

**ROCKY FLATS PLANT  
 EMD OPERATING  
 PROCEDURES MANUAL**

**Manual No.: 5-21000-OPS-GW  
 Procedure No.: Table of Contents, Rev 14  
 Page: 1 of 2  
 Effective Date: 05/10/93  
 Organization: Environmental Management**

**THIS IS ONE VOLUME OF A SIX VOLUME SET WHICH INCLUDES:**

- VOLUME I: FIELD OPERATIONS (FO)
- VOLUME II: GROUNDWATER (GW)
- VOLUME III: GEOTECHNICAL (GT)
- VOLUME IV: SURFACE WATER (SW)
- VOLUME V: ECOLOGY (EE)
- VOLUME VI: AIR (AP)

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 FOR VOLUME II: GROUNDWATER**

<u>Procedure No.</u>	<u>Title</u>	<u>Rev. No.</u>	<u>Effective Date</u>
GW.01	Water Level Measurements in Wells and Piezometers	2	05/12/92
DCN 92.01	Improve Form	2	10/28/92
DCN 93.01	Measuring Water Levels in Well Points	2	01/28/93
GW.02	Well Development	2	05/12/92
DCN 92.01	Practice Clarification	2	10/05/92
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
DCN 93.01	Well Fluid Volumes	2	04/13/93
GW.03	Pump-In Borehole Packer Testing	2	05/12/92
GW.04	Slug Testing	2	05/12/92
DCN 93.01	Re-title Sect.5.2 and Add Bail-down Test	2	05/05/93
GW.05	Field Measurement of Groundwater Field Parameters	2	05/12/92
DCN 92.01	Eliminate Unsafe Work Practice	2	10/26/92
GW.06	Groundwater Sampling	2	05/12/92
DCN 92.01	Form Update	2	EXPIRED
DCN 92.02	Update Forms to Include Form Number	2	10/22/92
DCN 93.01	Hydropunch	2	04/15/93
DCN 93.02	New GW Sample Collection Log	2	05/04/93
*DCN 93.03	Hydropunch II	2	05/10/93

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<b><u>Procedure No.</u></b>	<b><u>Title</u></b>	<b><u>Rev. No.</u></b>	<b><u>Effective Date</u></b>
GW.08	Aquifer Pumping Tests	1	05/12/92
DCN 92.01	Expired	1	05/22/92
DCN 92.02	Expired	1	05/15/92

This is a <sup>22</sup>

**DOCUMENT CHANGE NOTICE (DCN)**

**CONTROLLED DOCUMENT**  
EG&G - ROCKY FLATS PLANT  
ENVIRONMENTAL MANAGEMENT

This is a ~~RED Stamp~~  
Procedure Number 5-21000-OPS- GW.6, Rev. 2

Title <b>Groundwater Sampling</b>	Date <del>02/18/93</del> 5-10-93 MCA 4/19/93	DCN Number 5-21000-OPS- <sup>GW.6, Rev. 2</sup> 03.03
Expires <del>03/18/94</del> MCA 4/19/93	Procedure Revision Required	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Scope Limitation <b>NONE</b>		

Item Number	Page	Step or Paragraph	Changes (Use DCN CONTINUATION SHEET for Additional Space)
1	29	5.8.1.4 (New) MCA 4/19/93	<p>(New) MCA 4/19/93 Insert following text as Section 5.8.1.4.</p> <p><b>5.8.1.4 Groundwater Sampling Using a HydroPunch II in Hydrocarbon Mode</b></p> <p><del>MCA 4/19/93</del> This portion of SOP-GW-6 describes the use of the HydroPunch II in hydrocarbon mode for collecting groundwater samples at or near the groundwater surface. These samples may be used to obtain physical, chemical, or radiological analyses.</p> <p>A HydroPunch II with a 48-inch long screen inserted is advanced (hammered or pushed) to the desired depth and withdrawn (or opened) up to 48 inches. After groundwater enters the HydroPunch II, sample is collected using either the procedures in Section 5.8.1.1 <u>Groundwater Sampling Using a Baller</u> or in Section 5.8.1.2 <u>Groundwater Sampling Using a Peristaltic Pump</u>. Note that these samples are only for screening purposes because it has not been developed as a well.</p>

Justification (Reason for Change - Provide Numbers To Reference Corresponding items Above)

- 1) *Technique not covered in SOPs but useful for evaluating presence and extent of contamination.*

Concurrence	Organization	Req	Date	Concurrence	Organization	Req	Date
<i>[Signature]</i>	QAPM	X	5/16/93	<i>[Signature]</i>	User	X	3/18/93
<i>[Signature]</i>	EDM		4/10/93	<i>[Signature]</i>	User	X	3/18/93
				<i>[Signature]</i>	User	X	18-Mar-93
				<i>[Signature]</i>	EQS	X	4/19/93
Approval of Responsible Manger <i>[Signature]</i>		Date	5/3/93	Is Posting Req'd?	If Yes, By What Date?	Date Posted	
				<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	upon receipt		