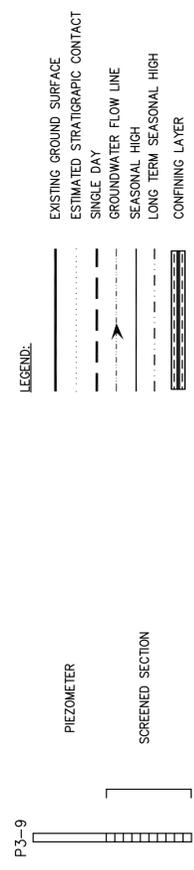


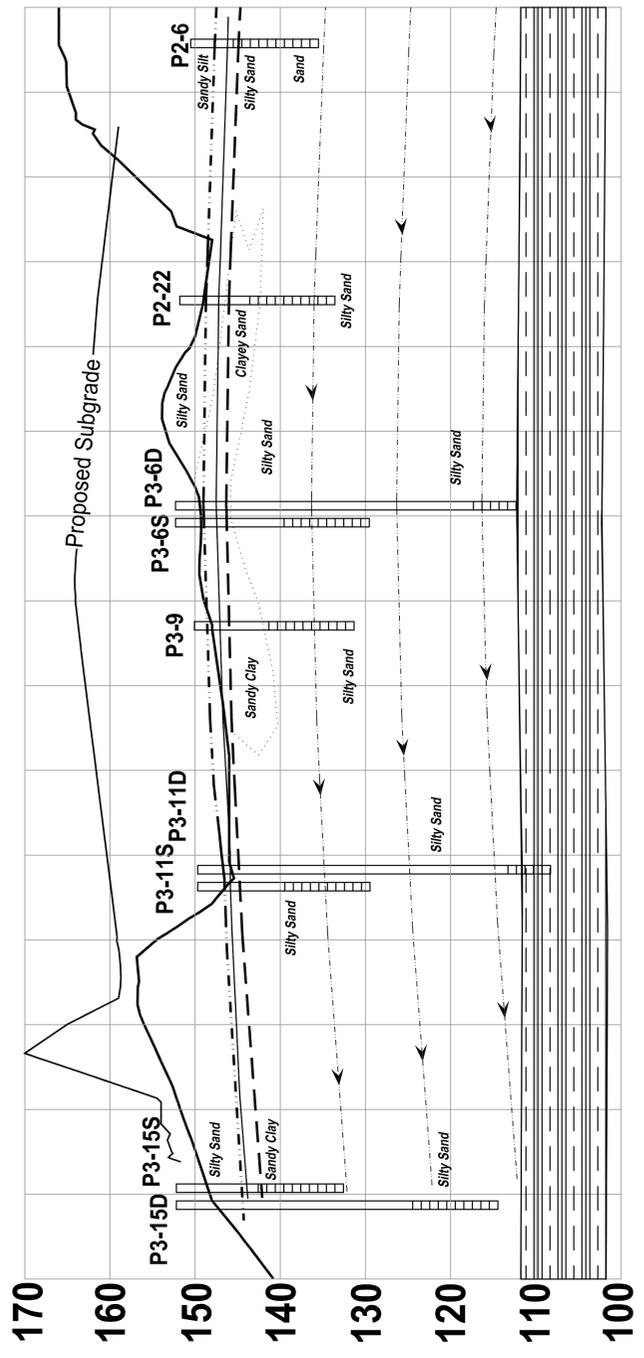
**SECTION A-A'**  
 SCALE HORIZ. 1" = 100'  
 VERT. 1" = 10'



NOTE:  
 - NUMBERS SHOWN IN THIS PLATE ARE IN UNITS OF FEET UNLESS INDICATED OTHERWISE.  
 - SOIL PROFILES SHOWN HEREIN ARE INTERPOLATED FROM AVAILABLE BORING RECORDS.  
 - SOIL PROFILE BOUNDARIES DO NOT NECESSARILY INDICATE ABRUPT CHANGE IN SOIL TEXTURES.  
 - SEASONAL HIGH WATER TABLE SURFACES WERE DERIVED FROM THEIR RESPECTIVE CONTOUR SURFACES ON PLATE 4A.

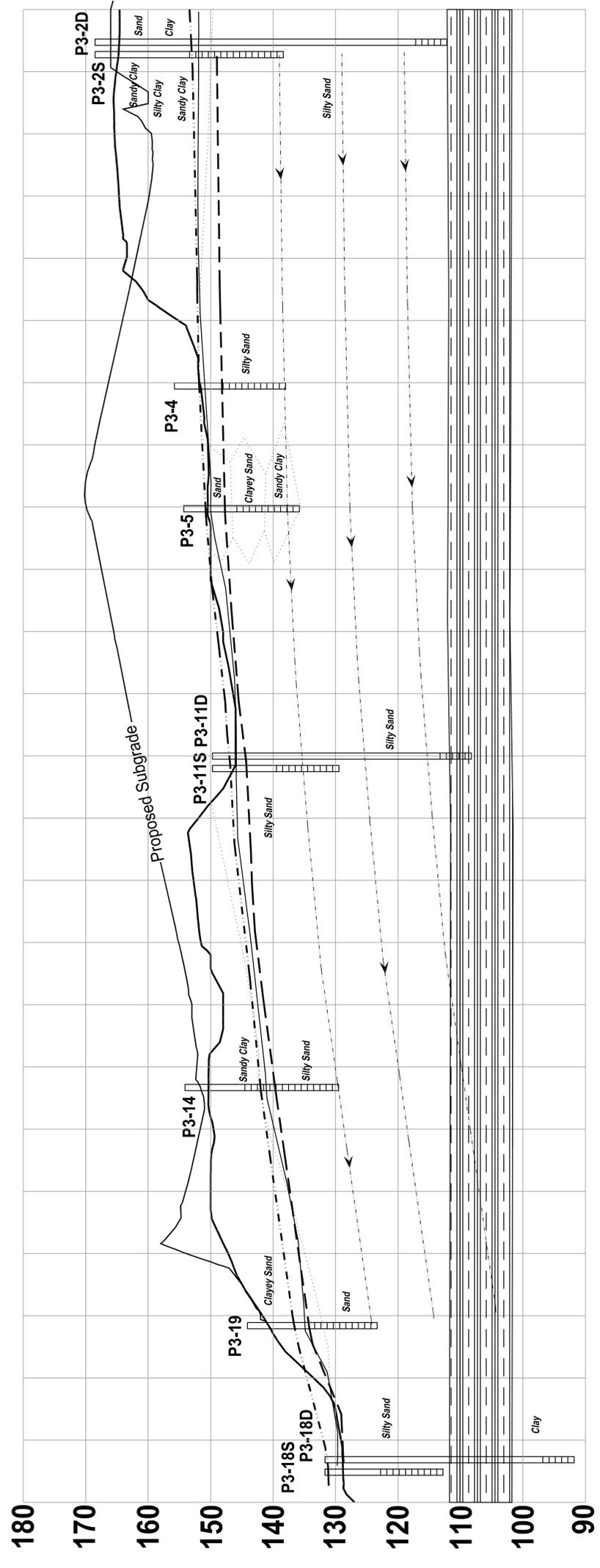


**LEGEND**  
 MAJOR TOPOGRAPHIC CONTOUR INTERVAL: 10 FEET  
 EXISTING CONTOUR  
 EXISTING SOIL ROAD  
 EXISTING DRAINAGE FEATURE  
 EXISTING LEACHATE COLLECTION LINES  
 300' BUFFER ZONE SURFACE  
 WETLANDS  
 MONITORING WELL  
 ARMORED PEZOMETER  
 PEZOMETER

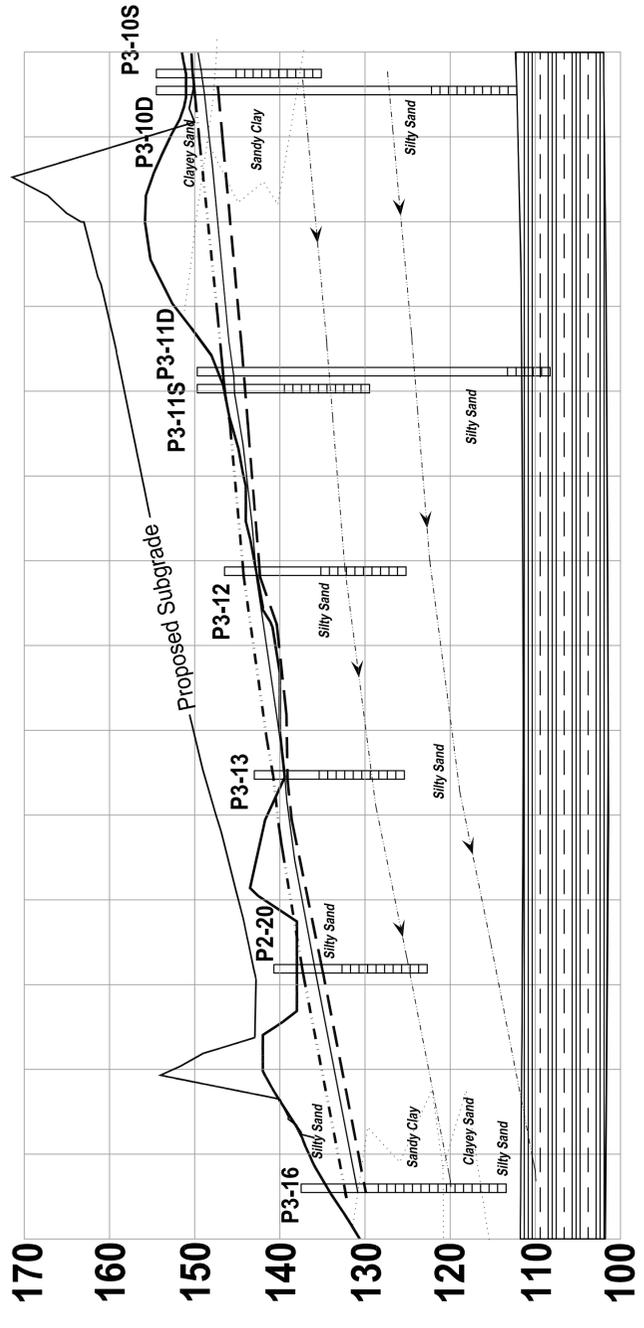


**SECTION B-B'**  
 SCALE HORIZ. 1" = 100'  
 VERT. 1" = 10'

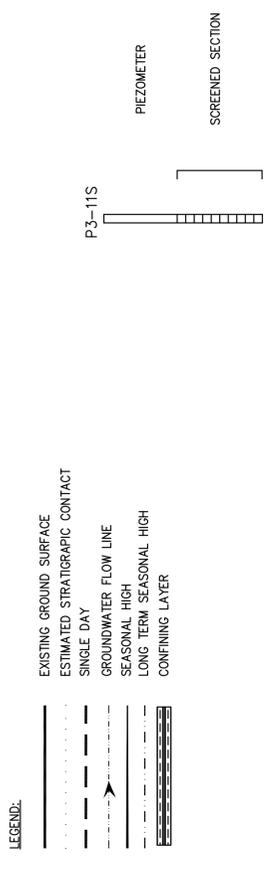
DATE	BY	REV.	DESCRIPTION
04/07/2011	MG	1	REVISED SUBGRADE
SCALE: 1" = 100'			
DATE: 7/15/2008			
DRWN BY: M.GERMAN			
CHKD BY: S. PATRICK			
PROJECT NUMBER			
G06096.6			
DRAWING NO.			SHEET NO.
PLATE 6B			2 of 2



SECTION C-C'  
 SCALE HORIZ. 1" = 100'  
 VERT. 1" = 10'



SECTION D-D'  
 SCALE HORIZ. 1" = 100'  
 VERT. 1" = 10'

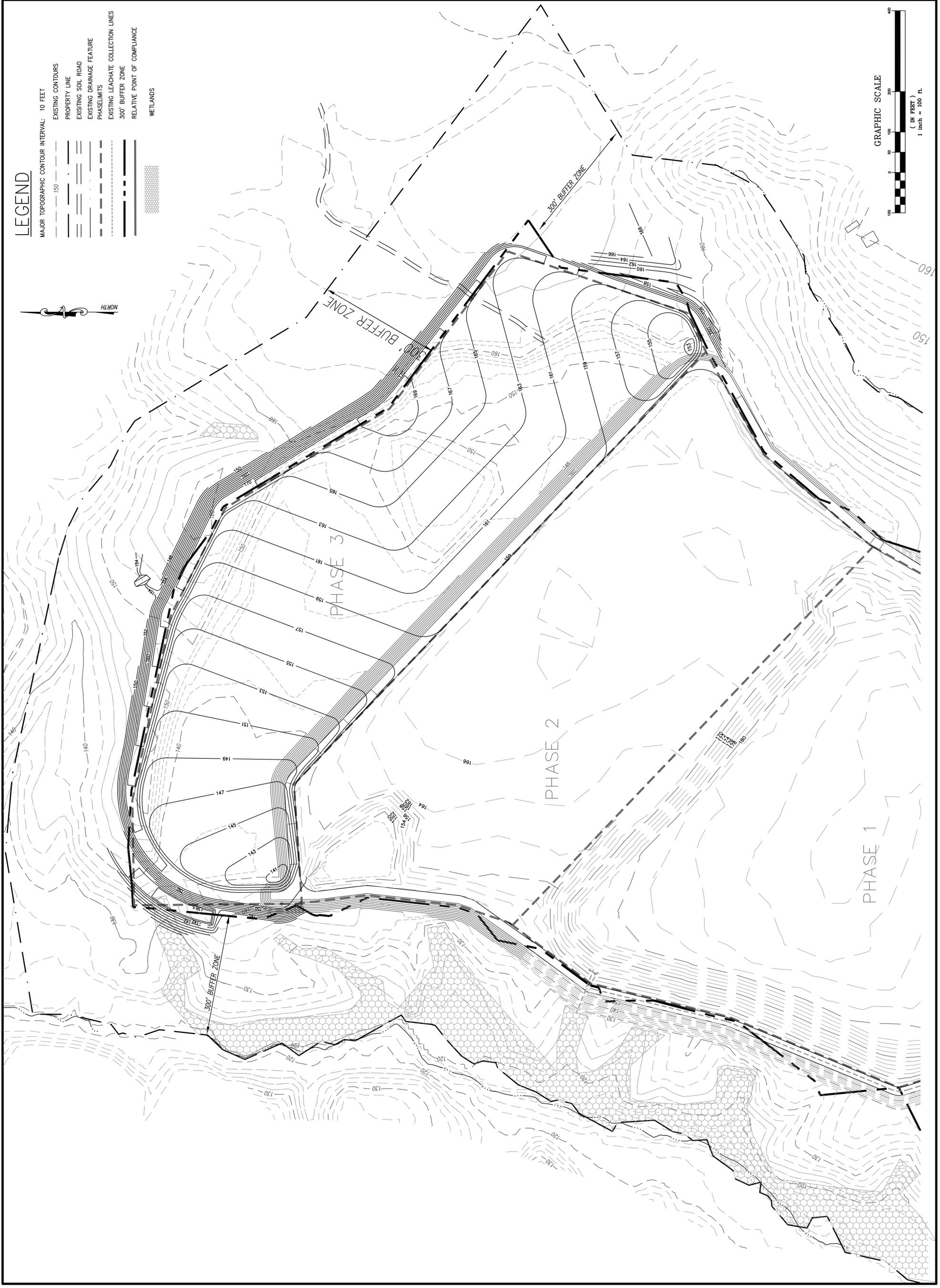
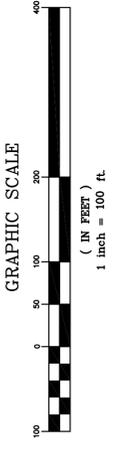


NOTE:  
 - NUMBERS SHOWN IN THIS PLATE ARE IN UNITS OF FEET UNLESS INDICATED OTHERWISE.  
 - SOIL PROFILES SHOWN HEREIN ARE INTERPOLATED FROM AVAILABLE BORING RECORDS.  
 - SOIL PROFILE BOUNDARIES DO NOT NECESSARILY INDICATE ABRUPT CHANGE IN SOIL TEXTURES.  
 - SEASONAL HIGH WATER TABLE SURFACES WERE DERIVED FROM THEIR RESPECTIVE CONTOUR SURFACES IN PLATE 4A.

DATE	BY	REV.	DESCRIPTION

**LEGEND**

- MAJOR TOPOGRAPHIC CONTOUR INTERVAL: 10 FEET
- EXISTING CONTOURS
- PROPERTY LINE
- EXISTING SOIL ROAD
- EXISTING DRAINAGE FEATURE
- PHASE LIMITS
- EXISTING LEACHATE COLLECTION LINES
- 300' BUFFER ZONE
- RELATIVE POINT OF COMPLIANCE
- WETLANDS



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# Landfill Gas Monitoring Plan

*Prepared for*

Wayne County Subtitle D Landfill  
Dudley, North Carolina

**MESCO Project Number: G06096.6**

This report is included in Appendix E, part of the Design Hydrogeologic Study  
for the Wayne County Subtitle D Landfill, Phase 3.

Submitted: April 12, 2011

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Madeline German, PG  
Geologist





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Table E-1.....	Methane Monitoring Probe Summary Table
Table E-2.....	Sample Data Form

**PLATES**

Plate A.....	Sampling Locations
Plate B.....	Single-Day Potentiometric Surface Map
Plate C.....	Stopcock Valve on Well Cap Diagram
Plate D.....	Methane Well Construction Diagram



## **1 INTRODUCTION**

### **1.1 BACKGROUND**

The Landfill Gas Monitoring Plan objective is to provide clear guidelines and procedures for field and laboratory personnel when collecting and analyzing landfill gas samples. This plan applies to the Phase 1, Phase 2 and Phase 3 portions of the Wayne County Subtitle D Landfill. This analysis plan contains sampling procedures by which sampling will be performed. Facility conditions or unforeseen sampling variables may warrant deviation from the procedures; alternative sampling procedures must conform to the Solid Waste Section Landfill Gas Monitoring Document (Guidance Document).

### **1.2 SITE GEOLOGY AND HYDROGEOLOGY**

Wayne County, North Carolina is located in the Coastal Plain physiographic province, characterized by flat to gently rolling topography and drainage features with narrow to moderately sloped sides. The lithology underlying the facility is mapped as the Black Creek Formation; described by Sohl & Owens (1991) as a late Mesozoic-age (Cretaceous) sedimentary formation consisting of black to dark grey thinly laminated clay with layers of sand, abundant mica and lignite with iron sulfides such as marcasite or pyrite. The Black Creek is approximately 211 feet thick, near Dudley. The upper 10 feet of the Black Creek formation (clay, silty clay, and sandy clay) act as a confining unit separating the overlying surficial aquifer from the underlying Black Creek aquifer (Winner & Coble, 1989).

Wayne County is located in the Neuse River Basin, which spans 6,235 square miles across north central and eastern North Carolina. Locally, the Neuse River travels between southwestern Goldsboro and Dudley approximately 2.5 miles north of the landfill facility. The primary drainage features are Edwards Branch and its unnamed tributary. General surface drainage flows southwest towards Edwards Branch. Topographic relief is approximately 70-75 feet.

### **1.3 REGULATORY LIMITS**

Landfill gas probe readings will be collected quarterly in accordance with Rule 15A NCAC 13B and results will be submitted to the Solid Waste Section (SWS) in the event of a methane exceedance. Wayne County will follow the operational requirements for MSWLF facilities. Ensuring the measured concentration of methane gas does not exceed the Lower Explosive Limit (LEL) at the facility boundary and 25 % LEL in facility structures.

## **2 LANDFILL GAS MONITORING**

### **2.1 WELL LOCATIONS**

#### **2.1.1 Existing Conditions**

This monitoring plan includes seven methane probes numbered MP-17, MP-18, MP-19, MP-20, MP-21, MP-24 and MP-25. Monitoring points are summarized on **Table E-1**.

Existing probes are located outside the phase limits, 100 to 300 feet inside the property boundary. MP-17 is located west of phase one, near MW-5 and the leachate lagoon. MP-18 is located west of the Phase 1 near the leachate lagoon. MP-19 is located west of Phase 1, between MW-7 and MW-8. MP-20 is located on west of phase 1 and 2 near MW-11. MP-21 is located west of phase 2, near MW-12. Probe locations are illustrated on **Plate A**.

#### **2.1.2 Additions for Phase 2**

Five methane probes (MP-26, MP-27, MP-28, MP-29 and MP-30) are proposed for installation around the perimeter of the Phase 3 area. MP-26 is proposed west of phase 3 near MW-14. MP-27, MP-28 and MP-29 are proposed north of phase 3. MP-30 is proposed northeast of phase 3 near MW-1.

### **2.2 STRUCTURE AND AMBIENT SAMPLING**

The shop and two scale houses, located at the facility entrance, will be sampled quarterly in accordance with the guidance document. The SWS will be notified if levels above 25% LEL occur.

### **2.3 LANDFILL GAS MONITORING FREQUENCY**

Landfill gas monitoring wells will be sampled quarterly to insure that landfill gas does not exceed 100% LEL at the facility property boundary and 25% LEL at facility structures. Modifications to monitoring frequency can be obtained through the SWS.

If methane readings exceed the specified limits protection of human health is the primary objective. Additionally, the SWS will be notified in the event of a landfill gas exceedance. Within seven days the landfill gas levels detected will be recorded in the log with the steps taken to protect human health. Within 60 days a remediation plan that describes the nature and extent of the problem as well as the proposed solution will be implemented, a copy of the plan will be recorded in the log and the SWS will be notified.

### **3 LANDFILL GAS SAMPLING PROCEDURE**

#### **3.1 EQUIPMENT**

Methane probes will be sampled with an accurately calibrated landfill gas monitoring instrument capable of reading methane, oxygen and carbon dioxide.

#### **3.2 SAMPLING PROCEDURE**

Portable methane field instruments will be calibrated in accordance with manufactures instructions; verification will be included with on-site documentation for each event. Calibration, to manufacturer's specifications, will occur prior to each sampling event. The expected gas levels will be considered when selecting the appropriate calibration gas for field instrument calibrations. Instrumentation will be allowed to properly warm up, prior to use, as directed by manufacturer's instructions. Prior to sample collection, the static pressure should read zero.

Following calibration, the instrument tubing will be purged for at least one minute prior to reading collection. Attach instrument tubing to the probe using the stopcock or quick connect coupling on the probe cap. Open the valve and record the initial and stabilized readings. A stabilized reading will not vary more than 0.5 percent by volume on the instrument's scale. Recorded readings will include the oxygen concentration and barometric pressure; oxygen will be two percent per volume or less to indicate air is not being drawn into the system providing false readings. Turn off the valve and disconnect the tubing. If deviation from the prescribed plan is warranted care will be taken to ensure the integrity of the samples and adherence to the Guidance Document. Method modifications will be noted on the sampling log.

## **4 RECORD KEEPING AND REPORTING**

### **4.1 MONITORING DATA FORM**

The Landfill Gas Monitoring Report Form will contain the facility name, permit number, landfill gas monitoring instrument type and serial number, instrument calibration date, field calibration date and time, gas used for field calibration (15/15 or 35/50), field gas canister expiration date, landfill gas monitoring event date, sample collector name and position, instrument pump rate, ambient air temperature, and general weather conditions. For each probe location the sampler will record the sample tube purge verification (collected prior to each sample), time pumped in seconds (at least one minute), barometric pressure, time stabilized reading was collected, %LEL, % methane by volume, % oxygen, % carbon dioxide and any notes, observations or comments relative to the sampling event. An example log is included as **Table E2**.

### **4.2 SAMPLING REPORTS**

Quarterly monitoring event documentation will be recorded on site. Sampling reports will be submitted to the SWS regarding recorded detections above the specified limits within 60 days; including the nature of the exceedance and the initiated remedial action.

Documentation will be recorded on the Landfill Gas Monitoring Report Logs provided by NC Division of Waste Management – Solid Waste Section or logs established in the same fashion. An example log is included as **Table E2**.

### **4.3 PERMANENT RECORD KEEPING**

Landfill gas monitoring records will be kept at the facility, including gas monitoring results and any required remediation plans. Records will be updated as the information becomes available. Reports will be sent to the SWS in the event of methane exceedance.

## **5 CONTINGENCY PLAN**

If methane probes consistently exceed the established levels, probes closer to the property boundary will be constructed, in order to determine the landfill gas extent. If probes located at the facility boundary continually exceed regulated limits, action will be taken to release the landfill gas. The specific actions taken to release the gas will be determined on a site specific basis.

## **6 CONCLUSION**

This report, included as part of the Design Hydrogeologic Report for the proposed Wayne County Subtitle D Landfill Phase 3, completes the requirements as described in Rule 15A NCAC 13B .1626 (4). The landfill gas monitoring plan is designed to be effective in the detection of methane to protect the health and safety of North Carolina citizens from asphyxiation and explosive landfill gas hazards.

**Table E-1:** Summary of Methane Monitoring Points

Sampling Point	Type	Total Depth (BGS)	Gradient	Location Description
MP-17	Methane Probe	5.08	Down	Phase 1 Monitoring
MP-18	Methane Probe	6.15	Down	Phase 1 Monitoring
MP-19	Methane Probe	5.9	Down	Phase 1 Monitoring
MP-20	Methane Probe	5.0	Down	Phase 1& 2 Monitoring
MP-21	Methane Probe	5.01	Down	Phase 2 Monitoring
MP-24	Methane Probe	6.1	Up	Phase 2 Monitoring
MP-25	Methane Probe	5.9	Up	Phase 2 Monitoring
MP-26	Methane Probe	8	Down	Future Phase 3 Monitoring
MP-27	Methane Probe	8	Down	Future Phase 3 Monitoring
MP-28	Methane Probe	10	Down	Future Phase 3 Monitoring
MP-29	Methane Probe	9	Down	Future Phase 3 Monitoring
MP-30	Methane Probe	15	Up	Future Phase 3 Monitoring

**Facility Name:** \_\_\_\_\_ **Permit Number:** \_\_\_\_\_  
**Date of Sampling:** \_\_\_\_\_ **NC Landfill Rule (.0500 or .1600):** \_\_\_\_\_  
**Name and Position of Sample Collector:** \_\_\_\_\_  
**Type and Serial number of Gas Meter:** \_\_\_\_\_ **Calibration Date:** \_\_\_\_\_  
**Date and Time of Field Calibration:** \_\_\_\_\_  
**Type of Field Calibration Gas (15/15 or 35/50):** \_\_\_\_\_  
**Expiration Date of Field Calibration Gas Canister:** \_\_\_\_\_  
**Pump Rate of Instrument:** \_\_\_\_\_ **General Weather Conditions:** \_\_\_\_\_  
**Ambient Air Temperature:** \_\_\_\_\_ **Barometric Pressure:** \_\_\_\_\_

Location or LFG Well	Sample Tube Purge	Time	Time Pumped (s)	Initial %LEL	Stabilized % LEL	% Methane By Volume	% Oxygen	% Carbon Dioxide	Observations or Comments
Background									
MP-17									
MP-18									
MP-19									
MP-20									
MP-21									
MP-24									
MP-25									
MP-26									
MP-27									
MP-28									
MP-29									
MP-30									
Background									

na = Not Available

Standard at property line 100% LEL, 5% By Volume, 50,000 PPM of Methane

Standard in Buildings 25% LEL, 1.25% By Volume, 12,500 PPM of Methane

Shaded indicates methane detected in exceedance of any applicable Standard

**Certification**

**To the best of my knowledge, the information reported and statements made on this data submittal and attachments are true and correct. I am aware that there are significant penalties for making any false statement, representation, or certification including the possibility of a fine and imprisonment.**

\_\_\_\_\_  
SIGNATURE

\_\_\_\_\_  
TITLE



**LEGEND**

- MAJOR TOPOGRAPHIC CONTOUR INTERVAL: 10 FEET
- SINGLE DAY CONTOUR INTERVAL: 2 FEET
- EXISTING CONTOURS
- PROPERTY LINE
- EXISTING SOIL ROAD
- EXISTING DRAINAGE FEATURE
- PHASE LIMITS
- EXISTING LEACHATE COLLECTION LINES
- 300' BUFFER ZONE
- WETLANDS
- MONITORING WELL
- ABANDONED PIEZOMETER
- PIEZOMETER
- SURFACE WATER
- GROUNDWATER ELEVATION
- SINGLE DAY CONTOUR (10/27/2006)

- MW-1
- P2-1
- P3-1
- SW-5
- 145.98
- 144

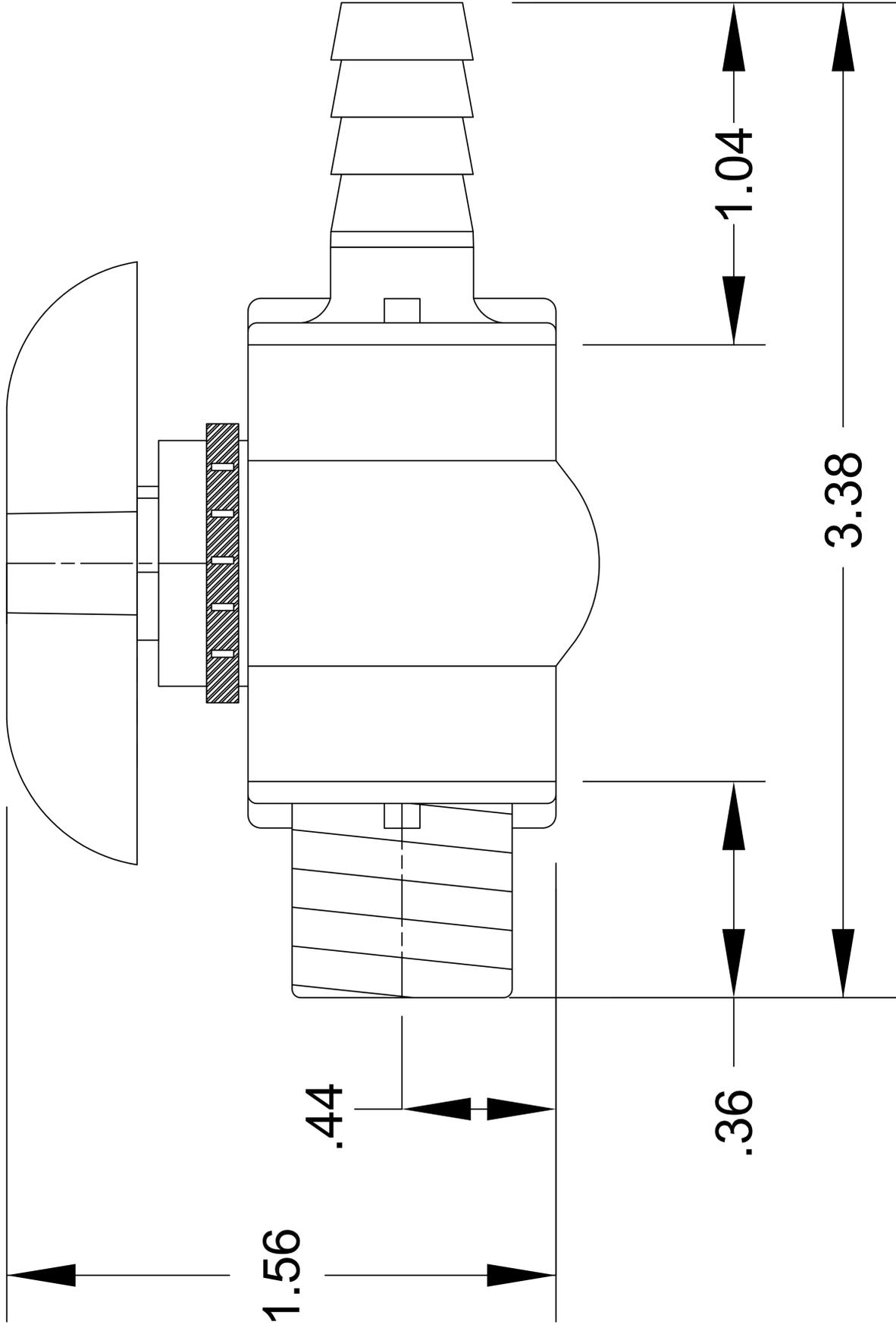
\* DEEP WELLS NOT USED IN CONTOURING  
 \*\* OUTSIDE MAP PARAMETERS

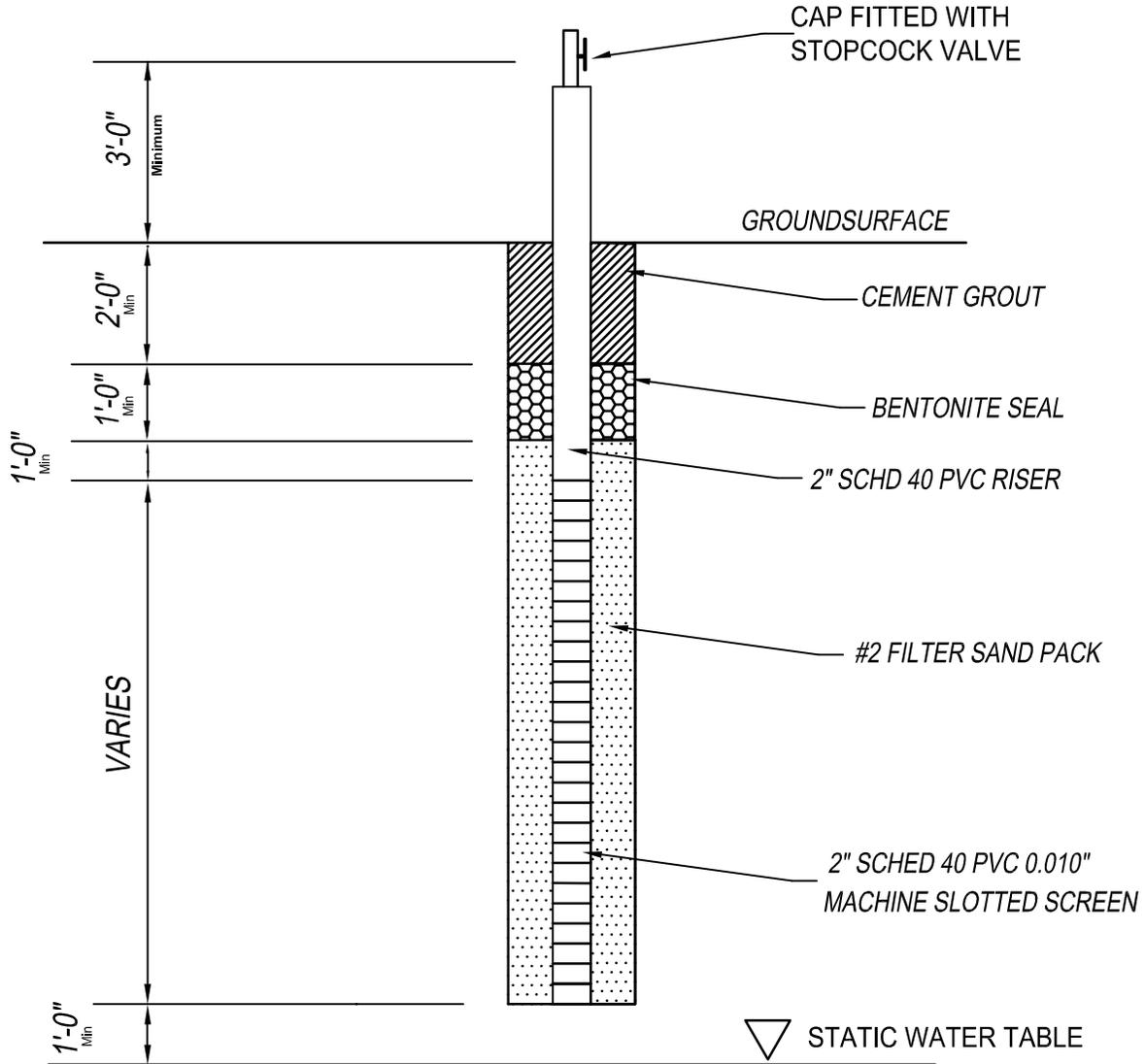


WELL	GROUNDWATER ELEVATION (FEET)
P3-1	145.92
P3-2S	149.02
P3-2D*	148.13
P3-3	146.73
P3-4	148.55
P3-5	147.67
P3-6S	146.33
P3-6D*	145.38
P3-7	146.36
P3-8	144.85
P3-9	145.98
P3-10S	147.28
P3-10D*	146.17
P3-11S	144.44
P3-11D*	143.69
P3-12	142.30
P3-13	138.60
P3-14	139.59
P3-15S	142.12
P3-15D*	142.05
P3-16	129.89
P3-17	135.83
P3-18S	129.02
P3-18D*	130.08
P3-19	134.16
P3-20	138.60
P3-21	142.30
P3-22	147.28
P3-23	143.18
P3-24	143.68
P3-25	146.33
P3-26	145.98
P3-27	148.13
P3-28	149.02
P3-29	148.13
P3-30	145.92
P3-31	145.98
P3-32	146.73
P3-33	148.55
P3-34	147.67
P3-35	146.33
P3-36	145.38
P3-37	146.36
P3-38	144.85
P3-39	145.98
P3-40	147.28
P3-41	146.17
P3-42	144.44
P3-43	143.69
P3-44	142.30
P3-45	138.60
P3-46	139.59
P3-47	142.12
P3-48	142.05
P3-49	129.89
P3-50	134.16
P3-51	138.60
P3-52	142.30
P3-53	147.28
P3-54	143.18
P3-55	143.68
P3-56	146.33
P3-57	148.13
P3-58	149.02
P3-59	148.13
P3-60	145.92
P3-61	145.98
P3-62	146.73
P3-63	148.55
P3-64	147.67
P3-65	146.33
P3-66	145.38
P3-67	146.36
P3-68	144.85
P3-69	145.98
P3-70	147.28
P3-71	146.17
P3-72	144.44
P3-73	143.69
P3-74	142.30
P3-75	138.60
P3-76	139.59
P3-77	142.12
P3-78	142.05
P3-79	129.89
P3-80	134.16
P3-81	138.60
P3-82	142.30
P3-83	147.28
P3-84	143.18
P3-85	143.68
P3-86	146.33
P3-87	148.13
P3-88	149.02
P3-89	148.13
P3-90	145.92
P3-91	145.98
P3-92	146.73
P3-93	148.55
P3-94	147.67
P3-95	146.33
P3-96	145.38
P3-97	146.36
P3-98	144.85
P3-99	145.98
P3-100	147.28
P3-101	146.17
P3-102	144.44
P3-103	143.69
P3-104	142.30
P3-105	138.60
P3-106	139.59
P3-107	142.12
P3-108	142.05
P3-109	129.89
P3-110	134.16
P3-111	138.60
P3-112	142.30
P3-113	147.28
P3-114	143.18
P3-115	143.68
P3-116	146.33
P3-117	148.13
P3-118	149.02
P3-119	148.13
P3-120	145.92
P3-121	145.98
P3-122	146.73
P3-123	148.55
P3-124	147.67
P3-125	146.33
P3-126	145.38
P3-127	146.36
P3-128	144.85
P3-129	145.98
P3-130	147.28
P3-131	146.17
P3-132	144.44
P3-133	143.69
P3-134	142.30
P3-135	138.60
P3-136	139.59
P3-137	142.12
P3-138	142.05
P3-139	129.89
P3-140	134.16
P3-141	138.60
P3-142	142.30
P3-143	147.28
P3-144	143.18
P3-145	143.68
P3-146	146.33
P3-147	148.13
P3-148	149.02
P3-149	148.13
P3-150	145.92
P3-151	145.98
P3-152	146.73
P3-153	148.55
P3-154	147.67
P3-155	146.33
P3-156	145.38
P3-157	146.36
P3-158	144.85
P3-159	145.98
P3-160	147.28
P3-161	146.17
P3-162	144.44
P3-163	143.69
P3-164	142.30
P3-165	138.60
P3-166	139.59
P3-167	142.12
P3-168	142.05
P3-169	129.89
P3-170	134.16
P3-171	138.60
P3-172	142.30
P3-173	147.28
P3-174	143.18
P3-175	143.68
P3-176	146.33
P3-177	148.13
P3-178	149.02
P3-179	148.13
P3-180	145.92
P3-181	145.98
P3-182	146.73
P3-183	148.55
P3-184	147.67
P3-185	146.33
P3-186	145.38
P3-187	146.36
P3-188	144.85
P3-189	145.98
P3-190	147.28
P3-191	146.17
P3-192	144.44
P3-193	143.69
P3-194	142.30
P3-195	138.60
P3-196	139.59
P3-197	142.12
P3-198	142.05
P3-199	129.89
P3-200	134.16
P3-201	138.60
P3-202	142.30
P3-203	147.28
P3-204	143.18
P3-205	143.68
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P3-207	148.13
P3-208	149.02
P3-209	148.13
P3-210	145.92
P3-211	145.98
P3-212	146.73
P3-213	148.55
P3-214	147.67
P3-215	146.33
P3-216	145.38
P3-217	146.36
P3-218	144.85
P3-219	145.98
P3-220	147.28
P3-221	146.17
P3-222	144.44
P3-223	143.69
P3-224	142.30
P3-225	138.60
P3-226	139.59
P3-227	142.12
P3-228	142.05
P3-229	129.89
P3-230	134.16
P3-231	138.60
P3-232	142.30
P3-233	147.28
P3-234	143.18
P3-235	143.68
P3-236	146.33
P3-237	148.13
P3-238	149.02
P3-239	148.13
P3-240	145.92
P3-241	145.98
P3-242	146.73
P3-243	148.55
P3-244	147.67
P3-245	146.33
P3-246	145.38
P3-247	146.36
P3-248	144.85
P3-249	145.98
P3-250	147.28
P3-251	146.17
P3-252	144.44
P3-253	143.69
P3-254	142.30
P3-255	138.60
P3-256	139.59
P3-257	142.12
P3-258	142.05
P3-259	129.89
P3-260	134.16
P3-261	138.60
P3-262	142.30
P3-263	147.28
P3-264	143.18
P3-265	143.68
P3-266	146.33
P3-267	148.13
P3-268	149.02
P3-269	148.13
P3-270	145.92
P3-271	145.98
P3-272	146.73
P3-273	148.55
P3-274	147.67
P3-275	146.33
P3-276	145.38
P3-277	146.36
P3-278	144.85
P3-279	145.98
P3-280	147.28
P3-281	146.17
P3-282	144.44
P3-283	143.69
P3-284	142.30
P3-285	138.60
P3-286	139.59
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P3-291	138.60
P3-292	142.30
P3-293	147.28
P3-294	143.18
P3-295	143.68
P3-296	146.33
P3-297	148.13
P3-298	149.02
P3-299	148.13
P3-300	145.92
P3-301	145.98
P3-302	146.73
P3-303	148.55
P3-304	147.67
P3-305	146.33
P3-306	145.38
P3-307	146.36
P3-308	144.85
P3-309	145.98
P3-310	147.28
P3-311	146.17
P3-312	144.44
P3-313	143.69
P3-314	142.30
P3-315	138.60
P3-316	139.59
P3-317	142.12
P3-318	142.05
P3-319	129.89
P3-320	134.16
P3-321	138.60
P3-322	142.30
P3-323	147.28
P3-324	143.18
P3-325	143.68
P3-326	146.33
P3-327	148.13
P3-328	149.02
P3-329	148.13
P3-330	145.92
P3-331	145.98
P3-332	146.73
P3-333	148.55
P3-334	147.67
P3-335	146.33
P3-336	145.38
P3-337	146.36
P3-338	144.85
P3-339	145.98
P3-340	147.28
P3-341	146.17
P3-342	144.44
P3-343	143.69
P3-344	142.30
P3-345	138.60
P3-346	139.59
P3-347	142.12
P3-348	142.05
P3-349	129.89
P3-350	134.16
P3-351	138.60
P3-352	142.30
P3-353	147.28
P3-354	143.18
P3-355	143.68
P3-356	146.33
P3-357	148.13
P3-358	149.02
P3-359	148.13
P3-360	145.92
P3-361	145.98
P3-362	146.73
P3-363	148.55
P3-364	147.67
P3-365	146.33
P3-366	145.38
P3-367	146.36
P3-368	144.85
P3-369	145.98
P3-370	147.28
P3-371	146.17
P3-372	144.44
P3-373	143.69
P3-374	142.30
P3-375	138.60
P3-376	139.59
P3-377	142.12
P3-378	142.05
P3-379	129.89
P3-380	134.16
P3-381	138.60
P3-382	142.30
P3-383	147.28
P3-384	143.18
P3-385	143.68
P3-386	146.33
P3-387	148.13
P3-388	149.02
P3-389	148.13
P3-390	145.92
P3-391	145.98
P3-392	146.73
P3-393	148.55
P3-394	147.67
P3-395	146.33
P3-396	145.38
P3-397	146.36
P3-398	144.85
P3-399	145.98
P3-400	147.28
P3-401	146.17
P3-402	144.44
P3-403	143.69
P3-404	142.30
P3-405	138.60
P3-406	139.59
P3-407	142.12
P3-408	142.05
P3-409	129.89
P3-410	134.16
P3-411	138.60
P3-412	142.30
P3-413	147.28
P3-414	143.18
P3-415	143.68
P3-416	146.33
P3-417	148.13
P3-418	149.02
P3-419	148.13
P3-420	145.92
P3-421	145.98
P3-422	146.73
P3-423	148.55
P3-424	147.67
P3-425	146.33
P3-426	145.38
P3-427	146.36
P3-428	144.85
P3-429	145.98
P3-430	147.28
P3-431	146.17
P3-432	144.44
P3-433	143.69
P	

# Plate C

## Methane Valve Diagram





# METHANE GAS MONITORING PROBE

*Copied from NCDENR Guidance Document*