The IBM solution helps CREANOVA improve customer satisfaction while leveraging its legacy systems—a winning combination for CREANOVA and its customers.

"We were able to demonstrate our online capabilities at an important global e-business conference, allowing our other divisions to see that IBM could deliver in weeks what other vendors had taken months to develop."

Marvin Mohler, Manager of Information Technology Architecture, Degussa-Hüls

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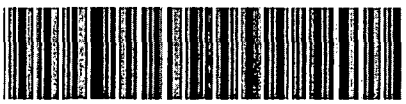

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958870657

DEP Bulletin

TABLE OF CONTENTS

November 17, 2004 Volume 28 Issue 22

Application Codes and Permit Descriptions	Pg. 2
General Application Milestone Codes	
Specific Decision Application Codes	
Permit Descriptions	
General Information	Pg. 3
DEP Public Notices and Hearings and Events of Interest (Water Quality Pg. 10-13)	Pg. 4-13
Environmental Impact Statement and Assessments (EIS and EA)	Pg. 14-15
Permit Applications Filed or Acted Upon:	
Land Use Regulation Program	
CAFRA Permit Application	Pg. 16-21
Flood Hazard Area	Pg. 21-25
Freshwater Wetlands	Pg. 25-42
Waterfront Development	Pg. 42-48
Division of Water Quality	
Treatment Works Approval (TWA)	Pg. 49-50
Solid and Hazardous Waste	
Recycling Centers (B)	Pg. 51
Recycling Centers (C)	Pg. 51
Hazardous Waste Facilities	Pg. 51-52
Incinerators	Pg. 52
Sanitary Landfills	Pg. 52
Transfer Stations	Pg. 52-53
DEP Permit Liaisons and Other Governmental Contacts	Inside Back Cover

Governor James E. McGreevey New Jersey Department of Environmental Protection Bradley M. Campbell, Commissioner

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The following minor modifications and administrative permit revocations were recently issued. These actions are listed for informational purposes only and are not open for public comment.

Minor Modifications Issued (Division of Water Quality)		
Permit: • ***Name*** • ***NJPDES Number***	**Facility Name/Location**	***Executive Summary***
Lanxess Corp NJPDES Permit No. NJ0104451	Haledon Remediation Facility 8 Hoxsey Place Haledon, NJ	This permit was transferred from Bayer Corp to Lanxess Corp effective 7/1/04.
Lentini Auto Salvage Inc NJPDES Permit No. NJ0112569	Lentini Auto Salvage Inc 130 Route 202 Ringoes, NJ	This permit was transferred from Pro Auto Recyclers of Flemington to Lentini Auto Salvage Inc effective 10/25/04.
Mays Landing RV Resort LLC NJPDES Permit No. NJ0085090	Yogi Bears Jellystone Park 1079 12th Ave Estell Manor, NJ	This permit was transferred from Nancy and William Reily to Mays Landing RV Resort LLC effective 10/27/04.
Degussa Corp NJPDES Permit No. NJ0102270	Degussa Corp 830 Magnolia Ave Elizabeth, NJ	This permittee name was changed from Creanova Inc to Degussa Corp effective 10/27/04.
Carlstadt Wholesale Ice Co NJPDES Permit No. NJ0142948	Carlstadt Wholesale Ice Co 517 route 17 Carlstadt, NJ	This permit was transferred from Consumers ice Co to Carlstadt Wholesale Ice Co effective 6/9/03.

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